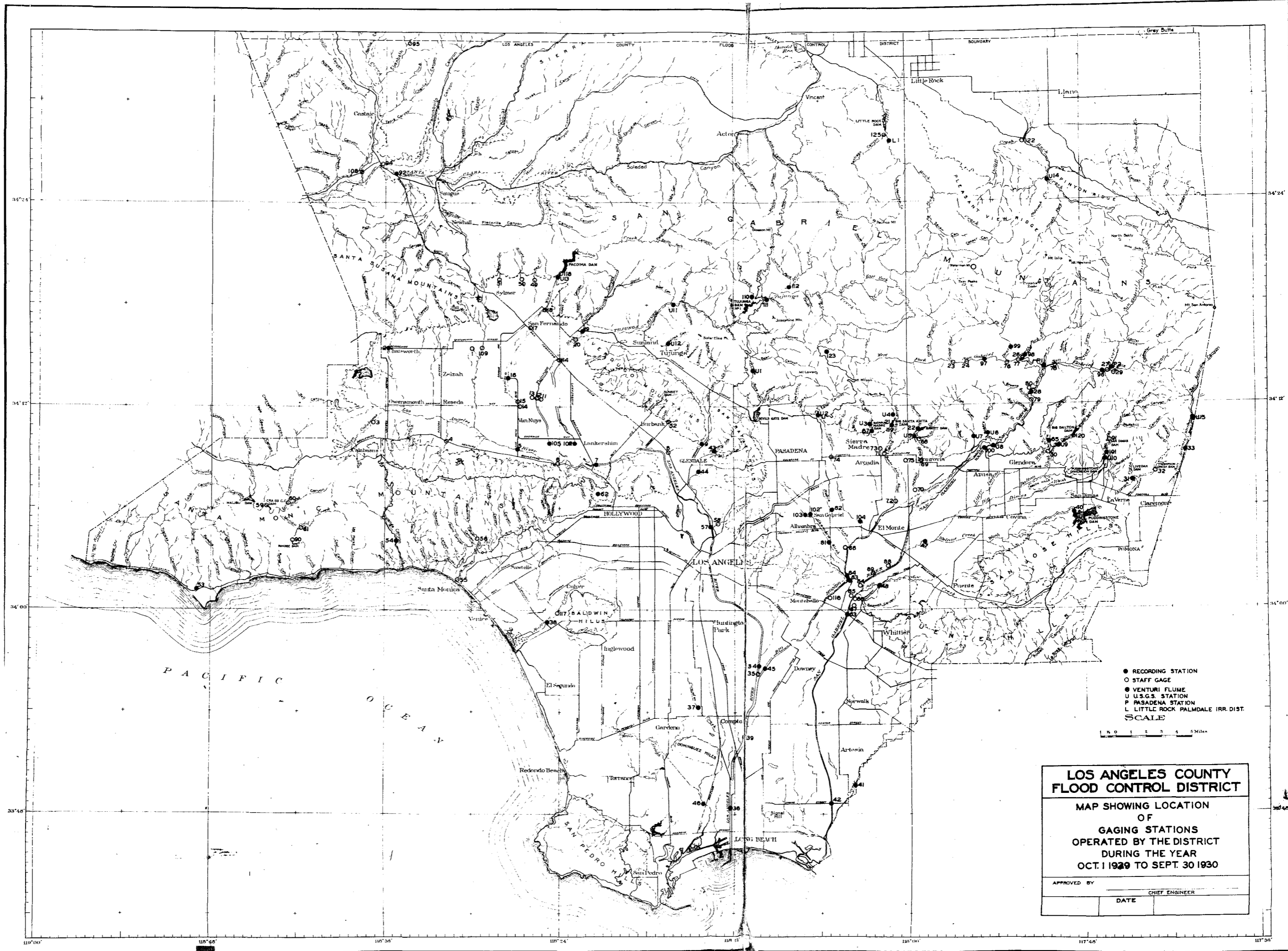


*LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
ANNUAL REPORT ON HYDROLOGIC DATA
Season 1929-1930*

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
RUNOFF REPORT
HYDROGRAPHIC DEPARTMENT
OCTOBER 1, 1929 - SEPTEMBER 30, 1930.



- RECORDING STATION
- STAFF GAGE
- ◐ VENTURI FLUME
- U U.S.G.S. STATION
- P PASADENA STATION
- L LITTLE ROCK PALMDALE IRR. DIST.

SCALE
1 2 3 4 5 Miles

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT**

MAP SHOWING LOCATION
OF
GAGING STATIONS
OPERATED BY THE DISTRICT
DURING THE YEAR
OCT. 1 1929 TO SEPT. 30 1930

APPROVED BY _____
CHIEF ENGINEER

DATE _____

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. **F81**

Rating table for **Alhambra Wash - Garvey Avenue**

, from **Jan. 14**, 19 **30**, to **May 31**, 19 **30**

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	1.25	.40	54.5	1.75	.80	132.5		1.20	248.5		1.75	553.0	8.40
.02	2.5		.42	58.0		.82	137.0		.22	255.5	4.0	.80	595.0	9.00
.04	5.0		.44	61.5		.84	141.5		.24	263.5		.85	640.0	9.40
.06	7.5		.46	65.0		.86	146.0		.26	271.5		.90	687.0	9.80
.08	10.0		.48	68.5		.88	151.0	2.50	.28	279.5		.95	736.0	10.20
.10	12.5		.50	72.0		.90	156.0		.30	287.5	2.00	1.00	787.0	
.12	15.0		.52	75.5		.92	161.5	2.75	.32	295.5		1.05	838.0	
.14	17.5		.54	79.0		.94	167.0		.34	303.5	4.25	1.10	889.0	
.16	20.0		.56	82.5	2.0	.96	172.5		.36	312.0	4.75	1.15	940.0	
.18	22.5		.58	86.5		.98	178.0		.38	321.5	5.00	1.20	991.0	
.20	25.0		.60	90.5	1.00	1.00	184.0	3.0	.40	331.5		1.25	1042.0	
.22	27.5	1.5	.62	94.5		1.02	190.0		.42	341.5	5.25	1.30	1093.0	
.24	30.5		.64	98.5		1.04	196.0		.44	352.0		1.35	1144.0	
.26	33.5		.66	102.5		1.06	202.0		.46	362.5		1.40	1195.0	
.28	36.5		.68	106.5		1.08	208.5	3.25	.48	373.0	5.50	1.45	1246.0	
.30	39.5		.70	110.5		1.10	215.0		.50	384.0	5.80	1.50	1297.0	
.32	42.5		.72	114.5		1.12	221.5		.55	413.0	6.20	1.55	1348.0	
.34	45.5		.74	119.0	2.25	1.14	228.0		.60	444.0	6.60	1.60	1399.0	
.36	48.5		.76	123.5		1.16	234.5	3.50	.65	477.0	7.20	1.65	1450.0	
.38	51.5		.78	128.0		1.18	241.5		.70	513.0		1.70	1501.0	

The above table is not applicable for obstructed channel conditions. It is based on **10** measurements made during **1929-1930**

and is **fairly** well defined between **0** second-feet and **450** second-feet.

Computed by **R.L.**
Checked by **Fr.B.**
Date **June 10, 1930**

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

RUNOFF REPORT

SEASON OF 1929-30

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 was the collection and compilation of stream flow data in Los Angeles County.

This work has been continued throughout the year beginning October 1, 1929 and ending September 30, 1930.

Installation of gaging stations throughout the County was continued until at the end of the year the District has constructed and is operating 43 stations. Of these stations, 17 are equipped with AU continuous water stage recorders, 11 with Stevens drum-type, 1 with Stevens continuous, and 14 with Rational drum-type.

The District also operates 12 stations in cooperation with the United States Geological Survey, Water Resources Branch, and 2 stations formerly operated by the Pasadena Water Department, making a total of 57 stations equipped with automatic water stage recorders in operation. Sixty-six staff gages have been installed on various streams and washes where the gage heights have been read during storms.

Approximately 2300 stream flow measurements were made at various locations on streams and washes in Los Angeles County during the 1929-1930 season.

The following automatic recording gage stations were established during the year:

Big Tujunga, West Wash at Magnolia Avenue
Big Tujunga, East Wash at Magnolia Avenue
Coyote Creek at Pacific Electric RR bridge near
Artesia.
Dume Creek at Roosevelt Highway.
Topanga Canyon at Highway Bridge about 2 miles
from ocean.

Station descriptions, lists of measurements, daily gage heights and discharges, monthly discharges, and measurements of percolation for various streams throughout the County for the water year commencing October 1, 1929 and ending September 30, 1930 are included in this report.

ALPHABETICAL INDEX

RECORDER STATIONS

RUNOFF REPORT

1929-1930

F.C. No.	Stream	Location	Pages
81	Alhambra Wash	Garvey Ave. Bridge	1-6
38	Ballona Creek	Centinela Boulevard	7-16
21	Big Santa Anita Cr.	$\frac{1}{4}$ mi. below F.C. Dam	17-22
2	Brown Canyon Ck.	Devonshire Ave., -Chatsworth	23
41	Coyote Creek	Below P.E. Bridge, Near Artesia	24-28
37	Compton Creek	Rosecrans Ave., Compton	29-38
62	Curson Canyon	Curson Canyon, -Hollywood	39
53	Dume Creek	Roosevelt Highway Bridge	40-44
67	Little Santa Anita Ck.	$\frac{1}{4}$ mi. below F. C. Dam	45-50
19	Little Tujunga Ck.	Foothill Blvd. Bridge	51
65	Little Dalton Ck.	Mouth of Canyon	52-58
31	Live Oak Creek	Near mouth of Canyon	59
7	Los Angeles River	Universal City	60-66
57	Los Angeles River	Dayton Ave. Bridge	67-71
34	Los Angeles River	Steward & Gray Rd.	72-79
5	Los Angeles River	Van Nuys Boulevard Bridge	80-86
36	Los Angeles River	Willow St., -Long Beach	87-93
22	Monrovia Creek	Near Jct. with Sawpit Ck.	94-99
46	Nigger Slough	Wilmington Ave.	100-106
16	Pacoima Wash	Parthenia St. Bridge	107-111
40	Puddingstone Ck.	1000 Ft. below F. C. Dam	112-116
83	Rio Hondo slough	San Gabriel Blvd. Bridge	117-122
64	Rio Hondo	1000 Ft. above Mission Bridge	123-131
45	Rio Hondo	Steward & Gray Rd. Bridge	132-142
82	Rubio Wash	Broadway St. Bridge	143-148
33	San Antonio Spd. Gr.	Mouth of Canyon	149-153
100	San Gabriel Spd. Ditch	Mouth of Canyon	154-159
42	San Gabriel River	Spring St., -Long Beach	160
63	San Gabriel River	Whittier Blvd. Bridge	161-165
99	San Gabriel R. Trib.	Pasadena Boy Scout Camp	166-171
96	San Gabriel R. E. Fk.	$\frac{1}{2}$ mi. below mouth Cattle Canyon	172-177
98	San Gabriel R. N. Fk.	2000 Ft. above Narrows	178-185
P2	San Gabriel R. E. Fk.	500 Ft. above mouth Cattle Cn.	186-191
	P. W. D. Sta.		
P1	San Gabriel R. W. Fk.	$\frac{1}{2}$ mi. above Fork	192-196
	P. W. D. Sta.		
97	San Gabriel R. W. Fk.	$3\frac{1}{2}$ mi. above N. Fork	197-203
28	San Gabriel River	Edison Intake	204-211
48	San Jose Creek	Workman Mill Rd. Bridge	212-218
92	Santa Clara River	Old Hwy. Bridge 4 mi. W. Saugus	219-225
43	Sycamore Upper Storm Drain	Solway St., -Glendale	226-230
44	Sycamore Lower Storm Drain	Adams Square-Glendale	231-236

ALPHABETICAL INDEX

RECORDER STATIONS

RUNOFF REPORT

1929-1930

P.C. No.	Stream	Location	Pages
54	Topanga Canyon Creek	Highway Bridge 2 mi. Above Mouth	237-241
9	Verdugo Storm Drain	Glen Oaks Blvd.-Glendale	242-246
47	Walnut Wash	Covina Blvd. Br.	247-251

U.S.G.S. STATIONS

U1	Arroyo Seco	Near Pasadena	252-257
U14	Big Rock Cr.	Near Valyermo	258-261
U4	Big Santa Anita Cr.	Near Sierra Madre	262-267
U9	Big Dalton Creek	Near Glendora	268-272
U11	Big Tujunga Creek	Near Sunland	273-277
U2	Eaton Creek	Near Pasadena	279-282
U7	Fish Creek	Near Duarte	283-289
U12	Haines Creek	Near Tujunga	290-293
U3	Little Santa Anita Creek	Near Sierra Madre	294-297
U13	Pacoima Creek	Near San Fernando	299-303
U6	Roger's Creek	Near Azusa	304-308
U8	San Gabriel River	Near Azusa	309-312
U15	San Antonio Creek	Near Valyermo	313-317
U10	San Dimas Creek	Near San Dimas	318-323
U5	Sawpit Creek	Near Monrovia	324-328

STAFF GAGE STATIONS

116	Arroyo Ditch	$\frac{1}{2}$ mi. N. of Whittier Blvd.	366
58	Arroyo Seco	Avenue 26 Bridge	
11	Big Tujunga Wash	E. Wash S.P.R.R. Bridge	
12	" " "	Middle Wash " "	
13	" " "	West " " "	
14	" " "	San Fernando Road	
20	" " "	Mulholland St. Bridge	
117	Ballona Creek	Duquesne St.	
52	Brand Canyon	Above Mountain Ave.	
87	Banta Ditch	At head of pipe line	354-355
79	Brown's Gulch	Near Jct. San Gab. R.	
1	Bull Canyon	Devonshire Ave.	340
61	Cold Creek	Crater Camp	
84	Cate Ditch	Below Headgate	348-349
108	Castaic Creek	Highway Bridge	
3	Calabasas Creek	Shoup Ave.	
29	Cattle Canyon	above Jct. San Gab. R.	338
95	Elizabeth Lake Ck.	at Narrows	339
74	Eaton Wash	Foothill Blvd	
51	Hansen Canyon	above Mountain Ave.	
6	Los Angeles River	Whitsett Ave.	342-343
35	Los Angeles River	Norton Ave.	
39	Los Angeles River	Artesia Ave.	

ALPHABETICAL INDEX

RECORDER STATIONS

RUNOFF REPORT

1929-1930

F.C. No.	Stream	Location	Pages
60	Las Virgenes Ck.	At Colyear Dam	341
73	Little Santa Anita Creek	Double Drive--Arcadia	
30	Little Dalton Ck.	Lorraine St.	344
49	May Can. Creek	Near Roxford Ave.	
56	Mandeville Can.	Above Administration Bldg.	
90	Malibu Creek	Malibu Gorge	
40	Otis Creek	Ventura Blvd.	
14	Pacoima Wash	200 ft. below Van Nuys Blvd.	
15	Pacoima Wash	Van Nuys Blvd.	
17	Pacoima Wash	San Fernando Blvd.	
18	Pacoima Wash	Mulholland St.	
115	Puddingstone Div.Channel		
118	Pacoima Creek	300 ft. below F.C. Dam	346
122	Palette Creek	At Big Rock Creek	
80	Polecat Gulch	Near Jct. with San Gab. R.	
89	Rincon Ditch	New Diversion	
23	San Gab. R.	West Fork above Narrows	
24	" " "	" " At Narrows	
26	" " "	North Fork " "	
27	" " "	East Fork Below Cattle Can.	
78	" " "	" " Above Forks	
76	" " "	West Fork Above Bear Ck.	
77	" " "	" " " North Fk.	
86	" " "	Below Stanifer Ditch	334
55	Santa Monica Can.	North Channel Rd.	333
69	Sawpit Wash	50 ft. Above Foothill Blvd.	332-353
70	Sawpit Wash	Peck Road	336
68	Spanish Canyon	Above Jct. With Sawpit	
72	Santa Anita Wash	1/4 mi. below Azusa Rd.	337
71	" " "	Foothill Blvd.	
75	Storm Drain	Sawpit Wash--Monrovia	335
85	Stanifer Ditch	Below Headgate	350-351
88	Sheep Creek	Below Temple Diversion	345
91	San Dimas Ck.	Above F.C. Dam	
93	Santa Clara R.	At Lang	329
94	San Francisquito Ck.	Near Castaic Jct.	332
109	San Fernando Ck.	Devonshire Ave.	331
119	Santa Anita Ck.	Below F.C. Dam	
32	Thompson Creek	1/2 mi below F.C. Dam	356-357
59	Trionfo Creek	Craig's Country Club	
66	Tri-City Sewer	Above Jct. with Rio Hondo	
8	Verdugo Wash	San Fernando Road	361-365
50	Wilson Canyon	Near County Hospital	
	Various measurements	Throughout County	
	Rising Water	Whittier Narrows	358-360

ALPHABETICAL INDEX

RUNOFF REPORT

STAFF GAGE STATIONS

1929-1930

Percolation Measurements

Pacoima Wash	367
Los Angeles River	368-369
Rio Hondo	370-379
Big Tujunga Wash	380-391
San Gabriel River	392-396

ALHAMBRA WASH GARVEY AVENUE BRIDGE

Location

On the east end, north side of Garvey Ave. bridge at Wilmar, 150 feet west of San Gabriel Boulevard.

Drainage Area

12.85 square miles.

Installed by

Los Angeles County Flood Control District, January 1929.

Records Available

Stream measurements Nov. 14, 1928 to January 1929
January 1929 to Sept. 30, 1930.

Gage

Stevens, Type L, 8 day recorder installed in shelter house on corrugated iron stilling well attached to downstream end of highway bridge pier. Vertical staff gage installed on pier.

Discharge Measurements

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

Channel and Control

Channel - sand and gravel.
Control - concrete section under bridge.

Extremes of Discharge

Maximum 1868.20 c.f.s. March 14, 1930.
Minimum Dry most of the year.

Diversions

None above gage.

Regulation

None.

Accuracy

Good.

Cooperation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. **F81**

Rating table for Alhambra Wash - Garvey Ave.

, from Jan. 14, 1930, to May 31st, 1930

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.
2.75	1552.0	10.20												
2.80	1603.0													
2.85	1654.0													
2.90	1705.0													
2.95	1756.0													
3.00	1807.0													
3.05	1858.0													
3.10	1909.0													

The above table is not applicable for obstructed channel conditions. It is based on 10 discharge measurements made during 1929-1930

and is fairly well defined between 0 second-feet and 450 second-feet.

Computed by R. L.

Checked by

Date June 10, 1930

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 81

River
Creek

Discharge measurements of Alhambra Wash

at Garvey Avenue
~~XXXX~~

during the year ending September 30, 1930

No.	Date	Made by	Width		Mean velocity	Gage height	Discharge		rating	Method	Coef.	Meas. No.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.			Feet	Sec.-ft.							
	1929														
1	1-5	Harting--Laird	27.6	6.59	1.21	.65	7.96		.6			12	.3	1/3	888
2	1-9	" "	28.5	21.93	5.53	.85	121.3		.6			12	0	1/2	"
3	1-11	" "	32.0	25.33	5.10	.74	119.0		.6			8	.12	1/3	"
4	1-12	" "	31.0	45.33	6.86	1.36	311.0		.6			8	.17	1/3	"
5	3-4	Lindsay--Laird	33.0	25.10	5.47	.78	137.4		.6			8	.33	1/3	"
6	3-14	" "	18.0	4.82	1.54	.06	7.4		.6			7	0	1/6	"
7	3-14	" "	32.0	46.95	6.92	1.42	325.5		.6			7	.45	1/3	"
8	3-15	" "	32.0	49.68	8.67	1.58	430.9		.6			8	.65	1/3	"
9	3-15	" "	32.0	22.56	6.33	.57	142.9		.6			7	.02	1/6	"
10	5-2	Lindsay	23.0	11.40	4.56	.17	52.0		.6			6	0	1/6	"
11	5-5	Lindsay--Laird	30.0	33.58	6.91	1.15	231.97		.6			7	0	1/6	"

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of **Alhambra Wash**

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. **F81**

At **Garvey Avenue** for the Year Ending September 30, 19**30**

Drainage Area **12.85** Square Miles. **R. Lindsay** [Observer.]

Gage Read to **Continuous**

Used rating table dated **June 10, 1930**

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		DRY		DRY		DRY		DRY	1	
2												"	2			H 3.18									2	
3												"	3			H 25.74									3	
4											H 21.67		4			H 12.77									4	
5											Dry		5			Dry									5	
6													6												6	
7													7												7	
8													8												8	
9													9												9	
10													10												10	
11													11												11	
12													12												12	
13													13												13	
14								H 2.20			H 82.79		14												14	
15							H 62.83				H 90.55		15												15	
16											H 15.03		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								H 3.68					26												26	
27													27												27	
28													28												28	
29													29												29	
30													30												30	
31													31												31	

TOTAL,								68.71		0.0		210.04				0.0		41.69							
Mean Daily Discharge in Second-feet								2.22				6.77				0.0		1.345							
Second-foot per square mile								.172																	
Run-off, depth in inches																									
Run-off in acre-feet								136.25		dry		416.67		dry		82.20								635.02	
Maximum Mean Daily Discharge in Second-feet								62.8		"		90.55		"		25.74									inc
Minimum Mean Daily Discharge in Second-feet								dry		"				"		dry									

Maximum stage **3.06** feet at **3:40pm** on **March 14, 1930** Discharge **1868.0** second-feet
 Minimum stage **dry** at various times during year

Quarter First Second Third Fourth
 G. H. Copied
 G. H. checked
 Date
 R. L.
 Fred B.
 6/11/30
 R. L.
 Fred B.
 6/11/30
 R. L.
 Fred B.
 6/11/30
 R. L.
 Fred B.
 6/11/30

BALLONA CREEK CENTINELA BLVD. NEAR CULVER CITY

Location

On Highway Bridge over Ballona Creek at Centinella Boulevard about $2\frac{1}{4}$ miles southwest of Culver City.

Drainage Area

111.97 square miles.

Installed by

Los Angeles County Flood Control District
February 27, 1928.

Records Available

February 27, 1928 to Sept. 30, 1930 at L.A.C.F.C.D.

Gage

AU continuous water stage recorder, variable speed, installed in wooden shelter house on corrugated iron pipe stilling well, attached to downstream side of bridge pier on east bank of stream.

Channel

Fine sand and silt.

Control

No control.

Extreme Discharge

Maximum 4463 c.f.s. January 11, 1930.
Minimum 0 c.f.s. various times during year.

Diversion

Gravel plant at Duquesne Street

Regulation

None.

Accuracy

Fair.

Discharge Measurements.

Low water flows by wading.
High water flows from cable situated 200 ft. upstream.

Cooperation

Located, constructed and operated by L.A.C.F.C.D. with the Los Angeles City Storm Drain Department and the U.S.G.S. Water Resources Branch.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 81

Monthly discharge of Alhambra Wash

~~River~~
~~Creek~~

at Garvey Ave.

for the year ending Sept. 30, 1930

(Drainage area 12.85 square miles)

MONTH	DISCHARGE IN SECOND-FOOT				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October.....							Dry
November.....							Dry
December.....							Dry
January.....	63.81	0	3.89			124.96	
February.....							Dry
March.....	99.15	0	6.77			416.57	
April.....							Dry
May.....	25.74	0	1.35			82.20	
June.....							Dry
July.....							"
August.....							"
September.....							"
The year period						627.67	inc

NOTE: Recorder installed Jan. 14, 1930.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of Ballona ~~River~~ Creek
at Centinela Blvd./Culver City near Culver City, during the year ending September 30, 19 30

No.	Date	Made by	Width		Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. G. Ht.		Time	Meter No.
			Feet	Sq.-ft.							No.	Total		
1	1929 10-4	C. E. Bollinger	9.2	4.27	.70	6.41	3.0		.6		6	0	1/4	271 650
2	10-11	"	9.1	4.44	.64	6.42	2.84		.6		7	.01	1/4	"
3	10-18	J. W. Luce	8.0	4.26	.48	6.37	2.05		.6		9	.04	1/5	"
4	10-21	"	7.0	3.70	.38	6.34	1.42		.6		8	.02	1/2	"
5	11-1	W. S. Hardgrove	7.0	3.91	.90	6.52	3.52		.6		7	.02	1/4	282 891
6	11-8	"	6.8	3.57	.74	6.51	2.64		.6		7	.02	1/3	"
7	11-15	"	6.0	2.90	.54	6.47	1.55		.6		7	.06	3/4	"
8	11-22	"	6.5	3.45	.68	6.52	2.33		.6		5	.04	1/2	"
9	11-29	"	6.5	3.30	.66	6.50	2.19		.6		5	0	-	"
10	12-6	"	6.8	4.19	.82	6.66	3.45		.6		5	0	-	"
11	12-13	"	6.5	3.24	.65	6.56	2.11		.6		5	0	-	"
12	12-20	"	6.5	3.26	.64	6.50	2.07		.6		5	0	-	"
13	1930 1-5	"	66.0	258. 3	5.08	10.50	1313. 0		.6		13	.40	3/4	"
14	1-5	Hardgrove Smith	65.0	272. 2	5.53	10.60	1507. 3		.6		13	.40	3/4	"
15	1-5	"	59.0	132. 0	3.54	8.82	466.0		.6		12	.35	5/12	"
16	1-5	"	57.0	113.	3.25	8.50	366.0		.6		11	.20	1/3	"
17	1-5	"	56.0	94.	12.79	8.15	262.0		.6		11	.20	2/3	"
18	1-5	"	56.0	75.2	2.91	8.05	218.0		.6		11	.10	1/3	"
19	1-6	"	66.0	270.	5.54	10.58	1500.		.6		13	1.20	7/12	"
20	1-6	"	66.0	248.	5.94	10.45	1472.		.6		13	.55	1/2	"
21	1-6	"	59.0	160.	4.58	9.18	733.		.6		12	1.55	2/3	"
22	1-6	"	110.	283. 8	5.66	11.00	1607. 5		.6		13	.60	2/3	"
23	1-7	"	10.0	5.1	1.60	6.57	8.18		.6		7	0	7/12	"
24	1-9	Hardgrove Olsen	59.0	153. 5	3.65	8.97	561.8		.6		6	.02	1/6	"
25	1-9	"	60.0	144.	4.20	8.93	600.		.6		7	.05	1/6	"
26	1-9	Hardgrove Smith	62.0	210.	5.70	9.75	1202.		.6		7	1.19	1/6	FC12
27	1-9	"	72.0	327.	7.0	11.70	2301.		.6		7	.65	7/12	"
28	1-9	"	74.0	404.	7.3	12.90	2951.		.6		7	.35	17/60	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of Ballona River
at Centinela/ Blv^d near Culver City Creek
during the year ending September 30, 1930

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	FC
1930														
29	1-9	Hardgrove Smith	76.0	419.0	7.6	13.10	3168.0			.6	8	10	17/60	12
30	1-9	Olsen Ashley	68.5	309.0	5.9	11.57	1832.0			.6	9	10	5/6	"
31	1-9	Hardgrove Ashley	64.0	235.0	4.9	10.70	1144.0			.6	7	18	1/4	"
32	1-9	Ashley Olsen	65.5	248.0	5.8	10.45	1433.0			.6	8	40	33/60	"
33	1-9	Hardgrove Ashley	64.0	241.0	6.88	10.55	1657.0			.6	7	22	1/2	"
34	1-11	Hardgrove Smith	62.0	198.0	5.28	10.05	1055.0			.6	7	-	5/12	20 FC
35	1-11	Meunier Olsen	56.0	93.0	2.70	7.84	249.0			.6	7	12	23/60	FC 12
36	1-11	Hardgrove Smith	59.0	137.0	4.95	9.02	679.0			.6	11	25	1/3	FC20
37	1-11	"	59.0	124.0	4.40	8.80	546.0			.6	11	20	17/60	"
38	1-11	Olsen Meunier	55.0	71.0	2.90	7.96	204.0			.6	7	21	22/60	FC12
39	1-12	Hardgrove Meunier	64.0	249.0	6.80	10.55	1689.0			.6	8	90	17/60	"
40	1-12	"	69.0	316.0	7.90	11.20	2505.0			.6	9	35	1/6	"
41	1-12	"	72.0	360.0	8.10	12.00	2905.0			.6	9	40	1/5	"
42	1-12	"	74.0	388.0	9.00	12.45	3514.0			.6	9	07	13/60	"
43	1-12	"	72.0	357.0	7.80	12.30	2768.0			.6	10	25	1/4	"
44	1-12	"	68.0	328.0	7.60	11.75	2492.0			.6	9	65	1/4	"
45	1-14	Hardgrove Smith	57.0	104.6	3.24	8.06	339.0			.6	8	42	1/3	"
46	1-14	"	57.0	115.0	3.36	8.30	388.0			.6	8	0	"	FC20
47	1-14	"	57.0	98.0	3.29	8.02	322.0			.6	8	19	5/12	"
48	1-14	"	54.0	65.9	2.25	7.70	148.0			.6n	10	11	3/4	"
49	1-15	Weinstock Ashley	60.0	187.0	5.40	9.88	1017.0			.6	7	03	1/3	FC12
50	1-15	Meunier Ashley	61.0	199.0	5.50	9.74	1091.0			.6	7	12	1/4	"
51	1-15	"	61.0	184.0	4.90	9.68	909.0			.6	7	03	11/60	"
52	1-15	"	57.0	107.0	3.20	8.33	341.0			.6	7	13	1/4	"
53	1-15	"	57.0	111.0	2.90	8.19	320.0			.6	7	0	3/10	"
54	1-15	Ashley Weinstock	60.0	203.0	5.50	9.67	1125.0			.6	12	32	5/12	"
55	1-17	W. S. Hardgrove	15.0	6.63	1.32	6.46	8.77			.6	9	-	-	FC20
56	1-24	"	5.6	2.77	0.97	6.30	2.70			.6	5	-	-	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of Ballona
near
at Centinela Blvd./Culver City
near

Ballona
Creek

during the year ending September 30, 1930

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Cont.	No. of gages	G. H. (ft.)	Time	Notes
			Feet	Sq. ft.	ft. per sec.	Feet	Sec.-ft.	Percent dit.			No.	Total	Hours	
1930														
57	1-31	W S Hardgrove	8.0	2.20	1.27	6.31	2.80	.6			7	-	-	FOOD
58	2-7	"	5.2	1.88	1.58	6.35	2.98	.6			5	-	-	"
59	2-14	"	2.9	1.64	1.54	6.33	2.52	.6			6	-	-	"
60	2-21	"	5.0	2.46	.80	6.33	1.97	.6			5	-	-	"
61	2-22	Hardgrove Smith	62.0	208.0	4.62	10.15	962.0	.6			7	32	5/12	"
62	2-28	W. S. Hardgrove	6.3	2.39	1.53	6.45	3.65	.6			6	-	-	"
63	3-7	"	3.5	1.35	2.27	6.43	3.07	.6			4	-	-	"
64	3-14	Meunier Wienstock	70.0	330.5	6.87	11.95	2270.0	.6			8	30	17/60	FC
65	3-14	"	70.0	349.8	3.72	12.31	1300.0	.6			7	42	2/3	"
66	3-14	Ashley Weinstock	70.0	324.5	3.56	11.75	1156.0	.6			8	30	19/60	"
67	3-14	"	70.0	282.0	3.55	11.60	999.0	.6			7	0	5/12	"
68	3-15	Ashley Meunier	55.0	117.0	3.16	8.78	371.0	.6			6	15	3/10	"
69	3-15	"	55.0	130.5	3.08	8.68	401.3	.6			5	05	1/3	"
70	3-15	Weinstock Meunier	58.0	164.6	3.80	9.20	627.0	.6			6	20	13/60	"
71	3-15	"	57.0	187.5	4.43	9.45	831.0	.6			7	30	13/60	"
72	3-15	"	59.0	173.1	5.05	9.75	954.0	.6			6	30	11/60	"
73	3-15	"	62.0	223.4	4.78	10.01	1066.0	.6			7	20	"	"
74	3-16	Hardgrove Ayres	63.5	209.5	5.35	10.48	1119.0	.6			9	05	1/4	FOOD
74A	3-16	W. S. Hardgrove	61.0	211.0	5.05	10.45	1066.0	.6			9	-	1/2	"
74B	3-16	"	6.0	2.60	1.50	6.45	3.90	.6			6	-	-	"
74C	3-28	"	5.0	1.39	1.17	6.29	1.63	.6			4	-	-	"
75	4-4	"	4.0	.86	.85	6.13	.73	.6			4	-	-	"
76	4-11	"	2.5	.45	.96	6.14	.43	.6			4	-	-	"
76A	4-30	Hardgrove Smith	54.0	97.2	1.09	8.27	105.2	.6			9	0	11/60	"
77	4-30	"	52.0	103.0	1.25	8.27	128.3	.6			9	01	14/60	"
77A	4-30	W. S. Hardgrove	58.0	125.0	1.37	8.48	171.3	.6			10	0	13/60	"
77B	4-30	Hardgrove Smith	59.0	130.2	1.10	8.46	143.0	.6			9	03	1/3	"
77C	5-2	W.S. Hardgrove	5.0	3.55	1.47	6.60	5.22	.6			5	-	-	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of **Ballona** near **Centinelita Blvd./Culver City** during the year ending September 30, 19**30**
 near **Culver City**

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	Rating	Method	Cora.	Gage	No.	Total	Hour	Notes
			Feet	Sq. ft.		Ft. per sec.	Feet									
1930																
77D	5-3	Hardgrove Ayres	70.	460.3	6.55	13.15	3016.0		.6				9	15	1/4	FC20
77E	5-3	"	71.	392.4	6.35	12.97	2490.0		.6				10	.25	1/2	"
78	5-3	"	71	409.0	6.53	13.37	2674.0		.6				10	05	5/12	"
79.	5-3	"	71	425.0	7.39	13.45	3139.0		.6				10	10	1/4	"
80	5-3	"	71	404.0	6.62	13.27	2680.0		.6				8	15	"	"
81	5-3	"	67.5	375.0	5.24	13.	1970.		.6				7	45	"	"
82	5-3	"	67.5	225.0	9.25	12.60	2081.		.6				7	-	-	"
83	5-3	"	62.0	230.	3.97	11.05	913.6		.6				7	70	1/3	"
84	5-4	"	55.0	132.8	1.98	8.95	263.0		.6				10	10	1/3	"
85	5-4	"	10.	8.85	0.84	6.99	7.45		.6				6	02	5/6	"
86	5-4	"	10.	10.55	1.23	7.12	13.0		.6				6	05	1/3	"
87	5-5	"	20.	8.9	1.42	7.11	12.7		.6				9	-	-	"
88	5-9	W.S. Hardgrove	3.8	1.10	2.50	6.47	2.73		.6				4	-	-	"
89	5-16	"	4.0	1.14	1.24	6.22	1.41		.6				4	-	-	"
90	6-13	"	2.0	.30	1.0	6.68	0.30		.6				4	-	-	"
91	6-27	"	2.0	.86	1.65	6.40	1.42		.6				4	-	-	"
92	7-3	"	7.0	4.10	1.41	7.11	5.29		.6				6	-	-	"
93	7-18	"	4.0	1.76	1.19	6.85	2.09		.6				4	-	-	"
94	7-26	"	3.6	2.10	1.45	6.90	3.04		.6				4	-	-	"
95	8-1	"	4.0	2.05	1.48	6.92	3.03		.6				4	-	-	"
96	8-8	"	4.2	2.50	1.11	6.95	2.77		.6				4	-	-	"
97	8-23	"	3.3	.97	1.73	-	1.68		.6				4	-	-	"
98	8-29	"	4.0	1.45	.78	6.82	1.13		.6				4	-	-	"
99	9-5	"	-	-	-	6.70	-		-				-	-	-	-
100	9-12	"	-	-	-	-	.58		-				-	-	-	-
101	9-20	"	-	-	-	-	1.50		-				-	-	-	-
102	9-26	"	4.0	1.18	1.60	4.68	1.88		.6				5	-	-	FC20

* change in gage height due to excavation of channel.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **F-38-R**

Rating table for **Ballona Creek** **Centinela Blvd.**
High Flow **, from Oct. 1** **, 19 29, to** **Sept 30** **, 19 30**

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.
7.00	8.71		8.0	215.		9.0	580.		10.	1100.		12.	2615.	
		.22			3.00			4.00			6.00			8.5
.05	9.81	.22	.05	230.		.05	600.		.10	1160.		.10	2700.	
.10	10.91	.22	.10	245.		.10	620.		.20	1220.		.20	2785.	
.15	12.00	.22	.15	260.		.15	640.		.30	1285.	6.50	.30	2870.	
.20	23.00	2.20	.20	275.		.20	665.	5.00	.40	1355.		.40	2960.	9.0
.25	34.00		.25	290.		.25	690.		.50	1425.		.50	3050.	
.30	45.00		.30	308.	3.60	.30	715.		.60	1495.		.60	3140.	
.35	56.00		.35	325.		.35	740.		.70	1565.	7.00	.70	3230.	
.40	67.00		.40	343.		.40	765.		.80	1640.	7.50	.80	3320.	
.45	78.00		.45	361.		.45	790.		.90	1715.	7.50	.90	3410.	
.50	89.00		.50	380.	3.80	.50	815.		11.	1790.	7.50	13.	3500.	
.55	100.0		.55	399.		.55	840.		.10	1870.	8.00	.10	3590.	
.60	111.0		.60	418.		.60	865.		.20	1950.	8.00	.20	3680.	
.65	122.0		.65	437.		.65	890.		.30	2030.	8.00	.30	3770.	
.70	134.0	2.40	.70	456.		.70	920.		.40	2110.	8.00	.40	3860.	
.75	146.0		.75	475.		.75	950.	6.00	.50	2190.		.50	3950.	
.80	158.0		.80	495.	4.00	.80	980.		.60	2275.	8.50	.60	4040.	
.85	170.0		.85	515.		.85	1010.		.70	2360.	8.50	.70	4130.	
.90	185.0	3.00	.90	535.		.90	1040.		.80	2445.	6.50	.80	4220.	
.95	200.0		.95	555.		.95	1070.		.90	2530.	8.50	.90	4310.	
									8.50	14.04400.				

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 _____

Checked by _____

Date _____

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **F-38-R**

Rating table for **Ballona Creek** **Centinela Blvd.**

Low Flow , from **Oct. 1** , 1929 , to **Sept. 30** , 1930

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	0		7.0	8.71	.22									
.05	.22	.044	.05	9.81	.22									
.10	.44	.044	.10	10.91	.22									
.15	.67	.046	.15	12.00	.22									
.20	.91	.048												
.25	1.18	.054												
.30	1.46	.056												
.35	1.75	.058												
.40	2.05	.060												
.45	2.36	.062												
.50	2.70	.068												
.55	3.06	.072												
.60	3.44	.076												
.65	3.86	.082												
.70	4.30	.10												
.75	4.86	.10												
.80	5.46	.12												
.85	6.06	.12												
.90	6.76	.14												
.95	7.61	.17												
		.22												

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

Checked by

Date

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of

Ballona Creek

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F33R

At Centinela Blvd. for the Year Ending September 30, 1930

Drainage Area 112. Square Miles.

[Hardgrove Observer.]

Gage Read by continuous

Used rating table dated

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY	Quarter	Computed	Checked	Date
	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	6.40	2.05	6.53	3.52	6.44	2.30	6.25	1.18	6.55	3.06	6.54	2.99	1	6.45	2.36	6.84	1.70	6.17	0.76	6.49	2.63		3.03		0.60	1				
2	6.44	2.30	6.48	2.57	6.40	2.05	6.11	0.49	6.53	2.91	6.52	2.84	2	6.36	1.81	6.73	4.66	6.17	0.76	6.74	4.76		3.00		0.40	2				
3	6.47	2.49	6.48	2.57	6.33	1.63	6.12	0.53	6.57	3.21	6.43	2.56	3	6.36	1.81	H	638.35	6.17	0.76	6.84	5.94		2.94		0.20	3				
4	6.52	2.85	6.45	2.36	6.36	1.81	6.34	1.70	6.55	3.06	7.02	9.15	4	6.38	1.35	7.64	119.80	6.17	0.76	6.46	2.52		2.88		0.10	4				
5	6.49	2.63	6.41	2.11	6.56	3.14	H	234.02	6.55	3.06	6.74	5.10	5	6.27	1.22	7.39	64.80	6.18	0.80	I	2.50		2.85		0	5				
6	6.53	2.92	6.48	2.57	6.66	3.96	H	140.67	6.53	2.91	6.39	1.22	6	6.26	1.23	6.55	3.06	6.08	0.35	I	2.48		2.80		0.10	6				
7	6.45	2.36	6.50	2.70	6.35	1.75	H	177.69	6.57	3.21	6.32	1.57	7	6.16	0.72	6.54	2.99	6.16	0.71	I	2.46		2.77		0.20	7				
8	6.56	3.13	6.44	2.64	6.42	2.16	6.72	4.56	6.57	3.21	6.24	1.37	8	6.16	0.72	6.54	2.99	6.13	0.58	I	2.44		2.77		0.30	8				
9	6.57	3.21	6.32	1.57	6.41	2.10	H	518.24	6.57	3.21	6.19	0.86	9	6.14	0.69	6.48	2.56	6.15	0.67		2.42		2.70		0.40	9				
10	6.58	3.29	6.40	2.05	6.30	1.46	H	168.63	6.56	3.13	6.20	0.91	10	6.23	1.07	6.40	2.05	6.15	0.67		2.40		2.70		0.50	10				
11	6.58	3.29	6.39	1.69	6.28	1.35	H	760.38	6.56	3.13	6.16	0.72	11	6.27	1.22	6.34	1.70	6.15	0.67		2.38		2.70		0.60	11				
12	6.56	3.14	6.42	2.17	6.34	1.70	H	315.52	6.54	2.99	6.17	0.76	12	6.19	0.87	6.30	1.46	6.17	0.76		2.36		2.70		0.64	12				
13	6.54	2.99	6.36	1.81	6.40	2.11	6.85	6.06	6.50	2.70	6.19	0.44	13	6.11	0.42	6.57	3.21	6.15	0.30		2.32		2.20		0.80	13				
14	6.52	2.85	6.18	0.82	6.42	2.16	H	111.31	6.53	2.91	H	1127.01	6.26	1.22	6.64	3.78	6.19	0.87		2.28		2.20		1.00	14					
15	6.50	2.70	6.25	1.55	6.42	2.16	H	536.67	6.12	0.53	H	592.80	6.37	1.37	6.66	3.96	6.23	1.07		2.24		2.20		1.10	15					
16	6.48	2.57	6.35	1.75	6.40	2.05	7.00	8.71	6.05	0.22	H	125.7	6.32	1.21	6.63	3.68	6.27	1.29		2.20		2.20		1.20	16					
17	6.41	2.11	6.37	1.87	6.41	2.11	6.83	5.82	6.11	0.49	H	27.30	6.19	0.77	6.61	3.52	6.27	1.29		2.16		2.20		1.30	17					
18	6.39	2.05	6.39	1.99	6.25	1.18	6.79	5.34	6.14	0.62	H	19.1	6.17	0.87	6.34	1.70	6.46	2.43		2.09		2.20		1.40	18					
19	6.32	1.57	6.49	1.99	6.25	1.18	6.76	5.00	6.27	1.29	6.46	2.47	19	6.17	0.87	6.37	1.87	6.32	1.57		2.20		2.20		1.50	19				
20	6.47	2.49	6.45	2.36	6.42	2.07	6.68	4.16	6.15	0.67	6.55	3.06	20	6.21	1.23	6.35	4.75	6.49	2.63		2.30		2.20		1.50	20				
21	6.38	1.93	6.44	2.30	6.35	1.75	6.63	3.68	6.28	1.35	6.70	4.7	21	6.34	1.23	6.42	2.17	6.43	2.24		2.40		2.20		1.55	21				
22	6.38	1.93	6.42	2.16	6.33	1.64	6.60	3.44	H	165.88	6.62	3.6	22	6.37	1.27	6.19	0.87	6.47	2.49		2.50		1.70		1.60	22				
23	6.48	2.57	6.50	2.70	6.31	1.51	6.57	3.21	6.70	4.36	6.59	3.3	23	6.40	1.27	6.11	0.49	6.33	1.62		2.60		1.68		1.70	23				
24	6.38	1.93	6.52	2.84	6.29	1.40	6.50	2.70	6.27	1.29	6.53	2.91	24	6.30	1.26	6.33	1.63	6.52	2.84		2.70		1.50		1.80	24				
25	6.29	1.40	6.47	2.49	6.26	1.23	6.55	3.06	6.35	1.75	6.48	2.57	25	6.30	1.26	6.25	1.18	6.49	2.63		2.80		1.40		1.80	25				
26	6.35	1.75	6.42	2.16	6.24	1.13	6.51	2.77	6.44	2.30	6.47	2.49	26	6.30	1.26	6.20	0.91	6.45	2.36	6.55	3.04		1.30		1.88	26				
27	6.38	1.93	6.44	2.30	6.23	1.06	H	103.74	6.54	2.99	6.43	2.23	27	6.15	0.87	6.20	0.91	6.57	3.21		3.04		1.20		1.90	27				
28	6.38	1.93	6.47	2.49	6.21	0.96	6.60	3.44	6.62	3.65	6.48	2.56	28	6.30	1.26	6.21	0.96	6.57	3.21		3.04		1.13		2.00	28				
29	6.45	2.36	6.42	2.16	6.19	0.86	6.53	2.91	-	-	6.48	2.56	29	6.30	1.26	6.17	0.76	6.45	2.36		3.04		1.13		2.00	29				
30	6.48	2.57	6.42	2.16	6.11	0.49	6.55	3.06	-	-	6.38	1.93	30	H	1.27	6.17	0.76	6.58	3.29		3.04		1.00		2.00	30				
31	6.50	2.70	-	-	6.32	1.57	6.51	2.80	-	-	6.38	1.93	31	-	-	6.17	0.76	6.54	2.99		3.04		0.80		-	31				

Maximum stage 14.07 feet at 5 am on 1/11/30
Minimum stage 0 feet at various times during July, Aug. Sept.

TOTAL	75.99	66.42	54.03	3141.49	231.09	2028.98	85.03	880.99	48.94	84.32	66.49	32.07	6795.84
Mean Daily Discharge in Second-feet	2.45	2.21	1.74	101.34	8.25	65.45	2.83	28.42	1.58	2.72	2.14	1.07	
Second-foot per square mile													
Run-off, depth in inches													
Run-off in acre-feet	150.72	131.74	107.17	6231.05	458.36	4024.40	168.55	1747.42	97.07	167.25	131.48	63.61	13478.94
Maximum Mean Daily Discharge in Second-feet	3.29	3.52	3.96	760.38	165.88	1127.01	2.36	638.35	3.29	5.94	3.03	2.00	
Minimum Mean Daily Discharge in Second-feet	1.40	0.82	0.49	0.49	0.22	0.49	0.42	0.49	0.30	2.09	0.80	0	

Quarter Fourth
Disch. applied Disch. checked
G. H. Copied G. H. checked
Date

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 21

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

at 1/4 mile Below FC Dam for the year ending Sept. 30, 19 30

(Drainage area 11.22 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	2.59	.19	.95			58.69	
November	2.13	.20	.76			44.43	
December	.70	.18	.27			17.17	
January	2.77	.20	.77			48.33	
February	2.59	.28	.99			54.71	
March	1.06	.16	.38			23.54	
April	3.62	.70	2.53			151.39	
May	2.43	.34	1.45			88.74	
June	2.59	2.13	2.37			140.62	
July	2.13	1.16	1.86			114.27	
August	2.43	1.72	2.10			128.80	
September	2.13	.45	1.57			93.24	
The year period						963.93	

NOTE: Flow controlled at dam

BROWN CANYON - DEVONSHIRE AVE.

Location

On culvert for Brown Creek at Devonshire Ave.
near town of Chatsworth, Los Angeles County, Calif.

Drainage area

14.3 square miles.

Installed by

Los Angeles County Flood Control District.
December 11, 1928.

Records available

December 11, 1928 - Sept. 30, 1930 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. 3 sections concrete culvert 120 feet
long.

Extremes of Discharge

No flow 1929-1930.

Regulation

None.

Accuracy

Will be good.

Cooperation

Station located, constructed and operated by
L. A. C. F. C. D. in cooperation with the
U.S.G.S. Water Resources Branch.

COYOTE CREEK BELOW P. E. BRIDGE
NEAR ARTESIA

Location

100 feet south of Pacific Electric Railroad
Trestle on the east bank of the Creek near
Artesia.

Drainage area

110.07 square miles.

Installed by

Los Angeles County Flood Control District.

Records Available

September 30, 1930.
Weekly measurements from Dec. 1, 1928
Recorder installed, Jan. 14, 1930.

Gage

Rational, 7 day recorder inclosed in shelter
house on top of corrugated iron still well.

Discharge Measurements

High measurements are made from P.E.R.R.
trestle. Low measurements by wading.

Channel and control

Channel is clay badly grown with tules.
No control.

Extreme Discharge

Maximum 91 c.f.s. January 15, 1930.
Minimum - Dry various times during year.

Diversion

None.

Regulation

None.

Accuracy

Poor.

Cooperation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 41

Discharge measurements of Coyote

Creek

at Below P. E. Bridge near Artesia during the year ending September 30, 19
near

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	1929 12-6	L W Jordan	3.0	.95	.69	1.98	.66		.6		3	0	1/6	982
2	12-13	Jordan-Fenwick	3.2	.73	.79	1.96	.58		.6		4	0	1/4	"
3	12-20	L W Jordan	3.0	.55	.47	1.88	.26		.6		3	0	1/6	"
1930														
4	1-15	"	12.5	4.60	1.18	2.78	5.41		.6		12	0	1/3	"
5	1-17	"	26.5	15.65	.81	3.83	12.70		.6		17	.10	1/2	"
6	1-24	"	3.7	1.14	.92	2.08	1.05		.6		4	0	1/6	"
7	2-7	"	4.0	1.30	1.06	2.16	1.38		.6		4	0	"	"
8	2-21	"	4.0	1.20	.88	2.11	1.06		.6		4	0	"	"
9	3-16	"	56.027	4.0	.30	6.41	82.6		.6		14	.06	7/12	"
10	3-21	"	8.8	2.91	1.21	2.68	3.51		.6		9	0	1/6	"
11	4-4	"	4.0	1.16	.77	2.08	.89		.6		4	0	1/12	"
12	4-18	"	2.5	.75	.64	1.88	.48		.6		3	0	"	"
13	5-16	"	2.0	.53	.21	1.71	.11		.6		4	0	1/5	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 41

below P. E. Bridge, near
Coyote Creek / Artesia

Rating table for

, from October 1, 1929, to September 30, 1930

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.
1.65	0.0	.006	.65	3.32	.05	4.3	21.40	.195	6.3	78.55	.37			
.70	.03	.014	.70	3.57	.054	4.4	23.35	.205	6.4	82.25	.375			
.75	.10	.02	.75	3.85	.06	4.5	25.40	.21	6.5	86.0	.375			
.80	.20	.02	.80	4.15	.06	4.6	27.50	.225	6.6	89.75	.375			
.85	.30	.02	.85	4.45	.064	4.7	29.75	.225	6.7	93.50				
.90	.40	.02	.90	4.77	.066	4.8	32.00	.25						
.95	.50	.03	.95	5.10	.07	4.9	34.50	.25						
2.00	.65	.034	3.00	5.45	.072	5.0	37.00	.25						
.05	.82	.036	.10	6.17	.078	5.1	39.50	.275						
.10	1.00	.036	.20	6.95	.08	5.2	42.25	.275						
.15	1.18	.036	.30	7.75	.095	5.3	45.00	.30						
.20	1.36	.038	.40	8.70	.10	5.4	48.00	.30						
.25	1.55	.04	.50	9.70	.105	5.5	51.00	.30						
.30	1.75	.04	.60	10.75	.115	5.6	54.00	.325						
.35	1.95	.04	.70	11.90	.13	5.7	57.25	.325						
.40	2.15	.044	.80	13.20	.135	5.8	60.50	.35						
.45	2.37	.046	.90	14.55	.155	5.9	64.0	.36						
.50	2.60	.048	4.00	16.10	.16	6.00	67.60	.365						
.55	2.84	.048	4.1	17.70	.18	6.1	71.25	.365						
.60	3.08	.048	4.2	19.50	.19	6.2	74.90	.365						

The above table is not applicable for obstructed channel conditions. It is based on 13 discharge measurements made during 1929-1930

and is well defined between 11 second-feet and 82.6 second-feet.

Computed by R. Lindsay

Checked by Checked JLI 1/29/31

Date 8/11/30 -

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 41

Monthly discharge of Coyote River
Creek

at below P. E. Bridge near Artesia for the year ending Sept. 30, 19 30
~~near~~

(Drainage area 110.0 square miles)

MONTH	DISCHARGE IN SECONDS-FEET				RESULT		Accuracy
	Maximum	Minimum	Mean	Per square mile	Inches on drainage area	Total in acre feet	
October							DRY
November							"
December	.66	0	.34			21.04	
January	56.32	0	4.34			367.03	
February	1.22	.79	1.07			59.40	
March	68.64	.72	5.43			337.64	
April	1.04	.04	.53			31.10	
May	1.04	0	.30			18.23	
June						0	
July						0	
August						0	
September						0	
The year period						730.44	

NOTE:

COMPTON CREEK AT ROSECRANS AVE., COMPTON

Location

On Rosecrans Ave. bridge about 1 mile northwest of Compton, Los Angeles County.

Drainage Area

21.74 square miles.

Installed by

Los Angeles County Flood Control District
Jan. 22, 1928.

Records Available

Jan. 22, 1928 to Sept. 30, 1930, at L.A.C.F.C.D.

Gage

An 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 580 c.f.s. March 14, 1930
Minimum - dry at various times during year.

Diversions

None.

Regulation

None.

Accuracy

Good.

Cooperation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. **7**

Discharge measurements of **Compton** River
Creek
at **Rosecrans Avenue Compton** during the year ending September 30, 19 **30**
~~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.	Percent diff.			No.	Total	Hours	
1929														
1	10-4	H. W. Jordan	5.2	1.64	.27	.81	.45		.6		6	0	1/6	271 636
2	10-11	"	4.8	2.01	.39	.88	.78		.6		5	0	1/6	"
3	10-18	"	5.0	1.88	.32	.82	.61		.6		5	0	"	"
4	10-25	"	5.0	2.33	.33	.91	.77		.6		5	0	"	"
5	11-1	"	5.5	2.13	.31	.84	.65		.6		6	0	"	"
6	11-8	"	5.5	1.85	.20	.78	.37		.6		5	0	"	"
7	11-15	"	4.9	2.33	.32	.90	.74		.6		5	0	"	"
8	11-22	"	4.8	2.06	.28	.84	.57		.6		5	0	"	"
9	11-29	G.E. Bollinger	1.7	.27	.74	.68	.20		.6		4	0	"	271 650
10	12-13	Jordan Fenwick.	5.3	3.00	.45	.94	1.34		.6		6	0	"	282 962
11	12-20	L. W. Jordan	4.8	2.23	.13	.82	.28		.6		5	0	"	"
1930														
12	1-4	"	4.7	2.77	.21	.77	.57		.6		5	0	"	"
13	1-9	"	39.0	57.8	1.78	2.48	103.0		.6		13	09	1/2	"
14	1-17	"	5.0	3.25	.36	.87	1.18		.6		4	0	1/6	"
15	1-24	"	4.0	2.15	.32	.83	.69		.6		4	0	"	"
16	2-7	"	5.0	2.60	.25	.84	.65		.6		5	0	"	"
17	3-14	"	42.0	121.72	.67	4.10	324.4		.6		11	0	1/4	"
18	3-21	"	4.0	2.40	.45	.90	1.07		.6		4	0	1/6	"
19	3-28	"	4.7	2.94	.38	.93	1.11		.6		5	02	"	"
20	4-18	"	4.5	3.00	.61	.97	1.83		.6		5	0	"	"
21	5-3	Jordan Fergus	40.0	96.2	1.91	3.64	183.0		.6		14	41	1/2	"
22	5-16	L W Jordan	3.5	1.47	.80	.86	1.13		.6		5	0	1/6	"
23	6-6	"	4.0	1.76	.74	.86	1.31		.6		4	01	"	"
24	6-20	"	4.0	2.10	.73	.86	1.53		.6		5	0	"	"
25	6-27	"	4.0	2.35	.66	.90	1.55		.6		4	0	"	"
26	7-11	"	4.0	2.05	.56	.89	1.14		.6		4	0	"	"
27	7-18	"	3.8	1.51	.41	.78	.62		.6		4	0	"	"
28	8-1	"	4.5	1.16	.45	.71	.52		.6		5	0	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 37

Discharge measurements of **Compton** River
Creek
at **Rosecrans Ave. Compton** during the year ending September 30, 19 **30**
near

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.	No.	Total	Days			
29	8-8	L W Jordan	5.0	1.51	.95	.90	1.43		.6		5	0	1/6	282 962
30	8-22	"	7.0	2.02	1.14	.40	2.31		.6		7	0	"	"
31	9-5	"	3.0	.38	.42	.24	.16		.6		4	0	"	"
32	9-12	"	5.8	1.02	.89	.34	.91		.6		6	0	"	"
33	9-26	"	3.5	.47	.60	.24	.28		.6		4	0	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 37

Rating table for Compton Creek at Rosecrans Avenue

Compton, from Aug. 22, 1930, to Oct. 1, 1930

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.
.22	0	.07												
.24	.14	.07												
.26	.28	.07												
.28	.42	.10												
.30	.62	.10												
.32	.82	.12												
.34	1.06	.13												
.36	1.32	.14												
.38	1.60	.15												
.40	1.90	.15												
.42	2.20	.20												
.44	2.60	.20												
.46	3.00	.25												
.48	3.50	.25												
.50	4.00	.30												
.52	4.60	.30												
.54	5.20	.40												
.56	6.00	.50												
.58	7.00	.50												
.60	8.00													

The above table is not applicable for obstructed channel conditions. It is based on 4 discharge measurements made during 1929-1930

and is fairly well defined between .16 second-feet and 2.31 second-feet.

Computed by W.T.K.
Checked by J.L.I.
Date 1/28/31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 37

High stage

Rating table for Compton Creek - Rosecrans Avenue

Compton, Calif., from Oct. 1, 1929, 19, to Sept. 30, 1930.

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	12.9		1.48	31.3		1.88	57.5		2.28	92.4		2.68	135.7	
.10	13.0		1.50	32.3		.90	59.0		.30	94.3		.70	133.0	
.12	13.9		.52	33.5		.92	60.6		.32	96.3		.72	140.4	
.14	14.8		.54	34.7		.94	62.1		.34	98.3		.74	142.8	
.16	15.7		.56	35.9		.96	63.7		.36	100.4		.76	145.2	
.18	16.6		.58	37.1		.98	65.2		.38	102.4		.78	147.6	
.20	17.6		.60	38.3		2.00	66.8		.40	104.4		.80	150.	
.22	18.5		.62	39.6		.02	68.5		.42	106.5		.82	152.6	
.24	19.4		.64	40.9		.04	70.2		.44	108.7		.84	155.2	
.26	20.3		.66	42.1		.06	72.0		.46	110.8		.86	157.8	
.28	21.3		.68	43.4		.08	73.7		.48	113.0		.88	160.4	
.30	22.2		.70	44.7		.10	75.4		.50	115.1		.90	163.0	
.32	23.2		.72	46.1		.12	77.2		.52	117.4		.92	165.6	
.34	24.2		.74	47.4		.14	79.1		.54	119.6		.94	168.2	
.36	25.1		.76	48.8		.16	80.9		.56	121.9		.96	170.8	
.38	26.1		.78	50.1		.18	82.8		.58	124.1		.98	173.4	
.40	27.1		.80	51.5		.20	84.6		.60	126.4		3.00	176.0	
.42	28.1		.82	53.0		.22	86.5		.62	128.7		.02	178.8	
.44	29.2		.84	54.5		.24	88.5		.64	131.0		.04	181.6	
.46	30.2		.86	56.0		.26	90.4		.66	133.4		.06	184.4	

The above table is not applicable for obstructed channel conditions. It is based on 15 dis-charge measurements made during 1928-1929 and 1929-1930

and is well defined between 13 second-feet and 150 second-feet.

Used 1928-1929 high stage curve

Computed by MAR
Checked by OEB 5/6/30
Date Sept. 30, 1929
Apr. 30, 1930.

II
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

High Stage

File No. 37

Rating table for Compton Creek - Rosecrans Avenue

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

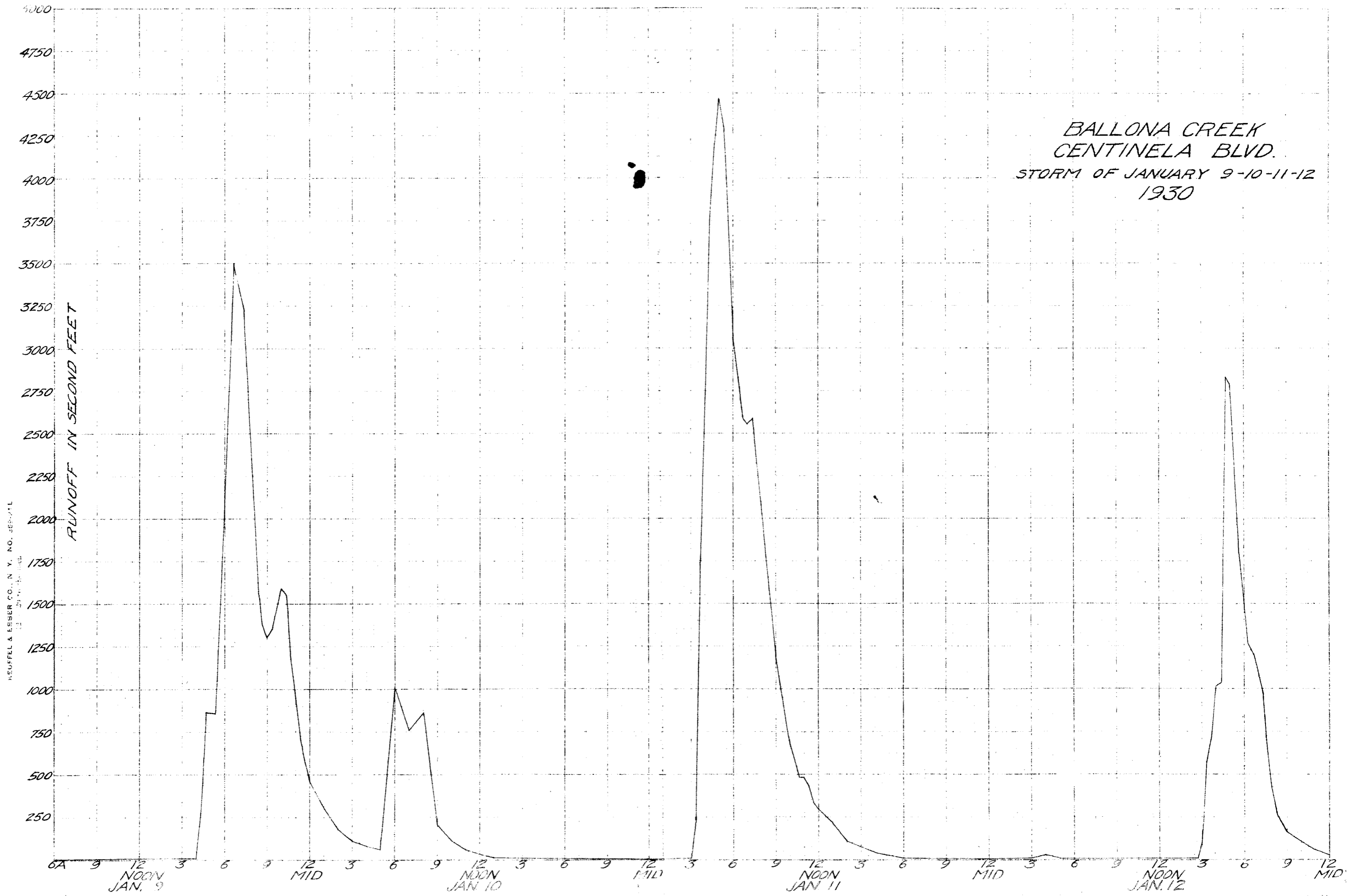
Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.	Feet	Sec.-ft.	Sec.-ft.
3.08	187.2		3.48	244.		3.88	309		4.28	387		4.68	494	
.10	190		.50	247		.90	312		.30	391		.70	500	
.12	192.8		.52	250		.92	316		.32	396		.72	507	
.14	195.6		.54	253		.94	319		.34	401		.74	514	
.16	198.4		.56	256		.96	323		.36	406		.76	521	
.18	201		.58	259		.98	326		.38	410		.78	528	
.20	204		.60	262		4.00	330		.46	415		.80	535	
.22	207		.62	265		.02	334		.42	420		.82	542	
.24	210		.64	268		.04	338		.44	425		.84	550	
.26	212		.66	272		.06	341		.46	430		.86	557	
.28	215		.68	275		.08	345		.48	435		.88	565	
.30	218		.70	278		.10	349		.50	440		.90	572	
.32	221		.72	281		.12	353		.52	446		.92	580	
.34	224		.74	285		.14	357		.54	451		.94	587	
.36	226		.76	288		.16	362		.56	457		.96	595	
.38	229		.78	291		.18	366		.58	462		.98	602	
.40	232		.80	295		.20	370		.60	468		5.00	610	
.42	235		.82	298		.22	374		.62	474		.02	618	
.44	238		.84	302		.24	379		.64	481		.04	626	
.46	241		.86	305		.26	383		.66	487		.06	634	

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

and is well defined between 13 second-feet and 150 second-feet.

Used 1928-1929 - high stage curve

Computed by MAR
 Checked by CEB 5/6/30
 Date Sept. 30, 1929
April 30, 1930



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Monthly discharge of Ballona River
Creek

at Centinela Blvd. near Culver City
for the year ending Sept. 30, 19 30

(Drainage area 111.97 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			2.45			150.72	
November			2.21			131.74	
December			1.74			107.17	
January			101.34			6231.05	
February			8.25			458.36	
March			65.45			4024.42	
April			2.83			168.65	
May			28.42			1747.42	
June			1.58			97.07	
July			2.72			167.25	
August			2.14			131.48	
September			1.07			63.61	
The year period						13,478.94	

NOTE:

BIG SANTA ANITA CREEK 1/4 MILE BELOW
FLOOD CONTROL DAM

Location

In Big Santa Anita Canyon about 1/4 mile below Los Angeles County Flood Control Dam. About 4 miles north of Arcadia.

Drainage Area

11.05 square miles.

Installed by

Los Angeles County Flood Control District.

Records Available

August 19, 1927 - September 30, 1930.

Gage

An continuous water stage recorder located in rubble concrete house on east bank of stream between girder bridge and weir. Two staff gages on stilling well and girder house structure.

Discharge Measurements

Made by wading about 75 feet below or 15 feet above the gage, during low water flows. High water measurements made from girder bridge 15 feet above gage.

Channel

Sand, rock and gravel.

Control

15' rubble - concrete weir, 15 feet below recorder house, with 24" crest Cisolletti weir 12" deep, with cleanout pipe.

Extremes of Discharge

Maximum 1929-1930 - 3.62 c.f.s. April 12
Minimum 1929-1930 - .80 November

Diversions

None above gage.

Regulation

Flow regulated by discharge through Los Angeles County Flood Control Dam.

Accuracy

Good.

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. 21

Discharge measurements of

Big Santa Anita

~~River~~
Creek

at 1/4 mile below Flood Control Dam during the year ending September 30, 1930

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	
	1929													271
1	10-4	Rodger P. Dalton	3.5	1.33	.44	.32	.59		.6		6	0	1/6	647
2	10-18	"	3.5	.87	.94	.35	.82		.6		8	0	1/12	"
3	10-25	"	3.5	.84	1.02	.35	.86		.6		8	0	"	"
4	11-1	"	4.0	1.33	1.23	.46	1.64		.6		9	0	1/6	"
5	11-8	"	3.8	1.05	1.18	.46	1.24		.6		8	0	"	"
6	11-13	"	5.5	1.04	1.11	.47	1.15		.6		10	0	1/6	FC25
7	11-15	"	2.5	.40	.57	.36	.23		.6		6	0	"	"
8	11-22	"	1.5	.36	.50	.35	.19		.6		4	0	1/12	"
9	11-29	"	1.5	.30	.51	.35	.17		.6		4	0	"	"
10	12-6	"	1.5	.30	.70	.36	.22		.6		4	0	"	"
11	12-13	"	1.5	.30	1.00	.36	.30		.6		4	0	-	"
12	12-20	"	1.5	.30	.60	.36	.18		.6		4	0	-	"
13	12-27	"	1.5	.37	.80	.39	.37		.6		5	0	-	"
14	1930 1-3	"	2.5	.48	.70	.35	.35		.6		5	0	1/12	"
15	1-10	"	2.4	.28	1.00	.34	.27		.6		5	0	"	"
16	1-17	"	2.5	.30	.80	.33	.25		.6		5	0	"	"
17	1-31	"	6.3	1.79	1.46	.68	2.61		.6		10	0	1/6	"
18	2-7	"	6.5	1.76	1.32	.68	2.33		.6		10	0	"	"
19	2-14	"	4.0	.95	.90	.56	.88		.6		6	0	1/12	"
20	2-21	"	2.6	.35	.80	.53	.26		.6		5	0	"	"
21	3-1	Dalton Lindsay	2.4	.37	.80	.52	.28		.6		4	0	-	"
22	3-7	Rodger P. Dalton	2.3	.32	.81	.52	.26		.6		4	0	1/12	"
23	3-14	"	1.0	.20	.70	.50	.14		.6		2	0	"	"
24	3-21	R. Lindsay	2.0	.20	1.00	-	.20		.6		4	0	1/12	882 883
25	3-26	Rodger P. Dalton	1.0	.20	1.25	.42	.25		.6		2	0	-	"
26	3-28	"	1.5	.30	1.23	.42	.37		.6		2	0	-	801 802 803
27	4-4	R. Lindsay	4.6	1.3	2.54	.60	3.30		.6		6	0	1/6	853
28	4-11	"	6.0	1.8	1.89	.66	3.40		.6		6	-	"	"

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **21**

Discharge measurements of

Santa Anita Creek

**River
Creek**

at $\frac{1}{2}$ mile below F.C. Dam
near

during the year ending September 30, 19 **30**

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	Method	Coef.	Meas. secs.	C. Ht. change	Time	Meter No.
			Feet	Sq.-ft.		Feet	Sec.-ft.							
	1930													
29	4-11	R. Lindsay	6.0	1.57	1.71	.62	2.69		.6		6	0	1/6	282 883
30	4-25	"	5.9	1.53	1.73	.62	2.59		.6		6	0	"	"
31	5-2	"	4.0	.58	.81	.50	.47		.6		4	0	1/12	"
32	5-9	"	5.5	1.16	1.48	.60	1.73		.6		5	0	1/6	"
33	5-16	"	5.0	1.10	1.77	.58	1.95		.6		5	0	1/10	"
34	5-23	"	4.4	1.02	1.05	.58	1.07		.6		4	0	"	"
35	5-29	"	4.0	1.77	1.35	.59	2.39		.6		4	0	1/12	"
36	6-6	"	4.0	1.80	1.23	.59	2.31		.6		5	0	1/6	"
37	6-13	"	4.3	1.91	1.35	.60	2.57		.6		5	0	1/6	"
38	6-20	"	4.4	1.73	1.38	.60	2.39		.6		5	0	1/10	"
39	6-27	"	4.3	1.60	1.38	.60	2.20		.6		5	0	1/10	"
40	7-4	"	3.0	1.17	1.63	.59	1.91		.6		5	0	1/6	"
41	7-11	"	4.5	1.17	1.55	.50	1.81		.6		4	0	1/6	"
42	7-18	"	3.8	1.19	1.70	.50	2.02		.6		7	0	"	"
43	7-25	"	4.0	3.45	.68	.52	2.34		.6		4	0	1/12	"
44	8-1	"	5.0	1.32	1.27	.52	1.68		.6		5	0	1/6	"
45	8-8	"	5.3	1.39	1.44	.53	2.00		.6		5	0	1/12	"
46	8-15	"	3.5	1.59	1.50	.52	2.38		.6		6	0	1/6	"
47	8-22	"	4.3	3.64	.59	.51	2.16		.6		4	0	1/12	"
48	8-29	"	4.3	3.89	.52	.51	2.04		.6		4	0	1/12	"
49	9-5	"	4.2	3.43	.59	.50	2.02		.6		4	0	1/12	"
50	9-12	"	4.2	3.68	.55	.50	2.04		.6		4	0	1/12	"
51	9-25	"	2.5	.32	.81	.39	.26		.6		4	0	1/12	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Rating table for Big Santa Anita Creek - 1/4 mile below Flood Control Dam

, from Oct. 1, 1929, to Sept. 30, 1930.

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	.006	.40	.36										
.02			.42	.45	.045									
.04			.44	.55	.05									
.06			.46	.70	.075									
.08			.48	.87	.085									
.10			.50	1.06	.095									
.12			.52	1.26	.10									
.14			.54	1.48	.11									
.16			.56	1.72	.12									
.18			.58	1.98	.13									
.20	.06	.006	.60	2.28	.15									
.22	.08	.01	.62	2.59	.15									
.24	.10		.64	2.96	.18									
.26	.12		.66	3.40	.22									
.28	.14		.68	3.85	.22									
.30	.16	.01	.70	4.40	.37									
.32	.20	.02												
.34	.24													
.36	.28													
.38	.32	.02												

The above table is not applicable for obstructed channel conditions. It is based on 28 discharge measurements made during Oct. 1, 1929 to Sept. 30, 1930

and is fairly well defined between .14 second-feet and 3.40 second-feet.

Computed by W. T. K.
Checked by J. L. I.
Date 11/28/30

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Low Stage

File No. 37

Rating table for Compton Creek - Rosecrans Avenue

Compton, from Oct. 1, 1929, to Aug. 22, 1930

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.
.40	0	.007	.60	.15		.80	.44		1.00	3.56				
.41	.01		.61	.16		.81	.47		.01	4.10	.54			
.42	.01		.62	.16		.82	.50		.02	4.64				
.43	.02		.63	.17		.83	.55	.05	.03	5.30	.66			
.44	.03		.64	.18		.84	.60		.04	6.00	.70			
.45	.04		.65	.19		.85	.65		.05	6.93	.93			
.46	.04		.66	.19		.86	.70		.06	7.86				
.47	.05		.67	.20		.87	.75		.07	8.80				
.48	.06		.68	.20		.88	.80		.08	10.20	1.40			
.49	.06		.69	.21	.015	.89	.89	.09	.09	11.60				
.50	.07		.70	.23		.90	.98		.10	13.00				
.51	.08		.71	.25		.91	1.07							
.52	.09		.72	.26		.92	1.16							
.53	.10		.73	.27		.93	1.25							
.54	.11		.74	.29		.94	1.34							
.55	.11		.75	.30		.95	1.57	.23						
.56	.12		.76	.32		.96	1.80							
.57	.13		.77	.35	.03	.97	2.20	.40						
.58	.14		.78	.38		.98	2.60							
.59	.14		.79	.41		.99	3.08	.48						

The above table is not applicable for obstructed channel conditions. It is based on 17 discharge measurements made during Oct. 1, 1929 - April 1, 1930

and is very well defined between .20 second-feet and 2.0 second-feet.

Computed by M.A.R.

Checked by Q.B.B. 5/5/30

Date April 30, 1930

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of

Compton

Creek

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 37

At **Rosecrans Ave., Compton**

for the Year Ending September 30, 19 **30**

Drainage Area **21.74** Square Miles.

[**Jordan** Observer.]

Gage Read to **continuous**

Used rating table dated **April 30, 1930**

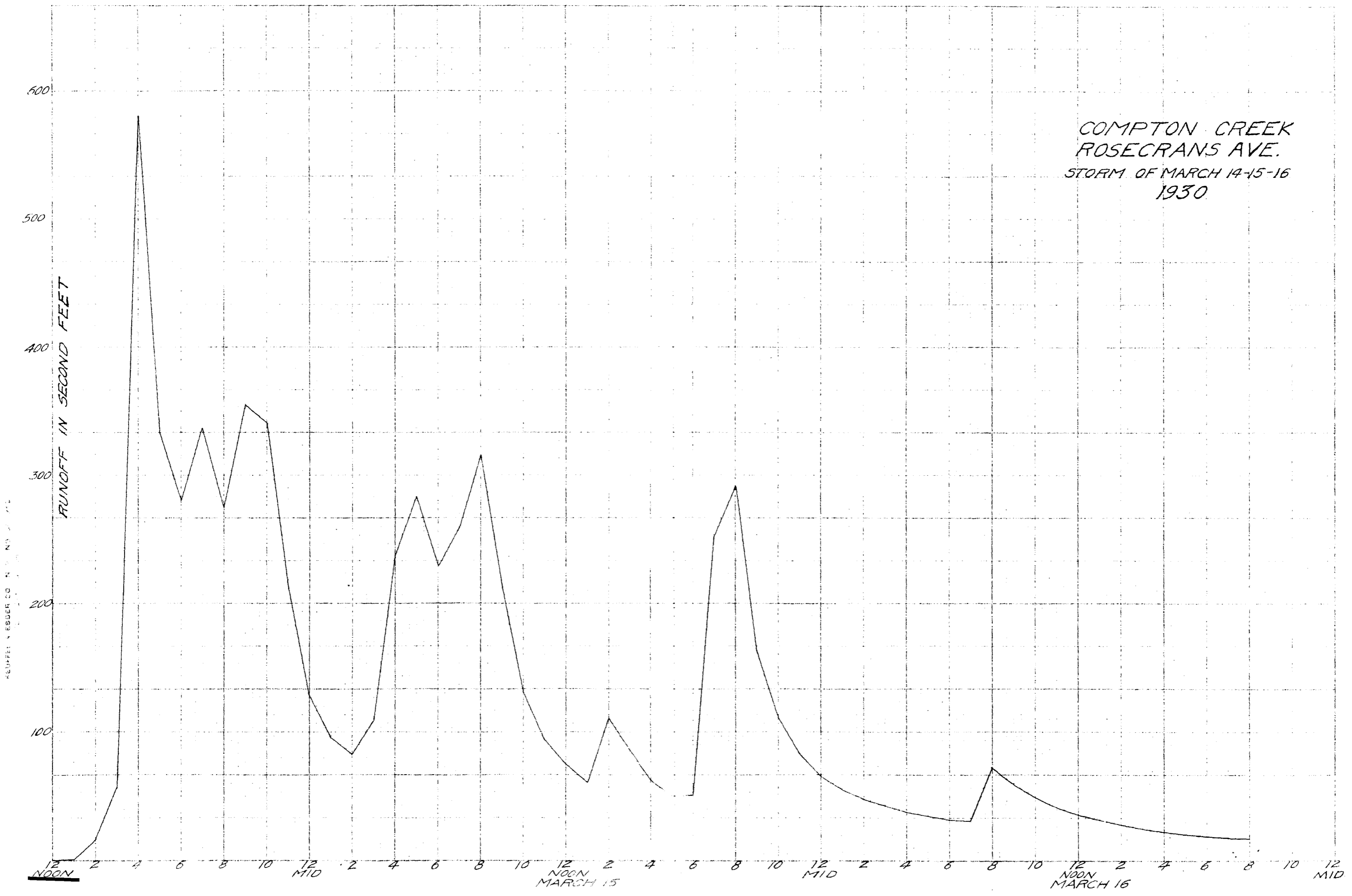
		OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
DAY	DAY	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	DAY	DAY	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	DAY	DAY	Quarter	Fourth
1	1	.28	Dry	.78	0.38	.41	.01	.36	Dry	.87	.75	.90	.98	1	1	.92	1.16	.93	1.25	.50	.07	.87	.75	.73	.27	.22	0	1	1
2	2	.74	0.18	.80	.44	.38	Dry	.22	Dry	.82	.50	.85	.65	2	2	.93	1.25	.92	1.16	.50	.07	.86	.70	.70	.23	.15	0	2	2
3	3	.70	.23	.80	.44	.24	Dry	.19	Dry	.66	.19	.68	.20	3	3	.93	1.25	H	60.02	.92	1.16	.85	.65	.57	.13	.24	.14	3	3
4	4	.76	.32	.56	.12	.63	.09	.74	.29	.88	.80	H	11.5	4	4	.92	1.16	H	11.70	.88	.80	.84	.60	.52	.09	.26	.28	4	4
5	5	.88	.80	.77	.35	.71	.25	H	30.0	.90	.98	H	1.80	5	5	.92	11.16	H	34.75	.85	.65	.50	.07	.72	.26	.26	.28	5	5
6	6	.81	.47	.81	.47	.53	.10	H	7.59	.89	.89	.91	1.07	6	6	.92	11.16	.90	.98	.82	.50	.42	.01	.75	.30	.26	.28	6	6
7	7	.66	.19	.84	.60	.56	.12	H	24.6	.89	.89	.87	.75	7	7	.92	11.16	.87	.75	.78	.38	.40	0	.87	.75	.24	.14	7	7
8	8	.85	.65	.84	.60	.39	Dry	.87	.75	NR	10.87	.84	.80	8	8	.92	11.16	.89	.89	.70	.23	.85	.65	.85	.65	.27	.35	8	8
9	9	.86	.70	.83	.55	.48	.08	NR	54.0	NR	10.85	.83	.55	9	9	.92	11.16	.91	1.07	.53	.10	.90	.98	.85	.65	.35	1.19	9	9
10	10	.89	.89	.76	.32	.48	.06	NR	30.0	NR	10.83	.64	.18	10	10	.92	11.16	.88	.80	.80	.44	.95	1.57	.62	.16	.36	1.32	10	10
11	11	.88	.80	.58	.14	.78	.38	NR	144.0	NR	10.81	.89	.89	11	11	.92	11.16	.83	.55	.80	.44	.92	1.16	.56	.12	.36	1.32	11	11
12	12	.74	.29	.74	.29	.76	.32	H	34.0	NR	10.79	.85	.65	12	12	.91	1.07	.69	.21	.75	.30	.90	.98	.76	.32	.36	1.32	12	12
13	13	.55	.11	.83	.55	.82	.50	1.10	13.0	NR	10.77	.90	.98	13	13	.82	.50	.86	.70	.67	.20	.80	.44	.78	.38	.35	1.19	13	13
14	14	.41	.01	.35	.65	.62	.16	H	35.5	.87	.75	H	119.7	14	14	.94	1.34	.91	1.07	.64	.18	.60	.15	.83	.55	.30	.62	14	14
15	15	.63	.12	.89	.89	.43	.02	H	74.8	.88	.80	H	148.5	15	15	.92	1.16	.92	1.16	.48	.06	.82	.80	.87	.75	.20	0	15	15
16	16	.68	.31	.88	.80	.71	.11	1.19	17.10	.81	.47	H	41.3	16	16	.93	1.25	.86	.70	.45	.04	.82	.50	.72	.26	.35	1.19	16	16
17	17	.67	.20	.82	.50	.60	.15	.94	1.34	.61	.16	1.29	21.7	17	17	.96	1.80	.86	.70	.66	.19	.84	.60	.50	1.26	.35	1.19	17	17
18	18	.75	.30	.63	.17	.86	.70	.91	1.07	.88	.80	H	24.0	18	18	.93	1.25	.80	.44	.70	.23	.80	.44	.39	1.27	.35	1.19	18	18
19	19	.90	.98	.86	.70	.88	.80	.83	.55	.91	1.07	1.14	14.80	19	19	.93	1.25	.70	.23	.70	.23	.75	.30	.32	1.27	.36	1.32	19	19
20	20	.79	.41	.86	.70	.84	.60	.72	.26	1.00	3.56	.96	1.80	20	20	.84	.60	.86	.70	.75	.30	.64	.18	.28	1.28	.37	1.75	20	20
21	21	.49	.06	.87	.75	.68	.20	.88	.80	.74	1.34	.94	1.34	21	21	.71	.25	.90	.98	.88	.80	.59	.14	.27	1.28	.31	.72	21	21
22	22	.78	.30	.35	.65	.46	.04	.89	.89	H	19.2	.94	1.34	22	22	.92	1.16	.92	1.16	.62	.16	.83	.55	.26	.28	.26	.28	22	22
23	23	.88	.80	.83	.55	.31	Dry	.88	.80	H	19.2	.94	1.34	23	23	.82	.50	.95	1.57	.60	.15	.88	.80	.40	1.90	.35	1.19	23	23
24	24	.84	.60	.82	.50	.41	.01	.88	.80	.71	.25	.72	.26	24	24	.90	.98	.90	.98	.82	.50	.83	.55	.26	.28	.35	1.19	24	24
25	25	.87	.75	.51	.08	.41	.01	.91	1.07	.90	.98	.93	1.25	25	25	.94	1.34	.77	.35	.70	.23	.78	.38	.11	0	.36	1.32	25	25
26	26	.85	.65	.81	.47	.33	Dry	.80	.44	.88	.80	.94	1.34	26	26	.93	1.25	.70	.23	.92	1.16	.83	.55	.31	.72	.27	.35	26	26
27	27	.76	.32	.88	.80	.44	.03	H	58.5	.87	.75	.93	1.25	27	27	.82	.50	.92	1.16	.91	1.07	.60	.15	.31	.72	.32	.82	27	27
28	28	.47	.05	.88	.80	.29	Dry	.97	2.20	.88	.80	.93	1.25	28	28	.70	.23	.90	.98	.90	.98	.48	.06	.30	.62	.27	.35	28	28
29	29	.74	.20	.70	.23	.49	.06	.89	.89	.	.	.93	1.25	29	29	.93	1.25	.90	.98	.65	.19	.78	.38	.21	0	.28	.42	29	29
30	30	.79	.41	.43	.02	.47	.05	.89	.89	.	.	.85	.65	30	30	1.15	15.20	.88	.80	.49	.06	.78	.38	.29	.52	.32	.82	30	30
31	31	.57	.20	.	.	.37	Dry	.87	.75	.	.	.68	.20	31	31	.	.65	.1975	.30	.26	.28	.	.	31	31

Maximum stage **4.94** feet at **4.00** pm on **Mar. 14, 1930**
 Minimum stage **0** feet at **0** **hrs**
 Hydrographs during periods of no record computed by comparison

TOTAL	12.30	14.51	4.83	536.88	51.08	414.08	45.82	129.21	11.87	15.77	12.55	22.53	1271.43
Mean Daily Discharge in Second-foot	0.40	0.48	0.15	17.32	1.82	13.36	1.53	4.17	0.40	0.52	0.40	0.75	3.48
Second-foot per square mile													
Run-off, depth in inches													
Run-off in acre-feet	24.40	28.78	9.58	1064.90	101.32	821.33	90.88	256.28	23.54	31.28	24.89	44.69	2521.87
Maximum Mean Daily Discharge in Second-foot	.98	.89	.80	142.0	19.2	148.	15.20	60.02	1.16	1.57	1.90	1.75	
Minimum Mean Daily Discharge in Second-foot	Dry	.02	Dry	Dry	.19	.20	.23	.21	.06	0			

JULY 1/28/31
 MAR 6/9/30
 MAR 5/7/30
 JLI 1/28/31
 MAR 1/28/31
 MAR 1/28/31
 FEB 1/28/31
 MAR 1/28/31
 FEB 1/28/31
 MAR 1/28/31
 G. H. Copied Date
 G. H. Checked Date
 PERIOD YEAR

COMPTON CREEK
ROSECRANS AVE.
STORM OF MARCH 14-15-16
1930



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 37

Monthly discharge of Compton

~~River~~
Creek

at ~~near~~ Rosecrans Avenue, Compton for the year ending Sept. 30, 1930

(Drainage area 21.74 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	.98	0	.40			24.40	
November	.89	.02	.48			28.78	
December	.80	.0	.15			9.58	
January	144.0	0	17.32			1064.90	
February	19.2	.19	1.82			101.32	
March	148.5	.20	13.36			821.33	
April	15.20	.23	1.53			90.88	
May	60.02	.21	4.17			256.28	
June	1.16	.06	.40			23.54	
July	1.57	0	.52			31.28	
August	1.90	0	.40			24.89	
September	1.75	0	.75			44.69	
The year period						2521.87	

NOTE:

CURSON CANYON - HOLLYWOOD

Location

In Curson Canyon about 200 feet above end of Curson Avenue.

Drainage Area

.07 square miles.

Installed by

Los Angeles County Flood Control District.
Feb. 14, 1928.

Gage

Stevens type L, 8 day recorder installed in shelter house on top of corrugated iron stilling well.

Records Available

Feb. 14, 1928 to Sept. 30, 1930.

Discharge measurements

Can be made by wading.

Channel and control

Channel in decomposed granite. Weir control.

Extremes of Discharge

No flow since recorder located.

Diversion

None.

Regulations

None.

Cooperation

Located, constructed and operated by
L.A.C.F.C.D.

DUME CREEK (ZUMA) AT ROOSEVELT

HIGHWAY BRIDGE

LOCATION	On Roosevelt Highway Bridge, near Dume Point about 1/4 mile from Pacific Ocean
DRAINAGE AREA	8.76 square miles.
INSTALLED BY	Los Angeles County Flood Control District
RECORDS AVAILABLE	January 15, 1930 to September 30, 1930.
GAGE	Au continuous water stage recorder installed in house on top of galvanized iron pipe stilling well on south side of bridge.
DISCHARGE MEASUREMENTS	High flows from bridge. Low flows by wading.
CHANNEL AND CONTROL	Sand and gravel. No control.
EXTREMES OF DISCHARGE	Maximum 1929-1930 426.0 c.f.s. on Jan.15,1930 Minimum 1929-1930 Dry most of year.
DIVERSIONS	None
REGULATIONS	None
ACCURACY	Fair
COOPERATION	Located, installed, and operated by the Los Angeles County Flood Control District

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

File No. 53

Discharge measurements of Dume Creek

Dume Creek

at Roosevelt Highway, Bridge during the year ending September 30, 19 30-31

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	rating	Method	Coef.	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.		Ft. per sec.	Feet								
	1931														
	2/4	Hardgrove-Ayres	36.	21.75	2.5	2.63	54.2			.6		8		1/2	FC
	2/4	"	49	45.85	3.03	2.78	139.1			.6		13		.045/12	"
	4/26	"	24	13.14	1.70	2.29	22.31			.6		12		.021/6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 53

Rating table for Dume Creek at Roosevelt Highway

Bridge, from Jan. 15, 1930, to Sept. 30, 1930

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			1.00	.90	.044	2.00	12.50		3.00	253				
.05			.05	1.12		.05	13.75		.05	280				
.10			.10	1.34		.10	15.00	.40	.10	307				
.15			.15	1.56		.15	17.00		.15	354				
.20	0		.20	1.78		.20	19.00		.20	361				
.25	.01	.002	.25	2.00		.25	21.00		.25	388				
.30	.02		.30	2.40	.08	.30	23.00		.30	415				
.35	.03		.35	2.80		.35	26.00	.60	.35	442				
.40	.04		.40	3.20		.40	29.00		.40	469				
.45	.05		.45	3.60		.45	32.00							
.50	.06		.50	4.00		.50	35.00	1.20						
.55	.08	.004	.55	4.60	.12	.55	41.00							
.60	.10	.02	.60	5.20		.60	47.00	3.40						
.65	.20		.65	5.80		.65	64.00	5.40						
.70	.30		.70	6.40		.70	91.0							
.75	.40		.75	7.00	.20	.75	118.0							
.80	.50		.80	8.00		.80	145.							
.85	.60		.85	9.00		.85	172.							
.90	.70		.90	10.00		.90	199.							
.95	.80		.95	11.25	.25	.95	226.							

The above table is not applicable for obstructed channel conditions. It is based on 3 discharge measurements made during year 1930-931

and is fairly well defined between 22 second-feet and 139 second-feet.

No measurements made 1929-1930

Computed by Van der Goot

Checked by W.R.

Date Sept. 29, 1931

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of

Dune

Creek

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 53

At Roosevelt Highway Bridge

for the Year Ending September 30, 1930

Drainage Area 8.76 Square Miles.

Hardgrove

Observer

Gage Read to continuous

Used rating table dated

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												1	
2													2												2	
3													3				.01								3	
4													4				.01								4	
5													5												5	
6													6												6	
7													7												7	
8								DRY					8												8	
9													9												9	
10													10												10	
11													11												11	
12													12												12	
13													13												13	
14	DRY		DRY		DRY					DRY		.02	14												14	
15						H	99.6				H	.01	15												15	
16						H	9.8				H	.01	16												16	
17													17												17	
18													18	DRY		DRY		DRY		DRY		DRY		DRY	18	
19													19												19	
20													20												20	
21													21												21	
22								DRY					22												22	
23													23												23	
24													24												24	
25													25												25	
26													26												26	
27													27												27	
28												DRY	28												28	
29													29												29	
30													30												30	
31													31												31	
TOTAL,							109.4					.04					.02									
Mean Daily Discharge in Second-foot																										
Second-foot per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet	0		0		0		216.94			0		0.79			0		0.40			0		0		0	216.13	
Maximum Mean Daily Discharge in Second-foot							99.6					.02					.01									
Minimum Mean Daily Discharge in Second-foot							0					0					0									

Maximum stage 426.0 on Jan. 15, 1930 on 3 p.m. on 3.32 feet at Dry most of year

Hardgrove
Computed
Checked
Date
Disch. applied
Disch. checked
Date
G. H. Copied
G. H. checked
Date
PERIOD
YEAR

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 53

Monthly discharge of

Dume

~~Howe~~
 Creek

at ~~near~~ Roosevelt Highway Bridge for the year ending Sept. 30, 1930

(Drainage area 8.76 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches in drainage area	Total in acre feet	
October.....							
November.....							
December.....	Recorder installed January 15, 1930						
January.....	99.6	0				216.94	
February.....							Dry
March.....	.02	0				.79	
April.....							Dry
May.....	.01	0				.40	
June.....							Dry
July.....							"
August.....							"
September.....							"
The year period						218.13	

NOTE:

LITTLE SANTA ANITA CREEK 1/4 MILE BELOW
FLOOD CONTROL DAM

Location

Near Mouth of Little Santa Anita Canyon, otherwise known as Sierra Madre, approximately 1 mile northeast of Sierra Madre, Los Angeles County, Calif.

Drainage Area

2.49 square miles.

Installed by

Los Angeles County Flood Control District
January 28, 1929.

Records Available

January 28, 1929 to Sept. 30, 1930 at
L.A.C.F.C.D. U.S.G.S. records of flow
at U.S.G.S. station above dam from July 31,
1916 to date.

Gage

Stevens L type 8 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 feet 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 2.45 c.f.s. March 15, 1930.
Minimum - dry at various times during year.

Diversions

Water diverted above Flood Control Dam by Sierra Madre Water Department.

Little Santa Anita Creek 1/4 mile
below Flood Control Dam - Page 2

Regulation

Flow regulated by construction of Los Angeles County Flood Control Dam 1/4 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.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 67

Discharge measurements of Little Santa Anita

River
Creek

1/4 mile

Below Flood Control Dam, during the year ending September 30, 1930

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	rating	Method	Coef.	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.		Ft. per sec.	Feet								
	1929														
1	3-15	Roger F. Dalton	4.0	1.10	1.67	.50	1.84		.6			9		1/6	25
2	3-14	"	4.0	1.04	1.88	.52	1.95		.6			4		1/18	25
3	3-14	"	4.5	1.34	1.92	.52	2.47		.6			8		1/6	25
4	3-14	"	7.8	1.36	1.57	.50	1.86		.6			8		1/6	25
5	3-14	"	7.8	1.22	1.30	.48	1.58		.6			8		1/6	25
6	3-15	"	4.2	.84	1.15	.46	.99		.6			8		1/6	25
7	3-15	"	8.4	1.84	2.05	.53	3.77		.6			9		1/6	25
8	3-16	"	4.0	.98	1.24	.37	1.1		.6			8		1/6	25
9	3-16	"	7.0	.82	1.02	.37	.84		.6			7		1/18	25
10	3-19	"	.8	.12	.50	.19	.06		.6			1			25
11	3-21	Lindsay	.8	.1	1.00	.19	.10		.6			2		1/18	25

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 67

Rating table for Little Santa Anita Creek - 1/4 mile below

3:50pm

Flood Control Dam, from January 15, 1930, to May 5, 1930

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.
.15	.00		.35	.58		.75								
.16	.01	.01	.36	.64	.06	.80								
.17	.02	.01	.37	.70	.06	.85								
.18	.03	.02	.38	.76	.06	.90								
.19	.05	.02	.39	.82	.06	.95								
.20	.07	.02	.40	.88	.07	1.00								
.21	.09	.02	.41	.95	.07									
.22	.11	.02	.42	1.02	.08									
.23	.13	.02	.43	1.10	.09									
.24	.15	.03	.44	1.19	.09									
.25	.18	.03	.45	1.28	.09									
.26	.21	.03	.46	1.37	.10									
.27	.24	.03	.47	1.47	.12									
.28	.27	.04	.48	1.59	.12									
.29	.31	.04	.49	1.71	.14									
.30	.35	.04	.50	1.85	.196									
.31	.39	.04	.55	2.83	.37									
.32	.43	.05	.60	4.63	.734									
.33	.48	.05	.65	8.35										
.34	.53	.05	.70											

The above table is not applicable for obstructed channel conditions. It is based on 11 discharge measurements made during

and is well defined between .10 second-feet and 3.27 second-feet.

Computed by R. Lindsay
Checked by Fred Bertelsen
Date 7/21/30 3/3/31

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of Little Santa Anita ~~River~~ Creek
1/4 mile
Below Flood Control Dam for the Year Ending September 30, 1930

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 67

Drainage Area 2.49 Square Miles. [R. Lindsay Observer.]

Gage Read to Continuous

Used rating table dated 1-15-30 to 5-5-30

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												1	
2													2												2	
3													3												3	
4													4												4	
5													5												5	
6													6												6	
7													7												7	
8													8												8	
9													9												9	
10													10												10	
11													11												11	
12													12												12	
13													13												13	
14													14												14	
15								H	.61				15												15	
16								H	.03				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	

Maximum stage 53 feet at 8:30 AM on 3-15-30
 Minimum stage 0.15 feet at 3:15 PM on 3-15-30

Quarter First Second Third Fourth
 G. H. Copied F.L.
 G. H. checked Fred. Bertelsen
 Date 3/3/31
 Computed R.L.
 Checked Fred. Bertelsen
 Date 3/3/31

TOTAL,	DRY	DRY	DRY	.64	DRY	3.67	DRY	DRY	DRY	DRY	DRY	DRY	4.31
Mean Daily Discharge in Second-foot													
Second-foot per square mile													
Run-off, depth in inches													
Run-off in acre-feet				1.27		7.27							0.74
Maximum Mean Daily Discharge in Second-foot				.48		1.67							
Minimum Mean Daily Discharge in Second-foot				.03		.01							

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 67

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

1/4 mile Below Flood Control Dam for the year ending Sept. 30, 1930

(Drainage area 2.49 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
November							"
December							"
January	.48	0	.02				1.27
February							Dry
March	1.67	0	.11				7.27
April							Dry
May							"
June							"
July							"
August							"
September							"
The year period							8.54

NOTE:

LITTLE TUJUNGA CREEK - FOOTHILL BLVD. BRIDGE

Location

On Little Tujunga Creek at Foothill Blvd. Bridge.

Drainage Area

21.0 square miles.

Installed by

Los Angeles County Flood Control District
December 26, 1928.

Records Available

December 26, 1928 to Sept. 30, 1930 at L.A.C.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 extreme 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.
No control.

Extremes of Discharge

No appreciable flow 1929-1930.

Diversions

None.

Regulation

None.

Accuracy

Probably will be only fair due to scouring during high flows.

Cooperation

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

LITTLE DALTON AT MOUTH OF CANYON

Location

About 500' above mouth of Little Dalton Cr.
approx. 2 and one-tenth miles northeast of
Glendora, Los Angeles County, Cal.

Drainage Area

3.28 square miles.

Installed by

Los Angeles County Flood Control District
January 28, 1929

Records Available

January 28, 1929 to September 30, 1930 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 28.0 c.f.s. on May 3, 1930.
Minimum - dry at various times during year.

Diversions

None above station.

Regulation

None.

Accuracy

Good.

Cooperation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 65

Rating table for Little Dalton Creek at Mouth of Canyon

, from Oct. 1, 1929, to Jan. 17, 1930

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		.20	2.63		0	0		.20	2.63				
.01	0					.01	0							
.02	0					.02	0							
.03	.02					.03	.02							
.04	.05					.04	.05							
.05	.08					.05	.08							
.06	.23	.15				.06	.13							
.07	.38					.07	.25							
.08	.53					.08	.40							
.09	.68					.09	.55							
.10	.83					.10	.70							
.11	.97					.11	.85							
.12	1.11					.12	1.02							
.13	1.25					.13	1.18							
.14	1.39					.14	1.37							
.15	1.53					.15	1.53							
.16	1.75					.16	1.75							
.17	1.97					.17	1.97							
.18	2.19					.18	2.19							
.19	2.41					.19	2.41							

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

Checked by

Date

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 65

Rating table for Little Dalton Creek At Mouth of Canyon

from Jan. 17, 1929, to March 21, 1930

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			.20	1.24										
.01			.21	1.37	.13									
.02			.22	1.50										
.03			.23	1.63										
.04			.24	1.76										
.05			.25	1.89										
.06			.26	2.05	.16									
.07	0		.27	2.21										
.08	.08		.28	2.37										
.09	.16		.29	2.53										
.10	.24		.30	2.69										
.11	.33		.31											
.12	.42		.32											
.13	.51													
.14	.60													
.15	.69													
.16	.80													
.17	.91													
.18	1.02													
.19	1.13													

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

Checked by

Date

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 65

Rating table for Little Dalton Creek at mouth of Canyon

, from March 21, 1930, to May 9, 1930

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	.00		.20	2.26										
.01	.03	.03	.21	2.64	.38									
.02	.06		.22	3.02										
.03	.09		.23	3.40										
.04	.12		.24	3.78										
.05	.15		.25	4.16										
.06	.20	.05	.26	4.54										
.07	.25		.27											
.08	.30													
.09	.38	.08												
.10	.46													
.11	.60	.14												
.12	.74													
.13	.88													
.14	1.02													
.15	1.16													
.16	1.38	.22												
.17	1.60													
.18	1.82													
.19	2.04													

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

Checked by

Date

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 65

Monthly discharge of Little Dalton ~~River~~ Creek

at Mouth of Canyon for the year ending Sept. 30, 1930

(Drainage area 3.28 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
November							"
December							"
January	.68	0	.03				1.77
February							
March	2.69	0	.67				41.47
April	.12	0	.04				2.62
May	4.54	0	.64				39.60
June							Dry
July							"
August							"
September							"
The year period							85.46

NOTE:

LIVE OAK CREEK NEAR MOUTH OF CANYON, ONE MILE
BELOW FLOOD CONTROL DAM.

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, Cal.

Drainage Area

2.57 square miles.

Installed by

Los Angeles County Flood Control District.
January 4, 1928.

Records available

January 4, 1928 to September 30, 1930.

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, bedrock near gage.

Small concrete control, with 24" crest cippoletti weir, 12" deep.

Extremes of Discharge

No flow 1928-1929 or 1929-1930.

Diversions

None above gage.

Regulation

Flow regulated by L.A.C.F.C.Dam

Accuracy

Will be good at low flows.

Cooperation

Located, constructed and operated by L.A.C.F.C.D.

in cooperation with the U.S.G.S. Water Resources Branch.

LOS ANGELES RIVER UNIVERSAL CITY

Location

On north bank of Los Angeles River about 300 feet east of the Lankershim Avenue bridge across the Los Angeles River near Universal City, Los Angeles County, Calif.

Drainage Area

408 square miles.

Installed by

Los Angeles County Flood Control District.
January 22, 1928.

Records Available

January 22, 1928 to Sept. 30, 1930 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 231 c.f.s. March 15, 1930.
Minimum 5.12 c.f.s. Feb. 23, 1930.

Diversions

None.

Regulation

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

Accuracy

Poor, due to lack of control.

Cooperation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No 7

Discharge measurements of **Los Angeles**

River
Channel

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

No.	Date	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gate height Feet	Discharge Sec.-ft.	Rating Method Coeff.	Meas. secs.	G. Ht. change	Time Hours	Meter No.
	1929											271
1	10-4	C. E. Bollinger	16.5	15.81	1.31	6.10	20.65	.6	11	0	1/4	650
1A	10-11	"	16.5	15.12	1.43	6.08	21.63	.6	11	0	"	"
2	10-18	J. W. Luce	18.0	14.91	1.25	6.00	18.69	.6	11	01	1/2	"
2A	10-25	"	9.5	3.69	1.26	5.23	4.65	.6	10	0	"	8282 960
3	11-1	"	9.5	3.64	1.13	5.21	4.12	.6	10	0	"	"
4	11-8	"	9.3	3.86	1.21	5.09	4.66	.6	10	0	"	"
5	11-15	Bollinger-Luce	9.2	4.22	1.24	5.20	5.23	.6	10	0	"	271 650
6	11-22	"	9.0	3.72	1.16	5.08	4.31	.6	9	0	1/4	FC24
7	11-29	J. W. Luce	9.6	4.28	1.26	5.16	5.40	.6	10	0	1/2	"
8	12-6	C. E. Bollinger	9.9	4.40	1.15	5.10	5.07	.6	7	0	1/4	271 650
9	12-13	J. W. Luce	9.5	4.10	1.16	5.21	4.76	.6	10	0	1/2	FC24
10	12-20	C. E. Bollinger	9.4	4.00	1.24	5.22	4.95	.6	9	0	1/4	271 650
11	12-27	J. W. Luce	9.5	3.92	1.21	5.21	4.75	.6	10	0	1/3	FC24
12	1-3	C. E. Bollinger	9.7	4.45	1.12	5.21	4.98	.6	7	0	1/4	271 650
13	1-10	Bollinger-Gilmore	8.0	6.83	2.04	5.58	13.90	.6	8	0	"	"
14	1-5	C. E. Bollinger	17.5	15.3	1.73	6.00	26.5	.6	7	0	1/3	"
15	1-17	"	9.1	5.52	1.41	5.64	7.79	.6	5	0	1/2	"
16	1-24	"	5.4	5.41	1.19	5.46	6.42	.6	6	0	1/4	"
17	1-31	"	7.5	5.49	1.12	5.38	6.16	.6	6	0	"	"
18	2-7	"	8.3	5.56	1.19	5.28	6.59	.6	6	0	"	"
19	2-14	"	7.5	5.23	1.10	5.38	5.77	.6	6	0	"	"
20	2-23	"	6.7	4.64	0.91	5.40	4.23	.6	6	0	"	"
21	3-1	"	5.7	4.8	1.33	5.40	6.40	.6	6	0	"	"
22	3-7	"	8.5	5.84	0.94	5.38	5.48	.6	6	0	"	"
23	3-14	"	7.6	5.38	1.36	5.44	7.32	.6	6	0	"	"
24	3-14	Bollinger Bergman	28.7	75.7	2.43	7.55	183.9	.6	8	14	1/4	"
25	3-14	"	13.0	15.4	1.84	6.07	28.34	.6	8	04	1/6	"
26	3-14	"	11.0	13.75	1.61	5.96	22.20	.6	6	18	1/4	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 7

Discharge measurements of **Los Angeles**

River
Creek

at **Universal City**, during the year ending September 30, 19 **30**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Method	Coeff.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				Percent diff.	No.	
1930													
27	3-22	G. E. Bollinger	20.0	30.1	2.23	6.54	67.2			10 0		1/2	271 650
28	3-28	"	19.0	22.2	1.84	6.22	40.8			11 0		"	"
29	4-9	"	7.2	6.28	1.35	5.75	8.46			6 0		1/4	"
30	4-11	"	18.0	17.0	1.67	5.94	28.3			9 0		1/2	"
31	4-18	"	12.8	19.48	1.62	5.90	31.47			8 0		1/4	"
32	4-25	"	12.9	21.1	1.44	5.84	30.4			10 0		1/4	"
33	5-2	"	13.0	20.09	1.58	5.88	31.93			8 0		1/3	"
34	5-9	"	12.0	20.50	1.42	5.85	31.60			9 0		"	"
35	5-16	"	12.9	21.25	1.36	5.86	28.92			9 0		1/4	"
36	5-23	"	18.9	19.6	2.06	6.03	39.0			11 0		1/2	"
37	6-6	"	10.03	12.19	1.94	5.86	23.63			10 0		1/4	"
38	6-13	"	9.4	12.19	2.00	5.91	24.18			7 0		"	"
39	6-20	"	12.0	20.05	1.54	5.81	31.60			9 0		1/3	"
40	6-27	"	9.0	12.60	2.04	5.92	25.75			6 0		1/4	"
41	7-5	"	10.1	12.44	2.23	5.88	27.80			9 0		1/4	"
42	7-11	"	9.3	12.34	1.93	5.92	26.2			8 0		1/3	"
43	7-17	"	10.2	15.70	2.53	6.00	39.7			7 0		1/4	"
44	7-25	"	10.4	16.30	2.64	5.90	43.0			8 0		"	"
45	8-8	"	10.1	16.32	2.41	6.04	39.34			8 0		3/4	"
46	8-15	"	13.4	21.3	1.91	6.08	40.70			8 0		1/3	"
47	8-22	"	14.0	15.28	1.28	5.94	26.13			14 0		1/4	"
48	8-29	"	12.0	14.39	1.67	5.80	24.07			8 0		1/6	"
49	9-5	"	10.0	13.37	1.97	5.95	27.37			6 0		1/4	"
50	9-12	"	10.0	14.10	2.00	5.85	28.30			6 0		1/3	"
50A	9-19	"	6.1	4.66	1.03	-	4.79			6 -		-	"
51	9-26	"	6.0	5.87	1.54	-	9.08			5 -		1/6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 7

Rating table for L. A. River, Universal City

from Oct. 1, 1929 to Sept. 30, 1930

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.
5.00	2.20	.14	5.40	9.40	.28	5.80	22.2	.45	6.20	42.3	.65	7.20	137.7	1.32
.02	2.48		.42	9.96		.82	23.10		.25	45.7		.25	144.3	
.04	2.76		.44	10.52		.84	24.0		.30	49.1		.30	150.9	
.06	3.04		.46	11.08		.86	24.9		.35	52.5		.35	157.5	
.08	3.32		.48	11.64		.88	25.8		.40	55.9	.84	.40	164.1	
.10	3.60		.50	12.2		.90	26.7		.45	60.1		.45	170.7	
.12	3.88		.52	12.76		.92	27.6		.50	64.3		.50	177.3	
.14	4.16		.54	13.3		.94	28.5		.55	68.5		.55	183.9	
.16	4.44		.56	13.88		.96	29.4		.60	72.7	.96	.60	190.5	
.18	4.72		.58	14.44	.36	.98	30.3		.65	77.5		.65	197.1	
.20	5.00	.22	.60	15.		6.00	31.2	.55	.70	82.3		.70	203.7	
.22	5.44		.62	15.72		.02	32.31		.75	87.1		.75	210.3	
.24	5.88		.64	16.44		.04	33.42		.80	91.9		.80	216.9	
.26	6.32		.66	17.16		.06	34.53		.85	97.3		.85	223.5	
.28	6.76		.68	17.88		.08	35.64		.90	102.7		.90	230.1	
.30	7.20		.70	18.6		.10	36.75		.95	108.1		.95	236.7	
.32	7.64		.72	19.32		.12	37.86		7.00	113.5	1.21	8.00	243.3	
.34	8.08		.74	20.04		.14	38.97		.05	119.5				
.36	8.52		.76	20.76		.16	40.08		.10	125.6				
.38	8.96		.78	21.48		.18	41.19		.15	131.6				

The above table is not applicable for obstructed channel conditions. It is based on 51 discharge measurements made during Oct. 1, 1929 Sept. 30, 1930

and is fairly well defined between 4.12 second-feet and 184. second-feet.

Computed by W. T. K.

Checked by J. L. I.

Date 11/24/29

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of L. A. River

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

At Universal City for the Year Ending September 30, 1930

Drainage Area 408 Square Miles.

Bollinger [Observer.]

Gage Read to Continuous

Used rating table dated

second-feet.

Discharge 231.42

March 15

10 am on

feet at

7.91

Maximum stage

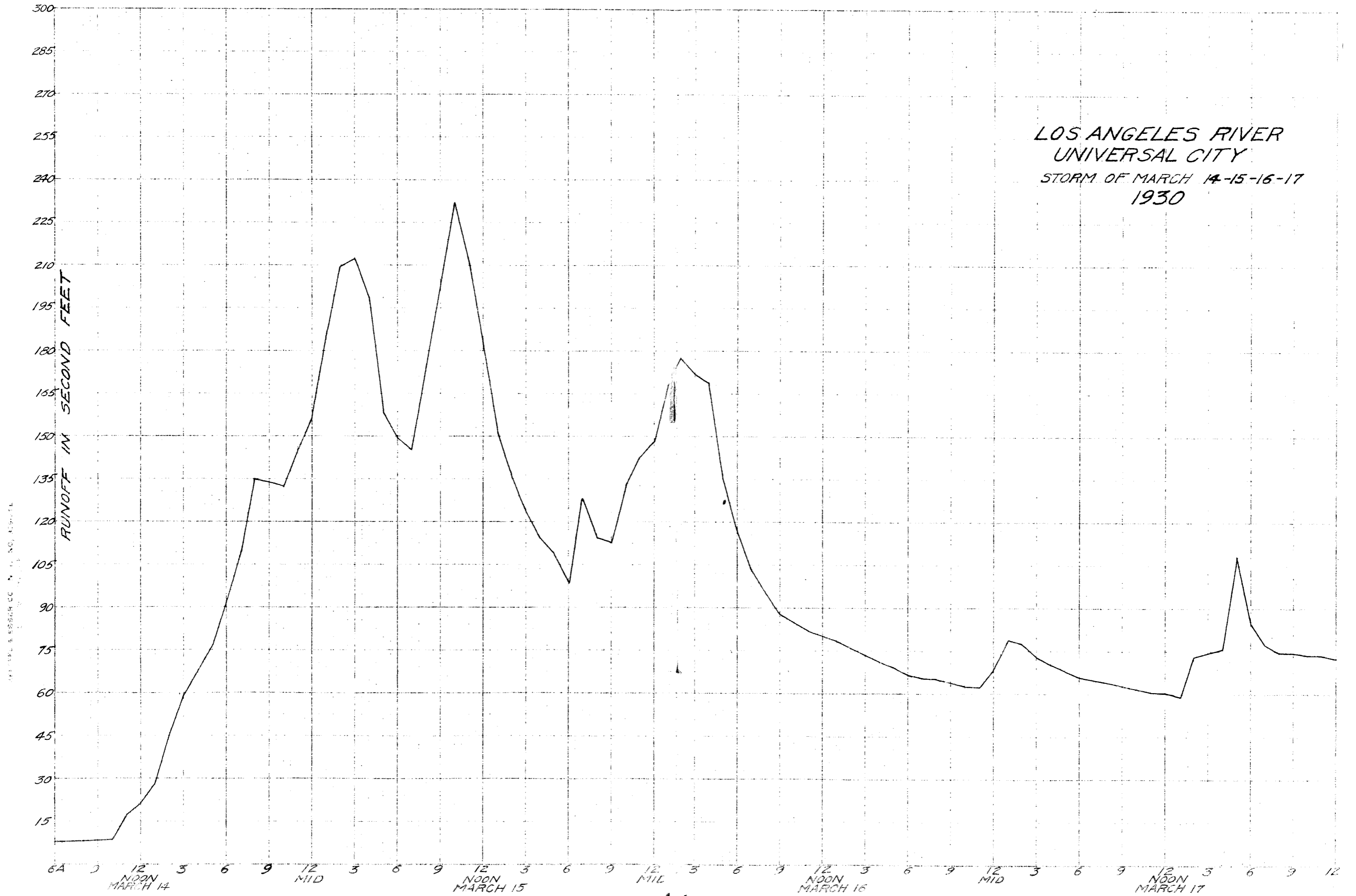
Minimum stage 5.12

Main data table with columns for months (OCTOBER to SEPTEMBER), Gage height, Discharge, and DAY (1-31). Includes a 'channel scoured below gage' note for days 17-26.

Vertical table for data verification with columns: DAY, Quarter, First, Second, Third, Fourth, Computed, Checked, Date. Includes names W.T.K. and J.I.

Summary table with rows for TOTAL, Mean Daily Discharge in Second-foot, Second-foot per square mile, Run-off, depth in inches, Run-off in acre-feet, Maximum Mean Daily Discharge in Second-foot, Minimum Mean Daily Discharge in Second-foot.

LOS ANGELES RIVER
UNIVERSAL CITY
STORM OF MARCH 14-15-16-17
1930



**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 7

Monthly discharge of Los Angeles

River
~~Creek~~

Universal City

at
~~near~~

for the year ending Sept. 30, 1930

(Drainage area 408 square miles)

MONTH	DISCHARGE IN SECONDS-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	140.63	6.98	20.29			1248.0	
November	8.96	5.44	6.76			402.25	
December	8.08	4.72	6.31			332.09	
January	101.01	4.30	13.92			556.32	
February	8.62	3.88	6.47			329.25	
March	157.64	5.66	39.71			2441.56	
April	33.97	9.12	27.24			1618.08	
May	41.19	24.45	30.89			1896.01	
June	37.30	23.10	28.87			1715.21	
July	51.82	27.15	38.56			2366.83	
August	45.02	26.25	34.65			2126.68	
September	32.86	9.00	20.95			1244.77	
The year period						16,663.05	

NOTE:

LOS ANGELES RIVER AT DAYTON AVENUE BRIDGE

Location

On west abutment of Dayton Avenue across
Los Angeles River.

Drainage Area

510.24 square miles.

Installed by

Los Angeles County Flood Control District
December 1929.

Records Available

December 1929 to September 30, 1930 L.A.C.F.C.D.

Gage

An continuous water stage recorder in shelter
house on top of corrugated iron stilling well
fastened to west abutment of bridge.

Discharge Measurements

High water measurements made from cable suspended
under bridge. Low water measurements by wading.

Channel and Control

Sand and silt. No control.

Extreme of Discharge

Maximum 500.0 c.f.s. on March 15, 1930.
Minimum Dry at various times of year.

Diversions

Regulations

None.

Accuracy

Fair.

Cooperation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 57

Discharge measurements of Los Angeles

River
Creek

at Dayton Ave. Bridge, during the year ending September 30, 1930.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Dis-charge	Method	Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.						
1929													
1	1-6	Bollinger	44.0	43.59	1.96	1.80	85.59		.6	8	.4	1/2	271 650
2	1-9	Roger Dalton	24.5	10.60	1.98		21.02		.6	9		1/2	271 650
3	1-9	Bollinger-Bergman	50.0	30.70	2.06	1.90	65.40		.6	9	.2	1/2	271 650
4	1-11	Bollinger	56.0	35.11	2.64	2.10	145.7		.6	10	.6	1/2	271 650
5	1-11	Bollinger-Bergman	52.0	40.81	2.12	2.13	97.56		.6	10	.15	1/2	271 650
6	1-11	" "	31.0	20.57	3.23	2.00	98.38		.6	9	.5	1/2	271 650
7	1-12	Bollinger	55.0	68.05	2.75	2.32	139.98		.6	11	.40	1/3	271 650
8	1-12	Bollinger-Kransen	36.0	82.15	3.72	2.80	205.9		.6	11	.40	1/3	271 650
9	1-13	Bollinger-Bergman	62.0	97.00	4.06	2.03	393.5		.6	12	.15	1/2	271 650
10	1-15	Bollinger-Bergman	13.8	5.97	1.71	1.62	10.20		.6	5		1/6	271 650
11	1-30	Bollinger-Bergman	20.3	17.19	2.52	1.60	48.36		.6	7		1/6	271 650
12	3-4	Bollinger-Bergman	28.5	30.00	3.55	1.94	106.00		.6	8		1/2	271 650
13	3-4	Bollinger-Bergman	26.5	27.30	3.43	1.93	93.60		.6	8		1/2	271 650
14	3-4	Bollinger-Bergman	26.5	28.14	2.99	1.82	66.33		.6	10		1/2	271 650
15	3-14	Bollinger-Bergman	57.5	37.46	4.00	2.20	348.25		.6	10		1/2	271 650
16	4-30	Bollinger-Bergman	14.5	9.32	1.56	1.49	18.26		.6	8		1/6	271 650
17	4-30	Bollinger	13.0	5.23	1.26	1.23	7.32		.6	6		1/6	271 650
18	4-30	Bollinger	12.5	5.12	1.19	1.30	6.12		.6	6		1/6	271 650
19	5-3	Bollinger-Seall	62.0	100.8	4.00	2.10	402.90		.6	12		1/2	271 650
20	5-3	Bollinger-Seall	65.0	132.5	3.36	3.13	445.79		.6	10		2/3	271 650
21	5-16	Bollinger	5.2	.26	.71	1.37	.31		.6	6		1/12	271 650
22	7-5	Bollinger				1.25	.04						+
23	7-11	Bollinger				1.29	.07						+
24	7-18	Bollinger				1.50	.05						+
25	9-4	Lindsay-Van der Goot	3.0	.27	.59	1.27	.15		.6	3		1/12	271 650

+ NOTCH TYPE WEIR USED

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 57

Rating table for Los Angeles River- Dayton Ave. Bridge

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

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.
1.23	00		1.95	86.		2.95	360							
.24	.02		2.00	94.0	1.6	3.00	382	4.4						
.25	.04		.05	102.5	1.7	.10	427	4.5						
.26	1.0		.10	112.0	1.9	.20	473	4.5						
.27	2.0		.15	121.5	1.9	.30	518	4.5						
.28	3.0		.20	131.5	2.0	.40	563	4.5						
.29	4.0		.25	142.0	2.1	.50	608	4.5						
.30	5.0		.30	152.5	2.1	.60	653	4.5						
.35	10.0	1.0	.35	164.0	2.3	.70	698	4.5						
.40	15.0	1.0	.40	176.5	2.4	.80	743	4.5						
.45	20.5	1.1	.45	189.5	2.6	.90	788	4.5						
.50	26.0	1.1	.50	203.5	2.8	4.00	833	4.5						
.55	31.5	1.1	.55	217.5	2.8									
.60	37.5	1.2	.60	232.5	3.0									
.65	43.5	1.2	.65	248.0	3.1									
.70	50.0	1.3	.70	264.5	3.3									
.75	56.5	1.3	.75	281.5	3.4									
.80	63.5	1.4	.80	299.5	3.6									
.85	70.5	1.4	.85	318.5	3.8									
.90	78.0	1.5	.90	338.5	4.0									
		1.6			4.3									

The above table is not applicable for obstructed channel conditions. It is based on 25 discharge measurements made during

and is well defined between .05 second-feet and 445 second feet.

Computed by R. Lindsay
 Checked by C. E. Rollinger
 Date 12/17/30

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 57

Monthly discharge of Los Angeles River

at Dayton Ave. Bridge

for the year ending Sept. 30, 19 33

(Drainage area 510 square miles)

MONTH	DISCHARGE IN SECOND-FEET				RANGE		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches for drainage area	Total in acre feet	
October						DRY	
November						"	
December						"	
January	85.25	0	4.99			306.69	
February	1.45	0	.52			2.68	
March	311.55	0	19.97			1228.00	
April	.08	0	0			.16	
May	9.18	0	1.81			111.18	
June	.11	0	.07			4.07	
July	.07	0	.04			2.44	
August						DRY	
September						"	
The year period						1655.42	

NOTE:

LOS ANGELES RIVER-STEWART & GRAY ROAD BRIDGE

Location

On highway bridge over Los Angeles River at Stewart and Gray Road, about 3 miles west of Downey, Los Angeles County, California. About 1/2 mile above junction with the Rio Hondo river.

Drainage Area

613.76 square miles.

Installed by

State Division of Water Rights of California 1923

Reestablished by

Los Angeles County Flood Control District Ver. 1, 1928

Records Available

For previous records see Bulletin #5, State of Calif. Division of Water Rights, San Gabriel Investigation March 1, 1928 to Sept. 30, 1930 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 water measurements 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 2213 c.f.s. March 15, 1930.
Minimum Dry at various times during year.

Diversions

None.

Regulation

None.

Accuracy

Fair.

Cooperation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Discharge measurements of

Los Angeles

River
~~_____~~

at
NRK

Stewart and Gray Road Bridge

during the year ending September 30, 19 30

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	No. of sec.	G. H. channel	Total	Units	Met.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent alt.							
1929															
1	10-4	L. W. Jordan	7.4	1.73	1.23	2.25	2.13		.6		8	01	1/6	636	271
2	10-11	"	7.2	2.58	1.13	2.27	2.92		.6		7	0	"	"	"
3	10-18	"	8.2	2.59	1.22	2.28	3.16		.6		8	0	1/4	"	"
4	10-25	"	8.6	2.47	1.02	2.26	2.52		.6		9	0	"	"	282
5	11-1	"	9.3	2.43	.93	2.25	2.25		.6		9	0	"	"	962
6	11-8	"	6.7	2.87	1.10	2.28	3.15		.6		7	0	"	"	"
7	11-15	"	7.0	2.38	1.31	2.29	3.11		.6		8	0	"	"	"
8	11-22	"	9.3	3.15	.76	2.30	2.39		.6		9	0	"	"	"
9	11-29	C. E. Bollinger	11.9	3.17	.82	2.32	2.59		.6		7	0	"	"	271
10	12-6	L. W. Jordan	9.2	2.72	.96	2.30	2.62		.6		10	0	"	"	282
11	12-13	Jordan Fenwick	5.7	2.01	1.35	2.27	2.72		.6		6	0	"	"	962
12	12-20	L. W. Jordan	6.0	1.70	1.28	2.31	2.18		.6		6	0	"	"	"
1930															
13	1-4	"	6.6	2.34	1.18	2.29	2.77		.6		7	0	"	"	"
14	1-7	"	34.0	13.0	2.09	2.49	27.2		.6		11	0	"	"	"
15	1-9	"	40.8	211.03	3.82	3.37	805.4		.6		18	23	1 1/2	"	"
16	1-10	"	79.0	45.1	3.33	2.54	150.4		.6		24	02	1/2	"	"
17	1-17	"	18.8	5.06	.95	2.27	4.81		.6		9	0	1/3	"	"
18	1-24	"	5.0	2.15	1.09	2.17	2.34		.6		5	0	1/4	"	"
19	2-7	"	16.3	5.35	1.37	2.21	7.33		.6		9	0	"	"	"
20	2-14	"	5.3	2.33	1.15	2.20	2.68		.6		6	0	1/6	"	"
21	2-21	"	6.8	3.63	1.66	2.23	6.04		.6		7	0	"	"	"
22	2-28	"	6.0	1.54	1.06	2.07	1.63		.6		6	0	"	"	"
23	3-7	"	16.5	3.75	1.14	2.15	4.28		.6		11	0	"	"	"
24	3-14	"	148.0	286.0	5.66	3.97	1620.0		.6		13	.30	1-2/3	"	"
25	3-21	"	19.2	5.85	1.28	2.29	7.48		.6		11	0	1/6	"	"
26	3-28	"	8.5	3.45	1.06	2.29	3.65		.6		8	0	"	"	"
27	4-4	"	6.0	2.50	1.11	2.22	2.77		.6		6	02	1/4	"	"
28	4-18	"	15.0	4.44	.93	2.32	4.14		.6		11	01	"	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Discharge measurements of **Los Angeles**

River
~~Creek~~

at **Stewart and Gray Road Bridge** during the year ending September 30, 19 **30**

at
DCBR

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	Method	Coef.	Meas. sec.	G. H. change		Time	Meter No.
			Feet	Sq. ft.		Feet	Sec-ft.					Av.	Total		
29	4-25	L. W. Jordan	11.0	3.39	1.10	2.32	3.73			.6		11 0	1/4		967
30	5-2	"	19.0	7.17	1.36	2.44	9.76			.6		13 0	1/6		"
31	5-9	"	9.0	2.95	1.15	2.22	3.41			.6		9 01	1/4		"
32	5-16	"	6.8	2.53	.92	2.19	2.32			.6		7 0	1/6		"
33	6-6	"	7.7	3.54	.88	2.22	3.11			.6		8 0	"		"
34	6-13	"	5.8	2.45	1.08	2.22	2.64			.6		6 0	"		"
35	6-20	"	11.0	4.70	.78	2.24	3.65			.6		11 0	1/4		"
36	6-27	"	6.8	2.57	1.04	2.20	2.68			.6		7 0	"		"
37	7-11	"	11.5	3.41	.92	2.21	3.13			.6		11 0	"		"
38	7-18	"	7.5	3.43	1.28	2.22	4.40			.6		7 0	"		"
39	8-1	"	7.0	2.10	1.00	2.23	2.09			.6		7 0	"		"
40	8-8	"	13.0	3.72	.92	2.24	3.44			.6		11 0	"		"
41	8-15	"	13.0	3.36	.96	2.25	3.21			.6		10 0	"		"
42	8-22	"	11.0	2.80	.80	2.22	2.23			.6		8 0	"		"
43	9-5	"	7.9	3.10	.99	2.25	3.08			.6		8 02	1/6		"
44	9-12	"	15.5	4.90	.94	2.30	4.59			.6		15 01	1/4		"
45	9-26	"	16.5	3.29	.93	2.30	3.07			.6		12 02	"		"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

High Stage

File No. 34

Rating table for Los Angeles River - Stewart and Gray Road Bridge

from Oct. 1, 1929, to April 1, 1930

Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.
			2.70	142.0	12	3.10	480.0	22.0	3.50	980.5	27.1	3.90	1522	27.1
			.72	154.0	13	.12	502.0		.52	1008		.92	1549	
			.74	167.	14	.14	524		.54	1035		.94	1576	
2.36	5.97		.76	181.	14	.16	547	23.0	.56	1062		.96	1603	
.38	7.30	1.33	.78	195.0	14	.18	570.		.58	1089		.98	1630	
.40	8.82	1.52	.80	210	15	.20	594	24.0	.60	1116		4.00	1657	
.42	15.50	6.68	.82	225	15	.22	618		.62	1143		.02	1685	
.44	22.5	7.0	.84	241	16	.24	642.5	24.5	.64	1170		.04	1712	
.46	30.0	7.5	.86	257.	16	.26	667.		.66	1197		.06	1739	
.48	38.0	8.0	.88	273.	16	.28	692.	25.0	.68	1224		.08	1766	
.50	46.0	8.0	.90	290	17	.30	717		.70	1251		.10	1793	
.52	54.0	8.0	.92	307.2	17.2	.32	742.	25.0	.72	1278		.12	1820	
.54	62.0	8.0	.94	324.4		.34	767.0		.74	1305		.14	1847	
.56	71.0	9.0	.96	342.7	18.3	.36	792.5	25.5	.76	1333		.16	1874	
.58	80.0	9.0	.98	361.0	19.0	.38	818.0		.78	1360		.18	1901	
.60	89.0	9.0	3.00	380.		.40	845.1	27.1	.80	1387		.20	1928	
.62	99.0	10.0	.02	399.	20.0	.42	872.2		.82	1414		.22	1955	
.64	109.	10.0	.04	419		.44	899.2		.84	1441		.24	1982.4	
.66	120.	11.0	.06	439		.46	926.3		.86	1468		.26	2009	extended beyond here math.-
.68	131.	11.0	.08	459.5	20.5	.48	953.4		.88	1495		.28	2037	
												.30	2064	

The above table is not applicable for obstructed channel conditions. It is based on 26 discharge measurements made during Oct. 1, 1929 to April 1, 1930

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

Computed by M. Rupert

Checked by JWL 5/10/30

Date May 7, 1930

2.36 to 2.90 - LWJ

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Low Stage

File No. 34

Rating table for Los Angeles River - Stewart and Gray Road Bridge

from Oct. 1, 1929, to April 1, 1930

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	0.00	.02	2.30	3.00	.40									
.11	.02		.31	3.40										
.12	.04	.04	.32	3.80	.50									
.13	.08		.33	4.30										
.14	.12	.07	.34	4.80	.58									
.15	.19		.35	5.39										
.16	.27	.10	.36	5.97	.66									
.17	.37		.37	6.63										
.18	.47	.13	.38	7.30	.76									
.19	.60		.39	8.06										
.20	.73	.16	.40	8.82										
.21	.89													
.22	1.04	.19												
.23	1.23													
.24	1.41													
.25	1.63	.22												
.26	1.85	.26												
.27	2.11													
.28	2.37													
.29	2.68	.31												

The above table is not applicable for obstructed channel conditions. It is based on 26 discharge measurements made during

and is Not well defined between 1.0 second-feet and 8.0 second-feet.

Computed by M. Rupert
Checked by JWL 5/12/30
Date May 7, 1930

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

River Creek

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

File No. 34

At Stewart and Gray Road Bridge for the Year Ending September 30, 1930

Drainage Area 613.76 Square Miles.

Jordan [Observer.]

Gage Read to continuous

Used rating table dated May 7, 1930

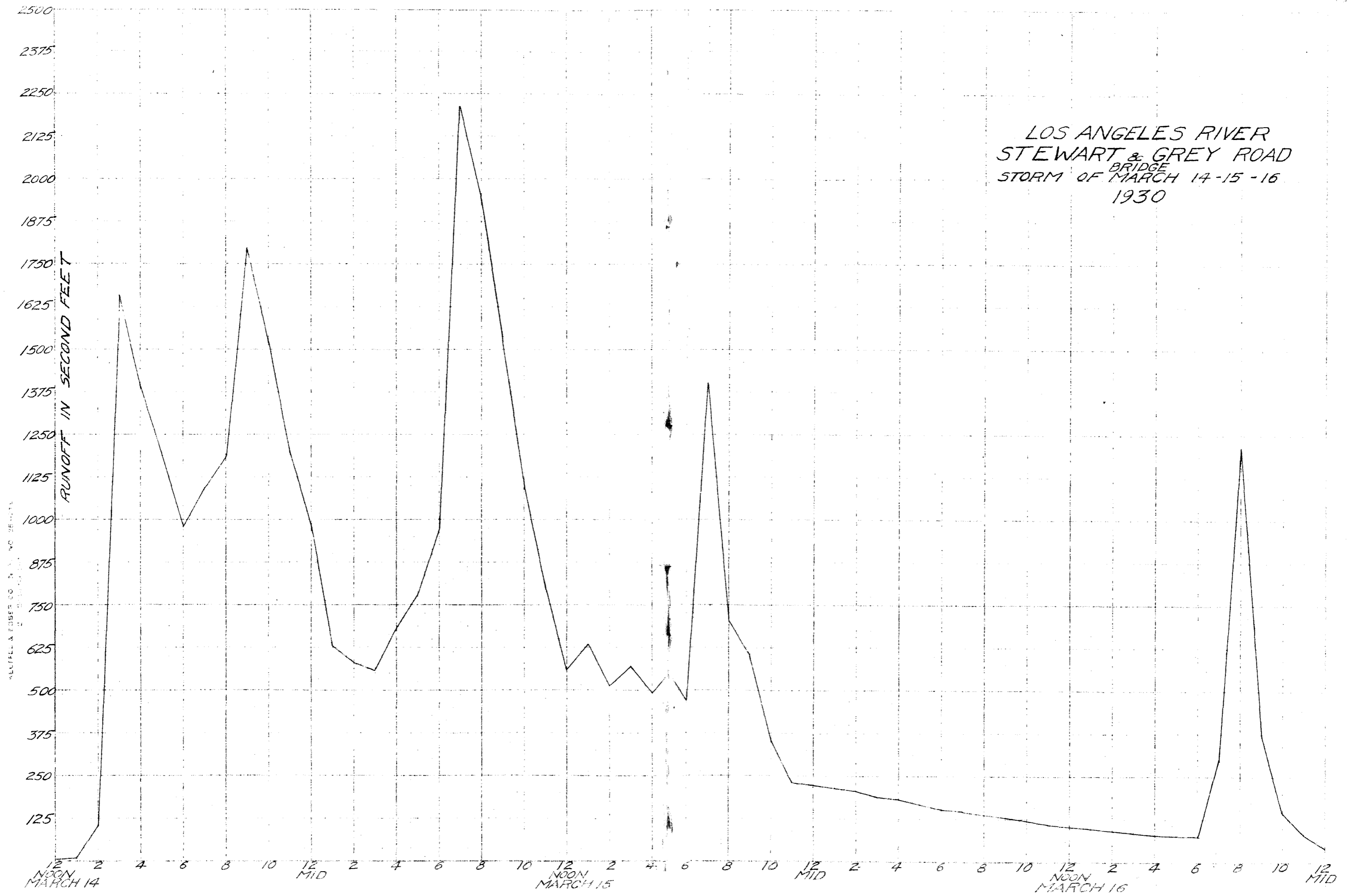
Vertical text on the left side: Maximum stage, Minimum stage, 4.41, 7 am on, 4 arch 15, Discharge, 2213, second-foot, second-foot, year, times during, various on, try, feet at, feet at

Main data table with columns for months (OCTOBER to SEPTEMBER) and days (1-31). Each day entry includes Gage height and Discharge values.

Summary table with rows for TOTAL, Mean Daily Discharge in Second-feet, Second-feet per square mile, Run-off, depth in inches, Run-off in acre-feet, Maximum Mean Daily Discharge in Second-feet, Minimum Mean Daily Discharge in Second-feet, and PERIOD YEAR.

Vertical text on the right side: DAY, Quarter, First, Second, Third, Fourth, Computed, Checked, Date, 5/12/30, 5/21/31, JLI, MAR, WFF, G. H. Copied, G. H. checked, PERIOD YEAR

LOS ANGELES RIVER
STEWART & GREY ROAD
BRIDGE
STORM OF MARCH 14-15-16
1930



**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 34

Monthly discharge of Los Angeles

River
~~Creek~~

at Stewart and Gray Road Bridge
~~XXX~~

for the year ending Sept. 30, 19 30

(Drainage area 613.76 square miles)

MONTH	DISCHARGE IN SECONDS FEET				RECORD		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	5.39	1.63	2.97			182.72	
November	7.30	1.41	2.97			182.62	
December	3.80	1.23	2.48			157.81	
January	64.50	0	64.50			3255.79	
February	46.80	.47	5.10			2637.09	
March	812.7	.47	55.58			2717.43	
April	5.06	.47	3.77			231.31	
May	161.83	.89	9.46			581.51	
June	4.32	.47	2.99			177.80	
July	5.97	1.04	3.40			209.35	
August	4.30	1.23	2.64			162.19	
September	4.80	1.23	3.17			188.47	
The year period						9727.49	

NOTE:

LOS ANGELES RIVER AT VAN NUYS BLVD. BRIDGE

Location

On downstream side of highway bridge crossing Los Angeles River at Van Nuys Blvd.

Drainage Area

157.06 square miles.

Installed by

Los Angeles County Flood Control District
Dec. 19, 1928.

Records Available.

Dec. 19, 1928 to Sept. 30, 1930 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 389 c.f.s. March 15, 1930.

Minimum 0 c.f.s. Sept. 19, 1930 and Sept. 20, 1930.

Diversions

None above gage.

Regulation

None.

Accuracy

Good.

Cooperation

Constructed and operated by the L.A.C.F.C.D. in cooperation with the U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Discharge measurements of Los Angeles

River
Channel

at Van Nuys Blvd. Bridge during the year ending September 30, 1930

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	Rating	Method	Cont.	No. of gages	G. H. change	Time	Mean discharge
			Feet	Sq. ft.		Feet	Sec.-ft.								
1929															
1	10-4	C. E. Bollinger	3.2	0.67	0.57	2.12	0.38			.6		6	0	1/4	271 650
2	10-11	"	2.5	0.35	0.69	2.10	0.24			.6		4	0	1/6	"
3	10-18	J. W. Luce	3.1	0.57	0.55	2.10	0.32			.6		6	0	1/4	"
4	10-21	"	2.8	0.58	0.52	2.10	0.30			.6		6	01	"	"
5	10-25	"	3.0	0.52	0.54	2.09	0.28			.6		7	0	"	282 960
6	11-1	J. W. Luce, ^{or} Bollinger	2.9	0.45	0.59	2.08	0.30			.6		7	0	"	FC24
7	11-8	Luce	3.0	0.60	0.62	2.12	0.37			.6		6	0	"	"
8	11-15	Luce-Bollinger	3.1	0.73	0.59	2.15	0.43			.6		6	0	"	271 650
9	11-22	"	3.1	0.61	0.52	2.12	0.31			.6		6	0	1/6	FC24
10	11-29	J. W. Luce	3.2	0.59	0.56	2.10	0.33			.6		6	0	1/4	"
11	12-16	C. E. Bollinger	2.4	0.35	0.80	2.08	0.28			.6		4	0	1/6	271 650
12	12-13	J. W. Luce	3.1	0.57	0.56	2.09	0.32			.6		6	0	1/4	FC24
13	12-20	C. E. Bollinger	2.5	0.35	0.74	2.10	0.25			.6		4	0	1/6	271 650
14	12-27	J. W. Luce	3.2	0.88	0.49	2.18	0.41			.6		6	0	1/4	FC24
15	1-3 ¹⁹³⁰	C. E. Bollinger	2.4	0.35	0.77	2.13	0.27			.6		4	0	1/6	271 650
16	1-10	"	4.0	2.18	1.22	2.50	2.65			.6		6	0	"	"
16A	1-10	"	3.1	1.82	0.55	2.54	1.00			.6		4	08	1/4	"
17	1-11	Bollinger-Bergman	26.0	38.62	0.96	4.75	37.13			.6		8	10	5/12	"
18	1-11	Bollinger	4.1	1.27	0.39	2.23	0.49			.6		6	0	1/6	"
19	1-15	"	4.1	5.97	1.69	3.39	10.09			.6		6	02	1/6	"
20	1-17	"	4.1	1.95	0.47	2.39	0.92			.6		5	0	1/4	"
21	1-24	"	4.1	0.83	0.71	2.15	0.59			.6		5	0	1/6	"
22	1-31	"	4.1	0.99	0.55	2.12	0.54			.6		5	0	1/4	"
23	2-7	"	4.0	0.97	0.39	2.15	0.38			.6		5	0	"	"
24	2-14	"	4.0	0.93	0.46	2.14	0.42			.6		5	0	1/6	"
25	2-23	"	4.0	0.87	0.48	2.15	0.42			.6		5	0	"	"
25A	3-1	"	3.6	0.90	0.47	2.13	0.42			.6		4	0	1/4	"
26	3-7	"	4.1	0.93	0.54	2.13	0.50			.6		4	0	1/6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Discharge measurements of **Los Angeles**

River
~~Creek~~

at near **VanNuys Blvd. Bridge**

during the year ending September 30, 19 **30**

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	rating	Method	Coeff.	Meas. area	G. Ht. (ft.)	Time (Hours)	Meter
			Feet	Sq. ft.		Ft. per sec.	Feet								
27	3-14	C. E. Bollinger	4.1	1.00	0.35	2.16	0.35			.6		5	0 1/6	271 650	
28	3-14	Bollinger-Bergman	4.1	4.92	1.95	3.14	9.59			.6		4	0 "	"	
29	3-14	"	4.1	5.05	1.58	3.16	8.00			.6		5	02 "	"	
30	3-14	C. E. Bollinger	38.193	3	1.79	6.03	167.0			.6		12	85 1.00	"	
31	3-28	"	4.1	1.21	0.53	2.21	0.64			.6		5	0 1/4	"	
32	4-18	"	4.1	1.29	0.30	2.23	0.38			.6		4	0 "	"	
32A	4-25	"	3.9	1.18	0.36	2.21	0.43			.6		4	0 "	"	
33	5-2	"	3.1	0.95	0.35	2.23	0.33			.6		3	0 "	"	
34	5-9	"	3.7	0.95	0.41	2.17	0.40			.6		4	0 1/6	"	
35	5-16	"	3.5	0.76	0.28	2.13	0.21			.6		4	0 "	"	
36	5-23	"	3.4	0.74	0.74	2.18	0.55			.6		5	0 "	"	
37	6-6	"	3.4	0.60	0.60	2.16	0.36			.6		6	0 1/4	"	
38	6-13	"	1.4	0.29	0.90	2.09	0.26			.6		3	0 1/6	"	
38A	6-20	"	2.3	0.38	0.68	2.08	0.26			.6		4	0 "	"	
38B	6-27	"	-	-	-	2.08	0.28			V		-	-	-	
39	7-5	"	-	-	-	2.10	0.30			V		-	-	-	
40	7-11	"	-	-	-	2.30	0.71			V		-	-	-	
41	7-18	"	-	-	-	2.17	0.46			V		-	-	-	
42	7-25	"	-	-	-	2.12	0.41			V		-	-	-	
43	8-1	"	1.6	0.66	1.06	2.39	0.71			.6		3	01 1/6	271 650	
44	8-8	"	2.0	1.00	0.98	2.22	0.98			.6		3	0 1/12	"	
45	8-15	"	2.1	0.79	0.77	2.14	0.61			.6		3	0 1/6	"	
46	8-22	"	-	-	-	2.10	0.37			V		-	-	-	
47	8-29	"	-	-	-	2.14	0.60			V		-	-	-	
48	9-5	"	2.4	0.76	1.03	2.17	0.78			.6		3	0 1/6	271 650	
49	9-12	"	2.3	0.55	0.62	2.10	0.34			.6		3	0 "	"	
50	9-26	"	4.0	5.79	1.69	3.38	9.82			.6		4	0 1/4	"	

V used "v" notched wier.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

HIGH STAGE

File No. 5

Rating table for Los Angeles River - Van Nuys Blvd. Bridge

from Oct. 1, 1929, to May 8, 1930

Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.
2.25	1.50	.06	2.45	2.70	.06	2.76	4.88	.08	3.16	8.14	.09	3.56	11.96	.11
.26	1.56		.46	2.76		.78	5.04		.18	8.32		.58	12.18	
.27	1.62		.47	2.82		.80	5.20		.20	8.50		.60	12.40	
.28	1.68		.48	2.88		.82	5.36		.22	8.68		.62	12.64	.12
.29	1.74		.49	2.94		.84	5.52		.24	8.86		.64	12.88	
.30	1.80		.50	3.00		.86	5.68		.26	9.04		.66	13.12	
.31	1.86		.51	3.06		.88	5.84		.28	9.22		.68	13.36	
.32	1.92		2.52	3.14	.07	.90	6.00		.30	9.40		.70	13.60	.13
.33	1.98		.54	3.28		.92	6.16		.32	9.58		.72	13.86	
.34	2.04		.55	3.35		.94	6.32		.34	9.76		.74	14.12	
.35	2.10		.56	3.42		.96	6.48		.36	9.94		.76	14.38	
.36	2.16		.58	3.56		.98	6.64		.38	10.12		.78	14.64	
.37	2.22		.60	3.70		3.00	6.80		.40	10.30		.80	14.90	
.38	2.28		.62	3.84		.02	6.96		.42	10.50	.10	.82	15.20	.15
.39	2.34		.64	3.98		.04	7.12		.44	10.70		.84	15.50	
.40	2.40		.66	4.12		.06	7.28		.46	10.90		.86	15.80	
.41	2.46		.68	4.26		.08	7.44		.48	11.10		.88	16.10	
.42	2.52		.70	4.40		.10	7.60		.50	11.30	.09	.90	16.40	.17
.43	2.58		.72	4.56		.12	7.78		.52	11.52	.11	.92	16.74	
.44	2.64		.74	4.72		.14	7.96		.54	11.74		.94	17.08	

The above table is not applicable for obstructed channel conditions. It is based on 35 discharge measurements made during 1929-1930

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

Computed by M. Rupert

Checked by W.R.

Date May 19, 1930

Low Stage

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Rating table for Los Angeles River - Van Nuys Blvd. Bridge

, from Oct. 1, 1929, to May 8, 1930

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.
2.05	0	.03	2.25	1.50										
.06	.03													
.07	.06													
.08	.09	.04												
.09	.13													
2.10	.17													
.11	.21	.05												
.12	.26													
.13	.31													
.14	.36	.07												
.15	.43													
.16	.50	.08												
.17	.58													
.18	.66													
.19	.74	.10												
2.20	.84													
.21	.94													
.22	1.04	.12												
.23	1.16													
.24	1.28													

The above table is not applicable for obstructed channel conditions. It is based on 35 discharge measurements made during 1929-1930

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

Computed by M. Rupert
Checked by NR
Date May 19, 1930

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of Los Angeles River at Van Nuys Blvd. Bridge for the Year Ending September 30, 1930

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

Drainage Area 157 Square Miles. C. E. Bollinger [Observer.] Gage Read to continuous Used rating table dated May 19, 1930

Main data table with columns for months (OCTOBER to SEPTEMBER), days, gage height, discharge, and summary statistics (TOTAL, Mean Daily Discharge, etc.). Includes handwritten notes on the left and right margins.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 5

Monthly discharge of **Los Angeles**

River
←→

at **Van Nuys Blvd. Bridge**

for the year ending Sept. 30, 19 **30**

(Drainage area **157** square miles)

MONTH	DISCHARGE IN SECOND-FOOT				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	.50	.06	.21			12.83	
November	.74	.13	.28			16.89	
December	1.80	.09	.38			23.44	
January	76.36	.09	1.20			312.27	
February	.91	.01	.35			19.86	
March	148.62	.21	7.52			465.36	
April	2.52	.74	1.14			68.03	
May	2.43	.36	.81			49.80	
June	1.80	.06	.39			27.89	
July	2.64	.03	.65			40.15	
August	2.40	.17	.90			55.26	
September	10.80	0	2.36			140.05	
The year period						1233.63	

NOTE:

LOS ANGELES RIVER - WILLOW STREET LONG BEACH

Location

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

Drainage Area

1062.26 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

Stevens Type A 30 continuous recorder installed in shelter house mounted on corrugated iron stilling well attached to downstream side of pipe 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 1669 c.f.s. March 15, 1930.
Minimum 0 c.f.s. Nov. 9, 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 COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 36

Discharge measurements of **Los Angeles**

River

at **Willow St. Long Beach**
near

during the year ending September 30, 19 **30**

No.	Date	Made by	Width Feet	Area of section S. ft. E. ft.	Mean velocity ft. sec.	Gage height Feet	Discharge Sec-ft.	Rating	Method	Corr.	Mean sec.	G. ft. change	Time	Total
1	1929 10-4	L. W. Jordan	9.0	3.29	1.02	6.88	3.33		.6		10	.01	1/3	271 636
2	10-11	"	10.0	4.20	.90	6.61	3.96		.6		10	0	1/4	"
3	10-18	"	9.7	3.30	.57	6.56	1.88		.6		10	0	1/4	"
4	10-25	"	6.6	2.54	.88	6.58	2.23		.6		6	01	"	282 962
5	11-1	"	8.4	3.39	1.01	6.56	3.44		.6		8	04	5/12	"
6	11-8	"	7.0	3.34	1.12	6.58	3.75		.6		7	0	1/4	"
7	11-15	"	6.1	2.46	.74	6.51	1.81		.6		6	02	"	"
8	11-22	"	6.4	3.02	.95	6.56	2.86		.6		7	0	"	"
9	11-29	C. E. Bollinger	18.0	6.50	.59	6.57	3.82		.6		9	02	"	271 1000
10	12-6	L. W. Jordan	9.4	4.26	1.28	6.64	5.44		.6		10	0	"	282 962
11	12-13	Jordan Fenwick	9.8	3.77	1.21	6.63	4.56		.6		10	0	"	"
12	12-20	L. W. Jordan	7.5	3.70	1.12	6.63	4.13		.6		8	0	"	"
13	1930 1-4	"	7.0	3.44	1.02	6.63	3.52		.6		7	0	"	"
14	1-10	Jordan Crittenden	160.0	217.0	2.55	8.38	554.0		.6		15	.17	11/12	"
15	1-10	L. W. Jordan	76.0	51.6	2.71	7.51	140.0		.6		10	.02	5/12	"
16	1-11	"	47.0	45.65	4.83	7.34	83.73		.6		12	.03	1/2	"
17	1-11	Jordan Crittenden	302.0	402.0	3.27	9.34	1315.0		.6		20	.40	5/6	"
18	1-17	L. W. Jordan	40.0	16.1	1.17	7.08	18.9		.6		15	0	1/2	"
19	1-24	"	20.0	7.80	.94	6.88	7.32		.6		9	.03	1/3	"
20	2-7	"	20.0	7.36	.95	6.85	6.94		.6		10	02	1/4	"
21	2-14	"	10.0	3.15	.55	6.69	1.72		.6		8	02	1/6	"
22	2-21	"	19.5	8.75	1.50	6.97	13.08		.6		10	04	1/4	"
23	2-28	"	7.5	3.43	.87	6.76	2.98		.6		8	02	1/4	"
24	3-7	"	27.0	9.09	1.04	6.96	9.45		.6		12	06	1/6	"
25	3-15	"	212.0	359.0	4.10	9.19	1470.0		.6	.82	11	02	1-1/3	"
26	3-21	"	22.0	9.97	.98	7.09	9.74		.6		12	02	1/6	"
27	3-28	"	9.0	3.61	.76	6.88	2.73		.6		6	0	"	"
28	4-4	"	22.5	6.53	.83	7.05	5.40		.6		11	0	1/6	"

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, 19 **30**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. gage	St. Inv. station	Time	Mean
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec. ft.	Percent diff.			No.	Cont.	to	year
1930														
29	4-11	L W Jordan	23.0	7.78	.85	7.10	6.63			.6	12	03	1/4	282 962
30	4-18	"	5.2	1.43	.80	6.88	1.14			.6	5	01	1/6	"
31	4-25	"	12.0	5.06	1.05	7.14	5.32			.6	9	01	1/4	"
32	5-2	"	33.0	14.6	.83	7.30	12.1			.6	11	02	"	"
33	5-9	"	11.0	5.06	1.28	6.98	6.59			.6	11	07	1/6	"
34	5-16	"	7.3	2.94	1.10	6.92	3.22			.6	7	0	"	"
35	5-23	"	8.0	3.60	1.29	6.93	4.63			.6	8	0	"	"
36	6-6	"	6.4	2.79	1.21	6.89	3.37			.6	7	0	"	"
37	6-13	"	7.1	2.52	.66	6.87	1.66			.6	7	02	1/4	"
38	6-20	"	14.7	4.95	.48	2.39	2.39			.6	11	10	"	"
39	6-27	"	10.8	4.47	.67	6.90	3.00			.6	11	02	"	"
40	7-11	"	10.5	3.76	.53	6.87	1.99			.6	8	02	"	"
41	7-18	"	5.0	1.75	.11	6.73	.20			.6	5	0	1/6	"
42	8-1	"	5.0	2.45	.14	6.78	.35			.6	5	01	"	"
43	8-8	"	9.5	3.84	.92	6.96	3.54			.6	8	02	"	"
44	8-15	"	10.0	3.84	.93	6.95	3.57			.6	10	02	1/6	"
45	8-22	"	9.8	2.89	.42	6.85	1.20			.6	8	02	"	"
46	9-5	"	9.0	2.54	.50	6.88	1.27			.6	8	03	1/6	"
47	9-26	"	11.5	4.93	.92	7.01	4.51			.6	12	02	1/4	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

High Stage

File No. 5

Rating table for Los Angeles River - Van Nuys Blvd. Bridge

from Oct. 1			1929			to Sept. 30			1930					
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.
3.96	17.42		4.75	37.50		5.75	123.0		6.75	282				
.98	17.76		.80	39.60		.80	130.7	1.53	.80	290	1.60			
4.00	18.10		.85	41.70		.85	138.4		.85	298				
.02	18.48	.19	.90	43.80		.90	146.0		.90	306				
.04	18.86		.95	46.57	.555	.95	154.	1.60	.95	314				
.06	19.24		5.00	49.35		6.00	162		7.00	322				
.08	19.62		.05	52.12		.05	170		.05	330				
.10	20.00		.10	54.90		.10	178		.10	338				
.15	21.00	.20	.15	58.62	.745	.15	186		.15	346				
.20	22.00		.20	62.35		.20	194		.20	354				
.25	23.00		.25	66.07		.25	202		.25	362				
.30	24.20		.30	69.80		.30	210		.30	370				
.35	25.45	.25	.35	74.85	1.01	.35	218		.35	378				
.40	26.70		.40	79.90		.40	226		.40	386				
.45	27.95		.45	84.95		.45	234		.45	394				
.50	29.20		.50	90.00		.50	242							
.55	30.75	.31	.55	96.35	1.27	.55	250							
.60	32.30		.60	102.70		.60	258							
.65	33.85		.65	109.05		.65	266							
.70	35.40	.42	.70	115.40	1.53	.70	274							

The above table is not applicable for obstructed channel conditions. It is based on 35 discharge measurements made during 1929-1930

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

Computed by M. Rupert
Checked by W.R.
Date May 19, 1930

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of

Los Angeles

River Creek

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

At Willow St. Long Beach for the Year Ending September 30, 1930

Drainage Area 1062.26 Square Miles.

Jordan [Observer.]

Gage Read to continuous

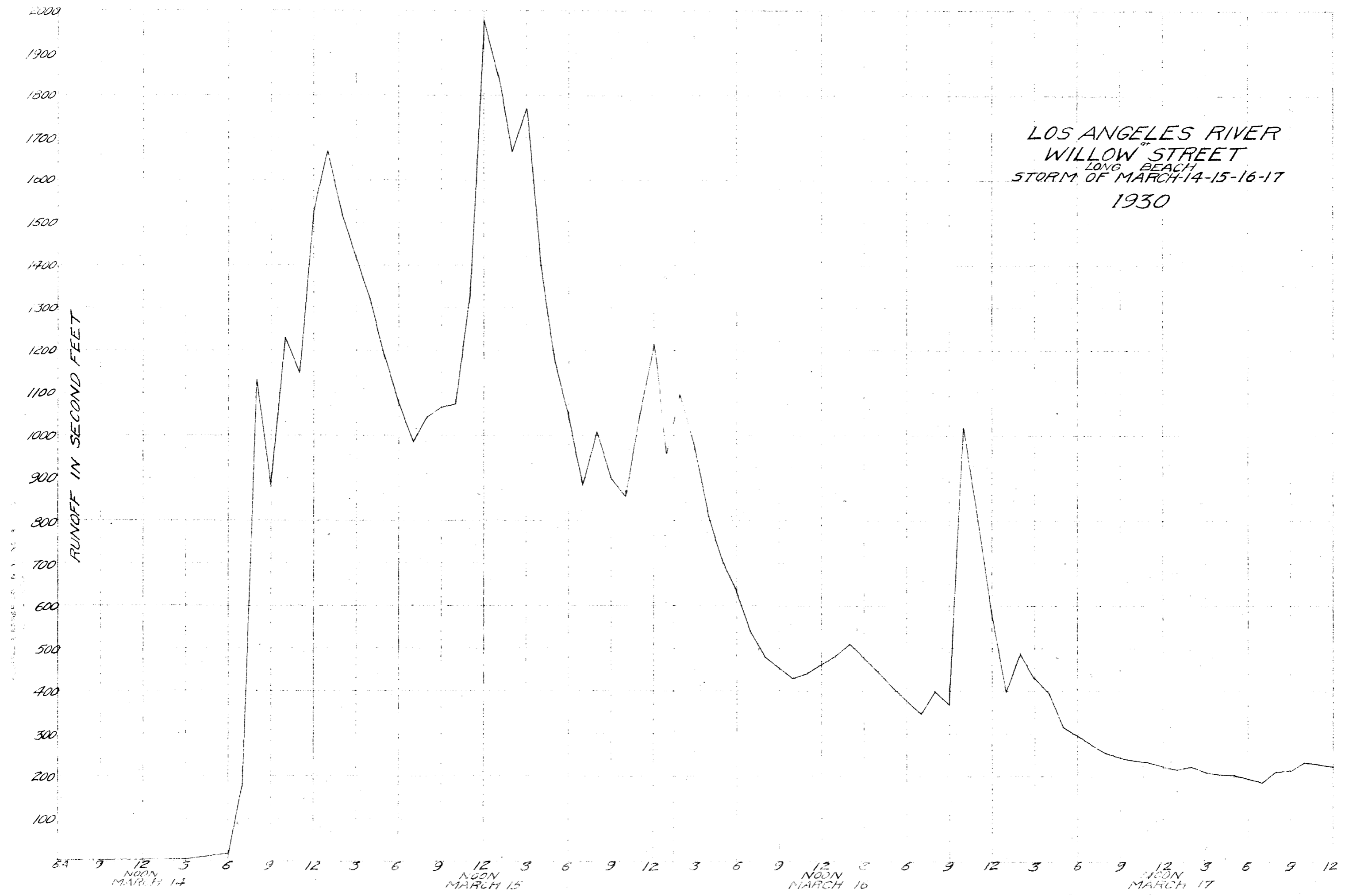
Used rating table dated

Main data table with columns for months (October-September) and days (1-31), including gage height and discharge readings. Includes summary rows for 'TOTAL', 'Mean Daily Discharge', and 'Run-off, depth in inches'.

Vertical labels on the left margin: second-foot, Discharge, March 15, 9.70, 6.30, 7 am, Nov. 9, 0.

Vertical labels on the right margin: DAY, Quarter, Fourth, Second, First, Third, H.V., H.V., H.V., J.I., J.I., J.I., J.I., G. H. Copied, G. H. checked, Date, Period Year.

LOS ANGELES RIVER
WILLOW STREET
LONG BEACH
STORM OF MARCH-14-15-16-17
1930



**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 36

Monthly discharge of

Los Angeles

River
~~Arroyo~~

at
~~near~~

Willow St. Long Beach

for the year ending Sept. 30, 1930

(Drainage area 1062.26 square miles)

MONTH	DISCHARGE IN SECONDS FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	3.98	2.15	3.31			203.50	
November	3.30	.86	1.94			115.13	
December	4.64	2.30	3.84			236.01	
January	576.05	4.18	71.59			4401.72	
February	57.19	3.07	6.98			387.87	
March	1273.0	2.65	90.89			5588.99	
April	5.20	1.42	4.03			239.56	
May	67.66	2.00	10.13			623.15	
June	2.65	1.55	2.22			132.00	
July	2.30	1.70	1.96			120.59	
August	2.15	1.41	1.83			112.30	
September	3.07	1.55	3.50			203.28	
The year period						12369.15	

NOTE:

MONROVIA CANYON - ABOVE SAWPIT CREEK

Location

In Monrovia Cn. 200' above junction with Sawpit Creek, about 3 miles northeast of town of Monrovia, Los Angeles County, Cal.

Drainage Area

1.90 square miles as measured on U.S.G.S. topographic map.

Installed by

Los Angeles County Flood Control District
November 10, 1927.

Records Available

From Nov. 10, 1927 to Sept. 30, 1930 at L.A.C.F.C.D.

Gage

Staff gage installed on rubble masonry recorder house on west bank of stream. Au continuous water stage recorder.

Discharge Measurements

Wading measurements made at gage. High water measurements made from bridge installed at gage.

Channel and Control

Channel is rock and gravel. Concrete control located 10' below gage with low water opening a two foot crest cippoletti weir.

Extremes of Discharge

Maximum 5.86 c.f.s. January 15, 1930.
Minimum dry at various times during year.

Diversions

Monrovia Pipe Line diverts above gage.

Regulation

None.

Accuracy

Good for low flows.

Cooperation

Located 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. 22

Discharge measurements of **Monrovia**

~~River~~
Creek

at **Above Junction with Sawpit Ck.** , during the year ending September 30, 19 **30**
near

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Cost	Meas. sec.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.	Ft./sec.	Feet	Sec.-ft.	Percent alt.			No.	Total	Hours	
	1930													
1	1-11	Roger P. Dalton	.70	.14	.34	.11	.05			.6	2	0	1/12	FC25
2	1-13	"	1.0	.23	.83	.20	.19			.6	2	0	"	"
3	1-14	"	1.6	.45	1.40	.30	.62			.6	3	0	"	"
4	1-15	"	4.9	1.77	1.88	.61	3.32			.6	9	02	1/6	"
5	1-15	"	5.0	2.34	1.96	.73	4.59			.6	5	04	1/12	"
6	1-15	"	5.0	2.01	2.05	.67	4.12			.6	10	05	1/5	"
7	1-15	"	6.5	3.12	1.84	.81	5.73			.6	11	02	1/6	"
8	1-17	"	2.5	.39	.82	.19	.32			.6	5	-	1/12	"
9	1-29	"	1.0	.22	.50	.10	.11			.6	2	-	1/12	"
10	1-31	"	1.0	.20	.50	.11	.12			.6	2	-	"	"
11	2-7	"	1.0	.20	.60	.13	.12			.6	2	-	"	"
12	2-14	"	1.0	.20	.55	.09	.11			.6	2	-	"	"
13	2-21	"	1.0	.20	.55	.09	.11			.6	2	0	"	"
14	3-5	"	2.2	.40	.58	.17	.23			.6	3	-	-	"
15	3-7	"	2.0	.26	.50	.11	.13			.6	4	-	-	"
16	3-14	"	2.0	.32	.62	.13	.20			.6	4	0	1/12	"
17	3-15	"	4.3	1.15	1.92	.50	2.21			.6	8	0	1/6	"
18	3-15	"	4.2	.96	1.69	.42	1.62			.6	8	0	1/12	"
19	3-16	"	3.5	1.16	1.20	.37	1.40			.6	7	0	1/6	"
20	3-19	"	2.5	.55	.50	.20	.28			.6	5	0	1/12	"
21	3-28	"	.90	.27	.63	.10	.17			.6	2	-	-	"
22	4-4	R. Lindsey	.90	.20	.60	.08	.12			.6	1	0	1/12	282 883
23	4-11	"	.90	.18	.44	.08	.11			.6	3	0	1/12	"
24	4-18	"	.90	.17	.41	.07	.07			.6	3	0	"	"
25	4-25	"	-	-	-	.07	.07			-	-	-	-	-
26	5-2	"	-	-	-	.08	.07			-	-	-	-	-
27	5-9	"	-	-	-	.10	.09			-	-	-	-	-
28	5-16	"	-	-	-	.09	.07			-	-	-	-	-

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

file No. 22

Discharge measurements of

Monrovia

River
Creek

at Above Junction with Sawpit Ck
near

during the year ending September 30, 19 30

No.	Date	Made by	Width	Area of section	Mean velocity	Stage height	Discharge	Station	Method	Cost	Meas. sec.	G. H. change	Time	Meter No.
			Feet	Sq. Ft.	Ft. per sec.	Feet	Sec. ft.				Percent alt.	No.	Total Hours	
29	5-23	R. Lindsey	-	-	-	.08	.06				-	-	-	-
30	5-29	"				.07	.05							
31	6-6	"				.12	.14							
32	6-13	"				.09	.07							
33	6-20	"				.06	.04							
34	6-27	"				.07	.06							
35	7-4	"				.06	.04							
36	7-11	"				.04	.03							
37	7-18	"				.04	.02							
38	7-25	"				.04	.02							
39	8-1	"				.04	.01							
40	8-8	"				.04	.01							
41	8-15	"				.04	.01							
42	8-22	"				.04	.01							
43	9-5	"					Dry							
44	9-12	"				.04	.01							

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Rating table for **Monrovia Creek - above Junction with**

Sawpit Creek, from **Oct. 1**, 19 **29**, to **Sept. 30**, 19 **30**

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	.40	1.32	.075	.80	5.60	.13						
.02	0		.42	1.47	.075	.82	5.86	.13						
.04	.03	.01	.44	1.62	.09	.84	6.12	.13						
.06	.05	.01	.46	1.80	.095	.86	6.38	.13						
.08	.07	.01	.48	1.98	.095	.88	6.64	.135						
.10	.09	.01	.50	2.17	.095	.90	6.92	.135						
.12	.11	.015	.52	2.36	.10	.92	7.19	.135						
.14	.14	.025	.54	2.56	.10	.94	7.46	.135						
.16	.19	.025	.56	2.76	.105	.96	7.73	.135						
.18	.24	.03	.58	2.97	.11	.98	8.00	.14						
.20	.30	.035	.60	3.19	.11	1.00	8.28							
.22	.37	.035	.62	3.41	.11									
.24	.44	.04	.64	3.63	.12									
.26	.52	.045	.66	3.87	.12									
.28	.61	.045	.68	4.11	.12									
.30	.70	.055	.70	4.35	.125									
.32	.81	.055	.72	4.60	.125									
.34	.92	.065	.74	4.85	.125									
.36	1.05	.065	.76	5.10	.125									
.38	1.18	.07	.78	6.35	.125									

The above table is not applicable for obstructed channel conditions. It is based on 44 discharge measurements made during Oct. 1, 1929 to Sept. 30, 1930

and is fairly well defined between 0 second-feet and 4.59 second-feet.

Computed by W.T.K.
Checked by REW - JLI
Date

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of

Monrovia

Creek

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

File No. 22

Above junction with Sawpit Cr. for the Year Ending September 30, 1930

Drainage Area 1.90 Square Miles.

Dalton - Lindsay

Observer.]

Gage Read to Continuous

Used rating table dated Oct. 1, 1929-Sept. 30, 1930

Maximum stage .82 feet at 11:50am on Jan. 15
Minimum stage Dry on a few days in August and September.

Discharge 5.86 second-feet

Main data table with columns for months (OCTOBER to SEPTEMBER) and rows for days (1 to 31). Each row contains Gage height and Discharge values.

Summary table with columns for various metrics: TOTAL, Mean Daily Discharge in Second-feet, Second-feet per square mile, Run-off, depth in inches, Run-off in acre-feet, Maximum Mean Daily Discharge in Second-feet, Minimum Mean Daily Discharge in Second-feet.

Vertical text on the right side containing 'DAY', 'Quarter', 'First', 'Second', 'Third', 'Fourth', 'R.L.R.L.R.L.', 'J.L.I.', '8/19/30', '1/21/31', 'G. H. Copied', 'G. H. checked', 'Date', 'PERIOD YEAR'.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 22

Monthly discharge of

Monrovia

~~XXXX~~
Creek

~~XX~~ above
~~XXXX~~

Junction with Sawpit Creek

for the year ending Sept. 30, 19 30

(Drainage area 1.90 square miles)

MONTH	DISCHARGE IN SECOND FEET				TOTAL	
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet
October	.03	.02	.02			1.48
November	.03	.02	.02			1.23
December	.03	.02	.03			1.80
January	2.56	.03	.22			13.74
February	.13	.08	.09			5.33
March	1.62	.09	.23			1.62
April	.08	.06	.07			4.04
May	.34	.06	.10			5.93
June	.13	.05	.08			4.61
July	.05	.01	.03			1.86
August	.01	0	.01			0.47
September	.01	0	.005			.29
The year period						54.75

NOTE:

NIGGER SLOUGH - WILMINGTON AVENUE

Location

On east bank of Slough about 50 feet above
Wilmington Avenue.

Drainage Area

66.49 square miles.

Installed by

Los Angeles County Flood Control District.
January 14, 1930.

Records available

Nov. 14, 1928.

Gage

Rational, 7 day recorder installed in shelter
house on top of a corrugated iron stilling
well.

Discharge measurements

Low water taken bywading.
High water taken from bridge.

Channel and control

Channel in clay. No control.

Extremes of Discharge

Maximum 42.47 c.f.s. March 17, 1930.
Minimum 3.07 c.f.s. April 26, 1930.

Diversions

None.

Regulation

None.

Accuracy

Fair.

Cooperation

Located, installed and operated by the L.A.C.F.C.D.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 46

Discharge measurements of **Nigger Slough**

River
Creek

at
near

Wilmington Ave.

during the year ending September 30, 1930

No.	Date	Made by	Width		Mean velocity	Stage		Rating	Method	Coef.	Meas. time	G. M. change	Time	Meters No.
			Feet	Sec. ft.		Feet	Sec. ft.							
1	1929 10-4	L. W. Jordan	6.5	5.55	.37	1.53	2.07	.6			7	06	1/4	271 636
2	10-4	"	6.7	5.09	.22	1.49	1.11	.6			7	04	"	"
3	10-18	"	6.0	4.35	.50	1.34	2.19	.6			7	03	1/6	"
4	10-25	"	6.0	3.98	.37	1.28	1.47	.6			7	01	"	7023 282
5	11-1	"	6.7	5.09	.37	1.46	1.90	.6			7	03	1/3	962
6	11-8	"	6.0	4.27	0.47	1.19	2.01	.6			7	0	1/6	"
7	11-15	"	6.0	3.97	.43	1.22	1.71	.6			7	0	"	"
8	11-22	"	6.2	4.56	.34	1.39	1.54	.6			7	0	"	"
9	11-29	C. E. Bollinger	6.0	3.80	.41	1.22	1.54	.6			6	0	"	271 640
10	12-13	Jordan Fenwick	6.5	4.95	.27	1.44	1.33	.6			7	0	"	282 962
11	12-20	L. W. Jordan	6.1	4.14	.44	1.25	1.81	.6			7	0	"	"
12	1930 1-4	"	6.5	5.13	.31	1.47	1.61	.6			7	0	"	"
13	1-17	"	8.5	10.2	.56	2.17	5.74	.6			8	02	1/3	"
14	1-17	"	11.0	11.4	1.23	-	14.0	.6			6	-	1/6	"
15	1-24	"	8.0	7.50	.61	1.83	4.55	.6			8	0	"	"
16	2-7	"	7.0	6.00	.37	1.64	2.22	.6			7	01	"	"
17	2-21	"	6.0	4.10	.39	1.45	1.58	.6			6	0	"	"
18	3-7	"	4.5	3.02	.44	1.31	1.33	.6			5	0	"	"
19	3-16	"	10.0	22.2	.87	3.38	19.4	.6			7	0	"	"
20	3-21	"	9.5	1.35	1.08	2.67	15.49	.6			9	0	"	"
21	3-28	"	8.0	7.68	.72	1.88	5.54	.6			8	01	"	"
22	4-4	"	6.0	4.00	.46	1.37	1.85	.6			6	0	"	"
23	5-2	"	6.2	4.39	.47	1.39	2.07	.6			6	0	"	"
24	5-16	"	5.5	3.80	.43	1.37	1.65	.6			5	0	"	"
25	6-6	"	5.5	3.60	.47	1.36	1.70	.6			6	0	"	"
26	6-20	"	6.5	4.25	.37	1.46	1.58	.6			6	0	"	"
27	6-27	"	6.5	4.60	.37	1.43	1.69	.6			7	0	"	"
28	7-18	"	6.0	4.35	.37	1.47	1.60	.6			6	0	1/4	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

file no. 46

Discharge measurements of **Nigger Slough**

at **Wilmington Avenue**

during the year ending September 30, 19 **30**

No.	Date	Gage by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Station	Coef.	Meas. Sws.	G. H. change	Time	Meters No.
			Feet	Sq. ft.	Feet/sec.	Feet	Sec-ft.				Percent	No.	Total	
1930														
29	8-1	L. W. Jordan	5.5	4.22	.32	1.44	1.33				6	0	1/6	282 962
30	8-8	"	5.5	4.80	.35	1.50	1.70				6	0	"	"
31	8-15	"	5.5	4.45	.41	1.46	1.82				6	0	"	"
32	8-22	"	7.0	6.65	.24	1.75	1.61				7	0	"	"
33	9-5	"	6.5	4.57	.34	1.46	1.56				7	01	1/4	"
34	9-12	"	5.5	4.57	.37	1.45	1.70				6	0	1/6	"
35	9-26	"	5.5	4.22	.34	1.37	1.43				6	0	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 46

Rating table for Nigger Slough at Wilmington Ave.

from Oct. 1 1929 to March 21 1930

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	.64	.02	2.0	4.75	.06	3.0	13.55	.14						
.05	.74	.02	.05	5.05	.06	.05	14.25	.15						
.10	.84	.024	.10	5.35	.06	.10	15.00	.15						
.15	.96	.024	.15	5.65	.06	.15	15.75	.15						
.20	1.08	.024	.20	5.95	.06	.20	16.50	.15						
.25	1.20	.03	.25	6.27	.064	.25	17.25	.15						
.30	1.35	.034	.30	6.65	.072	.30	18.05	.16						
.35	1.52	.04	.35	7.00	.074	.35	19.85	.16						
.40	1.72	.04	.40	7.37	.080	.40	19.65							
.45	1.92	.048	.45	7.77	.086	.45	20.45							
.50	2.16	.048	.50	8.20	.086	.50	21.25							
.55	2.40	.05	.55	8.63	.086									
.60	2.65	.05	.60	9.06	.088									
.65	2.90	.05	.65	9.50	.10									
.70	3.15	.05	.70	10.00	.10									
.75	3.40	.05	.75	10.50	.10									
.80	3.65	.05	.80	11.00	.12									
.85	3.90	.054	.85	11.60	.13									
.90	4.17	.056	.90	12.25	.13									
.95	4.45	.06	.95	12.90	.13									

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

Checked by

Date

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 46

Rating table for **Higger Slough at Wilmin, ton Ave.**

, from **March 21** , 19 **30**, to **Oct. 1** , 19 **30**

Gage height Feet	Discharge Cusec.	Difference Cusec.	Gage height Feet	Discharge Cusec.	Difference Cusec.	Gage height Feet	Discharge Cusec.	Difference Cusec.	Gage height Feet	Discharge Cusec.	Difference Cusec.	Gage height Feet	Discharge Cusec.	Difference Cusec.
1.00	.70	.02	2.0	6.80	.11	3.0								
.05	.80	.024	.05	7.35	.12									
.10	.93	.03	.10	7.95	.12									
.15	1.07	.03	.15	8.55	.12									
.20	1.22	.036	.20	9.15	.12									
.25	1.40	.036	.25	9.75	.13									
.30	1.58	.04	.30	10.40	.13									
.35	1.78	.044	.35	11.05	.13									
.40	2.01	.046	.40	11.70	.14									
.45	2.23	.052	.45	12.40	.14									
.50	2.50	.06	.50	13.10	.14									
.55	2.80	.062	.55	13.80	.14									
.60	3.11	.07	.60	14.50	.14									
.65	3.46	.072	.65	15.20	.14									
.70	3.83	.074	.70	15.90	.14									
.75	4.20	.076	.75	16.60	.14									
.80	4.68	.10	.80	17.30	.14									
.85	5.18	.104	.85	18.00	.15									
.90	5.70	.11	.90	18.75	.15									
.95	6.25	.11	.95	19.50	.15									

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

Checked by

Date

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of Nigger Slough River
Creek

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. **46**

At Wilmington Ave. For the Year Ending September 30, 1930

Drainage Area 66.49 Square Miles.

[L. W. Jordan Observer.]

Gage Read to Continuous

Used rating table dated _____

Maximum stage 3.52 feet at 12 p.m. on 3/17/30
 Minimum stage 1.31 feet at 2 pm on 4/26/30
 Discharge 42.47 second-feet
 Discharge 3.07 second-feet

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									1.72	4.15	1.46	2.00	1.65	3.40	1.42	2.75	1.54	2.75	1.58	3.00	11.65	3.46	1.60	3.11	1	
2									1.62	2.60	1.45	1.97	1.63	3.30	1.37	1.85	1.54	2.75	1.66	3.50	1.65	3.46	1.65	3.46	2	
3									1.66	2.92	1.42	1.70	1.55	2.80	1.42	2.05	1.54	2.75	1.56	2.90	1.65	3.46	1.70	3.83	3	
4									1.65	2.90	1.48	2.10	1.49	2.55	1.46	2.30	1.54	2.75	1.53	2.63	1.60	3.11	1.73	4.04	4	
5									1.62	2.77	1.55	2.40	1.54	2.75	1.70	3.70	1.54	2.75	1.48	2.40	1.63	3.32	1.70	13.83	5	
6									1.61	1.60	1.55	2.40	1.57	2.85	1.62	3.20	1.55	2.80	1.50	2.50	1.68	3.68	1.70	13.83	6	
7									1.46	1.90	1.46	2.00	1.55	2.80	1.65	3.40	1.56	2.84	1.52	2.55	1.68	3.68	1.70	13.83	7	
8									1.74	3.25	1.54	2.50	1.52	2.70	1.57	2.85	1.50	2.50	1.58	3.00	1.55	2.80	1.70	13.83	8	
9									1.58	2.55	1.53	2.25	1.53	2.65	1.48	2.40	1.52	2.70	1.62	3.20	1.70	3.83	1.65	13.46	9	
10									1.40	1.70	1.52	2.23	1.48	2.40	1.52	2.55	1.59	3.05	1.59	3.05	1.65	3.46	1.65	13.46	10	
11									1.54	3.30	1.61	2.60	1.49	2.55	1.57	2.85	1.59	3.05	1.52	2.55	1.60	3.11	1.65	13.46	11	
12	RECORDER ESTABLISHED									1.60	1.60	1.61	2.60	1.49	2.55	1.54	2.75	1.58	3.00	1.56	2.34	1.62	3.25	1.65	13.46	12
13	JANUARY 14, 1930									1.43	1.85	1.59	1.55	1.52	2.70	1.48	2.40	1.59	3.05	1.54	2.75	1.62	3.25	1.65	3.46	13
14							2.06	5.09	1.45	1.95	2.12	5.40	1.53	2.58	1.52	2.55	1.57	2.85	1.53	2.73	1.65	3.46	1.65	3.46	14	
15							2.10	5.10	1.55	2.40	2.76	10.05	1.52	2.70	1.40	2.00	1.52	2.55	1.55	2.80	1.65	3.46	1.70	3.83	15	
16							1.90	4.20	1.55	2.40	3.30	18.00	1.50	2.60	1.44	2.15	1.54	2.75	1.64	3.35	1.65	3.46	1.75	4.20	16	
17							2.23	5.75	1.52	2.20	3.52	21.45	1.55	2.80	1.45	2.25	1.62	3.20	1.65	3.45	1.57	2.98	1.73	4.04	17	
18							2.30	6.65	1.58	2.55	3.33	18.50	1.59	3.05	1.43	2.10	1.62	3.20	1.62	3.20	1.65	3.46	1.73	4.04	18	
19							2.20	6.00	1.57	2.42	3.19	16.07	1.57	2.85	1.47	2.40	1.64	3.35	1.60	3.10	1.70	3.83	1.60	3.11	19	
20							2.22	6.05	1.57	2.42	2.99	13.40	1.54	2.75	1.42	2.05	1.62	3.20	1.54	2.75	1.75	4.20	1.60	3.11	20	
21							2.15	5.60	1.57	2.42	2.80	16.60	1.54	2.75	1.49	2.55	1.60	3.10	1.57	2.95	1.73	4.04	1.60	3.11	21	
22							2.07	5.05	1.62	2.70	2.67	15.45	1.58	3.00	1.60	3.10	1.55	2.80	1.58	3.00	1.70	3.83	1.52	2.62	22	
23							1.58	2.53	1.67	2.42	2.56	13.90	1.55	2.80	1.57	2.85	1.58	3.00	1.73	4.04	1.75	4.20	1.45	2.23	23	
24							1.85	4.05	1.69	3.10	2.45	12.50	1.66	3.50	1.55	2.80	1.58	3.00	1.64	3.35	1.70	3.83	1.45	2.23	24	
25							1.82	3.60	1.60	1.60	2.37	11.30	1.44	2.20	1.49	2.55	1.59	3.05	1.60	3.10	1.63	3.32	1.45	2.23	25	
26							1.82	3.60	1.62	2.70	2.27	10.00	1.31	1.55	1.47	2.40	1.64	3.35	1.60	3.11	1.75	4.20	1.45	2.23	26	
27							2.07	5.05	1.52	2.20	2.17	8.80	1.34	1.75	1.42	2.05	1.63	3.32	1.50	2.50	1.73	4.04	1.40	2.00	27	
28							1.95	4.48	1.48	2.10	2.00	6.80	1.37	1.80	1.50	2.50	1.55	2.80	1.55	2.80	1.76	4.30	1.39	1.96	28	
29							1.92	4.20			1.95	6.20	1.38	1.85	1.60	3.10	1.57	2.85	1.55	2.80	1.60	3.11	1.39	1.96	29	
30							1.87	4.00			1.85	5.20	1.45	2.20	1.62	3.20	1.60	3.10	1.53	2.68	1.73	4.04	1.43	2.14	30	
31							1.90	4.20			1.67	3.60			1.44	2.15			1.60	3.11	1.65	3.46	-	-	31	

G. H. Copied _____
 G. H. Checked _____
 Date _____
 Disch. applied _____
 Disch. checked _____
 Date _____
 Computed _____
 Checked _____
 Date _____
 Period Year _____

TOTAL,							85.20	68.60	241.53	78.73	79.80	115.21	91.69	111.09	95.56
Mean Daily Discharge in Second-foot							4.72	2.45	7.79	2.62	2.57	3.84	2.92	3.58	3.18
Second-foot per square mile															
Run-off, depth in inches															
Run-off in acre-feet							168.99	136.07	479.07	156.16	158.28	228.51	181.86	220.34	189.54
Maximum Mean Daily Discharge in Second-foot							6.65	4.15	21.45	3.40	3.40	3.35	4.04	4.30	4.20
Minimum Mean Daily Discharge in Second-foot							2.53	1.60	1.55	1.55	1.85	2.50	2.40	2.98	1.96

inc
 1918.82

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 46

Monthly discharge of Wigger Slough ~~River~~ ~~Stream~~

at Wilmington Avenue

for the year ending Sept. 30, 19³⁰

(Drainage area 66.49 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	6.65	2.53	4.72			268.99	
February	4.15	1.60	2.45			136.07	
March	21.45	1.55	7.79			479.07	
April	3.40	1.55	2.62			156.16	
May	3.40	1.85	2.57			158.28	
June	3.35	2.50	3.84			228.51	
July	4.04	2.40	2.92			181.86	
August	4.30	2.98	3.58			220.34	
September	4.20	1.96	3.18			189.54	
The year period						1918.82	

inc.

NOTE:

Recorder installed January 14, 1930.

PACOIMA WASH - PARTHENIA ST. BRIDGE.

Location

On highway bridge crossing Pacoima Wash at Parthenia St. approximately 3 miles North of Van Nuys, Los Angeles County, Cal.

Drainage Area.

50.63 square miles.

Installed by

Los Angeles County Flood Control District
Dec. 26, 1928.

Records Available

Dec. 26, 1928 to Sept. 30, 1930 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

69.60 sec.ft. Jan. 11, 1930
Dry most of year.

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 L.A.C.F.C.D. in cooperation with U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Discharge measurements of

Pacoima Wash

near
Creek

at
near

Parthenia St. Bridge

during the year ending September 30, 1930

No.	Date	Made by	Width Feet	Area of Section		Mean Velocity Feet	Discharge		Percent Full	Stage Feet	Gage		Remarks
				Sq. Ft.	Surface		Feet	Cfs.			No.	Height	
1930													
1	1-9	Luce Waddicor	5.0	1.80	2.63	4.24	4.74	.6	5	.011	6	50	
2	1-9	"	5.0	1.82	2.57	4.23	4.67	.6	5	.02	"	"	
3	1-11	"	10.0	4.05	3.38	4.34	13.69	.6	6	.05	"	"	
4	1-11	"	10.0	3.26	2.77	4.30	9.03	.6	7	.04	"	"	
5	1-12	"	11.2	4.26	3.30	4.34	14.08	.6	8	0	1/3	"	
6	1-12	"	11.3	3.93	3.15	4.31	12.39	.6	8	.04	"	"	
7	1-14	"	8.5	1.57	1.11	3.98	1.72	.6	6	.02	1/6	"	
8	1-14	"	8.5	1.25	1.30	3.99	1.63	.6	6	0	1/4	"	
9	3-14	Luce Gilmore	15.5	6.57	3.72	4.42	24.41	.6	10	0	1/6	"	
10	3-14	"	18.0	7.16	3.67	4.40	26.28	.6	12	0	1/4	"	
11	3-14	"	10.9	8.85	3.31	4.53	29.33	.6	11	.26	1/4	"	
12	3-14	"	25.0	8.81	3.70	4.52	32.65	.6	11	.04	"	"	
13	5-3	"	10.4	3.60	2.50	4.09	9.01	.6	11	.02	1/6	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 16

Rating table for Pacoima Wash Parthenia St. Bridge.

from Oct. 1, 1929 to Sept. 30, 1930

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	0		4.00	2.00	.24	5.00								
.05	0		.05	3.20	.24									
.10	0	.016	.10	4.40	.28									
.15	.08		.15	5.80	.32									
.20	.16		.20	7.40	.32									
.25	.24		.25	9.30	.42									
.30	.32		.30	11.40	.52									
.35	.40		.35	14.00	.62									
.40	.48		.40	17.10	.82									
.45	.56		.45	21.20	1.18									
.50	.64		.50	27.10	1.70									
.55	.72		.55	35.60										
.60	.80		.60	44.10										
.65	.88		.65	52.60										
.70	.96		.70	61.10										
.75	1.04		.75	69.60										
.80	1.12	.016	.80	78.10										
.85	1.20	.016	.85	86.60										
.90	1.28	.024	.90	95.10										
.95	1.40	.12	.95	103.60										

The above table is not applicable for obstructed channel conditions. It is based on 13 discharge measurements made during 1929-1930

and is well defined between 1.72 second-feet and 30.65 second feet.

Computed by R. T. X.
Checked by
Date

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 16

Monthly discharge of **Pacoima Wash**

River
Creek

at **Parthenia St. Bridge**
near

for the year ending Sept. 30, 19 **50**

(Drainage area **50.63** 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
November						"
December						"
January	10.92	0	.50		33.12	
February						Dry
March	7.00	0	.35		21.43	
April						Dry
May	.24	0	.03		0.48	
June						DRY
July						"
August						"
September						"
The year period					56.84	

NOTE:

PUDDINGSTONE CREEK BELOW FLOOD CONTROL DAM

Location

Concrete shelter house and stilling well on east side Puddingstone Channel approx. 1000' below Puddingstone Dam near San Dimas, Los Angeles County, Cal.

Drainage Area

32.7 square miles.

Installed by

Los Angeles County Flood Control District.
Dec. 28, 1927.

Records Available

Dec. 28, 1927 to Sept. 30, 1930.

Gage

Au 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 and Control

Channel of sand and gravel, bed rock near gage. Reinforced concrete with 24 inch crest, cippoletti weir 18".

Extremes of Discharge

1.45 c.f.s. May 3, 1930.
Dry at various times during year.

Diversions

None above gage.

Regulation

Flow regulated by Los Angeles County Flood Control District's Dam 1000' above gage.

Accuracy

Good.

Cooperation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 30

Discharge measurements of **Puddingstone**

~~Creek~~

~~at~~
~~near~~

Below F.C. Dam

during the year ending September 30, 1930

No.	Date	Made by	Width Feet	Area of section sq. ft.	Mean velocity ft. per sec.	Discharge		Total percent cut	Method	Cut	Discharge					
						Feet	Sec. ft.				Am.	Total	Units	Notes		
1929																
1	12-9	C L Brewster	-	-	-	-	.012	-	-			1	0	1/6	Bucket and watch	
1930																
2	5-17	"	-	-	-	-	.012	-	-						"	
3	9-20	"	.50	.15	.40	.20	.06	.6				1	0	1/6	271 666	
4	9-22	"	.50	.15	.40	.04	.06	.6				1	0	"	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Rating table for Puddingstone Creek

Below Flood Control Dam 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.
.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		.26	.89										
.07	.12		.27	.94										
.08	.15		.28	.98										
.09	.15		.29	1.07										
.10	.21		.30	1.12										
.11	.25		.31	1.16										
.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 oippoletti weir table used. Seepage and underflow at weir will balance measurements showing lower discharges.

Computed by M. Rupert
Checked by J.L. Irwin/28/31
Date July 10, 1929

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of **Puddingstone** ~~River~~ **Creek**

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Below/Dam

for the Year Ending September 30, 1930

C. L. Brewster [Observer.]

Gage Read to Continuous ~~Day~~

Used rating table dated Oct. 1, 1929-Sept. 30, 1930

Drainage Area 32.71 Square Miles.

Maximum stage .36 feet at 6 p.m. on May 3
Minimum stage 1.45 second-feet Discharge

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	02	02	02	02	03	04	04	05	04	05	04	05	04	05	15	39	02	02	02	02	0	0	02	02	1	
2	02	02	02	02	03	04	04	05	04	05	04	05	04	05	10	21	02	02	02	02	0	0	02	02	2	
3	02	02	02	02	04	05	03	04	04	05	04	05	04	05	20	60	02	02	02	02	0	0	02	02	3	
4	02	02	02	02	04	05	02	02	04	05	04	05	04	05	18	51	02	02	02	02	0	0	01	01	4	
5	02	02	02	02	04	05	02	02	04	05	04	05	03	04	14	35	02	02	02	02	01	01	04	05	5	
6	02	02	02	02	04	05	03	04	04	05	04	05	03	04	09	18	02	02	02	02	02	02	04	05	6	
7	02	02	02	02	03	04	02	02	04	05	04	05	03	04	08	15	02	02	02	02	02	02	04	05	7	
8	02	02	02	02	03	02	02	02	04	05	03	04	03	04	10	21	02	02	02	02	02	02	04	05	8	
9	02	02	02	02	02	02	02	02	04	05	03	04	04	05	08	15	02	02	02	02	02	02	04	05	9	
10	02	02	02	02	02	02	02	02	04	05	03	04	04	05	06	10	02	02	02	02	01	01	04	05	10	
11	02	02	02	02	02	02	08	15	04	05	03	04	04	05	06	10	02	02	02	02	01	01	04	05	11	
12	02	02	02	02	02	02	08	15	04	05	03	04	04	05	05	08	02	02	01	01	01	01	04	05	12	
13	02	02	02	02	02	02	05	08	04	05	03	04	04	05	05	03	02	02	00	00	01	01	04	05	13	
14	02	02	02	02	02	02	06	10	04	05	09	18	04	05	05	08	02	02	00	00	01	01	04	05	14	
15	02	02	02	02	02	02	14	35	04	05	14	35	04	05	04	05	02	02	00	00	02	02	04	05	15	
16	02	02	02	02	02	02	06	10	04	05	10	21	04	05	03	04	02	02	00	00	02	02	04	05	16	
17	02	02	02	02	02	02	05	08	04	05	06	10	04	05	02	02	02	02	00	00	02	02	04	05	17	
18	02	02	02	02	02	02	05	08	03	04	05	08	08	15	02	02	02	02	00	00	02	02	04	05	18	
19	02	02	02	02	02	02	05	08	03	04	05	08	06	10	02	02	02	02	00	00	01	01	04	05	19	
20	02	02	02	02	02	02	04	05	04	05	05	08	04	05	02	02	02	02	01	01	01	01	04	05	20	
21	02	02	02	02	02	02	04	05	04	05	04	05	04	05	02	02	02	02	02	02	00	00	04	05	21	
22	02	02	02	02	02	02	03	04	04	05	04	05	04	05	02	02	02	02	02	02	00	00	04	05	22	
23	02	02	02	02	02	02	03	04	04	05	03	04	04	05	02	02	02	02	02	02	01	01	04	05	23	
24	02	02	02	02	02	02	03	04	04	05	03	04	04	05	02	02	02	02	02	02	01	01	04	05	24	
25	02	02	02	02	02	02	03	04	04	05	02	02	04	05	02	02	02	02	02	02	00	00	04	05	25	
26	02	02	02	02	02	02	02	02	04	05	02	02	04	05	02	02	02	02	02	02	00	00	04	05	26	
27	02	02	02	02	02	02	04	05	04	05	02	02	04	05	02	02	02	02	02	02	00	00	04	05	27	
28	02	02	02	02	03	04	04	05	04	05	03	04	04	05	02	02	02	02	02	02	00	00	05	08	28	
29	02	02	02	02	03	04	03	04	04	05	04	05	04	05	02	02	02	02	02	01	01	00	00	05	08	29
30	02	02	02	02	03	04	03	04	04	05	04	05	11	25	02	02	02	02	00	00	00	00	05	08	30	
31	02	02			04	05			04	05			-		02	02	-		00	00	01	01	-	-	31	

Quarter First Second Third Fourth
 R.L.R.L. R.L.R.L. R.L.R.L. R.L.R.L.
 J.L. Irwin J.L. Irwin J.L. Irwin J.L. Irwin
 Date 1/28/31 1/28/31 1/28/31 1/28/31

TOTAL,	.62	.60	.89	1.93	1.38	2.07	1.81	3.58	.60	.41	.27	1.46	15.62
Mean Daily Discharge in Second-foot	.02	.02	.029	.054	.049	.069	.079	.15	.025	.017	.011	.058	
Second-foot per square mile													
Run-off, depth in inches													
Run-off in acre-feet	1.93	1.19	1.77	3.83	2.74	4.15	3.57	7.10	1.19	.81	.54	2.90	30.42
Maximum Mean Daily Discharge in Second-foot	.02	.02	.05	.35	.05	.35	.25	.60	.02	.02	.02	.08	
Minimum Mean Daily Discharge in Second-foot	.02	.02	.02	.02	.02	.02	.04	.02	.02	.00	.00	.01	

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 40

Monthly discharge of **Puddingstone**

**River
Creek**

at **Below Flood Control Dam** for the year ending Sept. 30, 19**30**
near

(Drainage area **32.71** 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	.02	.02	.02			1.23	
November	.02	.02	.02			1.19	
December	.05	.02	.03			1.77	
January	.35	.02	.05			3.83	
February	.05	.02	.05			2.74	
March	.35	.02	.07			4.15	
April	.25	.04	.08			3.57	
May	.60	.02	.15			7.10	
June	.02	.02	.02			1.19	
July	.02	0	.02			0.81	
August	.02	0	.01			0.54	
September	.08	01	.06			2.90	
The year period						30.42	

NOTE:

RIO HONDO SLOUTH AT SAN GABRIEL BLVD. BRIDGE.

Location

On west abutment, upstream side of San Gabriel Boulevard bridge across Rio Hondo Slough.

Drainage

Of seepage and rising water.

Installed by

Los Angeles County Flood Control District, recorder established June 14, 1930. Weekly measurements interpolated for daily flow previously.

Records Available

July 2, 1928 to September 30, 1930.

Gage

Rational, 7 day water stage recorder in shelter house on top of corrugated iron stilling well on bridge abutments.

Discharge measurements

High flows measured from bridge.
Low flows measured by wading.

Channel and Control

Sand banks overgrown with weeds.
No control.

Extreme measurements

Maximum 19.69 c.f.s. on February 3, 1930.
Minimum 13.52 c.f.s. on September 12, 1930.

Diversion

None.

Accuracy

Good.

Diversion

None.

Cooperation

Located, installed and operated by L.A.C.F.C.D.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 03

Discharge measurements of Rio Hondo Slough

~~Winter~~
~~Channel~~

at San Gab. Blvd. Bridge

, during the year ending September 30, 1930

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.	Meas- ures No.	G. Ht. change Total	Time Hours	Meter No.
	1929												271
1	10-4	Brewster	10.0	7.81	2.32	7.89	18.10		.6	10		1/3	666
2	10-11	"	10.0	8.26	2.22	7.90	18.40		.6	10		1/3	"
3	10-18	"	10.0	7.91	2.25	7.90	17.79		.6	10		1/4	"
4	10-25	"	10.0	7.42	2.25	7.88	16.68		.6	10		1/4	"
5	11-1	Harting	9.3	7.63	2.38	7.88	18.16		.6	11		1/4	271 655 282
6	11-8	"	9.5	7.66	2.17	7.89	16.63		.6	10		1/3	883
7	11-15	"	9.5	8.11	2.22	7.88	18.03		.6	10		1/4	"
8	11-22	"	2.5	7.79	2.22	7.90	17.33		.6	10		1/4	"
9	11-29	"	8.5	7.72	2.21	7.90	17.07		.6	10		1/6	"
10	12-6	"	9.5	7.95	2.24	7.90	17.88		.6	10		1/3	"
11	12-13	"	9.4	7.47	2.42	7.88	18.11		.6	10		1/4	"
12	12-20	"	2.5			7.87	18.26		.6	10		1/6	"
13	12-27	"	9.7	7.48	2.41	7.87	18.05		.6	10		1/6	"
14	1-3	Brewster	10.0	7.64	2.15	7.86	16.42		.6	10		1/4	271 666 282
15	1-31	Harting	10.0	2.90	2.49		19.61		.6	10		1/4	883
16	2-7	"	9.4	2.89	2.51		19.77		.6	10		1/4	"
17	2-14	Brewster	10.0	7.69	2.38	7.90	16.33		.6	10		1/3	271 666
18	2-21	Brewster - Remman	10.0	7.67	2.47	7.90	18.94		.6	10		1/6	"
19	3-7	Brewster - Lindsay	10.0	7.43	2.41	7.88	17.94		.6	10		1/6	"
20	3-28	Brewster	10.0	8.69	2.05	7.95	17.78		.6	10		1/4	"
21	4-4	"	10.0	8.31	2.25	7.92	18.67		.6	10		1/5	"
22	4-11	"	11.2	8.59	1.99	7.95	17.11		.6	11		1/4	"
23	4-18	"	10.0	7.22	2.42	7.96	17.48		.6	10		1/4	"
24	4-25	"	10.0	6.99	2.32	7.85	16.23		.6	10		1/5	"
25	5-2	"	10.0	8.02	2.06	7.94	16.56		.6	10		1/3	"
26	5-9	"	10.0	8.50	2.17	7.95	18.48		.6	10		1/3	"
27	5-16	"	10.0	8.04	2.13	7.92	17.09		.6	10		1/3	"
28	5-23	"	10.0	7.25	2.37	7.85	17.18		.6	10		1/4	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 83

Discharge measurements of Rio Hondo Slough

River
~~Slough~~

at San Gabriel Boulevard Bridge during the year ending September 30, 1930

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. No.	G. Hg. change	Time	Meter No.
			Feet	Sq. Ft.	Ft. per sec.	Feet	Sec-ft.	Percent diff.	No.	Total	Hours			
	1929													271
29	5-29	Brewster	10.0	7.88	2.22	7.89	17.48	.6			10		1/3	666
30	6-6	"	10.0	7.61	2.17	7.86	16.51	.6			10		1/3	"
31	6-13	"	10.0	7.36	2.20	7.85	16.22	.6			10		1/3	"
32	6-20	"	10.0	7.27	2.35	7.84	17.12	.6			10		1/3	"
33	6-27	"	10.0	9.19	1.68	.98	15.46	.6			10		1/3	"
34	7-3	"	10.0	8.01	1.90	.93	15.21	.6			10		1/3	"
35	7-11	"	10.0	8.33	1.90	.92	15.86	.6			10		1/3	"
36	7-18	"	10.0	7.75	1.87	.80	14.50	.6			10		1/3	"
37	7-25	"	10.0	7.51	1.92	.80	14.41	.6			10		1/3	"
38	8-1	"	10.0	9.12	1.71	.92	15.59	.6			10		1/3	"
39	8-8	"	10.0	9.41	1.65	.94	15.49	.6			10		1/3	"
40	8-15	"	10.0	9.08	1.61	.91	14.61	.6			10		1/3	"
41	8-22	"	10.0	9.17	1.63	.91	14.94	.6			10		1/3	"
42	8-29	"	10.0	8.47	1.64	.85	13.92	.6			10		1/3	"
43	9-4	Lindsay	10.4	8.90	1.59	.87	14.16	.6			6		1/6	282 883 271
44	9-19	Brewster	10.0	7.24	2.18	.75	15.75	.6			10		1/3	666
45	9-26	"	10.0	7.13	2.31	.76	16.49	.6			10		1/3	"

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 83

Rating table for Rio Hondo Slough at San Gabriel Blvd. Bridge

from June 22, 1930 to Sept. 30, 1930

Gage height	Discharge	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference	Gage height	Discharge	Difference
Feet	Sec-ft.	Feet	Sec-ft.	Sec-ft.	Feet	Sec-ft.	Sec-ft.	Feet	Sec-ft.	Sec-ft.	Feet	Sec-ft.	Sec-ft.
		.90	15.25										
		1	15.44	.19									
.72	13.05		2	15.63									
	3	13.13	.08	3	15.82								
	4	13.21		4	16.01								
	5	13.30		5	16.20								
	6	13.41	.11	6	16.42	.22							
	7	13.52		7	16.64								
	8	13.63		8	16.84								
	9	13.74		9	17.08								
.80	13.85		1.00	17.30									
	1	13.98	.15										
	2	14.11											
	3	14.24											
	4	14.37											
	5	14.50											
	6	14.65	.15										
	7	14.80											
	8	14.95											
	9	15.10											

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
 Checked by
 Date

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

At San Gabriel Blvd. Bridge for the Year Ending September 30, 1930

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

File No. 83

Drainage Area Square Miles. Brewster [Observer.]

Gage Read to Continuous One Twice a Day.

Used rating table dated

Main data table with columns for months (OCTOBER to SEPTEMBER), days (1-31), gage height, discharge, and quarter. Includes handwritten notes on the left and right margins.

Vertical text on the left margin: second-foot, second-foot, Discharge, Discharge, on, on, feet at, feet at, Maximum stage, Minimum stage.

Vertical text on the right margin: DAY, Quarter, First, Second, Third, Fourth, Date, G. H. Copied, G. H. checked, Disch. applied, Disch. checked, U. V. S. E., F. E. B., F. E. B., PERIOD YEAR.

Summary table with rows for TOTAL, Mean Daily Discharge in Second-foot, Second-foot per square mile, Run-off, depth in inches, Run-off in acre feet, Maximum Mean Daily Discharge in Second-foot, and Minimum Mean Daily Discharge in Second-foot.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 83

Monthly discharge of

Rio Hondo Slough

River
Creek

at
near

San Gabriel Blvd. Bridge

for the year ending Sept. 30, 19 30

(Drainage area square miles)

MONTH	DISCHARGE IN SECONDS PER				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total acre feet	
October	18.34	16.68	17.77			1092.83	
November	18.16	16.63	17.40			1035.29	
December	18.11	17.13	17.84			1096.82	
January	19.61	16.42	17.97			1104.65	
February	19.69	18.33	19.00			1055.36	
March	18.38	17.78	17.93			1102.53	
April	18.67	16.23	17.30			1029.38	
May	18.48	16.52	17.37			1067.74	
June	17.11	14.54	16.10			958.25	
July	16.86	13.85	15.34			943.30	
August	16.01	13.74	14.82			911.19	
September	16.20	13.82	14.98			891.15	
The year period						12,288.49	

NOTE:

RIO HONDO ABOVE 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, Cal.

Drainage Area

349.9 square miles.

Installed by

L. A. County Flood Control District July 1928.
Originally installed by the D.W.R. in 1923-1924

Records Available

July 1928 to Sept. 30, 1930 at L.A.C.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 1260 c.f.s. March 15, 1930.
Minimum 5.88 c.f.s. Sept. 4, 1930.

Diversions

None above gage.

Regulation

None.

Accuracy

Fair.

Cooperation

Operated by L.A.C.F.C.D. in cooperation with the U.S.G.S Water Resources Branch.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 64

Discharge measurements of Rio Hondo above

**MISSION
CREEK**

**XX
MEMO**

Mission Bridge

during the year ending September 30, 1930

No.	Date	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.-ft.	Rating Method Coeff.	Meas. No.	G. H. change	Time Hours	Meter No.
	1929											271
1	10-4	Brewster	52	8.6	1.03	1.41	8.94	.6	9		1/3	666
2	10-11	"	52	10.6	1.53	1.42	14.19	.6	9		1/3	"
3	10-16	"	52	10.1	1.15	1.42	11.31	.6	9		1/3	"
4	10-25	"	29	6.8	.95	1.38	6.51	.6	8		1/5	"
5	11-1	Harting	24	8.9	1.51	1.40	11.60	.6	17		1/2	271 655
6	11-8	"	26	8.5	1.29	1.40	11.06	.6	16		1/5	283
7	11-8	"	22	9.8	1.20	1.45	11.32	.6	19		1/2	"
8	11-15	"	26	9.4	1.33	1.42	12.51	.6	21		1/3	"
9	11-22	"	26	10.0	1.14	1.42	11.40	.6	16		1/2	"
10	11-29	"	26	9.8	1.17	1.43	11.53	.6	16		3/4	"
11	12-6	"	26	9.4	1.22	1.40	11.42	.6	17		1/2	"
12	12-12	"	27	10.0	1.52	1.42	15.27	.6	17		1/3	"
13	12-20	"	28	10.3	1.26	1.47	15.00	.6	15		1/3	"
14	12-27	"	28	11.7	1.54	1.49	17.41	.6	17		1/3	"
15	1-3	"	29	11.2	1.32	1.52	14.75	.6	9		1/2	271 666
16	1-5	Harting--Haird	55	49.4	1.02	2.27	51.00	.6	11		1/2	283
17	1-11	" "	63	82.0	1.35	2.62	236.00	.6	13		1/2	"
18	1-15	" "	65	102.2	5.45	2.73	553.00	.6	13		1/2	"
19	1-24	Harting	34	11.6	1.25	1.22	14.66	.6	17		1/3	"
20	1-31	"	50	10.9	1.30	1.18	14.22	.6	14		1/3	"
21	2-7	"	46	10.4	1.28	1.18	13.30	.6	16		1/3	"
22	2-14	Brewster	33	9.3	1.45	1.18	11.52	.6	9		1/2	271 666
23	2-21	Brewster-Neuman	13	6.9	1.33	1.18	9.12	.6	8		1/3	"
24	2-27	Brewster-Lindsay	13	6.9	1.96	1.22	14.31	.6	11		1/2	"
25	2-14	" "	9	8.6	1.91	1.20	16.47	.6	9		1/2	"
26	2-14	Lindsay--Haird	41	37.0	2.06	1.81	76.10	.6	11		1/2	283 666
27	2-14	" "	90	89.3	2.21	2.46	194.40	.6	11		1/3	"
28	2-15	" "	100	132.0	5.09	3.16	673.00	.6	9		1/3	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 64

**River
Creek**

Discharge measurements of Rio Hondo

above
~~at~~ Mission Bridge

, during the year ending September 30, 1930

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.	No.	G. H. change	Time Hours	Water Temp.
	1929													28.2
29	3-16	Lindsay-Haird	50	49.8	2.23	1.85	110.80	.6			10		1/2	666 271
30	3-28	Brewster	29	17.1	1.38	1.28	18.21	.6			9		1/2	666 271
31	3-7	Brewster-Lindsay	22	11.0	1.57	1.18	17.26	.6			9		1/3	666 271
32	4-4	Brewster	29	11.0	1.29	1.20	14.17	.6			10		1/2	666 271
33	4-11	"	26	9.9	1.33	1.22	13.21	.6			11		1/2	666 271
34	4-18	"	28	8.9	1.44	1.18	12.94	.6			10		1/5	666 271
35	4-25	"	21	8.2	1.41	1.20	11.49	.6			10		1/2	666 271
36	5-2	"	26	10.2	1.26	1.20	12.73	.6			11		1/3	666 271
37	5-9	"	27	8.6	1.29	1.10	11.04	.6			10		1/2	666 271
38	5-16	"	24	9.1	1.36	1.11	12.33	.6			10		1/2	666 271
39	5-23	"	25	10.0	1.36	1.12	13.90	.6			10		1/2	666 271
40	5-29	"	24	9.1	1.49	1.10	13.60	.6			9		1/2	666 271
41	5-2	Lindsay-Haird	48	42.7	2.25	1.72	97.38	.6			12		1/3	666 271
42	5-4	" "	62	101.7	4.54	2.38	461.46	.6			8		1/2	666 271
43	6-0	Brewster	22	8.7	1.52	1.10	13.23	.6			8		1/2	666 271
44	6-13	"	21	9.9	1.35	1.12	13.42	.6			9		1/3	666 271
45	6-20	"	21	8.2	1.39	1.12	11.44	.6			10		1/5	666 271
46	6-27	"	20	6.9	1.36	1.08	9.49	.6			10		1/2	666 271
47	7-3	"	20	6.4	1.49	1.08	9.52	.6			9		1/3	666 271
48	7-11	"	19	6.9	1.28	1.06	8.76	.6			9		1/2	666 271
49	7-18	"	20	7.2	1.36	1.04	9.68	.6			10		1/3	666 271
50	7-25	"	22	8.2	1.33	1.05	10.80	.6			9		1/3	666 271
51	8-1	"	22	7.5	1.11	1.00	8.29	.6			9		1/3	666 271
52	8-8	"	24	8.3	1.27	1.02	10.63	.6			9		1/3	666 271
53	8-15	"	22	7.5	1.28	1.00	9.53	.6			8		1/3	666 271
54	8-22	"	26	6.8	1.23	.96	8.44	.6			9		1/3	666 271
55	8-29	"	26	6.8	1.31	.96	8.27	.6			10		1/3	666 271
56	9-4	"	18	5.0	1.19	.92	5.90	.6			7		1/2	666 271

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 64

Low Flow

Rating table for Rio Hondo above Mission

Bridge from Jan. 5, 1930 to Oct. 1, 1930

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.
.80	2.50	.25	1.00	8.90	.43	.20	18.40	.54						
.81	2.75		.01	9.33		.25	21.10							
.82	3.00		.02	9.76		.30	23.80							
.83	3.25		.03	10.19		.35	26.50							
.84	3.50		.04	10.62		.40	29.20							
.85	3.75	.29	.05	11.05	.45	.45	31.90							
.86	4.04		.06	11.50		.50	34.60							
.87	4.33		.07	11.95		.55	37.30							
.88	4.62		.08	12.40		.60	40.00							
.89	4.91		.09	12.85		.65	42.70							
.90	5.20	.34	.10	13.30	.48	.70	45.40							
.91	5.54		.11	13.78		.75	48.10							
.92	5.88		.12	14.26		.80	50.80							
.93	6.22		.13	14.74		.85	53.50							
.94	6.56		.14	15.22		.90	56.20							
.95	6.90		.15	15.70	.54	.95	58.90							
.96	7.30		.16	16.24		2.00	61.60							
.97	7.70		.17	16.78		.05	64.30							
.98	8.10		.18	17.32		.10	67.00							
.99	8.50		.19	17.86		.15	69.00							

The above table is not applicable for obstructed channel conditions. It is based on 58 measurements made during discharge

and is well defined between 6 second feet and 673 second feet.

Computed by
Checked by JLI & FB
Date 2/25/31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

High Flow

File No. 64

Rating table for Rio Hondo - above Mission Bridge

Mission Bridge			, from Oct. 1, 1929, to Sept. 30, 1930.														
Gage height	Discharge	Difference	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.	Feet	Sec.-ft.	Sec.-ft.
						3.00	517										
					1.40			9.6									
					1.50	.05	565										
					1.60	.10	615	10.0									
					1.80	.15	665	10.0									
			2.15	69.	2.20	.15	665	10.0									
					.80	.20	715	10.4									
					.25	.25	767	10.6									
					.30	.30	820	11.0									
					.35	.35	875	11.0									
					.40	.40	930	11.0									
					.45	.45	985	11.0									
					.50	.50	1040										
					.55	.60	1150										
					.60	.70	1260										
					.65	.80	1370										
					.70	.90	1480										
					.75	1.00	1590										
					.80												
					.85												
					.90												
					.95												
						9.0											

The above table is not applicable for obstructed channel conditions. It is based on 58 discharge measurements made during

and is well defined between 6. second-feet and 673. second-feet.

Computed by
Checked by F.F.A J.L.I.
Date 10/28/31

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

Above Mission Bridge for the Year Ending September 30, 1930

Drainage Area 350 Square Miles.

R. Lindsay [Observer.]

Gage Read to continuous

Used rating table dated

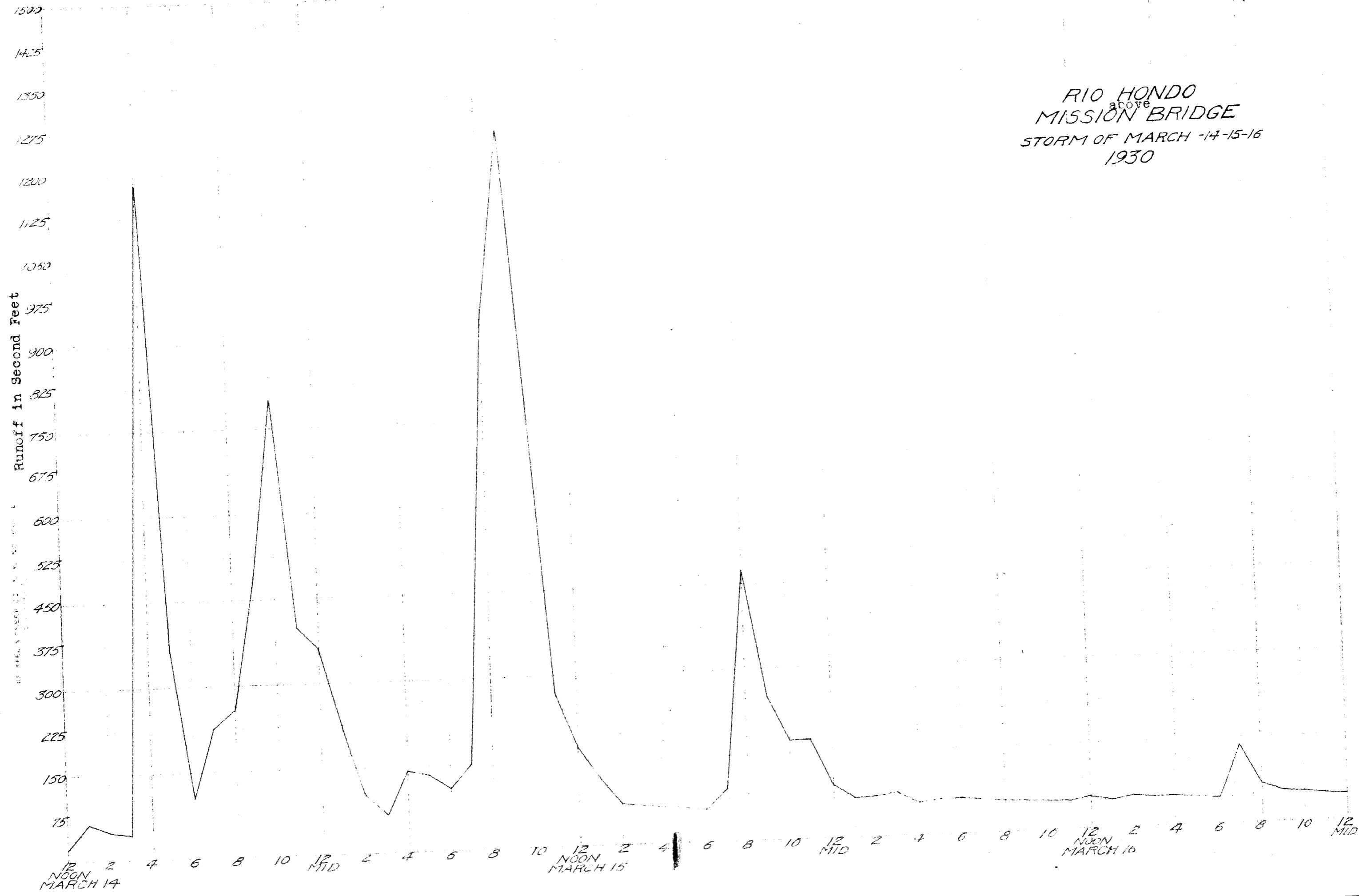
Maximum stage 3.70 feet at 9 AM on March 15 1930. Discharge 1260. Second-foot. Minimum stage 0.22 feet at 10 PM on Sept. 4 1930. Discharge 5.58 Second-foot.

Table with columns for months (OCTOBER to SEPTEMBER) and days (1-31). Each day has two columns for Gage height and Discharge. Includes handwritten notes like 'H' and 'F' in discharge columns.

Summary table with rows for TOTAL, Mean Daily Discharge in Second-foot, Second-foot per square mile, Run-off, depth in inches, Run-off in acre-feet, Maximum Mean Daily Discharge in Second-foot, and Minimum Mean Daily Discharge in Second-foot.

Vertical text on the right side: DAY, Quarter, First, Second, Third, Fourth, Date, Jan. 5, 1931, Fred B. & J. I., G. H. Copied, G. H. checked, Disch. applied, Disch. checked, W. R., Computed, Checked, Date, Jan. 5, 1931.

RIO HONDO
 MISSION BRIDGE
 STORM OF MARCH -14-15-16
 1930



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 64

Monthly discharge of Rio Hondo

~~XXXX~~
~~XXXX~~

~~XX~~
~~XX~~

above Mission Bridge

for the year ending Sept. 30, 1930

(Drainage area 349.9 square miles)

MONTH	DISCHARGE IN SECONDS			Per square mile	Depth in inches on drainage area	Total in acre feet	Accuracy
	Maximum	Minimum	Mean				
October	17.44	8.69	13.71			841.05	
November	16.22	13.59	15.12			899.71	
December	18.28	14.33	16.37			946.60	
January	201.79	14.70	44.63			2743.30	
February	16.24	10.19	14.80			821.68	
March	251.67	15.22	35.60			2188.26	
April	17.86	14.74	15.67			932.43	
May	57.10	14.74	17.34			1066.14	
June	15.22	11.50	13.51			803.96	
July	13.30	10.19	12.15			747.35	
August	12.85	10.19	11.47			705.55	
September	14.74	8.50	12.27			730.31	
The year period						13426.35	

NOTE:

RIO HONDO AT STEWART & GRAY ROAD BRIDGE

Location

On highway bridge over Rio Hondo at Stewart and Gray Road about $1\frac{1}{2}$ miles west of Downey, Los Angeles County, Cal. and $\frac{1}{2}$ mile above junction with Los Angeles River.

Drainage Area

373.64 square miles.

Installed by

State Division of Water Rights of Cal. 1923.

Reestablished By

Los Angeles County Flood Control District - 1927.

Records Available

Some previous records in Bulletin #5. California State Div. of Water Rights, San Gabriel Investigation. Records from Mar. 1, 1928 to Sept. 30, 1930 available at L.A. County Flood Control District.

Gage

Rational 7 day water state 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 ft. above bridge. Low water measurements by wading near gage.

Channel and Control

Channel - sandy, rock riprap banks,
Control - none.

Extremes of Discharge

743 c.f.s. March 15, 1930.
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.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

Discharge measurements of

RIO HONDO

River
Creek

at Steward & Gray Road Bridge
near

during the year ending September 30, 1930.

No.	Date	Made by	Width		Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. Secs.	G. H. change	Time	Meter
			Feet	Sq.-ft.										
1929														
1	10-4	L. W. Jordan	4.2	.98	.97	5.07	.95			.6	4	0	1/6	271 636
2	10-11	"	10.7	3.39	1.06	5.85	3.60			.6	10	.02	1/3	"
3	10-18	"	5.5	1.15	.91	5.04	1.05			.6	6	0	1/6	"
4	10-25	"	1.5	.20	.20	4.90	.04			.6	3	0	1/6	"
5	11-1	"	4.3	1.00	.76	5.07	.76			.6	4	0	1/4	"
6	11-8	"	5.2	1.44	.84	5.13	1.21			.6	6	0	1/6	288 960
7	11-15	"	5.0	1.70	.36	5.47	.62			.6	5	0	1/6	"
8	11-22	"	6.7	2.52	1.05	5.68	2.65			.6	7	0	1/6	"
9	11-29	C. E. Bollinger	6.4	2.92	0.74	5.60	2.15			.6	7	0	1/4	271 650
10	12-6	L. W. Jordan	7.4	4.42	.89	5.72	3.95			.6	7	0	1/6	282 962
11	12-13	Jordan-Fenwick	4.4	.94	.98	5.51	.92			.6	3	0	1/6	"
12	12-20	L W Jordan	2.5	.27	.41	5.38	.11			.6	3	0	1/6	"
1930														
13	1-4	"	1.5	.20	.55	5.42	.11			.6	2	0	1/6	"
14	1-7	"	25.0	25.4	.82	6.14	20.7			.6	13	.05	2/3	"
15	1-10	Jordan-Crittenden	89.0	124.8	1.80	6.90	224.7			.6	10	.30	3/4	"
16	1-15	L W Jordan	64.3	65.3	2.31	6.66	150.9			.6	20	.04	11/12	"
17	1-17	"	3.5	.57	.54	5.20	.31			.6	3	0	1/6	"
18	3-14	"	97.0	157.62	2.74	7.35	432.0			.6	10	.10	1	"
19	4-18	"	5.2	1.20	.83	5.00	1.00			.6	6	0	1/6	"
20	5-16	"	3.6	.50	.31	4.94	1.67			.6	6	0	1/6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

STATION 11A
Low Stage

Rating table for Rio Honda - Stewart and Gray Road Bridge

, from March 14, 1930, to April 11, 1930.

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.
4.60	0		.80	.28		5.00	.76		5.20	2.01		5.40	4.51	
.61	.01	.015	.81	.30	.022	.01	.79	.027	.21	2.12		.41	4.70	.16
.62	.03		.82	.32		.02	.81		.22	2.23		.42	4.85	
.63	.04		.83	.34		.03	.84		.23	2.33		.43	5.01	
.64	.05		.84	.37		.04	.86		.24	2.44		.44	5.16	
.65	.06		.85	.39		.05	.89		.25	2.55		.45	5.31	
.66	.07		.86	.41		.06	.92		.26	2.67		.46	5.46	
.67	.09		.87	.43		.07	.95		.27	2.79		.47	5.62	
.68	.10		.88	.45		.08	.98		.28	2.92		.48	5.77	
.69	.11		.89	.47		.09	1.05		.29	3.04		.49	5.93	
.70	.12	.016	.90	.50	.026	.10	1.12		.30	3.16		.50	6.08	
.71	.13		.91	.52		.11	1.20		.31	3.29		.51	6.24	
.72	.15		.92	.55		.12	1.29		.32	3.43		.52	6.41	
.73	.16		.93	.57		.13	1.37		.33	3.56		.53	6.57	
.74	.18		.94	.60		.14	1.46		.34	3.70		.54	6.74	
.75	.19		.95	.62		.15	1.54		.35	3.83		.55	6.90	
.76	.21		.96	.65		.16	1.63		.36	3.97		.56	7.06	
.77	.22		.97	.67		.17	1.73		.37	4.12		.57	7.23	
.78	.24		.98	.70		.18	1.82		.38	4.26		.58	7.39	
.79	.26		.99	.73		.19	1.92		.39	4.41		.59	7.56	
									.60	7.72				

The above table is not applicable for obstructed channel conditions. It is based on 16 discharge measurements made during 1929-1930

and is fairly well defined between 0 second-feet and 8.0 second-feet.

above G. H. 5.07 is taken from Curve #1

Computed by M. Pupert

Checked by J. Luce 5/10/30
Rechecked by JLI 2/11/31
Date May 9, 1930

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

Curve #1
Low Stage

File No. 45

Rating table for Rio Hondo - Stewart and Gray Rd.

Bridge from Oct. 1, 1929, to Nov. 13, 1929.

Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.	Gage height Feet	Discharge Sec.-ft.	Differ- ence Sec.-ft.
4.88	0	.025	5.08	.98		5.28	2.92		5.48	5.77				
.89	.02		.09	1.05		.29	3.04		.49	5.93				
.90	.05	.04	.10	1.12	.084	.30	3.16	.134	.50	6.08	.164			
.91	.09		.11	1.20		.31	3.29		.51	6.24				
.92	.13		.12	1.29		.32	3.43		.52	6.41				
.93	.17		.13	1.37		.33	3.56		.53	6.57				
.94	.21		.14	1.46		.34	3.70		.54	6.74				
.95	.25	.05	.15	1.54	.094	.35	3.83	.144	.55	6.90	.164			
.96	.30		.16	1.63		.36	3.97		.56	7.06				
.97	.35		.17	1.73		.37	4.12		.57	7.23				
.98	.40		.18	1.82		.38	4.26		.58	7.39				
.99	.45		.19	1.92		.39	4.41		.59	7.56				
5.00	.50	.056	.20	2.01	.108	5.41	4.55	.152	.60	7.72				
.01	.56		.21	2.12		.41	4.70							
.02	.61		.22	2.23		.42	4.85							
.03	.67		.23	2.33		.43	5.01							
.04	.72		.24	2.44		.44	5.16							
.05	.78	.068	.25	2.55	.122	.45	5.31	.154						
.06	.85		.26	2.67		.46	5.46							
.07	.92		.27	2.79		.47	5.62							

The above table is not applicable for obstructed channel conditions. It is based on 16 discharge measurements made during 1929-1930

and is fairly well defined between 0 second-feet and 8.0 second-feet.

Computed by M. Rupert
 Checked by J. Lyce 5/10/30
 Date May 9, 1930
 Rechecked by J. Irwin 2/11/31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

Curve #2
Low Stage

Rating table for

Rio Honda - Stewart and Gray Road

inclusive

Bridge from 8 am. Nov. 13, 1929 to Jan. 16, 1930

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.
5.20	0		5.40	.16		5.60	1.93		5.80	5.00				
.21	.01	.005	.41	.22	.06	.61	2.06	.134						
.22	.02		.42	.28		.62	2.20							
.23	.02		.43	.34		.63	2.33							
.24	.03		.44	.40		.64	2.47							
.25	.03		.45	.48	.08	.65	2.60							
.26	.04		.46	.56		.66	2.75	.15						
.27	.04		.47	.64		.67	2.90							
.28	.05		.48	.72		.68	3.05							
.29	.06		.49	.80		.69	3.20							
.30	.06		.50	.88	.06	.70	3.35	.154						
.31	.07		.51	.98		.71	3.50							
.32	.07		.52	1.07		.72	3.66							
.33	.08		.53	1.17		.73	3.81							
.34	.08		.54	1.26		.74	3.97							
.35	.09		.55	1.36	.114	.75	4.12	.176						
.36	.09		.56	1.47		.76	4.30							
.37	.10		.57	1.59		.77	4.47							
.38	.10		.58	1.70		.78	4.65							
.39	.11		.59	1.82		.79	4.82							

The above table is not applicable for obstructed channel conditions. It is based on 7 discharge measurements made during 1929-1930

and is fairly well defined between 0 second-feet and 5.0 second-feet.

Computed by M. Rupert

Checked by J. Luce 5/10/30

Date May 9, 1930

rechecked by J. L. Irwin
2/11/31

CUVE #5
Low Stage

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

Rating table for Rio Honda - Stewart and Gray Road

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.	Feet	Sec.-ft.	Sec.-ft.
5.00	0		5.20	.39		5.40	2.11		5.60	4.97		5.80	8.37				
	.01	.005	.21	.39	.07	.41	2.23	.124	.61	5.14	.166						
	.02		.22	.46		.42	2.36		.62	5.30							
	.03		.23	.53		.43	2.48		.63	5.47							
	.04		.24	.60		.44	2.61		.64	5.63							
	.05		.25	.68	.08	.45	2.73		.65	5.80							
	.06	.04	.26	.76		.46	2.87	.136	.66	5.97	.168						
	.07		.27	.84		.47	3.01		.67	6.14							
	.08		.28	.92		.48	3.14		.68	6.30							
	.09		.29	1.00		.49	3.28		.69	6.47							
	.10		.30	1.08		.50	3.42		.70	6.64							
	.11		.31	1.18	.096	.51	3.57	.146	.71	6.81	.172						
	.12		.32	1.27		.52	3.71		.72	6.98							
	.13		.33	1.37		.53	3.86		.73	7.16							
	.14		.34	1.46		.54	4.00		.74	7.33							
	.15		.35	1.56		.55	4.15		.75	7.50							
	.16		.36	1.67	.11	.56	4.31	.164	.76	7.67	.174						
	.17		.37	1.78		.57	4.48		.77	7.85							
	.18	.07	.38	1.89		.58	4.64		.78	8.02							
	.19	.25	.39	2.00		.59	4.81		.79	8.20							

The above table is not applicable for obstructed channel conditions. It is based on 16 discharge measurements made during 1929-1930

and is well defined between 0 second-feet and 8.0 second-feet.

Computed by M. Rupert

Checked by J. Luce 5/12/30

Rechecked by J. L. Irwin

Date May 9, 1930 2/11/31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

High Stage

Rating table for Rio Hondo - Stewart and Gray Road Bridge

, from Oct. 1, 1929, to Apr. 1, 1930

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.
7.80	686													
.82	698													
.84	710													
.86	722													
.88	734													
7.90	746													
.92	756	5.00												
.94	766													
.96	776													
.98	786													
8.00	800	7.00												

The above table is not applicable for obstructed channel conditions. It is based on 18 discharge measurements made during Oct. 4, 1929 - March 14, 1930.

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

Computed by M. Rupert
Checked by J. Lucas 5/12/30
Rechecked by J. I.
Date May 6, 1930 2/11/30

High Stage

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 45

Rating table for

Rio Hondo River - Stewart & Gray Road Bridge

from Oct. 1, 1929 to April 1, 1930

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.
5.80	5.0		6.20	41.4		6.60	128.		7.00	267.		7.40	461.	
.82	5.85	.425	.22	44.4		.62	134		.02	276		.42	472	5.50
.84	6.7	.425	.24	47.4		.64	140		.04	285		.44	483	
.86	7.6		.26	50.7	1.65	.66	145		.06	294		.46	494	
.88	8.5		.28	54.0		.68	152		.08	303		.48	505	
.90	9.8	.65	.30	57.3		.70	158		.10	312		.50	516	
.92	11.2	.70	.32	61.0	1.85	.72	164		.12	321		.52	527	
.94	12.6		.34	64.7		.74	170		.14	330		.54	538	
.96	14.3	.85	.36	68.4		.76	177		.16	339	3.50	.56	549	
.98	16.1	.90	.38	72.5	2.05	.78	184		.18	349		.58	560	5.00
6.00	17.9		.40	76.8	2.15	.80	191		.20	359		.60	571	
.02	19.7		.42	81.1		.82	198		.22	369		.62	582	
.04	21.5		.44	85.7	2.30	.84	205		.24	379		.64	593.	
.06	23.4		.46	90.3		.86	212		.26	389		.66	604	
.08	25.8	1.20	.48	95.0	2.35	.88	219		.28	399		.68	615	
.10	28.2		.50	100	2.50	.90	227		.30	409	4.00	.70	626	
.12	30.6		.52	105		.92	235		.32	419		.72	638	
.14	33.2	1.30	.54	110		.94	243		.34	429		.74	650	6.00
.16	35.8		.56	116	3.00	.96	251		.36	439		.76	662	
.18	38.4	1.50	.58	122		.98	259		.38	450	5.50	.78	674	

The above table is not applicable for obstructed channel conditions. It is based on 18 discharge measurements made during Oct. 4, 1929 - March 14, 1930.

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

Computed by **M. Rupert**
 Checked by **J. Luce 5/10/30**
 Rechecked by **Kiefer 2/11/31**
 Date **May 6, 1930**

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of

Rio Hondo

River
Creek

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

At Stewart and Gray Road Bridge

for the year Ending September 30, 1930
year Sept. 30, 1930

Drainage Area 142 Square Miles.

Jordan

Observer.]

Gage Read to Continuous One Twice a Day.

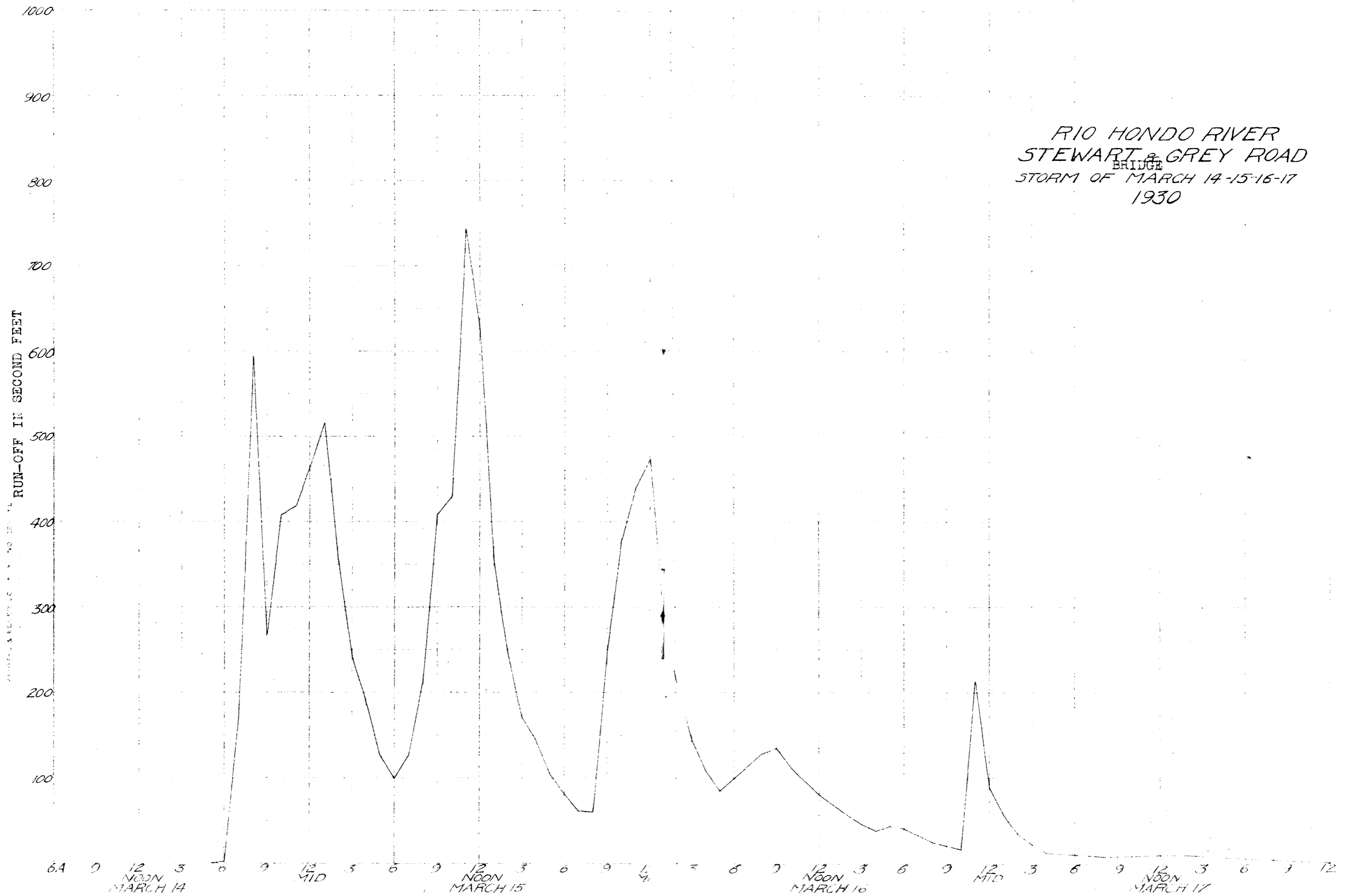
Used rating table dated May 6, 1930

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	5.05	.78	5.12	1.29	5.71	3.50	5.57	1.59	5.13	.08	4.98	Dry	4.65	.06	5.16	1.63	4.62	.03	-	Dry		Dry	Dry	1	
2	5.06	.85	5.09	1.05	5.62	2.20	5.59	1.82	5.12	.08	4.95	Dry	4.64	.05	5.16	1.63	-	Dry	-	Dry		Dry	"	2	
3	5.06	.85	5.10	1.12	5.52	1.07	5.52	1.07	5.11	.07	4.93	Dry	4.61	.01	5.07	.95	-	"						3	
4	5.02	.61	5.13	1.32	5.62	2.20	5.44	.40	5.10	.06	4.92	Dry	-	Dry	H	9.82	-	"						4	
5	5.04	.72	5.30	3.16	5.62	2.20	5.67	2.90	5.09	.06	H	9.1	-	Dry	H	10.19	-	"						5	
6	4.95	.25	5.38	4.26	5.68	3.05	5.54	1.26	5.07	.04	5.05	.03	-	Dry	4.92	.55	-	"						6	
7	4.99	.45	5.18	1.82	5.59	1.82	H	5.94	5.05	.03	4.97	Dry	-	Dry	4.77	.22	-	"						7	
8	5.05	.78	5.12	1.29	5.54	1.26	5.39	.11	5.05	.03	4.96	Dry	-	Dry	4.75	.19	-	"	Y		Y		Y	8	
9	5.05	.78	5.14	1.46	5.52	1.70	5.36	.09	5.05	.03	4.93	Dry	-	Dry	4.72	.15	-	"						9	
10	5.09	1.05	5.20	2.01	5.50	.88	H	36.7	5.05	.03	4.92	Dry	-	Dry	4.70	.12	-	"						10	
11	5.15	1.44	5.30	3.16	5.62	2.20	H	120.9	5.05	.05	4.87	Dry	-	Dry	4.65	.06	-	"						11	
12	5.21	2.12	5.16	1.63	5.63	2.33	H	43.6	5.05	.03	4.77	Dry	-	Dry	-	Dry	-	"						12	
13	5.32	3.43	5.18	.58	5.52	1.07	H	8.5	5.05	.03	4.64	Dry	-	Dry	-	Dry	-	"						13	
14	5.24	2.44	5.34	.08	5.62	2.20	5.37	.10	5.03	.02	H	87.0	4.92	.55	-	Dry	H	1.47		R		R	R	14	
15	4.95	.25	5.38	.10	5.58	1.70	H	85.6	5.04	.02	H	285.3	4.62	.03	-	Dry	4.73	.16		R		R	R	15	
16	4.92	.13	5.44	.40	5.52	1.07	H	3.4	5.03	.02	H	103.9	4.90	.50	H	.22	H	.22						16	
17	5.02	.61	5.38	.10	5.45	.48	5.23	.53	5.01	.01	H	14.87	4.83	.34	H	1.32	H	1.64						17	
18	5.26	2.67	5.42	.28	5.52	1.07	5.18	.18	5.00	Dry	4.93	.57	4.84	.37	H	1.71	H	.67						18	
19	5.12	1.29	5.44	.40	5.54	1.26	5.15	.10	4.98	Dry	4.84	.37	4.65	.06	H	2.66	4.77	.22						19	
20	5.02	.61	5.42	.28	5.40	.16	5.14	.09	5.02	.01	4.79	.26	4.50	Dry	5.32	3.43	4.77	.22						20	
21	5.01	.56	5.65	2.60	5.48	.72	5.13	.08	5.04	.02	4.75	.13	4.33	Dry	H	4.24	H	2.06						21	
22	4.90	.05	5.61	2.06	5.52	1.07	-	Dry	5.04	.02	4.75	.13	-	Dry	H	2.70	H	2.32		D		D	D	22	
23	5.16	1.63	5.48	.72	5.43	.34	-	Dry	5.27	.84	4.73	.16	-	Dry	H	.72	4.84	.37						23	
24	5.18	1.82	5.48	.72	5.57	1.59	-	Dry	5.20	.32	4.71	.13	-	Dry	H	.51	H	.54						24	
25	4.92	.13	5.51	.98	5.62	2.20	-	Dry	5.14	.09	4.69	.11	-	Dry	H	1.32	H	.65						25	
26	5.04	.72	5.53	1.17	5.67	2.90	-	Dry	5.08	.05	4.68	.10	4.83	.34	H	.93	4.73	.16						26	
27	5.23	2.33	5.58	1.70	5.52	1.07	5.26	.10	5.02	.01	4.67	.09	4.72	.15	4.87	.43	-	dry						27	
28	5.07	.92	5.66	2.75	5.43	.34	5.17	.11	Dry	-	4.66	.07	4.68	.52	4.91	.52	-	dry						28	
29	5.12	1.29	5.55	1.36	5.58	1.70	5.14	.09	-	-	4.66	.07	5.08	.55	4.92	.55	-	dry						29	
30	5.01	.56	5.72	3.66	5.57	1.59	5.14	.09	-	-	4.66	.07	5.13	1.37	H	.47	-	dry						30	
31	5.22	2.23	-	-	5.71	3.50	Dry	-	-	-	4.66	.07	-	-	4.85	-	-	-						31	
TOTAL,		34.45		44.01		50.44		315.35		2.03		502.64		4.90		47.74		10.73		Dry		Dry		Dry	
Mean Daily Discharge in Second-foot		1.11		1.47		1.64		10.18		.07		20.94		.16		1.52		.36							
Second-foot per square mile																									
Run-off, depth in inches																									
Run-off in acre-foot		63.33		87.29		100.05		625.49		4.05		995.74		9.71		93.70		21.28							
Maximum Mean Daily Discharge in Second-foot		3.43		4.26		3.50		120.9		0.84		285.3		1.37		10.19		2.32							
Minimum Mean Daily Discharge in Second-foot		.05		.08		.16		Dry		Dry		Dry		Dry		Dry		Dry							

Maximum stage 7.90 feet at 11 am on March 15
 Minimum stage Dry feet at various times during year
 Discharge 743.0 second-feet
 Discharge during year second-feet

Computed M. A. R.
 Checked M. A. R.
 Date 5/12/30 MAR
 Disch. applied M. A. R.
 Disch. checked M. A. R.
 Date 5/12/30 MAR
 G. H. Copied M. A. R.
 G. H. checked M. A. R.
 Date 5/12/30 MAR
 PERIOD YEAR

RIO HONDO RIVER
STEWART & GREY ROAD
BRIDGE
STORM OF MARCH 14-15-16-17
1930



**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

FD- No. ⁴⁵

Monthly discharge of **Rio Hondo**

**River
Creek**

at **Stewart & Gray Road Bridge**

for the year ending Sept. 30, 19 ³⁰

(Drainage area **37364** square miles)

MONTH	DISCHARGE IN SECONDS PER			RUNOFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area Total in acre feet	
October	3.43	.05	1.11		68.33	
November	4.26	.08	1.47		57.29	
December	3.50	.16	1.64		100.05	
January	120.9	0	10.18		628.49	
February	.84	0	.07		3.06	
March	285.3	0	20.94		995.71	
April	1.37	0	.16		9.71	
May	10.19	0	1.52		93.70	
June	2.32	0	.36		21.23	
July	0	0	0		0	
August	0	0	0		0	
September	0	0	0		0	
Total					2004.14	

NOTE:

RUBIO WASH BROADWAY STREET BRIDGE

Location

On the South end of bridge across Rubio Wash at Broadway Street. San Gabriel.

Drainage Area

13 square miles.

Installed by

Los Angeles County Flood Control District

Records Available

Stream measurements taken since November 1928.

Gage

Stevens type L, 3 day water stage recorder in wood shelter house on top of a corrugated iron pipe stilling well.

Discharge Measurements

Low water measurements taken by wading.
High water measurements taken from bridge.

Channel and Control

Concrete channel.

Extreme of Discharge

Maximum 660.60 c.f.s. March 14, 1930.
Minimum - dry at various times of year.

Diversions

None.

Control

Low water controlled by drop in channel bottom.

Accuracy

Fair

Cooperation

Located, installed, and operated by the Los Angeles County Flood Control District.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

123456

1100
1000

Discharge measurements of Rubio Wash

at **Broadway Street Bridge**, during the year ending September 30, 1950
near

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. No.	G. Ht. Total	Time Hours	Meter No.
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Percent dif.						
	1929													
1	1-5	Harting-Laird	24.0	7.97	8.94	.95	72.25		.6		11	.103/4	885	
2	1-9	" "	26.0	8.44	9.25	1.02	78.04		.6		10	.255/6	"	
3	1-11													
4	1-12	" "	26.0	29.6	11.90	1.37	353.70		.6		10	.25 1/8	"	
5	3-4	Lindsay--Laird	15.0	5.6	2.89	.42	10.40		.6		4	.03 1/6	"	
6	3-14		12.0	3.3	1.45	.38	4.80		.6		4	.0 1/12	"	
7	3-14		25.0	35.9	10.18	1.20	263.70		.6		8	.0 1/4	"	
8	3-14		25.0	15.0	1.29	.75	19.40		.6		6	.10 1/6	"	
9	3-14	" "	25.0	39.6	16.48	1.65	487.70		.6		8	.50 1/8	"	
10	3-15	" "	25.0	28.4	11.31	1.42	320.54		.6		8	.15 1/3	"	
11	3-15	" "	25.0	21.1	12.20	1.00	257.4		.6		8	.08 1/6	"	
12	4-30	Lindsay	24.9	11.6	4.40	.77	55.6		.6		7	.04 1/6	"	
13	5-2	Lindsay--Laird	25.0	20.95	11.4	.93	219.2		.6		6	.05 1/6	"	
14	5-4	" "	25.0	20.10	11.2	.95	224.8		.6		8	.10 1/6	"	
15	5-4	" "	25.0	25.00	12.5	1.10	311.6		.6		8	.20 1/6	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 82

Rating table for Rubio Wash - Broadway St. Bridge

from Oct. 1, 1929, to Sept. 30, 1930.

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	1.50	1.00	309.	5.20	2.00	960.							
.05	7.50	1.50	.05	335.	5.20									
.10	15.0	1.50	.10	361.	5.20									
.15	22.50	1.50	.15	387.	5.20									
.20	31.75	1.85	.20	413.	5.20									
.25	41.0	2.30	.25	440.	6.00									
.30	50.50	2.30	.30	470.	6.00									
.35	60.0	2.40	.35	500.	6.00									
.40	76.0	2.80	.40	530.	6.00									
.45	90.0	3.00	.45	560.	6.00									
.50	105.0	3.20	.50	590.	6.40									
.55	121.0	3.40	.55	622.	6.40									
.60	138.0	3.40	.60	654.	6.60									
.65	155.0	3.60	.65	687.	6.60									
.70	173.0	3.60	.70	720.	8.0									
.75	191.0	4.00	.75	760.	8.0									
.80	211.0	4.40	.80	800.	8.0									
.85	231.0	4.80	.85	840.	8.0									
.90	257.0	5.20	.90	880.	8.0									
.95	283.0	5.20	.95	920.	8.0									

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

and is well defined between 1/4 second feet and 3/4 second feet.

Computed by JLI
Checked by JLI-23 9/10/31
Date June 16, 1930

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 52

Rating table for **Ratio Wash - Broadway St. Bridge**

, from Oct. 1, 1952, to Oct. 30, 1953.

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	1.40	.20	31.75		.40	76.00		.60	117.0		.80	211.	
.01	1.50		.21	33.60	1.85	.41	78.5	2.20	.61	121.8	3.40	.81	215.4	4.40
.02	3.00		.22	35.45		.42	81.0		.62	124.8		.82	218.8	
.03	4.50		.23	37.30		.43	83.5		.63	127.8		.83	222.2	
.04	6.00		.24	39.15		.44	86.0		.64	130.8		.84	225.6	
.05	7.50		.25	41.00		.45	88.5		.65	133.8		.85	229.0	
.06	9.00	1.50	.26	42.85	2.30	.46	91.0	3.00	.66	136.8	3.60	.86	232.4	4.80
.07	10.50		.27	44.70		.47	93.5		.67	139.8		.87	235.8	
.08	12.00		.28	46.55		.48	96.0		.68	142.8		.88	239.2	
.09	13.50		.29	48.40		.49	98.5		.69	145.8		.89	242.6	
.10	15.00		.30	50.25		.50	101.0		.70	148.8		.90	246.0	
.11	16.50	1.50	.31	52.10	2.30	.51	103.5	3.20	.71	151.8	3.60	.91	249.4	4.80
.12	18.00		.32	53.95		.52	106.0		.72	154.8		.92	252.8	
.13	19.50		.33	55.80		.53	108.5		.73	157.8		.93	256.2	
.14	21.00		.34	57.65		.54	111.0		.74	160.8		.94	259.6	
.15	22.50		.35	59.50		.55	113.5		.75	163.8		.95	263.0	
.16	24.00	1.55	.36	61.35	2.40	.56	116.0	3.40	.76	166.8	4.00	.96	266.4	5.20
.17	25.50		.37	63.20		.57	118.5		.77	169.8		.97	269.8	
.18	27.00		.38	65.05		.58	121.0		.78	172.8		.98	273.2	
.19	28.50		.39	66.90		.59	123.5		.79	175.8		.99	276.6	

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

and is well defined between 4.80 second-feet and 487.0 second-feet.

Computed by
Checked by JUL - 52
Date 7/23/52

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of

Rio Wash

River
Creek

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 82

At Exendway St. Bridge

for the Year Ending September 30, 19 30

Drainage Area 13. Square Miles.

R. Lindsay

Observer.]

Gage Read to Continuous One a Day.

Used rating table dated.....

second-foot

second-foot

Discharge

Discharge

feet at 1:10 p.m. on 3/1/30

feet at

Maximum stage

Minimum stage

DRY VARIOUS TIMES DURING THE YEAR

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	Dry	H 3.70			Dry		Dry		Dry		Dry		1
2													2		H 14.17											2
3													3		H 62.54											3
4									Y	H 14.17			4		H 47.53											4
5													5		H 3.84											5
6													6													6
7													7													7
8													8	Y	H 8.52			Y		Y		Y			Y	8
9													9													9
10													10													10
11													11													11
12													12													12
13													13													13
14													14													14
15													15													15
16													16		H 1.92											16
17									Y				17													17
18													18													18
19													19													19
20									R				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	H	23.57					Dry		Dry				30
31													31								Dry		Dry		Dry	31

Recorder installed

TOTAL,	103.15	13.01	252.52	23.57	142.22	534.67
Mean Daily Discharge in Second-foot	3.14	.71	3.11	.75	4.59	
Second-foot per square mile						
Run off, depth in inches						
Run off in acre-feet	204.52	10.71	100.71	46.71	288.02	1060.35
Maximum Mean Daily Discharge in Second-foot	62.59	11.73	81.1	23.57	62.54	
Minimum Mean Daily Discharge in Second-foot	0	0	0	0	0	0

Computed
Checked
Date 11/10/30 - 2/25/31

Computed
Checked
Date 8/23/31

Disch. applied
Disch. checked
Date 8/25/31

G. H. Copied
G. H. checked
Date

J L I & F E
J L I & F E
J L I & F E

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 12

Monthly discharge of

San Joaquin

River
Creek

at
near

San Joaquin Bridge

for the year ending on (month and year)

(Drainage area 13.0 square miles)

MONTH	DISCHARGE IN SECONDS FEET				R. NO. 1	
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage course	Total in acre feet
October	0	0	0			0
November	0	0	0			0
December	0	0	0			0
January	61.19	0	1.44			814.33
February	11.91	0	.44			26.32
March	51.17	0	1.12			330.72
April	31.57	0	.75			46.71
May	62.54	0	1.59			269.13
June						0
July						0
August						0
September						0
The year period						1060.38

NOTE: Recorder installed Jan. 13, 1930.

UPPER SPREADING DIVERSION FROM
SAN ANTONIO CREEK - MOUTH OF CANYON

Location:

Head of flume below headgates of Pomona Valley Protective Association spreading canal 4 miles northeast of Claremont, Los Angeles County, California.

Installed by

Los Angeles County Flood Control District
April 3, 1928.

Records available

April 3, 1928 to Sept. 30, 1930 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 15° wide by approx. 4' deep - rough rubble and cement.

Extremes of Discharge

Maximum 19.10 c.f.s. May 3, 1930
Minimum Dry at various times during year.

Diversions

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

Regulation

By spreading diversion headgates.

Accuracy

Good normally. Only one measurement this year.

Cooperation

Located, constructed and operated by Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources Branch and the Pomona Valley Protective Association.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 33

Hydraulic measurements of Upper Spreading Diversion from San Antonio

River
Creek

near Mouth of Canyon

during the year ending September 30, 1930

No.	Date	Made by	Width feet	Area of section S. ft.	Mean velocity ft. per sec.	Gate height		Discharge cfs.	Rating percent full.	Method used	Coeff.	Mean stage feet	G. H. change feet	Time in hours	Mean flow cfs.
						Left	Right								
1	5-13	C. L. Brewster	5.0	1.42	1.89	.55	2.68		.6			5	0 1/6	656	671
2	5-13	"	6.5	2.17	.98	.42	2.13		.6			7	0 1/4	"	"
3	5-17	"	6.0	1.76	1.02	.40	1.90		.6			6	0 "	"	"
4	5-18	"	7.0	2.17	1.06	.38	2.29		.6			7	0 "	"	"
5	5-22	"	8.0	4.21	2.65	.70	11.14		.6			8	0 "	"	"
6	5-24	"	9.0	4.38	2.24	.70	10.93		.6			9	0 "	"	"
7	5-31	"	9.5	4.38	1.64	.68	7.19		.6			9	0 "	"	"
8	6-7	"	7.0	1.94	.81	.34	1.57		.6			7	0 "	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 33

Rating table for Upper Spreading Diversion from San Antonio Creek,

Mouth of Canyon

, from Oct. 1, 1929, to Sept. 30, 1930

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.
.05	.10	.02												
.10	.20	.03												
.15	.30	.04												
.20	.50	.05												
.25	.80	.06												
.30	1.10	.07												
.35	1.45	.09												
.40	1.90	.12												
.45	2.50	.16												
.50	3.30	.24												
.55	4.60	.36												
.60	6.30	.45												
.65	8.35	.45												
.70	11.10													

The above table is not applicable for obstructed channel conditions. It is based on measurements made during 1929-1930

and is fairly well defined between 1.57 second-feet and 11.14

Computed by
checked by

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of from San Antonio Creek

Upper ... Diversion ... for the Year Ending September 30, 19. 30

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

Drainage Area 27.88 Square Miles. Brewster [Observer.] Gage Read to Continuous Used rating table dated

Main data table with columns for months (OCTOBER to SEPTEMBER), days (1-31), gage height, discharge, and various codes (Y, D, H, R, F, B). Includes vertical labels on the left for 'second-foot' and 'feet at midnight'.

Summary table with rows for 'TOTAL', 'Mean Daily Discharge in Second-foot', 'Second-foot per square mile', 'Run-off, depth in inches', 'Run-off in acre-feet', 'Maximum Mean Daily Discharge in Second-foot', and 'Minimum Mean Daily Discharge in Second-foot'.

Vertical text on the right side including 'Computed', 'Checked', 'Date', and 'PERIOD YEAR'.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 33

Monthly discharge of Upper Spreading Diversion from

~~Lower~~
~~Creek~~

San Antonio Creek

~~near~~ Mouth of Canyon

for the year ending Sept. 30, 1958

(Drainage area 27.88 square miles)

MONTH	DISCHARGE IN SECOND FEET				TOTAL	
	Maximum	Minimum	Mean	Per square mile	Total in acre feet	Notes
October						Dry
November						"
December						"
January						"
February						"
March	5.94	.0	.69		21.37	
April	.20	0	.01		.60	
May	11.00	.35	5.14		316.05	
June	6.30	0	.86		51.17	
July						Dry-
August						"
September						"
The year period					339.19	

NOTE:

151

SAN GABRIEL SPREADING DITCH AT MOUTH OF
SAN GABRIEL CANYON.

Location

On upstream side of Canyon Line Railroad Bridge.
Near mouth of San Gabriel Canyon, 2 miles North
of Azusa.

Installed by

Los Angeles County Flood Control District
February 13, 1929.

Records Available

February 8, 1929 to September 30, 1930.

Gage

Rational 7 day water stage recorder installed in
recorder house mounted on corrugated iron pipe
stilling well at north side of and upstream end
of bridge. Outside vertical staff gage installed
on stilling well.

Discharge Measurements

High water measurements made at bridge.
Low water measurements made by wading in ditch
near gage.

Channel and Control

Channel is hard bottom not easily eroded.
Control is good.

Extremes of Discharge

Maximum 68.1 c.f.s. on April 7, 1930 at 4 P.M.
Minimum - Dry at various times of year.

Diversions.

This station is on a ditch which receives water
from two sources. One is waste water from South-
ern California Edison Company's power house tail-
race. The other is by direct diversion from
San Gabriel River through a tunnel.

Regulation

By diversion gates.

Accuracy

Good.

Cooperation

Located, constructed and operated by Los Angeles
County Flood Control District.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 100

Large measurements of

San Gabriel Spreading Ditch

River
Channel

at
near

Mouth of Canyon

beginning the year ending September 30, 1930

No.	Date	Locality	Area ft ²	Area of flow sq. ft.	Mean velocity ft. per sec.	Stage		Stage height ft.	Velocity ft. per sec.	Discharge cfs.	No. of gauges	Type	Remarks
						ft.	ft.						
1930													
2	2-8	Dalton	12.5	10.10	2.61	-	27.18	.6		12	-	1/6	25
2	2-11	"					28.22	.6		11		"	
3	2-12	"					29.51	.6		11		1/4	"
4	2-14	"				1.67	28.74	.6		12		1/6	"
5	2-17	"					1.30	.6		5		1/6	"
6	2-18	Dalton-Bergman					13.15	.6		10		-	"
7	2-18	"					12.05	.6		10		-	"
8	2-18	"					7.52	.6		10		-	"
8A	2-18	"					6.54	.6		10		-	"
8B	2-18	"					5.66	.6		9		-	"
8C	2-18	"					4.20	.6		9		-	"
8D	2-18	"					.98	.6		8		-	"
8E	2-18	"					2.51	.6		9		-	"
9	2-18	Dalton					1.87	.					
					weir								
10	2-21	"	.85	6.34		1.36	12.89	.6		9		1/6	
11	2-24	"				1.56	3.16						
12	2-28	"				1.72	28.69	.6		11		1/6	
13	3-4	"	9.5	9.26		1.64	29.60	.6		11		1/6	
14	3-5	Dalton-Lindsay	10.0	13.75		2.09	52.04	.6		12		1/6	
15	3-6	"	11.2	15.30		2.20	59.63	.6		20		1/6	
16	3-7	Dalton	10.7	14.11		2.13	54.05	.6		19		1/6	
17	3-13	"	9.2	7.5	2.29	1.45	17.25	.6		11		"	
18	3-19	Dalton-Ebert	11.7	15.0	3.80	2.27	57.42	.6		19		2/3	
19	3-26	Dalton	10.7	14.68	3.68	2.24	55.77	.6		12		1/3	20
20	3-28	"	10.6	14.83	3.75	2.23	56.85	.6		12		5/32	20
21	4-1	"	10.6	14.48		2.18	54.52	.6		12		1/3	
22	4-4	Lindsay	1.5	.26	.77	.63	.20	.6		4		1/6	20
23	4-11	"	11.0	15.3	3.6	2.23	72.99	.6		11		1/3	20

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 100

Discharge measurements of

San Gabriel Spreading Ditch

River
~~Creek~~

at Mouth of Canyon
near

during the year ending September 30, 19 30

No.	Date	Meters	Width	Area of	Mean	Gage	Discharge	Method	Coeff.	Mean	G. H.	Time	Mean
			Feet	Sq. Ft.	Ft. per sec.	Height	Sec. Ft.						
24	4-18	Lindsay	10	9.8	2.74	1.70	32.32		.6	10	0	1/4	8.5
25	4-25	Dalton	5	1.08	.60	7.05	.65		.6	9	0	1/6	8.0
26	5-2	Lindsay	9.5	10.7	2.79	1.80	30.59		.6	10	0	1/3	8.5
27	5-9	"	9.7	10.9	2.77	1.82	30.20		.6	10	0	1/4	"
28	5-16	"	10.7	14.05	3.12	2.09	43.87		.6	11	0	5/12	"
29	5-23	Lindsay Thrasher	10.7	13.44	3.08	2.00	41.46		.6	11	0	5/12	"
30	5-29	Lindsay	8.0	3.62	1.21	1.02	13.75		.6	5	0	1/12	"
31	6-1	"					1.20						

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 100

Rating table for San Gabriel Spreading Ditch at Mouth of San Gabriel

canyon			from Feb. 8			1930 to			Sept. 8			1930		
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.
.20	.00		2.4	65.1										
		.0034												
.54	.10	.01												
.64	.20	.05												
.70	.50	.095												
.80	1.45	.125												
.90	2.70	.17												
1.00	4.40	.20												
.10	6.40	.25												
.20	8.90	.38												
.30	11.70	.32												
.40	14.90	.34												
.50	18.30	.40												
.60	22.50	.44												
.70	26.70	.48												
.80	31.50	.51												
.90	36.60	.54												
2.00	42.00	.56												
.10	47.60	.58												
.20	52.40	.58												
.30	52.50	.59												

The above table is not applicable for obstructed channel conditions. It is based on 31 discharge measurements made from February 8, 1930, to June 6, 1930.

and is Very well defined between 0 second-feet and 60.0 second-feet

Computed by
Checked by
Date

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

FD No. 101

Monthly discharge of

San Gabriel Spreading Flitch

River
Creek

at
~~XXX~~

South of Canyon

for the year ending Sept. 30, 19 39

Drainage area square miles

DISCHARGE IN CFS

1939-40

Month	Discharge (cfs)		Mean	Total discharge	Average
	Maximum	Minimum			
October	0	0			
November	0	0			
December	0	0			
January	0	0			
February	28.62	0	17.0	942.08	
March	28.04	1.39	32.56	2617.72	
April	65.10	.01	39.45	1737.64	
May	44.80	12.68	34.27	2127.89	
June			13.42	inc	159.73
July					0
August					0
September					0
The year's period					7275.33

NOTE:

SAN GABRIEL RIVER, SPRING ST. LONG BEACH

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

Drainage Area 479 square miles.

Installed by Los Angeles County Flood Control District February 6, 1928.

Records Available February 6, 1928 to Sept. 30, 1929. No runoff 1927-28. #10-W. State Division of Water Rights formerly operated a Station at this location. No runoff 1928-1929 or 1929-1930.

Gage Rational 7 day stage recorder located in wooden shelter house on downstream side of bridge. House set on corrugated iron 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 or 1929-1930.

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

Extremes of Discharge No flow 1927-28. No flow 1928-1929 or 1929-1930.

Diversions. No diversions near this station.

Regulation None.

Accuracy

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

SAN GABRIEL RIVER - WHITTIER BLVD. BRIDGE

Location

On highway bridge crossing the San Gabriel River at Whittier Blvd. just east of Whittier, Los Angeles County, Calif.

Drainage Area

286.0 square miles.

Installed by

Reestablished by Los Angeles County Flood Control District in July 1928. Originally established by State D.W.R. in 1923-1924.

Records Available

July 1928 - Sept. 30, 1930 at L.A.C.F.C.D. See D.W.R. Bulletins for previous records.

Gage

An continuous water stage recorder installed in former D.W.R. wooden recorder house with stilling well attached to lower end of bridge pier. Vertical staff gage in stilling well, also vertical staff gage attached to outside of stilling well.

Discharge Measurements

High water measurements made from cable 500' below bridge. Low water measurements made by wading at gage.

Channel and Control

Channel - sand and silt, shifting.
Control - none.

Extremes of Discharge

Maximum 575.5 c.f.s. Jan. 11, 1930.
Minimum - dry at various times during year.

Diversions

Various canals divert water from stream in Whittier Narrows above gage.

Regulation

None.

Accuracy

Fair.

Cooperation

Installed and operated by Los Angeles County Flood Control District in cooperation with U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 63

Discharge measurements of San Gabriel

River
Creek

at Whittier Blvd. Bridge, during the year ending September 30, 1930.

No.	Date	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.-ft.	Rating Method Percent diff.	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1929												
1	11-15	Harting	0	0	0	0	0	0			0		882
2	1-11	Harting-Laird	233	113.8	2.30	1.63	264.11	.6		17	.091/3		882
3	1-15	" "	237	107.0	2.15	1.61	230.00	.6		17	.18 1/3		882
4	1-24	Harting	39	10.6	1.34	1.18	13.52	.6		20	0 1/3		882
5	1-31	"	21	11.3	1.53	1.30	16.17	.6		11	0 1/3		882
6	2-7	"	29	10.5	1.31	1.16	13.74	.6		19	0 1/3		882
7	2-14	Brewster	11	3.8	1.25	1.14	3.49	.6		11	0 1/3		882
8	2-21	Brewster-Lendon	17	6.2	1.41	1.30	9.68	.6		8	0 1/3		882
9	2-28	Brewster-Lindsay	35	11.6	1.38	1.30	11.28	.6		8	0 1/3		882
10	3-7	"	34	10.4	1.31	1.10	9.99	.6		8	0 1/3		882
11	3-15	Brewster-Lindsay	52	20.0	1.90	1.40	114.88	.6		9	0 1/3		882
12	3-15	Jordan-Fergus	49	20.1	1.61	1.32	31.7	.6		15	0 1/3		882
13	3-18	Jordan-Fergus	28	15.1	1.33	1.15	33.0	.6		12	.02 1/3		882
14	3-18	Jordan-Fergus	38	16.9	1.46	1.2	24.3	.6		14	0 1/3		882
15	3-20	Jordan-Fergus	39	17.1	1.38	1.22	25.7	.6		12	0 1/3		882
16	3-28	Brewster	35	11.9	1.26	1.13	15.1	.6		12	0 1/3		882

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT
Blvd.**

File No. 63

Rating table for San Gabriel River, Whittier Bridge

, from Oct. 1, 1929, to Sept. 30, 1930

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	.25	.40	106.00	6.00									
.102	.50		.42	113	6.00									
.04	1.00		.44	130	6.00									
.06	1.50		.46	142	6.50									
.08	2.00		.48	155	6.50									
.10	2.50		.50	168	7.00									
.12	3.00		.52	182	7.00									
.14	3.50	.25	.54	196	7.00									
.16	4.00	2.25	.56	210	7.00									
.18	4.50	2.45	.58	224	7.00									
.20	5.00	2.65	.60	238	7.00									
.22	5.50	3.20	.62	253	7.50									
.24	6.00	3.70	.64	268	7.50									
.26	6.50	4.00	.66	283	7.50									
.28	7.00	4.00	.68	298	7.50									
.30	7.50	4.50	.70	313	7.50									
.32	8.00	4.50	.72	328										
.34	8.50	4.50	.74	343										
.36	9.00	4.50	.76	358										
.38	9.50	5.50	.78	373										

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

and is well defined between 0 second-feet and 264 second-feet.

Computed by WR

Checked by

Date 6/14/30

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 63

At Whittier Blvd. Bridge for the Year Ending September 30, 1930

Drainage Area 286. Square Miles. Brewster [Observer.] Gage Read to Continuous Used rating table dated _____

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY	Quarter	First	Second	Third	Fourth	
	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							Y	1.20	18.20	1.17	10.45		H	8.05											1						
2									1.19	17.55	1.20	18.20													2						
3									1.18	12.90	1.20	24.60													3						
4							R		1.18	12.90	1.20	24.60													4						
5									1.17	10.45	1.20	18.20													5						
6									1.15	5.75	1.17	10.45													6						
7							D		1.16	8.00	1.16	8.00													7						
8									1.17	10.45	1.16	8.00													8						
9		Y		Y		Y			1.16	8.00	1.17	10.45		Y		Y		Y		Y					9						
10									1.15	5.75	1.20	18.20													10						
11							H	117.95	1.14	3.50	1.16	8.00													11						
12							H	51.86	1.13	3.25	H	11.05													12						
13		R		R		R	1.27	44.00	1.13	3.25	0	0													13						
14								1.10	2.50	1.14	3.50	H	8.16		R		R		R		R				14						
15							H	132.68	1.13	3.25	H	107.93													15						
16								1.27	44.00	1.12	3.25	H	151.71												16						
17								1.21	21.40	1.10	3.25	1.26	38.00												17						
18		D		D		D	1.18	12.90	1.09	2.25	1.21	21.40		D		D		D		D					18						
19								1.13	3.25	1.10	2.50	1.22	24.60												19						
20								1.17	10.45	1.10	2.50	1.24	32.00												20						
21								1.14	3.50	1.10	2.50	1.23	28.35												21						
22								1.12	3.00	1.14	3.25	1.23	28.35												22						
23								1.15	5.75	1.15	5.75	1.22	24.60												23						
24								1.15	5.75	1.16	8.00	1.20	18.20												24						
25								1.21	21.40	1.14	12.90	1.20	18.20												25						
26								1.20	18.20	1.17	10.45	1.17	10.45												26						
27								1.16	8.00	1.09	2.25	1.17	10.45												27						
28								1.14	3.50	1.18	12.90	1.14	12.90												28						
29							H	183.35	-	-	1.17	10.45													29						
30							H	14.04	-	-	1.20	18.20													30						
31								1.20	18.20	-	-	1.21	21.40												31						
TOTAL,								726.18		191.80		331.80		5.05																	
Mean Daily Discharge in Second-foot								23.42		6.93		26.82		.17																	
Second-foot per square mile																															
Run-off, depth in inches																															
Run-off in acre-feet								1440.36		388.36		1649.35		10.02																	
Maximum Mean Daily Discharge in Second-foot								132.68		18.20		151.71		5.05																	
Minimum Mean Daily Discharge in Second-foot								0		2.25		0		0		0		0		0		0		0		0					

G. H. Copied
 G. H. checked
 Date
 Disch. applied
 Disch. checked
 Date
 Computed
 Checked
 Date
 W. R. R.
 W. R. R.
 W. R. R.

3423.59

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 63

Monthly discharge of San Gabriel

River
~~← creek~~

at Whittier Blvd. Bridge for the year ending Sept. 30, 1930

(Drainage area 286.0 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							Dry
November							"
December							"
January	132.68	0	23.42			1440.35	
February	18.20	2.25	6.99			388.36	
March	151.71	0	26.82			1349.85	
April	5.05	0	.17			10.02	
May							DRY
June							"
July							"
August							"
September							"
The year period						3488.59	

NOTE:

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TRIBUTARY OF
BEAR CREEK, SAN GABRIEL RIVER
AT SCOUT CAMP

Location

On east bank of Bear Creek, tributary to San Gabriel River, one and one half miles above mouth (of Bear Creek)

Drainage Area

25.95 square miles.

Installed by

Los Angeles County Flood Control District,
July 1929.

Records Available

October 1, 1929 to September 30, 1930.

Gage

Au, continuous type water stage recorder installed, in galvanized iron shelter house on corrugated iron stilling well and secured to sloping rock bank.

Discharge Measurements

High water flows are measured from cable located just below recorder house. Low water measurements by wading near gage.

Channel and Control

Channel - Sand, gravel, rock and boulders
Control - Sand and Gravel.

Extremes of discharge

Maximum 108.00 c.f.s. May 3, 1930.
Minimum .10 c.f.s. Oct. 13, 1930.

Diversion

None

Regulation

None

Accuracy

Fair

Cooperation

Located, constructed and operated by L.A.C.F.C.D. with co-operation of U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 99

Discharge measurements of **Bear Creek**

~~XXXX~~
~~XXXX~~

~~XXXX~~ Tributary to San Gabriel River, during the year ending September 30, 1930
At Scout Camp

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Cost	Went. sec.	G. Ht. change	Time	No.
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.							
	1930													
29	8-14	Lindsey	4.1	1.99	.50	-	.98	.6			5	0	1/6	282 283
30	8-21	"	4.0	1.67	.37	2.16	.62	.6			5	0	"	"
31	8-28	"	4.0	1.7	.41	-	.70	.6			5	0	"	"
32	9-4	Patterson	2.5	.87	.51	2.31	.44	.6			3	0	"	286 288
33	9-10	"	4.0	1.37	.75	2.19	1.02	.6			4	0	"	"
34	9-17	"	4.0	1.31	.69	2.22	.91	.6			4	0	"	"
35	9-26	"	4.0	1.25	.67	2.12	.84	.6			4	0	"	"

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**
tributary of

File No. **99**

Rating table for

Barro Creek / - San Gabriel River at Scout Camp

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

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.
2.30	0	.025	.30	3.50	.30	.50	25.10	.84						
.32	.05		.42	4.10	.30	.80	29.30	.84						
.34	.10		.44	4.70	.30	.90	33.30	.84						
.36	.15		.46	5.30	.30	.95	38.	.90						
.38	.20		.48	6.00	.35	3.00	42.50	.90						
.40	.25		.50	6.70	.35	.05	47.00	.90						
.42	.30		.52	7.50	.45	.10	51.60	.92						
.44	.35		.54	8.30	.45	.15	56.30	.94						
.46	.40		.56	9.20	.45	.20	61.	.94						
.48	.45		.58	10.20	.50	.25	65.70							
.50	.50	.075	.60	11.30	.55	.30	70.40							
.52	.55	.05	.62	12.60	.55	.35	75.10							
.54	.60	.05	.64	14.00	.60	.40	79.80							
.56	.65	.10	.66	15.50	.60	.45	84.50							
.58	.70	.10	.68	17.10	.65	.50	89.20							
.60	.75	.11	.70	18.80	.65	.55	93.90							
.62	.80	.13	.72	20.60	.75	.60	98.60							
.64	.85	.20	.74	22.60	.75	.65	103.30							
.66	.90	.20	.76	24.80	.75	.70	108.00							
.68	.95	.25	.78	27.20	.75									
.70	1.00	.25	.78	30.00	.75									

The above table is not applicable for obstructed channel conditions. It is based on **35** discharge measurements made during **Oct. 1, 1929 - Sept. 30, 1930**

and is **fairly** well defined between **.25** second-feet and **57.0** second-feet.

Computed by **J. T. K.**
Checked by _____
Date _____

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of **Bear** River Creek

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 99

Tributary of San Gabriel River Scout for the Year Ending September 30, 1930.
Camp

Drainage Area **26.0** Square Miles. [**G. Patterson** Observer.] Gage Read to **Continuous** One Twice a Day. Used rating table dated **Sept. 30, 1930**

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	2.10	.25	2.14	.35	2.26	.90	2.24	.70	2.57	9.90	2.48	6.00	2.92	35.18	2.72	19.10	2.61	12.05	2.39	3.25	2.31	1.65	2.15	.38	1
2	2.10	.25	2.14	.35	2.25	.80	2.24	.70	2.55	8.95	2.47	5.65	2.87	30.94	2.75	21.35	2.59	10.95	2.38	3.00	2.30	1.40	2.16	.40	2
3	2.10	.25	2.13	.32	2.24	.70	2.24	.70	2.56	9.40	2.47	5.65	2.94	28.46	3.11	52.54	2.60	11.50	2.39	3.25	2.31	1.55	2.16	.40	3
4	2.08	.20	2.14	.35	2.24	.70	2.23	.65	2.56	9.40	2.51	7.15	2.80	25.10	3.25	65.70	2.59	10.95	2.39	3.25	2.30	1.40	2.16	.40	4
5	2.09	.22	2.14	.35	2.23	.65	2.26	.90	2.57	9.90	2.76	22.10	2.78	23.60	3.16	57.26	2.58	10.40	2.38	3.00	2.30	1.40	2.19	.47	5
6	2.09	.22	2.14	.35	2.23	.65	2.29	1.25	2.58	10.40	2.69	16.95	2.77	22.85	3.13	54.42	2.58	10.40	2.38	3.00	2.29	1.25	2.22	.60	6
7	2.09	.22	2.14	.35	2.24	.70	2.32	1.70	2.56	9.40	2.60	11.50	2.76	22.10	3.12	52.64	2.57	9.90	2.38	3.00	2.30	1.40	2.23	.65	7
8	2.09	.22	2.13	.32	2.25	.80	2.27	1.00	2.55	8.95	2.86	30.14	2.76	22.10	3.09	50.68	2.57	9.90	2.39	3.25	2.33	1.90	2.24	.70	8
9	2.10	.25	2.13	.32	2.26	.90	2.30	1.40	2.55	8.95	3.37	76.98	2.75	21.35	3.03	45.20	2.56	9.40	2.39	3.25	2.32	1.70	2.24	.70	9
10	2.10	.25	2.14	.35	2.25	.80	2.38	3.00	2.54	8.50	3.25	65.70	2.73	19.95	2.99	41.60	2.55	8.95	2.38	3.00	2.32	1.70	2.26	.90	10
11	2.08	.20	2.14	.35	2.25	.80	2.44	4.70	2.52	7.60	3.29	64.76	2.71	18.35	2.96	38.90	2.54	8.50	2.38	3.00	2.31	1.55	2.07	.17	11
12	2.06	.15	2.13	.32	2.25	.80	2.43	4.40	2.51	7.15	3.20	61.00	2.69	16.95	2.94	37.16	2.53	8.05	2.38	3.00	2.29	1.25	2.06	.15	12
13	2.04	.10	2.15	.38	2.25	.80	2.41	3.80	2.49	6.35	3.17	58.18	2.68	16.30	2.94	37.16	2.54	8.50	2.38	3.00	2.28	1.10	2.06	.15	13
14	2.06	.15	2.16	.40	2.24	.70	2.43	4.40	2.50	6.70	3.16	57.24	2.69	16.95	2.91	34.34	2.54	8.50	2.37	2.75	2.21	.55	2.09	.22	14
15	2.09	.22	2.16	.40	2.24	.70	2.58	10.40	2.49	6.35	3.14	55.36	2.67	15.65	2.88	31.82	2.53	8.05	2.36	2.50	2.21	.55	2.11	.28	15
16	2.10	.25	2.20	.50	2.23	.65	2.70	17.60	2.49	6.35	3.12	52.64	2.65	14.40	2.86	30.14	2.52	7.60	2.35	2.30	2.21	.55	2.15	.38	16
17	2.12	.30	2.20	.50	2.25	.80	2.74	20.60	2.49	6.35	3.09	50.68	2.64	13.80	2.84	28.46	2.51	7.15	2.35	2.30	2.21	.55	2.23	.65	17
18	2.11	.28	2.21	.55	2.26	.90	2.71	18.35	2.49	6.35	3.08	49.74	2.63	13.20	2.82	26.74	2.50	6.70	2.35	2.30	2.21	.55	2.24	.70	18
19	2.08	.20	2.21	.55	2.24	.70	2.67	15.65	2.49	6.35	3.07	48.04	2.62	12.60	2.79	24.35	2.51	7.15	2.36	2.50	2.21	.55	2.27	1.00	19
20	2.07	.17	2.21	.55	2.24	.70	2.63	13.20	2.49	6.35	3.10	51.60	2.60	11.50	2.77	23.85	2.50	6.70	2.36	2.50	2.21	.55	2.28	1.10	20
21	2.06	.15	2.21	.55	2.27	1.00	2.63	13.20	2.48	6.00	3.19	60.06	2.59	10.95	2.76	22.10	2.49	6.35	2.36	2.50	2.20	.50	2.28	1.10	21
22	2.06	.15	2.21	.55	2.27	1.00	2.62	12.60	2.48	6.00	3.20	61.00	2.58	10.40	2.74	20.60	2.47	5.65	2.36	2.50	2.14	.35	2.26	.90	22
23	2.08	.20	2.21	.55	2.27	1.00	2.60	11.50	2.55	8.95	3.27	67.58	2.58	10.40	2.73	19.85	2.46	5.30	2.35	2.30	2.15	.38	2.24	.70	23
24	2.11	.28	2.22	.55	2.27	1.00	2.62	12.60	2.54	8.50	3.32	72.28	2.59	10.95	2.72	19.10	2.45	5.00	2.35	2.30	2.16	.40	2.21	.55	24
25	2.12	.30	2.24	.70	2.27	1.00	2.64	13.80	2.52	7.60	3.31	71.34	2.58	10.40	2.73	19.85	2.43	4.40	2.34	2.10	2.15	.38	2.21	.55	25
26	2.14	.35	2.24	.70	2.26	.90	2.66	15.00	2.51	7.15	3.23	62.88	2.57	9.90	2.72	19.10	2.42	4.10	2.33	1.90	2.15	.38	2.25	.80	26
27	2.15	.37	2.25	.80	2.26	.90	2.75	21.35	2.50	6.70	3.15	56.30	2.56	9.40	2.72	19.10	2.41	3.80	2.32	1.70	2.15	.38	2.27	1.00	27
28	2.16	.40	2.26	.90	2.24	.70	2.79	24.35	2.49	6.35	3.07	48.82	2.56	9.40	2.72	19.10	2.41	3.80	2.31	1.55	2.14	.35	2.28	1.10	28
29	2.15	.37	2.27	1.00	2.24	.70	2.80	25.10	-	-	3.02	44.30	2.57	9.90	2.71	18.35	2.41	3.80	2.31	1.55	2.15	.38	2.25	.80	29
30	2.15	.37	2.27	1.00	2.25	.80	2.82	26.74	-	-	2.98	40.70	2.69	16.95	2.69	16.95	2.40	3.50	2.31	1.55	2.15	.38	2.25	.80	30
31	2.15	.37	-	-	2.25	.80	2.56	9.40	-	-	2.96	38.90	-	-	2.64	13.80	-	-	2.31	1.55	2.15	.38	-	-	31

TOTAL	7.66	15.21	24.95	310.74	216.90	1421.22	509.88	1001.31	227.00	78.90	27.26	18.70
Mean Daily Discharge in Second-foot	.25	.51	.80	10.02	7.75	45.85	17.00	32.30	7.57	2.55	.88	.62
Second-foot per square mile												
Run-off, depth in inches												
Run-off in acre-feet	15.19	30.17	49.49	616.35	430.21	2818.99	1011.33	1986.10	450.25	156.50	54.07	37.09
Maximum Mean Daily Discharge in Second-foot	.40	1.00	1.00	26.74	10.40	76.04	35.18	67.58	12.05	3.25	1.70	1.10
Minimum Mean Daily Discharge in Second-foot	.10	.32	.65	.65	6.00	5.65	9.40	13.80	3.50	1.55	.35	.15

Quarter Fourth
Computed
Checked
Date
Disch. applied
Disch. checked
Date
G. H. Copied
G. H. checked
Date
PERIOD
YEAR

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 99

Monthly discharge of

at

River
Creek

at Tributary of San Gabriel River Scout for the year ending Sept. 30, 1930
near Camp

(Drainage area 26.0 square miles)

MONTH	DISCHARGE IN SECONDS PER				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	.40	.10	.25			15.19	
November	1.00	.32	.51			30.17	
December	1.00	.65	.80			49.49	
January	26.74	.65	12.22			616.35	
February	10.40	6.00	7.75			430.21	
March	76.04	5.65	45.35			2312.99	
April	35.18	9.40	17.00			1011.33	
May	67.58	13.30	32.30			1906.10	
June	18.05	3.50	7.57			450.25	
July	3.25	1.50	2.55			156.10	
August	1.70	.35	.38			84.07	
September	1.10	.15	.62			37.09	
The year period						7651.74	

NOTE:

SAN GABRIEL RIVER EAST FORK 1/2 MILE
BELOW MOUTH CATTLE CANYON

Location

On north bank of East Fork, San Gabriel River,
5 miles above junction of East and West Forks
1/2 mile below mouth of Cattle Canyon.

Drainage Area

78.35 square miles.

Installed by

L.A. County Flood Control District, June 1929.

Records available

October 1, 1929 to September 30, 1930.

Gage

Au, continuous type water stage recorder
installed in galvanized iron shelter house
on corrugated iron stilling well and secured
to vertical rock bank approximately 30 feet
high.

Discharge Measurements

High water flows are measured from cable located
twenty feet above recorder house. Low water
measurements by wading near gage.

Channel and Control

Channel - rock, sand, gravel and boulders.
Control - rock and boulders, not permanent.

Extremes of Discharge

Maximum 108.50 c.f.s. May 16, 1930.
Minimum 6.90 c.f.s. various times.

Diversions

None

Regulation

None

Accuracy

Fair

Cooperation

Located, constructed, operated by L.A.C.F.C.D.
with cooperation of U.S.G.S.
Water Resources Branch

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 96

Discharge measurements of San Gabriel River East Fork

River
~~fork~~

at near $\frac{1}{2}$ Mile below Mouth Cattle Canyon, during the year ending September 30, 19 30

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. Percent diff.	Meas. secs.	G. Ht. change	Time Hours	St. No.
	1929											271
1	10-3	Lindsay	14.0	9.1	1.14	3.50	10.40	.5	7		1/4	640
2	10-10	"	15.0	10.6	.96	3.52	10.30	.6	8		1/4	"
3	10-18	"	15.5	11.2	.95	3.51	10.60	.6	8		1/4	"
4	10-25	"	15.0	10.3	.84	3.51	8.66	.6	8		1/6	"
5	11-8	"	15.0	10.7	.92	3.50	9.80	.6	8		1/4	271 656
6	11-15	"	15.0	10.8	.90	3.61	9.70	.6	8		1/4	"
7	11-22	"	15.0	11.6	.81	3.57	10.40	.6	7		1/4	262 556 271
8	11-29	"	15.0	10.9	.91	3.58	9.90	.6	7		1/6	656
9	12-5	"	14.5	10.3	.94	3.30	9.70	.6	8		1/4	"
10	12-13	"	14.5	11.5	.92	3.36	10.30	.6	8		1/4	"
11	12-20	"	15.0	10.8	.85	3.70	9.20	.6	8		1/4	"
12	12-26	"	15.0	11.2	.90	3.72	10.10	.6	8		1/4	"
13	1-3	"	14.5	11.3	1.01	3.74	11.30	.6	8		1/4	"
14	1-7	"	14.5	11.0	1.22	3.73	13.40	.6	7		1/3	"
15	1-10	"	14.5	10.3	1.46	3.74	15.10	.6	8		1/4	"
16	1-15	"	15.0	13.9	2.07	3.94	28.90	.6	8		1/4	"
17	1-16	"	13.1	13.4	2.09	3.96	27.30	.6	8		1/4	"
18	1-17	"	12.9	13.2	2.04	3.91	26.99	.6	7		1/4	"
19	1-24	"	15.5	15.3	1.55	3.88	23.70	.6	8		1/4	262 556
20	1-31	"	15.0	15.3	1.62	3.90	24.78	.6	8		1/3	"
21	2-6	"	15.5	15.6	1.66	3.90	25.96	.6	8		1/4	"
22	2-14	"	23.5	21.3	1.13	3.88	24.21	.6	12		1/4	262 897 271
23	2-21	"	23.0	20.0	1.15	3.88	23.00	.6	11		1/4	656 262
24	2-28	Patterson	23.0	21.0	1.11	3.85	24.38	.6	4		1/4	897 262
25	3-7	"	23.5	25.4	1.43	3.91	36.28	.6	3		1/2	556
26	4-4	"	37.0	38.9	2.44		94.90	.6	13		1/3	"
27	4-11	"	38.0	37.8	2.07		78.30	.6	15		1, 3	"
28	4-18	"	26.5	30.4	2.01	4.03	61.00	.6	9		1/4	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 96

Discharge measurements of San Gabriel River East Fork River
near at 1/2 Mile below Mouth Cattle Canyon during the year ending September 30, 1950. ~~Creek~~

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.			No.	Total	Hours	
	1929													262
29	5-2	Waddicor	38.0	33.7	1.83	4.07	61.70			.6	10		1/3	556
30	5-16	"	39.0	44.6	2.50	4.23	111.20			.6	10		1/3	"
31	5-22	Patterson	38.0	39.2	2.28	4.15	89.30			.6	13		1/3	"
32	5-28	"	34.0	41.2	2.13	4.08	88.00			.6	11		1/3	"
33	6-6	"	32.0	37.8	1.92	4.00	72.70			.6	11		1/3	"
34	6-12	"	30.5	36.2	1.70	3.95	61.60			.6	11		1/3	"
35	6-20	"	29.0	33.6	1.50	3.87	50.40			.6	10		1/3	"
36	6-27	"	27.0	30.1	1.37	3.74	41.10			.6	10		1/3	"
37	7-3	"	26.0	27.1	1.35	3.68	36.50			.6	9		1/3	"
38	7-9	"	26.0	25.7	1.25	4.28	32.00			.6	9		1/4	"
39	7-17	"	25.5	24.5	1.18	3.65	28.90			.6	9		1/3	"
40	7-25	"	24.5	22.8	1.12	3.58	25.60			.6	9		1/3	"
41	8-1	"	23.0	19.9	1.00	3.53	19.80			.6	8		1/3	"
42	8-8	"	22.0	17.9	.96	3.51	17.10			.6	8		1/3	"
43	8-15	"	22.5	18.0	1.00	3.44	18.00			.6	8		1/4	"
44	8-22	"	21.5	17.0	.92	3.37	15.70			.6	8		1/3	"
45	8-29	"	21.5	16.9	.90	3.33	15.20			.6	8		1/3	"
46	9-5	"	22.0	15.5	.90	3.34	14.00			.6	7		1/4	"
47	9-12	"	22.5	18.0	.91	3.42	16.40			.6	8		1/3	"
48	9-19	"	22.5	17.9	.91	3.35	16.20			.6	8		1/4	"
49	9-25	"	22.5	18.0	.88	3.38	15.90			.6	8		1/3	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. FC96

Rating table for San Gabriel/ East Fork, 1/2 mile below mouth Cattle Canyon

from Oct. 1, 1929, to Sept. 30, 1930.

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			4.00	69.00										
.05			.05	75.50	1.30									
.10	.80		.10	82.20	1.34									
.15	2.10	.26	.15	89.00	1.36									
.20	3.70	.32	.20	95.90	1.38									
.25	5.30	.32	.25	102.90	1.40									
.30	7.30	.40	.30	109.90	1.40									
.35	9.80	.50												
.40	12.50	.54	.35	116.90										
.45	15.50	.60	.40	123.90										
.50	18.90	.68	.45	130.90										
.55	21.40	.70	.50	137.90										
.60	26.30	.78	.55	144.90										
.65	30.50	.84	.60	151.90										
.70	35.20	.94												
.75	40.00	.96												
.80	45.30	1.06												
.85	51.00	1.14												
.90	56.70	1.14												
.95	62.70	1.20												
		1.26												

The above table is not applicable for obstructed channel conditions. It is based on 49 discharge measurements made during and is well defined between 9 second-feet and 111 second-feet.

Computed by
Checked by
Date

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

River Creek

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

File No. FC 96

at East Fork for the Year Ending September 30, 19 30

1/2 mile below mouth Cattle Canyon

Drainage Area 58.18 Square Miles.

Patterson [Observer.]

Gage Read to continuous One Twice a Day.

Used rating table dated

Main data table with columns for months (OCTOBER to SEPTEMBER), days (1-31), gage height, discharge, and various annotations like 'Computed', 'Checked', 'Date'.

Vertical annotations on the left side: second-foot, Discharge, 108.50, May 16, on various times, 6.90, feet at, 4.29, Maximum stage, 3.29, Minimum stage.

Vertical annotations on the right side: DAY, Fourth, Third, Second, First, Quarter, Computed, Checked, Date, Disch. applied, Disch. checked, Date, G. H. Copied, G. H. checked, Date, PERIOD, YEAR.

Summary table with rows for TOTAL, Mean Daily Discharge in Second-feet, Second-feet per square mile, Run-off, depth in inches, Run-off in acre-feet, Maximum Mean Daily Discharge in Second-feet, Minimum Mean Daily Discharge in Second-feet.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 96

Monthly discharge of San Gabriel River - East Fork River
Creek

at 1/2 mile below mouth of Cattle Canyon for the year ending Sept. 30, 1930
near

(Drainage area 78.35 square miles)

MONTH	DISCHARGE IN SECOND-LEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	12.50	6.90	9.52			585.12	
November	12.50	6.10	9.61			571.38	
December	11.42	7.30	9.50			564.49	
January	27.14	9.80	19.05			1171.20	
February	27.14	23.96	25.87			1436.94	
March	108.00	26.30	62.13			3824.09	
April	94.90	42.12	67.64			3906.00	
May	114.10	52.14	87.90			5405.10	
June	76.84	46.44	59.39			3533.71	
July	45.30	18.22	30.24			1847.00	
August	18.12	15.50	16.32			1007.60	
September	19.60	13.70	16.42			976.98	
The year period						24,842.61	

NOTE:

SAN GABRIEL RIVER NORTH FORK 2000 FEET
ABOVE NARROWS

Location

On east bank of North Fork, San Gabriel River,
.7 of a mile above mouth (of North Fork).
Approximately 8 miles due north of the town of
Azusa.

Drainage Area

18.79 square miles.

Installed by

L.A. County Flood Control District, September 1929.

Records Available

October 1, 1929 to September 30, 1930.

Gage

Au, continuous type water stage recorder installed
in galvanized iron shelter house on corrugated
iron stilling well and secured to vertical rock
bank, approximately 25 feet high.

Discharge Measurements

High water flows are measured from cable located
just above recorder house. Low water measurements
by wading near gage.

Channel and Control

Channel - sand, gravel, rock and boulders.
Control - rock and boulders, not permanent.

Extremes of Discharge

Maximum - 18.42 c.f.s. on May 3, 1930.
Minimum - 1.56 c.f.s. at various times during year.

Diversions

None above gage.

Regulation

None.

Accuracy

Fair.

Cooperation

Located, installed and operated by the Los Angeles
County Flood Control District, with cooperation
of U.S.G.S. Water Resources Branch.

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 98

Discharge measurements of San Gabriel River- North Fork River
at 2000 ft. above Narrows during the year ending September 30, 1930
near Creek

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	Rating	Method	Coef.	Meas. stcs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.		Feet	Sec.-ft.								
1	1929 10-3	R. Lindsay	4.3	1.6	1.0	2.60	1.60		.6			5	0	1/6	271 640
2	10-10	Patterson Lindsay	4.6	1.9	1.0	2.62	1.90		.6			5	0	"	"
3	10-18	Lindsay	5.0	2.0	1.1	2.68	2.10		.6			6	0	"	"
4	10-25	Patterson Lindsay	5.0	2.0	.95	2.64	1.90		.6			5	0	"	"
5	11-8	"	4.8	1.9	.95	2.66	1.80		.6			5	0	"	271 636
6	11-15	"	4.7	2.0	1.0	2.68	2.0		.6			6	0	"	"
7	11-22	Lindsay	4.7	2.1	1.01	2.69	2.2		.6			6	0	"	262 556
8	11-29	"	3.8	1.3	1.46	2.71	1.9		.6			4	0	"	271 636
9	12-6	Patterson Lindsay	3.7	1.2	1.42	2.71	1.7		.6			4	0	"	"
10	12-12	Lindsay	3.7	1.4	1.36	2.74	1.9		.6			4	0	"	"
11	12-20	Lindsay Green	3.7	1.3	1.23	3.19	1.6		.6			4	0	1/12	"
12	12-26	"	3.7	1.4	1.07	3.23	1.5		.6			4	0	1/6	"
13	1930 1-3	Patterson Lindsay	3.7	1.3	1.23	3.24	1.6		.6			4	0	1/6	"
14	1-7	Patterson	4.0	1.8	1.39	2.82	2.5		.6			4	0	"	262 556
15	1-11	Patterson Lindsay	5.0	2.5	1.32	2.84	3.3		.6			5	0	"	271 636
16	1-6	Patterson Green	5.0	2.5	2.0	2.88	5.0		.6			5	0	"	262 556
17	1-23	Patterson Lindsay	5.0	2.5	1.6	2.78	4.0		.6			5	0	"	"
18	1-31	Patterson	7.5	3.7	.76	2.76	2.8		.6			6	0	1/4	282 897
19	2-7	"	7.0	4.0	.70	2.76	2.8		.6			7	0	"	"
20	2-14	Patterson Lindsay	6.5	4.0	.80	2.76	3.2		.6			7	0	1/6	"
21	2-21	Lindsay Green	7.5	3.6	.86	2.77	3.1		.6			5	0	1/6	271 636
22	2-28	Patterson Green	6.5	3.9	.80	2.80	3.1		.6			6	0	1/6	"
23	3-5	Patterson Waddicor	6.5	3.34	.98	2.88	5.56		.6			7	0	1/6	262 556
24	3-7	Patterson Waddicor	6.5	3.99	1.12	2.78	4.47		.6			6	0	"	"
25	3-19	"	8.0	7.7	1.49	2.87	11.5		.6			8	0	"	"
26	3-20	"	8.0	6.7	1.76	2.90	11.7		.6			8	0	"	"
27	3-21	"	9.0	7.2	1.72	2.91	12.4		.6			8	0	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 98

Discharge measurements of

San Gabriel River North Fork

River
←

at
near

2000 feet above Narrows

during the year ending September 30, 1930

No.	Date	Made by	Width Feet	Area of section Sq. ft.	Mean velocity ft. per sec.	Gage height Feet	Discharge Sec. ft.	Percent flow	Mud or logs	Mean Sec.	G. D. ft. min.	Time hours	Meter No.
	1930												
28	4-1	R. Waddicor	9.5	5.7	1.26	2.71	7.2		.6	9	0	1/4	262 556
29	4-11	Patterson Waddicor	7.5	4.8	1.19	2.68	5.7		.6	8	0	1/6	"
30	4-17	"	7.0	4.4	1.16	2.70	5.1		.6	5	0	1/12	"
31	4-23	Waddicor	7.0	5.1	.98	2.90	5.0		.6	8	0	1/6	"
32	5-5	"	6.0	4.7	1.60	2.72	7.5		.6	6	0	1/4	"
33	5-23	Patterson	7.0	4.4	1.07	2.54	4.7		.6	7	0	1/4	"
34	5-28	Patterson	7.0	4.3	1.05	2.50	4.5		.6	7	0	"	"
35	6-6	"	7.0	4.4	1.0	2.48	4.4		.6	7	0	"	"
36	6-13	"	4.0	3.4	1.18	2.40	4.0		.6	4	0	"	"
37	6-19	"	4.0	3.5	1.20	2.41	4.2		.6	4	0	"	"
38	6-26	"	4.0	3.4	1.18	2.40	4.0		.6	4	0	"	"
39	7-3	"	4.0	3.5	1.17	2.40	4.1		.6	4	0	"	"
40	7-10	"	4.0	3.4	1.15	2.38	3.9		.6	4	0	"	"
41	7-17	"	4.0	3.2	1.09	3.18	3.5		.6	4	0	"	"
42	7-25	"	3.8	3.0	1.03	3.31	3.1		.6	4	0	"	"
43	8-1	"	3.5	2.9	1.03	3.49	3.0		.6	4	0	"	"
44	8-8	"	3.5	2.8	1.03	3.50	2.9		.6	4	0	"	"
45	8-8	Lindsay	6.5	3.7	.70	3.56	2.57		.6	6	0	"	282 283
46	8-14	"	7.0	3.94	.67	3.52	2.65		.6	6	0	1/6	"
47	8-28	"	7.0	3.74	.62	3.53	2.30		.6	6	0	"	"
48	9-4	Patterson	3.8	3.0	1.07	3.49	3.20		.6	4	0	1/4	262 556
49	9-12	Patterson	3.8	3.0	1.03	3.58	3.10		.6	4	0	1/4	"
50	9-19	"	3.8	2.9	1.03	3.57	3.0		.6	4	0	1/4	"
51	9-26	"	3.8	3.0	1.07	3.64	3.20		.6	4	0	1/4	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 96

Rating table for - San Gabriel River - North Fork 2000 feet.

above Narrows, from Oct. 1, 1929, to March 8, 1930.

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.
2.50	.90		.90	4.36										
.52	1.02	.06	.92	4.64	.14									
.54	1.14	.06	.94	4.92	.14									
.56	1.26	.06	.96	5.20	.15									
.58	1.38	.06	.98	5.54	.16									
.60	1.50	.06	3.00	5.88	.17									
.62	1.62	.06	.02	6.22										
.64	1.76	.07	3.04	6.56										
.66	1.92	.08	.06	6.90										
.68	2.08	.08	.08	7.24										
.70	2.24	.08	.10	7.58										
.72	2.40	.08	.12	7.92										
.74	2.58	.09												
.76	2.76	.09												
.78	2.96	.10												
.80	3.18	.11												
.82	3.40	.11												
.84	3.62	.11												
.86	3.84	.11												
.88	4.10	.13												
		.13												

The above table is not applicable for obstructed channel conditions. It is based on ¹⁴ discharge measurements made during Oct. 1, 1929 to March 8, 1930 and is fairly well defined between 1.5 second-feet and 2.5 second-feet.

Computed by
Checked by J.L.I. Fred B.
Date 12/28/30

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 98

Rating table for

San Gabriel River -North Fork - 2000'

Above Narrows

, from March 8, 1930, to July 17, 1930

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.
2.30	2.80		.70	8.50		3.10	15.76							
.32	3.04	.12	.72	8.84	.17	.12	16.14							
.34	3.28	.12	.74	9.18	.17	.14	16.52							
.36	3.52	.12	.76	9.52	.17	.16	16.90							
.38	3.76	.13	.78	9.86	.17	.18	17.28							
.40	4.00	.13	.80	10.20	.17	.20	17.66							
.42	4.30	.13	.82	10.56	.18	.22	18.04							
.44	4.56	.13	.84	10.92	.18	.24	18.42							
.46	4.84	.14	.86	11.28	.18									
.48	5.12	.14	.88	11.64	.18									
.50	5.40	.14	.90	12.00	.18									
.52	5.70	.15	.92	12.36	.18									
.54	6.00	.15	.94	12.72	.19									
.56	6.30	.15	.96	13.08	.19									
.58	6.60	.15	.98	13.44	.19									
.60	6.90	.15	3.00	13.80	.19									
.62	7.20	.15	.02	14.16										
.64	7.50	.16	.04	14.52										
.66	7.84	.16	.06	14.88										
.68	8.16	.17	.08	15.24										

The above table is not applicable for obstructed channel conditions. It is based on 25 discharge measurements made during March 8, 1930 - July 17, 1930.

and is fairly well defined between 2.8 second-feet and 12.4 second-feet.

Computed by W.F.Z.
Checked by J.L.I & F.P.
Date 12/22/30

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 98

Rating table for

San Gabriel River - North Fork, 2000 feet

Above Narrows

from July 17, 1930 to Oct. 1, 1930

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.
3.10	.32	.04	3.50	3.42	.14									
.12	.40		.52	3.70										
.14	.50	.05	.54	4.00	.15									
.16	.60	.05	.56	4.30	.15									
.18	.70	.05	.58	4.62	.16									
.20	.80	.05	.60	4.93	.16									
.22	.90	.05												
.24	1.02	.06												
.26	1.16	.06												
.28	1.30	.07												
.30	1.44	.07												
.32	1.60	.08												
.34	1.76	.08												
.36	1.92	.09												
.38	2.10	.10												
.40	2.30	.10												
.42	2.50	.10												
.44	2.72	.11												
.46	2.92	.12												
.48	3.16	.13												

The above table is not applicable for obstructed channel conditions. It is based on 9 discharge measurements made during July 17, 1930 to Sept. 30, 1930

and is well defined between 2.57 second-feet and 3.20 second-feet.

Computed by

Checked by JLI & F.B.

Date 12/20/30

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of

San Gabriel

River

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

File No. 98

North Fork 2000' above Narrows for the Year Ending September 30, 1930

Drainage Area 18.79 Square Miles.

G. Patterson [Observer.]

Gage Read to continuous One Twice a Day.

Used rating table dated.

Main data table with columns for months (OCTOBER to SEPTEMBER), days (1-31), gage height, discharge, and summary statistics (TOTAL, Mean Daily Discharge, etc.). Includes handwritten notes on the left and right margins.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 98

Monthly discharge of **San Gabriel River North Fork**

River
Creek

at **2000'** above **Narrows**
near

for the year ending Sept. 30, 19**30**

(Drainage area **18.79** square miles)

MONTH	DISCHARGE IN SECONDS-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	2.32	1.56	2.06			126.60	
November	2.49	1.76	2.07			123.01	
December	5.88	1.50	2.38			146.18	
January	6.39	1.50	3.64			224.09	
February	3.40	2.76	3.07			170.41	
March	15.91	3.18	9.69			596.0	
April	13.29	4.43	6.49			386.44	
May	14.24	4.43	6.21			381.92	
June	4.84	4.17	4.32			257.26	
July	4.30	2.81	3.55			218.52	
August	3.29	1.68	2.38			146.48	
September	4.00	2.70	3.27			194.83	
The year period						2971.74	

NOTE:

100

SAN GABRIEL RIVER EAST FORK P.W.D. STATION
500 FEET ABOVE MOUTH OF CATTLE CANYON

Location

At Camp Bonita on East Fork San Gabriel River about 500' above junction of Cattle Cn. and the East Fork. 4 miles above the San Gabriel Forks. 16 miles northeast of Azusa, Los Angeles County, Cal.

Drainage Area

58.2 square miles measured on U.S.G.S. topographic sheets.

Installed by

Pasadena Water Dept.

Records Available

From Oct. 1, 1927 to Sept. 30, 1930. 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 122.02 May 3, 1930.
Minimum 6.50 c.f.s. Oct. 6-8, 1930.

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 Dept. 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.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Discharge measurements of San Gabriel River
at East Fork P.W.D. Station 500' during the year ending September 30, 1930
near above mouth of Cattle Canyon Creek

No.	Date	Mastery	Width	Area of section	Mean velocity	Gate height	Discharge	Total	Net	Cov.	Mess. recs.	G. H. change	Time	Meter No.
			Feet	Sq. Ft.	Ft. per sec.	Feet	Sec. Ft.				Percent	No.	Total	Hours
1	1930 10-3	Lindsay	16.0	9.3	.89	2.24	8.3				8	0	1/3	271 640
2	10-10	Patterson Lindsay	16.5	9.4	.95	2.24	8.9				9	0	1/4	"
3	10-18	Lindsay	16.0	9.2	.96	2.24	8.8				8	0	1/4	"
4	10-25	Patterson Lindsay	16.0	8.7	.93	2.20	8.1				8	0	1/4	"
5	11-8	"	16.5	9.2	.90	2.20	8.3				9	0	"	271 636
6	11-5	"	17.0	9.8	.89	2.23	8.7				11	0	1/3	"
7	11-22	Lindsay Cornick	17.0	9.8	.97	2.24	9.5				9	0	1/4	262 556
8	11-29	Lindsay	17.0	9.8	.88	2.24	8.6				10	0	1/4	271 636
9	12-5	Patterson Lindsay	16.5	9.3	.95	2.24	8.8				10	0	1/4	"
10	12-13	"	16.5	9.6	.99	2.25	9.5				9	0	1/4	"
11	12-20	Lindsay Green	17.9	9.8	.90	2.24	8.9				10	0	5/12	"
12	12-26	"	17.9	9.9	.86	2.25	8.5				10	0	"	"
13	1931 1-3	Patterson Lindsay	16.5	9.6	.99	2.25	9.5				10	0	1/4	"
14	1-7	Lindsay	17.0	10.8	1.04	2.30	11.3				10	0	5/12	"
15	1-10	Lindsay Green	17.0	10.9	1.06	2.30	11.6				10	0	"	"
16	1-15	Lindsay Dehring	20.0	15.8	1.39	2.47	21.9				10	0	"	"
17	1-17	"	20.3	15.8	1.37	2.48	21.5				10	0	"	"
18	1-24	Lindsay	17.0	13.1	1.50	2.40	19.6				10	0	1/3	262 556
19	1-31	"	17.0	13.5	1.54	2.44	20.8				10	0	1/2	"
20	2-6	"	20.0	17.1	1.44	2.47	24.7				10	0	5/12	"
21	2-14	Patterson-Lindsay	17.5	13.3	1.68	2.44	24.4				10	0	1/4	282 897
22	2-21	Lindsay Green	18.0	13.3	1.42	2.44	19.0				10	0	1/4	271 636
23	2-28	"	18.5	14.0	1.47	2.43	20.6				11	0	1/3	282 897
24	3-7	Patterson Waddicor	20.0	17.7	1.88	2.55	33.2				11	0	1/4	"
25	4-18	"	25.0	25.5	1.09	2.73	51.0				13	0	1/3	262 556
26	5-22	Patterson	30.0	32.5	2.25	3.12	73.0				10	0	1/2	"
27	5-28	"	30.0	33.2	2.30	3.02	76.4				10	0	1/3	"
28	6-6	"	27.5	29.2	2.16	2.90	63.1				10	0	1/3	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. **F2**

Discharge measurements of **San Gabriel River East Fork** River
at **P.W.D. Station 500 feet above mouth of Cattle Canyon** Creek
near _____, during the year ending September 30, 19 **30**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method Coef.	Meas. secs.	G. lit. change	Time	Meter No.
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec. ft.		Percent dit.	No.	Total	Hours
	1931											262
29	6-12	Patterson	26.0	26.4	2.08	2.85	54.9	.6	10	0	1/3	556
30	6-20	"	24.5	22.2	2.01	2.76	44.8	.6	8	0	1/4	"
31	6-27	"	25.5	23.8	1.53	2.69	36.5	.6	9	0	1/3	"
32	7-3	"	25.0	21.8	1.35	2.67	29.4	.6	9	0	1/4	"
33	7-9	Patterson-Bergman	25.0	20.8	1.24	2.62	25.8	.6	9	0	1/4	"
34	7-17	Patterson	26.0	21.2	1.14	2.60	24.2	.6	9	0	1/3	"
35	7-25	"	24.5	19.6	1.12	2.56	22.0	.6	9	0	1/3	"
36	8-1	"	24.0	17.3	.98	2.54	16.9	.6	9	0	1/3	"
37	8-8	"	23.0	15.6	.92	2.50	14.3	.6	9	0	1/3	"
38	8-15	"	24.0	16.4	.93	2.50	15.2	.6	12	0	1/3	"
39	8-22	"	23.0	15.3	.86	2.47	13.2	.6	12	0	1/3	"
40	8-29	"	23.0	15.1	.84	2.45	12.7	.6	12	0	1/3	"
41	9-5	Patterson-Bergman	23.0	14.5	.79	2.40	11.4	.6	11	0	1/4	"
42	9-12	Patterson	24.0	15.2	.83	2.48	13.4	.6	8	0	1/3	"
43	9-19	"	23.5	14.2	.84	2.43	11.9	.6	8	0	1/4	"
44	9-25	"	24.0	14.5	.87	2.47	12.6	.6	8	0	1/3	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 82

Rating table for San Gabriel River East Fork P.W.D. Station

500 feet above mouth of Cattle Canyon from 0.00, 1929, to Sat. 30, 1930

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.
2.00	0		3.00	70.50	1.12									
.02	.10	.08	.05	76.10										
.10	2.20	.36	.10	81.70										
.15	4.30	.42	.15	87.30										
.20	6.50	.44	.20	92.90										
.25	8.80	.46	.25	98.50										
.30	11.40	.52	.30	104.10										
.35	14.00	.56	.35	109.70										
.40	17.10	.58	.40	115.30										
.45	20.30	.64	.45	120.90										
.50	23.80	.70	.50	126.50										
.55	27.60	.76												
.60	31.50	.78												
.65	35.70	.84												
.70	40.00	.94												
.75	44.70	.94												
.80	49.40	.94												
.85	54.40	1.00												
.90	59.70	1.06												
.95	65.10	1.08												

The above table is not applicable for obstructed channel conditions. It is based on 44 discharge measurements made during 1929-1930.

and is fairly well defined between 8.0 second-feet and 54.0 second-feet.

Computed by W. T. K.
Checked by
Date

at East Fork P.W.D. Station 500 feet above mouth Cattle Canyon for the Year Ending September 30, 19 30

Drainage Area 8.18 Square Miles. G. Patterson [Observer.] Gage Read to continuous One Twice a Day. Used rating table dated

Maximum stage 3.46 feet at 7:45 pm on MAY 3 Discharge 122.02 second-feet. Minimum stage 2.20 feet at Oct. 6 & 8 Discharge 6.50 second-feet.

Table with columns for months (OCTOBER to SEPTEMBER) and days (1 to 31). Each month has sub-columns for Gage height and Discharge. Includes a 'DAY' column on the right and a 'Period Year' column at the bottom.

Summary table with rows for TOTAL, Mean Daily Discharge in Second-feet, Second-feet per square mile, Run-off, depth in inches, Run-off in acre-feet, Maximum Mean Daily Discharge in Second-feet, and Minimum Mean Daily Discharge in Second-feet.

Vertical text on the right side of the table, including 'Fred B.', 'Computed', 'Checked', and 'Date'.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. P2

Monthly discharge of **San Gabriel River East Fork** River
Creek

at **P.W.D. Station, 500' above mouth of Cattle** for the year ending Sept. 30, 19**30**
near **Canyon**

(Drainage area **58.2** square miles)

MONTH	DISCHARGE IN SECONDS-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	8.80	6.96	8.03			493.80	
November	9.32	8.34	9.13			543.35	
December	9.84	8.80	9.15			562.75	
January	22.40	8.80	16.70			1026.68	
February	23.80	19.02	21.89			1215.58	
March	95.14	21.70	53.37			3081.73	
April	66.18	45.64	55.29			3289.82	
May	100.77	48.46	83.05			5106.42	
June	68.34	33.18	49.64			2953.66	
July	31.50	16.52	24.35			1497.32	
August	15.94	10.88	13.72			844.00	
September	13.64	10.36	12.12			721.03	
The year period						21536.14	

NOTE:

192

P.1 SAN GABRIEL RIVER - WEST FORK
P.W.D. STATION, 1/2 MILE ABOVE FORKS.

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 square miles measured on U.S.G.S. topographic sheets.

Installed by

Pasadena Water Department.

Records Available

From Oct. 1, 1927 to Sept. 30, 1930 at Los Angeles County Flood Control District.

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 301.20 c.f.s. March 15, 1930.
Minimum 1.90 c.f.s. various times during year.

Diversions

None above gage.

Regulation

None.

Accuracy

Fair.

Cooperation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F1

Discharge measurements of San Gabriel River
at West Fork, P.W.D. Station during the year ending September 30, 19 30
near 1/2 Mile above Forks Creek

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Cont.	Mens. secs.	Alt. chg.	Time	Meter No.
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Percent disc.			No.	Total	Hours	
1	1929 10-3	Lindsay	5.0	1.8	1.05	1.55	1.79		.6		6	0	1/6	271 640
2	10-10	Patterson-Lindsay	5.0	2.2	1.18	1.56	2.6		.6		5	0	1/6	"
3	10-18	Lindsay	4.5	1.8	1.39	1.55	2.5		.6		5	0	"	"
4	11-8	Patterson-Lindsay	4.3	1.8	1.5	1.52	2.7		.6		5	0	"	271 636
5	11-15	"	4.4	1.9	1.58	1.53	3.0		.6		5	0	"	"
6	11-22	Lindsay	4.3	2.0	1.6	1.53	3.1		.6		4	0	"	262 575
7	11-29	"	4.3	2.0	1.75	1.58	3.5		.6		4	0	"	271 636
8	12-6	Patterson-Lindsay	4.5	2.2	1.68	1.62	3.7		.6		5	0	"	"
9	12-13	Lindsay - Green	5.0	2.6	1.81	1.64	4.7		.6		5	0	"	"
10	12-20	"	5.0	2.6	1.69	1.66	4.4		.6		5	0	"	"
11	12-26	"	5.0	2.6	1.73	1.66	4.5		.6		5	0	"	"
12	1930 1-7	Patterson	15.0	9.4	1.25	1.80	11.7		.6		10	0	1/4	262 556
13	1-23	Patterson-Lindsay	25.0	28.4	1.26	2.0	35.8		.6		12	0	"	"
14	1-31	"	24.0	26.0	1.23	1.94	32.0		.6		9	0	"	262 597
15	2-7	Patterson	25.0	24.9	1.06	1.89	26.3		.6		9	0	1/3	"
16	2-21	Lindsay-Green	24.0	19.6	.88	1.84	17.3		.6		11	0	1/4	271 636
17	2-28	Patterson-Green	24.0	22.2	.94	1.85	21.0		.6		13	0	5/12	262 597
18	3-7	Patterson-Waddicor	25.0	30.5	1.11	1.98	34.0		.6		13	0	1/3	"
19	4-11	"	25.0	23.6	1.74	2.06	41.0		.6		13	0	1/3	262 556
20	4-18	"	25.0	20.6	1.52	1.96	31.4		.6		10	0	5/12	"
21	5-2	Waddicor	26.0	26.4	2.09	2.50	53.0		.6		7	0	1/6	"
22	5-16	"	27.0	41.0	1.39	2.30	57.18		.6		4	0	1/4	"
23	5-23	Patterson	26.0	22.4	1.61	2.40	36.1		.6		10	0	1/3	"
24	5-28	"	24.5	19.4	1.46	2.20	28.4		.6		10	0	1/3	"
25	6-6	"	23.5	17.4	1.39	2.00	24.2		.6		9	0	1/3	"
26	6-13	"	22.5	14.9	1.29	1.80	19.2		.6		9	0	1/3	"
27	6-20	"	21.5	13.0	1.18	1.74	15.4		.6		8	0	1/3	"
28	6-27	"	20.5	11.4	1.03	1.62	11.7		.6		8	0	1/4	"

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **PI**

Discharge measurements of

San Gabriel

River
~~San Gabriel~~

at
near

West Fork, P.W.D. Station
1/2 Mile above Forks.

, during the year ending September 30, 19 **30**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method	Coef.	Meas. sec.	G. H. change	Time	Notes
			Feet	Sq. ft.	ft. per sec.	Feet	Sec.-ft.						
1930													
29	7-3	Patterson	19.5	10.4	.89	1.62	9.3		.6	7	0	1/4	262 556
30	7-11	"	19.0	9.9	.81	1.57	8.0		.6	7	0	1/4	"
31	7-17	"	18.5	9.3	.76	1.53	7.1		.6	7	0	1/4	"
32	7-25	"	18.5	8.7	.68	1.53	5.9		.6	7	0	2/3	"
33	8-1	"	5.5	3.1	1.58	1.50	4.9		.6	4	0	1/4	"
34	8-8	"	5.0	2.8	1.36	1.51	3.8		.6	4	0	1/4	"
35	8-14	Lindsay	10.2	4.3	.91	1.48	3.9		.6	5	0	1/4	280 833
36	8-21	"	10.0	5.0	.70	1.44	3.5		.6	6	0	1/12	"
37	8-28	"	8.0	5.4	.59	1.44	3.2		.6	4	0	"	"
38	9-5	Patterson	5.0	2.7	1.37	1.44	3.7		.6	4	0	1/4	262 516
39	9-12	"	5.3	3.0	1.50	1.50	4.5		.6	4	0	1/6	"
40	9-19	"	5.0	2.8	1.39	1.47	3.9		.6	4	0	1/4	"
41	9-25	"	5.0	2.8	1.43	1.49	4.0		.6	4	0	1/4	"

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

At P.W.D. Station, 1/2 mile above Forks for the Year Ending September 30, 1950

Drainage Area 104 Square Miles. G. Patterson Observer.

Gage Read to Continuous One Twice a Day.

Used rating table dated

Maximum stage 4.57 feet at 8 p.m. on March 15 Discharge 301.20 second-feet. Minimum stage 1.34 feet at various times on Discharge 1.90 second-feet.

Main data table with columns for months (OCTOBER to SEPTEMBER), days (1-31), gage height, and discharge. Includes quarterly markers (Quarter, First, Second, Third, Fourth) and a 'DAY' column on the far right.

Summary table with rows for 'TOTAL', 'Mean Daily Discharge in Second-foot', 'Second-foot per square mile', 'Run-off, depth in inches', 'Run-off in acre-feet', 'Maximum Mean Daily Discharge in Second-foot', and 'Minimum Mean Daily Discharge in Second-foot'. Includes a 'PERIOD YEAR' label.

Vertical text on the right side: Computed, Checked, Date, Disch. applied, Disch. checked, Date, G. H. Copied, G. H. checked, Date, PERIOD YEAR.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. P1

Monthly discharge of San Gabriel River - West Fork River
Creek

at P.W.D. Station, 1/2 mile above Forks for the year ending Sept. 30, 1930

(Drainage area 106.23 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	2.60	1.90	2.06			126.74	
November	4.20	2.60	3.59			213.82	
December	5.50	4.00	4.72			290.48	
January	59.40	4.45	28.78			1769.85	
February	33.70	21.00	27.07			1503.37	
March	225.3	22.20	92.82			5707.43	
April	91.10	24.00	43.77			2604.49	
May	140.6	21.6	68.08			4185.82	
June	24.0	9.10	17.42			1036.76	
July	9.10	4.20	6.64			408.20	
August	4.95	2.60	3.64			227.83	
September	4.45	3.20	3.93			234.15	
The year period						18304.94	

NOTE:

SAN GABRIEL RIVER WEST FORK
3 1/2 MILES ABOVE NORTH FORK

Location

On north bank of West Fork, San Gabriel River,
3 1/2 miles above junction of the West and North
Forks.

Drainage Area

48.97 square miles

Installed by

L.A. County Flood Control District August 1929.

Records Available

October 1, 1929 to September 30, 1930.

Gage

20, continuous type, water stage recorder in-
stalled in galvanized iron shelter house on
corrugated iron stilling well and secured to a
vertical rock back approximately 40 feet high.

Discharge measurements

High water flows are measured from gage
located just below recorder house. Low water
measurements by radius near gage.

Channel and control

Channel - sand and gravel, rock and boulders.
Control - rock and gravel

Extremes of Discharge

Maximum 206 c.f.s. March 14, 1930
Minimum 2.06 c.f.s. various times.

Diversions

None above gage

Regulation

None

Accuracy

Fair

Cooperation

Located, constructed and operated by the
L.A.C.F.D.

500

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 97

Discharge measurements of **San Gabriel River - West Fork**

River
Creek

at **3 1/2 Miles above North Fork**
near

during the year ending September 30, 19 **30**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Labor	Method	Cost	Wass. gage	G. H.	Time	Meter No.
			Feet	Sq. ft.	Ft per sec.	Feet	Sec. ft.					Percent full		
1929														
1	11-14	Patterson Lindsay	1.5	.61	.39	2.30	.24			.6	3	0	1/12	262 556
2	1-13	Patterson Dehring	8.0	7.4	.66	2.86	4.9			.6	8	17	1/3	271 636
3	1-19	R. Lindsay	19.0	14.7	1.65	3.25	24.2			.6	10	0	1/3	262 556
4	1-29	Patterson Lindsay	19.5	13.9	1.30	3.17	18.1			.6	11	0	1/4	"
5	2-14	"	24.0	22.5	.92	1.85	20.9			.6	12	0	1/4	282 897
6	2-21	Patterson	18.5	8.0	.86	2.83	6.9			.6	10	0	1/3	"
7	3-13	Patterson Waddicor	19.0	9.7	.94	3.33	9.1			.6	9	0	1/6	262 556
8	3-27	"	20.5	24.28	2.04	3.32	49.58			.6	14	0	1/3	"
9	4-3	"	21.3	16.8	1.54	3.11	25.9			.6	11	0	"	"
10	4-17	"	19.0	14.2	0.75	2.90	10.7			.6	10	0	"	"
11	4-24	"	13.0	6.7	1.25	2.92	8.3			.6	7	0	1/3	"
12	5-8	R. Waddicor	39.0	23.4	1.78	3.31	41.5			.6	7	0	1/4	"
13	5-23	G. Patterson	12.0	7.9	1.54	3.01	12.2			.6	6	0	1/4	"
14	5-28	"				2.97	10.0							
14A	6-5	Patterson Lindsay	11.0	6.4	1.28	2.90	8.2			.6	7	0	1/4	"
15	6-13	Patterson	11.0	5.7	1.28	2.83	7.3			.6	6	0	1/3	"
16	6-19	Patterson	10.0	4.9	1.10	2.76	5.4			.6	6	0	1/3	"
17	6-26	"	8.0	3.2	1.06	2.65	3.4			.6	4	0	1/4	"
17A	7-5	"				3.0								
18	7-11	"	8.0	2.5	.84	2.97	2.1			.6	4	0	1/4	"
19	7-18	"	6.0	3.0	.43	2.74	1.3			.6	4	0	1/4	"
20	7-24	"	4.0	1.76	.39	2.71	.69			.6	4	0	"	"
21	7-30	"	4.0	1.58	.35	2.60	.55			.6	4	0	"	"
22	8-9	"					.50							
23	8-4	Lindsay				2.70	.40							
24	8-21	"					.35							
25	8-28	"					.25							

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Page 97

Discharge measurements of **SAN GABRIEL RIVER - WEST FORK**

River
Creek

at **3 1/2 Miles Above North Fork**
near

during the year ending September 30, 19 **30**

No.	Date	Made by	Width Feet	Area of section Sq. ft.	Mean velocity Feet per sec.	Area Feet	Discharge cfs.	Rating ft.	Channel Cuts	Water stage Feet	Stage above datum Feet	Water stage Feet
1930												
26	9-4	Patterson	2.5	.85	.35	2.52	.28		.6	3	0	1/8 262 556
27	9-11	"	4.0	1.54	.57	2.69	.88		.6	4	0	1/4 "
28	9-17	"	4.0	1.31	.50	2.62	.65		.6	4	0	1/4 "
29	9-24	"	3.5	1.06	.44	2.70	.47		.6	4	0	1/4 "

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **PI**

Rating table for San Gabriel R. West Fork - P.W.D. Station

$\frac{1}{2}$ Mile above Forks, from Oct. 1, 1929, to Sept. 30, 1930.

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.
1.20	.30	.10	.60	8.30	.35	2.00	29.70	.75	.40	63.00	1.10	.40	176.00	
.22	.50		.62	9.10		.02	31.80		.45	73.50		.50	189.00	
.24	.70		.64	9.80	.40	.04	32.80	.90	.50	78.00		.60	200.	
.26	.90		.66	10.60		.06	34.60		.55	84.00		.70	211.	
.28	1.10		.68	11.40	.45	.08	36.20		.60	90.		.80	222.	
.30	1.30	.15	.70	12.30		.10	38.		.65	95.00		.90	233.	
.32	1.60		.72	13.20		.12	39.80		.70	101	4.00	4.00	244.	
.34	1.90		.74	14.10		.14	41.60		.75	106.50		.10	255.	
.36	2.20		.76	15.	.50	.16	43.40		.80	112		.20	266	
.38	2.60	.20	.78	16.		.18	45.20		.85	117.50		.30	277	
.40	3.		.80	17.	.55	.20	47.	1.00	.90	123.		.40	288	
.42	3.40		.82	18.10		.22	49.		.95	128.50		.50	299.	
.44	3.80		.84	19.20	.60	.24	51.	1.35	1.00	135.00		.60	310.	
.46	4.20	.20	.86	20.40		.26	53.10		.95	139.50				
.48	4.70	.25	.88	21.60		.28	55.20		1.0	145.				
.50	5.20	.30	.90	22.80		.30	57.30		1.0	150.50				
.52	5.80		.92	24.	.70	.32	59.40		1.20	156.00				
.54	6.40		.94	25.40		.34	61.50		1.25	161.50				
.56	7.00		.96	26.80		.36	63.60		1.30	167.00				
.58	7.60	.30	.98	28.20		.38	65.80	1.10	1.35	172.50				

The above table is not applicable for obstructed channel conditions. It is based on 41 discharge measurements made during 1929-1930

and is fairly well defined between 2 second-feet and 57 second feet.

Computed by 78.

Checked by

Date Dec. 11, 1930

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 97

San Gabriel/ West Fork - 3 1/2 miles above North Fork

Rating table for

from Sept. 30, 1929, to Oct. 1, 1930

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.
2.30	.25		.30	40.80	.92	.30	132.80							
.35	.26		.35	45.40										
.40	.27		.40	50.00										
.45	.28		.45	54.60										
.50	.30		.50	59.20										
.55	.35	.01	.55	63.80										
.60	.55	.04	.60	68.40										
.65	1.00	.09	.65	73.00										
.70	1.75	.15	.70	77.60										
.75	2.90	.23	.75	82.20										
.80	4.55	.33	.80	86.80										
.85	6.75	.44	.85	91.40		8.05	.20							
.90	9.45	.54	.90	96.00		.10	.21							
.95	12.45	.60	.95	100.60		.15	.22							
3.00	15.80	.67	4.00	105.20		.20	.23							
.95	19.40	.72	.05	109.80		.25	.24							
.10	23.85	.77	.10	114.40		.30	.25							
.15	27.40	.83	.15	119.00										
.20	31.72	.86	.20	123.60										
.25	36.20	.90	.25	128.20										
		.92												

The above table is not applicable for obstructed channel conditions. It is based on 29 discharge measurements made during

and is well defined between .24 second-feet and 50.00 second-feet.

Computed by

Checked by

Date

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of San Gabriel River
West Fork - 3 1/2 Miles above North Park for the Year Ending September 30, 1930

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 98

Drainage Area 49. Square Miles. [G. Patterson Observer.] Gage Read to continuous One Twice a Day.

Used rating table dated

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	2.29	.25	2.14	.22	2.47	.29	2.62	.73	13.00	15.80	2.88	8.37	3.20	31.70	3.16	28.26	2.93	11.25	12.58	.47	2.68	1.45	2.57	.43	1
2	2.33	.26	2.14	.22	2.47	.29	2.62	.73	12.99	15.13	2.89	8.91	3.19	30.84	3.17	29.12	2.93	11.25	12.57	.43	2.68	1.45	2.57	.43	2
3	2.33	.26	2.14	.22	2.48	.29	2.61	.64	12.98	14.46	2.88	8.37	3.12	24.91	3.51	60.12	2.93	11.25	12.57	.43	2.68	1.45	2.57	.43	3
4	2.31	.25	2.14	.22	2.50	.30	2.63	.82	12.96	13.12	3.04	18.68	3.10	23.25	3.71	71.52	2.90	9.45	12.56	.39	2.68	1.45	2.56	.39	4
5	2.29	.25	2.15	.22	2.51	.31	2.63	1.00	12.95	12.45	3.56	64.72	3.03	21.71	3.51	60.12	2.88	8.37	12.56	.35	2.69	1.60	2.55	.35	5
6	2.28	.25	2.19	.23	2.51	.31	2.69	1.60	12.94	11.85	3.17	29.12	3.07	20.94	3.43	52.75	2.88	8.37	12.54	.34	2.68	1.45	2.56	.39	6
7	2.27	.24	2.23	.24	2.52	.32	2.76	3.23	12.92	10.65	3.12	24.91	3.07	20.94	3.35	46.22	2.87	7.83	12.53	.33	2.69	1.60	2.60	.55	7
8	2.26	.24	2.25	.24	2.53	.33	2.72	2.21	12.91	10.05	3.07	20.94	3.06	20.17	3.32	42.64	2.87	7.83	12.52	.32	2.71	1.93	2.63	.82	8
9	2.27	.24	2.26	.24	2.53	.33	2.66	1.15	12.90	9.45	3.05	19.40	3.05	19.40	3.25	37.12	2.86	7.29	12.51	.31	2.72	2.21	2.63	.82	9
10	2.20	.23	2.29	.25	2.54	.34	2.80	4.55	12.89	8.91	3.03	17.96	3.04	12.68	3.22	33.50	2.86	7.29	12.50	.32	2.72	2.21	2.64	.91	10
11	2.20	.23	2.30	.25	2.53	.33	2.88	8.37	12.87	7.83	3.00	15.80	3.02	17.24	3.20	31.70	2.86	7.29	2.95	12.45	2.72	2.21	2.63	.82	11
12	2.19	.23	2.25	.24	2.54	.34	2.91	10.05	12.87	7.83	2.98	14.46	3.00	15.80	3.17	29.12	2.85	6.75	2.92	10.65	2.70	1.75	2.65	1.00	12
13	2.14	.23	2.24	.24	2.54	.34	2.81	4.99	12.87	7.83	2.97	13.79	3.00	15.80	3.16	28.26	2.86	7.29	2.86	7.29	2.62	1.60	2.67	1.30	13
14	2.17	.22	2.29	.25	2.54	.34	12.86	7.29	12.86	7.29	4.02	107.01	2.95	14.46	3.15	27.40	2.85	6.75	2.84	6.31	2.68	1.45	2.67	1.30	14
15	2.18	.23	2.31	.25	2.55	.35	12.90	9.45	12.86	7.29	4.26	129.12	2.95	12.45	3.12	24.91	2.84	6.31	2.80	4.55	2.68	1.45	2.66	1.15	15
16	2.19	.23	2.31	.25	2.55	.35	12.94	11.85	12.86	7.29	4.12	116.24	2.94	11.85	3.13	25.74	2.83	5.87	2.77	3.56	2.69	1.60	2.66	1.15	16
17	2.20	.23	2.33	.26	2.56	.39	12.99	15.13	12.85	6.75	4.07	111.64	2.93	11.25	3.12	24.91	2.82	5.43	2.75	2.90	2.70	1.75	2.65	1.00	17
18	2.21	.23	2.32	.25	2.54	.34	13.04	18.68	12.85	6.75	3.97	102.44	2.89	8.91	3.09	22.42	2.80	4.55	2.72	2.21	2.69	1.60	2.62	.73	18
19	2.20	.23	2.33	.26	2.52	.32	3.08	21.71	12.85	6.75	3.82	88.64	2.88	8.57	3.05	19.40	2.81	4.99	2.70	1.75	2.68	1.45	2.60	.55	19
20	2.15	.22	2.33	.26	2.52	.32	3.04	18.68	12.84	6.31	3.79	85.85	2.86	7.29	3.04	17.26	2.85	6.75	2.69	1.60	2.67	1.30	2.58	.47	20
21	2.12	.21	2.34	.26	2.56	.39	3.06	20.17	2.85	6.75	3.77	80.24	2.85	6.75	3.01	12.52	2.87	7.53	2.66	1.15	2.66	1.15	2.59	.51	21
22	2.10	.21	2.34	.26	2.57	.43	3.04	18.68	2.92	10.65	3.70	77.50	2.84	6.71	2.98	14.46	2.87	7.83	2.66	1.15	2.64	.91	2.59	.51	22
23	2.08	.21	2.35	.26	2.58	.47	2.99	15.13	3.05	19.40	3.67	71.21	2.83	5.87	2.96	13.12	2.86	7.29	2.64	.91	2.63	.32	2.60	.55	23
24	2.06	.20	2.36	.25	2.58	.47	2.94	11.85	2.92	11.13	3.69	76.62	2.85	6.75	2.95	12.45	2.82	5.43	2.63	.32	2.61	.64	2.60	.55	24
25	2.07	.20	2.37	.25	2.58	.47	2.96	13.12	2.93	11.25	3.60	68.40	2.89	8.91	2.94	11.85	2.79	4.22	2.63	.52	2.60	.55	2.60	.55	25
26	2.04	.21	2.38	.27	2.60	.55	2.97	13.79	2.93	11.25	3.49	52.08	2.89	8.91	2.93	11.25	2.76	3.23	2.64	.91	2.58	.47	2.56	.39	26
27	2.09	.21	2.39	.27	2.61	.64	3.04	18.68	2.91	10.05	3.42	51.21	2.90	9.45	2.92	10.65	2.68	1.45	2.64	.91	2.58	.47	2.52	.32	27
28	2.11	.21	2.42	.28	2.61	.64	3.08	21.71	2.90	9.45	3.36	47.21	2.89	8.91	2.92	10.65	2.66	1.15	2.66	1.15	2.58	.47	2.51	.31	28
29	2.12	.21	2.45	.28	2.61	.64	3.03	17.96	-	-	3.31	42.64	2.90	9.45	2.92	10.65	2.61	.64	2.67	1.30	2.57	.43	2.54	.34	29
30	2.12	.21	2.47	.29	2.61	.64	3.02	17.24	-	-	3.28	32.96	3.08	21.71	2.93	11.25	2.59	.51	2.68	1.45	2.57	.43	2.56	.39	30
31	2.13	.22	-	-	2.62	.73	13.00	15.80	-	-	3.27	33.01	-	-	2.93	11.25	-	-	2.68	1.45	2.57	.43	-	-	31

TOTAL.	7.05	7.50	12.60	326.99	287.72	1660.79	442.98	854.26	191.74	69.02	39.72	19.41
Mean Daily Discharge in Second-foot	.23	.25	.41	10.55	10.28	53.57	14.97	28.48	6.39	2.23	1.28	.65
Second-foot per square mile												
Run-off, depth in inches												
Run-off in acre-feet	13.98	14.88	24.99	648.57	570.68	3294.1	890.53	1694.40	380.31	136.90	78.90	38.50
Maximum Mean Daily Discharge in Second-foot	.26	.29	.73	21.71	19.40	122.1	31.70	78.52	11.25	12.45	2.21	1.30
Minimum Mean Daily Discharge in Second-foot	.20	.22	.29	.64	6.31	8.3	5.87	10.65	.51	.30	.43	.31

Computed by F. V. S. E.
 Checked by Fred E.
 Disch. applied by Fred E.
 Disch. checked by Fred E.
 G. H. Copied by Fred E.
 G. H. Checked by Fred E.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 97

Monthly discharge of **River**
San Gabriel - West Fork

~~XXXX~~
~~XXXX~~

~~XX~~
~~XXXX~~

$3\frac{1}{2}$ miles above North Fork

for the year ending Sept. 30, 1930

(Drainage area **48.97** square miles)

MONTH	DISCHARGE IN SECONDS-FEET				R: N-011		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre-feet	
October	.26	.20	.23			13.98	
November	.29	.22	.25			14.83	
December	.73	.29	.41			24.99	
January	21.71	.64	10.55			648.57	
February	19.40	6.31	10.28			570.68	
March	129.12	8.37	53.57			3294.13	
April	31.70	5.87	14.97			890.53	
May	78.52	10.65	28.48			1694.40	
June	11.25	.51	6.39			380.31	
July	12.45	.30	2.23			136.90	
August	2.21	.43	1.28			78.90	
September	1.30	.31	.65			38.50	
The year period						7786.77	

NOTE:

SAN GABRIEL RIVER EDISON INTAKE

Location

In SE 1/4 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 some 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, 1930
at Los Angeles County Flood Control District
offices.

Gage

Vertical staff gage on wall of concrete stilling
well, on west bank of stream. Au 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 con-
trolled by boulder dam in stream. Control changed
during season 1929-30. High water flow controlled
by diversion dam 500' below gage.

Extremes of Discharge

Minimum 8.65 c.f.s. Oct. 14, 1930.
Maximum 799 c.f.s. May 3, 1930

Cooperation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Discharge measurements of **San Gabriel**

River
creek

near **Edison Intake**

during the year ending September 30, 1930

No.	Date	Made by	Width		Mean velocity	Discharge		Method	Coef.	Gage	G. H. change		Time	Meter No.
			Feet	Sect.		Feet	Sect.				No.	Feet		
1929														
1	10-5	Patterson-Lindsay	13.3	12.8	.88	4.44	11.3		.6	7	0	1/4	271 640	
2	10-12	R. Lindsay	13.5	12.9	.85	4.48	11.0		.6	7	0	"	"	
3	10-19	"	13.5	13.1	.90	4.51	11.8		.6	7	0	"	"	
4	10-26	Patterson-Lindsay	13.0	12.9	.87	4.45	11.2		.6	7	0	"	"	
5	11-2	"	13.5	12.9	.92	4.47	11.9		.6	8	0	"	271 636	
6	11-9	"	13.2	13.3	1.01	4.50	13.5		.6	8	0	1/3	"	
7	11-16	"	13.0	13.1	.97	4.50	12.7		.6	7	0	1/4	"	
8	11-23	"	13.5	13.4	.90	4.53	12.9		.6	7	0	"	"	
9	11-30	"	13.5	13.4	1.05	4.54	14.1		.6	8	0	"	"	
10	12-7	"	13.5	13.5	1.01	4.56	13.6		.6	8	0	"	"	
11	12-14	"	13.5	13.8	1.12	4.58	15.5		.6	8	0	"	"	
12	12-21	"	13.5	13.7	1.00	4.58	13.7		.6	8	0	"	"	
13	12-28	"	13.5	13.6	1.11	4.60	15.1		.6	8	0	"	"	
14	1-4	"	13.5	13.8	1.12	4.62	15.4		.6	8	0	"	"	
15	1-5	R. Lindsay	19.16	21.9	.70	4.65	15.4		.6	13	0	5/12	"	
15A	1-5	Patterson-Lindsay	13.5	9.9	2.16	4.70	21.4		.6	8	0	1/4	"	
16	1-6	R. Lindsay	13.5	17.2	1.13	4.67	19.5		.6	8	0	"	"	
17	1-7	Lindsay-Dehring	46.5	28.1	1.07	4.79	30.2		.6	12	0	1/3	"	
18	1-7	Patterson-Lindsay	47.0	28.9	1.03	4.74	29.8		.6	15	0	"	"	
19	1-11	"	47.0	36.6	1.30	4.59	47.5		.6	16	02	"	"	
20	1-15	Patterson-Green	54.0	54.2	1.83	4.82	98.9		.6	18	02	5/12	262 556	
21	1-15	"	55.0	60.6	2.09	4.85	126.5		.6	14	0	"	"	
22	1-16	"	54.0	54.4	2.01	4.23	109.3		.6	18	0	"	282 897	
23	1-18	Patterson-Lindsay	53.0	48.8	1.73	4.63	87.0		.6	18	0	"	"	
24	1-25	"	50.0	37.3	1.40	4.48	52.3		.6	17	0	1/3	"	
25	1-27	"	51.0	42.7	1.59	4.52	67.9		.6	17	0	5/12	"	
26	2-1	"	50.0	38.0	1.41	4.45	53.4		.6	17	0	1/3	"	
27	2-7	"	50.0	36.7	1.34	4.44	49.3		.6	17	0	5/12	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

July 26, 28

Discharge measurements of

San Gabriel

River

at
near

Edison Intake

during the year ending September 30, 19 30

No.	Date	Name of Intake	Area of Basin (Acres)	Area of Basin (Sq. Miles)	Time of Travel (Hrs.)	Area of Basin (Acres)	Discharge (Cfs.)	Ratio	Peak Flood (Cfs.)	Time of Peak (Hrs.)	Mean Flood (Cfs.)	Total Volume (Acre-Feet)	Notes
1930													
28	2-15	Patterson-Lindsay	49.5	34.3	1.30	4.43	44.5	.6	17 0	1/2	282	897	
29	2-22	"	49.0	33.4	1.20	4.38	40.2	.6	17 0	5/12	"	"	
30	2-23	"	5 1.0	44.1	1.71	4.55	75.6	.6	17 01	"	"	"	
31	2-28	Patterson-Green	49.0	35.2	1.32	4.42	45.7	.6	8 0	1/2	"	"	
32	3-5	Patterson-Waddicor	56.5	69.5	2.57	4.95	178.4	.6	18 01	"	262	516	
33	3-5	"	55.0	56.4	2.40	4.79	126.6	.6	18 0	5/12	"	"	
34	3-6	"	53.0	49.1	1.90	4.63	93.1	.6	17 0	"	282	507	
35	3-8	"	51.5	37.9	1.76	4.50	71.0	.6	6 0	"	262	550	
36	3-14	"	60.0	111.4	3.80	5.52	423.5	.6	15 0	2/3	"	"	
37	3-14	Patterson-Green	85.0	161.	5.34	5.67	731.2	.6 .85	17 0	5/6	271	636	
38	3-15	Patterson-Waddicor	89.0	134.5	3.90	5.23	445.7	.6	18 0	7/12	"	"	
39	3-15	"	62.0	113.6	3.45	5.24	391.8	.6	13 0	2/3	262	550	
40	3-15	"	90.0	171.0	4.20	5.61	718.1	.6 .85	18 0	3/4	271	636	
41	3-16	Patterson-Thrasher	57.5	94.4	2.93	5.11	276.3	.6	15 0	7/12	262	516	
42	3-18	Patterson-Waddicor	57.0	90.5	3.02	5.07	273.3	.6	15 0	5/12	262	516	
43	3-19	"	56.5	84.6	2.66	4.94	224.9	.6	14 0	1/3	"	"	
44	3-21	"	56.5	88.3	2.52	4.95	222.1	.6	14 0	5/12	262	516	
45	3-22	"	57.0	91.0	2.79	5.02	253.5	.6	15 0	1/2	"	"	
46	3-25	"	58.0	103.4	3.01	5.10	310.8	.6	15 0	"	"	"	
47	3-29	"	57.0	85.1	2.42	4.90	205.9	.6	14 0	"	"	"	
48	4-1	"	56.0	77.9	2.22	4.84	173.2	.6	14 0	"	"	"	
49	4-2	"	56.0	75.4	2.14	4.84	161.2	.6	14 0	1/3	"	"	
50	4-5	"	55.0	68.1	1.99	4.75	135.5	.6	14 0	"	"	"	
51	4-12	"	54.0	62.9	1.97	4.68	124.2	.6	14 0	"	"	"	
52	4-15	"	53.5	60.7	1.83	4.65	110.9	.6	18 0	1/2	"	"	
53	4-19	"	54.0	56.6	1.65	4.60	93.4	.6	14 0	1/3	"	"	
54	4-22	"	53.0	56.0	1.65	4.59	92.2	.6	14 0	1/2	"	"	
55	4-26	"	52.5	53.3	1.58	4.58	84.2	.6	13 0	1/3	"	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Page No. 28

Discharge measurements of **San Gabriel**

at **Edison Intake**
near

during the year ending September 30, 1930

Date	Name of	Width (feet)	Area of Section (sq. ft.)	Mean velocity (ft. per sec.)	Discharge		Percent error	Mean stage (feet)	G. P. S. distance (feet)	Mean stage (feet)	Mean stage (feet)	Mean stage (feet)
					Cu. ft. per sec.	Sec. ft.						
56	5-1 Patterson-Waddicor	54.5	60.8	1.94	4.67	118.1	.6	14	0	1/3	262	556
57	5-3 "	56.0	70.2	2.19	4.79	153.8	.6	14	0	"	"	"
58	5-3 "	90.0	147.0	4.84	5.40	712.2	.6	17	10	2/3	271	636
59	5-3 "	90.0	153.3	5.07	5.49	776.8	.6	10	06	"	"	"
60	5-4 Patterson-Green	91.0	144.3	4.04	5.24	583.7	.6	10	01	5/12	"	"
61	5-5 Patterson-Waddicor	86.0	124.0	3.66	5.13	453.4	.6	17	0	2/3	"	"
62	5-7 "	57.5	89.2	2.96	5.02	264.4	.6	14	0	1/3	262	556
63	5-10 "	57.0	80.0	2.68	4.93	214.6	.6	14	0	1/2	"	"
64	5-17 "	56.0	76.6	2.69	4.88	206.5	.6	14	0	1/3	"	"
65	5-24 G. Patterson	55.0	66.9	2.20	4.73	147.5	.6	14	0	5/12	"	"
66	5-31 "	54.0	61.0	1.97	4.65	119.9	.6	14	0	1/3	"	"
67	6-7 "	53.5	55.5	1.81	4.53	100.4	.6	18	0	1/2	"	"
68	6-14 "	52.0	50.7	1.59	4.50	80.5	.6	13	0	1/2	"	"
69	6-21 "	50.5	48.0	1.48	4.46	71.5	.6	13	0	1/3	"	"
70	6-28 "	51.0	41.6	1.30	4.38	54.3	.6	13	0	1/2	"	"
71	7-5 "	51.5	39.7	1.21	4.34	48.2	.6	13	0	1/3	"	"
72	7-11 "	50.0	35.8	1.11	4.61	39.7	.6	12	0	1/2	"	"
73	7-19 "	50.0	33.7	.99	4.54	33.5	.6	12	0	1/3	"	"
74	7-26 "	50.0	31.7	.93	4.30	29.6	.6	13	0	"	"	"
75	8-2 "	49.0	30.0	.84	4.44	25.2	.6	12	0	"	"	"
76	8-9 "	49.0	28.3	.80	4.45	22.5	.6	12	0	"	"	"
77	8-16 "	49.0	28.3	.80	4.43	22.6	.6	12	0	"	"	"
78	8-23 "	49.0	27.2	.68	4.36	18.6	.6	12	0	"	"	"
79	8-30 "	49.0	26.8	.69	4.41	18.6	.6	12	0	"	"	"
80	9-6 "	49.0	26.2	.68	4.36	18.2	.6	12	0	1/2	"	"
81	9-13 "	49.0	29.1	.76	4.44	22.0	.6	12	0	"	"	"
82	9-20 "	49.0	27.7	.69	4.37	19.2	.6	12	0	"	"	"
83	9-27 "	49.0	28.7	.74	4.44	21.2	.6	12	0	"	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Rating table for San Gabriel at Edison Intake

, from Oct. 1, 1929, to Jan. 11, 1930

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.
4.35	10.2	.1	4.55	14.1	.4									
.36	10.3		.56	14.5										
.37	10.4		.57	14.9	.5									
.38	10.5		.58	15.4										
.39	10.6		.59	15.9										
.40	10.7		.60	16.4										
.41	10.8		.61	16.9										
.42	10.9		.62	17.4										
.43	11.1	.2	.63	17.9	.6									
.44	11.3		.64	18.5										
.45	11.5		.65	19.1										
.46	11.7		.66	19.7	.7									
.47	11.9		.67	20.4										
.48	12.1		.68	21.1										
.49	12.3		.69	21.8										
.50	12.5	.3	.70	22.5	.8									
.51	12.8		.71	23.3										
.52	13.1		.72	24.1										
.53	13.4		.73	24.9										
.54	13.7	.4	.74	25.7										

The above table is not applicable for obstructed channel conditions. It is based on 18 discharge measurements made during Oct. 1, 1929 to Jan. 11, 1930

and is fairly well defined between 11.0 second-feet and 30.2 second-feet.

Computed by H. vd. G.
Checked by J. L. Irwin
Date 11/26/30

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. _____

Rating table for San Gabriel at Edison Intake

from Jan. 11, 1930 to 9 p.m. Mar. 14, 1930

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.
4.35	38.0		4.55	72.		4.75	118.5							
.36	39.0	1.	.56	74	2	.76	121.0							
.37	40.0		.57	76		.77	124.0	3.0						
.38	41.0		.58	78		.78	127.0							
.39	42.5	1.5	.59	80		.79	130.0							
.40	44.0		.60	82		.80	133.0							
.41	45.3		.61	84										
.42	47		.62	86										
.43	48.5		.63	88.5	2.5									
.44	50		.64	91.0										
.45	52	2	.65	93.5										
.46	54		.66	96.0										
.47	56		.67	98.5										
.48	58		.68	101.0										
.49	60		.69	103.5										
.50	62		.70	106.0										
.51	64		.71	108.5										
.52	66		.72	111.0										
.53	68		.73	113.5										
.54	70		.74	116.0										

The above table is not applicable for obstructed channel conditions. It is based on 13 discharge measurements made during January 11, 1930 - March 4, 1930

and is fairly well defined between 40 second-feet and 126 second-feet.

Computed by Hvdg.
Checked by J.L.I.
Date 11/26/30

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of

San Gabriel

River
Creek

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Edison Intake
Near

for the Year Ending September 30, 1930

Drainage Area.....201.97.....Square Miles.

[G. Patterson.....Observer.]

Gage Read Continuous

One
Twice a Day.

Used rating table dated.....

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	4.46	11.7	4.48	12.1	4.54	13.7	4.50	14.5	4.45	52.0	4.39	42.5	4.84	179.5	4.71	128.5	4.65	108.0	4.41	47.5	4.43	22.1	4.34	17.6	1	
2	4.47	11.9	4.47	11.9	4.56	14.5	4.56	14.5	4.44	50.0	4.39	42.5	4.79	159.0	4.70	125.0	4.65	108.0	4.41	47.5	4.43	22.1	4.33	17.2	2	
3	4.45	11.5	4.45	11.5	4.54	13.7	4.57	14.9	4.44	50.0	4.39	42.5	4.76	147.0	5.06	286.0	4.66	111.0	4.39	43.5	4.43	22.1	4.33	17.2	3	
4	4.43	11.1	4.47	11.9	4.53	13.4	4.58	15.4	4.43	48.5	4.42	47.0	4.74	139.0	5.49	587.0	4.65	108.0	4.37	40.0	4.42	21.4	4.34	17.6	4	
5	4.43	11.1	4.48	12.1	4.52	13.1	4.63	17.9	4.43	48.5	4.80	133.0	4.72	132.0	5.34	463.00	4.62	99.0	4.39	43.5	4.42	21.4	4.34	17.6	5	
6	4.42	10.9	4.50	12.5	4.52	13.1	4.67	20.4	4.43	48.5	4.65	93.5	4.72	132.0	5.16	342.0	4.59	90.0	4.38	42.0	4.42	21.4	4.35	18.0	6	
7	4.41	10.8	4.51	12.8	4.53	13.4	4.70	22.5	4.43	48.5	4.56	72.0	4.72	132.0	5.03	270.0	4.61	96.0	4.36	39.0	4.41	20.7	4.35	18.0	7	
8	4.42	10.9	4.51	12.8	4.54	13.7	4.59	15.9	4.43	48.5	4.53	68.0	4.74	139.0	4.98	245.0	4.61	96.0	4.35	38.0	4.41	20.7	4.39	19.6	8	
9	4.45	11.5	4.51	12.8	4.56	14.5	4.51	12.8	4.42	47.0	4.51	64.0	4.74	139.0	4.95	230.0	4.59	90.0	4.33	36.0	4.42	21.4	4.40	20.0	9	
10	4.46	11.7	4.53	13.4	4.56	14.5	4.44	11.3	4.40	44.0	4.49	60.0	4.73	135.5	4.91	211.0	4.59	90.0	4.64	43.0	4.42	21.4	4.41	20.7	10	
11	4.43	11.1	4.52	13.1	4.57	14.9	4.40	44.0	4.40	44.0	4.45	52.0	4.72	132.0	4.89	202.0	4.57	84.5	4.58	35.8	4.42	21.4	4.41	20.7	11	
12	4.41	10.8	4.51	12.8	4.57	14.9	4.42	47.0	4.40	44.0	4.43	52.0	4.68	118.0	4.90	206.5	4.55	79.5	4.55	32.5	4.42	21.4	4.43	22.1	12	
13	4.41	10.8	4.49	12.3	4.58	15.4	4.40	44.0	4.39	42.5	4.44	50.0	4.66	111.0	4.91	211.0	4.55	79.5	4.53	30.3	4.42	21.4	4.42	21.4	13	
14	4.39	10.6	4.49	12.3	4.58	15.4	4.42	47.0	4.38	41.0	4.68	101.0	4.65	108.0	4.91	211.0	4.55	79.5	4.52	29.2	4.40	20.0	4.40	20.0	14	
15	4.43	11.1	4.48	12.1	4.57	14.9	4.67	98.5	4.38	41.0	5.33	455.0	4.63	102.0	4.91	211.0	4.54	77.0	4.50	27.0	4.40	20.0	4.38	19.2	15	
16	4.45	11.5	4.49	12.3	4.57	14.9	4.73	113.5	4.37	40.0	5.15	342.0	4.62	99.0	4.92	215.5	4.54	77.0	4.48	27.6	4.40	20.0	4.36	18.4	16	
17	4.45	11.5	4.50	12.5	4.56	14.5	4.66	96.0	4.36	39.0	5.06	286.0	4.60	93.0	4.89	201.0	4.53	74.5	4.49	26.3	4.38	19.2	4.35	18.0	17	
18	4.47	11.9	4.50	12.5	4.55	14.1	4.62	86.0	4.36	39.0	5.04	275.0	4.59	90.0	4.87	193.0	4.53	74.5	4.52	29.2	4.38	19.2	4.35	18.0	18	
19	4.46	11.7	4.49	12.3	4.55	14.1	4.57	76.0	4.35	38.0	5.00	255.0	4.60	93.0	4.86	188.5	4.53	74.5	4.45	23.5	4.35	18.0	4.35	18.0	19	
20	4.42	10.9	4.50	12.5	4.53	13.4	4.51	64.0	4.36	39.0	4.91	211.0	4.57	84.5	4.85	184.0	4.54	77.0	4.47	24.9	4.35	18.0	4.37	18.8	20	
21	4.41	10.8	4.51	12.8	4.54	13.7	4.49	60.0	4.36	39.0	4.95	230.0	4.60	93.0	4.79	159.0	4.52	72.0	4.50	27.0	4.35	18.0	4.38	19.2	21	
22	4.37	10.4	4.49	12.3	4.54	13.7	4.48	58.0	4.41	45.5	4.96	235.0	4.59	90.0	4.79	159.0	4.50	67.0	4.53	30.3	4.32	16.8	4.40	20.0	22	
23	4.38	10.5	4.50	12.5	4.55	14.1	4.46	54.0	4.55	72.0	4.99	250.0	4.58	87.0	4.76	147.0	4.50	67.0	4.50	27.0	4.32	16.8	4.42	21.4	23	
24	4.39	10.6	4.50	12.5	4.55	14.1	4.46	54.0	4.50	62.0	5.05	280.5	4.58	87.0	4.74	139.0	4.49	64.5	4.52	29.2	4.30	16.0	4.43	22.1	24	
25	4.40	10.7	4.52	13.1	4.55	14.1	4.45	52.0	4.49	60.0	5.08	297.0	4.57	84.5	4.73	135.5	4.49	64.5	4.51	28.1	4.36	18.4	4.44	22.8	25	
26	4.43	11.1	4.53	13.4	4.55	14.1	4.44	50.0	4.43	48.5	5.04	275.0	4.56	82.0	4.71	128.5	4.47	59.5	4.51	26.1	4.36	18.4	4.41	20.7	26	
27	4.45	11.5	4.53	13.4	4.56	14.5	4.53	62.0	4.42	47.0	4.97	240.0	4.54	77.0	4.69	121.5	4.46	57.0	4.53	30.3	4.35	18.0	4.41	20.7	27	
28	4.47	11.9	4.53	13.4	4.55	14.1	4.55	72.0	4.39	42.5	4.92	215.5	4.55	79.5	4.69	121.5	4.45	55.0	4.50	27.0	4.33	17.2	4.42	21.4	28	
29	4.47	11.9	4.54	13.7	4.55	14.1	4.52	66.0			4.88	127.5	4.55	79.5	4.68	113.0	4.43	51.0	4.52	29.2	4.32	16.8	4.43	22.1	29	
30	4.47	11.9	4.53	13.4	4.56	14.5	4.48	58.0			4.87	193.0	4.71	128.5	4.67	114.0	4.42	49.0	4.49	26.3	4.32	16.8	4.43	22.1	30	
31	4.47	11.9		4.57	14.9	4.46	54.0				4.86	188.5			4.66	111.0			4.46	24.2	4.34	17.6			31	
TOTAL		348.2		379.0		440.0		1522.1		1309.5		5346.0		3352.5		6366.5		2379.5		1011.0		604.1		590.6	23649.0	
Mean Daily Discharge in Second-foot		11.23		12.63		14.2		49.10		46.77		172.5		111.8		253.4		79.3		32.5		19.5		19.7		
Second-foot per square mile																										
Run off, depth in inches																										
Run-off in acre-feet		689.44		750.42		871.20		3013.78		2592.81		10,585.08		6637.95		12605.67		4711.41		2001.78		1196.12		1169.39	46825.05	
Maximum Mean Daily Discharge in Second-foot		11.9		13.7		15.4		113.5		72.0		455.0		179.5		587.0		111.0		47.5		21.4		22.8		
Minimum Mean Daily Discharge in Second-foot		10.4		11.5		13.1		11.3		38.0		42.5		77.0		111.0		49.9		23.5		16.0		17.2		

Maximum stage 5.72 feet at 10:10 P. Moon
Minimum stage 4.25 feet at 7:30 AM on Oct. 14

Discharge 799 second-feet
Discharge 8.65 second-feet

DAY
Fourth
Third
Second
First
Quarter
Disch. applied
Disch. checked
G. H. Copied
G. H. checked
PERIOD
YEAR
Checked
Date
11/26/30
11/26/30
11/26/30
11/26/30

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 28

Monthly discharge of San Gabriel

River
Creek

at Edison Intake
near

for the year ending Sept. 30, 1930.

(Drainage area 201.97 square miles)

MONTH	DISCHARGE IN SECONDS FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	11.9	10.4	11.23			689.44	
November	13.7	11.5	12.63			750.42	
December	15.4	13.1	14.20			871.20	
January	113.5	11.3	49.10			3013.78	
February	72.0	38.0	46.77			2592.81	
March	455.0	42.5	172.5			10585.08	
April	179.5	77.0	111.8			6637.95	
May	587.0	111.0	253.4			12625.67	
June	111.0	49.9	79.3			4711.41	
July	47.5	23.5	32.5			2001.78	
August	21.4	16.0	19.5			1196.12	
September	22.8	17.2	19.7			1169.39	
The year period						46825.05	

NOTE:

SAN JOSE CREEK - WORKMAN MILL ROAD BRIDGE

Location

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

Drainage Area

85.8 square miles.

Installed by

Los Angeles County Flood Control District Jan. 2 1929. Cable station established by Division of Water rights, State of California 1923-24 about 2000 feet above Workman Mill Road.

Records Available

Previous to January 2, 1929 in D.W.R. Bulletins. January 2, 1929 to Sept. 30, 1930 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 feet above bridge. Low water flows by wading near gage.

Channel and Control

Channel - sand and silt, shifting.
Control - none.

Extremes of Discharge

Maximum 264 c.f.s. January 15, 1930
Minimum Dry at various times during year.

Diversions

None above gage.

Regulation

None.

Accuracy

Fair.

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. 48

River
Creek

Discharge measurements of San Jose

at Workman Mill Rd. Bridge during the year ending September 30, 19 30

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							
	1929													
1	10-4	Brewster	2.0	.30	.27	1.56	.08		.6		4	0	1/6	271 666
2	10-11	"	2.5	.54	.54	1.61	.29		.6		5	0	1/4	271 666
3	10-15	"	2.0	.30	.57	1.56	.17		.6		4	0	1/6	271 666
4	10-18	"	2.0	.88	.86	1.68	.76		.6		6	0	1/6	271 666
5	11--1	"	2.5	.69	.84	1.67	.58		.6		5	0	1/6	271 666
6	11--8	Harting	.7	.18	1.39	1.59	.25		.6		1	0	1/3	271 883
7	11-15	"	1.4	.35	.94	1.63	.33		.6		6	0	1/3	271 883
8	11-22	Harting	1.3	.32	1.03	1.63	.33		.6		8	0	1/6	271 883
9	11-29	"	1.4	.38	1.26	1.66	.48		.6		3	0	1/6	271 883
10	12-6	"	1.4	.58	1.30	1.66	.75		.6		4	0	1/12	271 883
11	12-15	"	1.2	.30	.96	1.64	.29		.6		6	0	1/6	271 883
12	12-20	"	1.2	.37	1.30	1.68	.48		.6		6	0	1/6	271 883
13	12-27	"	1.0	.21	1.05	1.60	.22		.6		5	0	1/6	271 883
14	1-3	Brewster	1.0	.21	.76	1.58	.16		.6		2	0	1/3	271 666
15	1-12	Brewster-Lindsay	55.053	3.00	1.81	2.5695	95.76		.6		8	.01	7/12	"
16	1-11	"	57.023	3.95	1.37	2.2032	97		.6		10	0	1/3	"
17	1-11	"	55.076	3.75	2.16	2.9516	100.25		.6		9	.1	1/3	"
18	1-15	"	56.075	3.80	2.52	2.8719	100.09		.6		10	.02	1/3	"
19	1-15	"	55.061	3.83	2.23	2.3813	7.68		.6		10	.03	1/3	"
20	1-24	Harting	1.0	.2	.80	1.74	.17		.6		1	0	1/6	271 883
21	1-31	"	1.0	.3	.85	1.74	.26		.6		1	0	1/6	"
22	2-7	"	1.0	.27	.59	1.74	.16		.6		1	0	1/12	"
23	2-14	Brewster	1.0	.26	.62	1.72	.16		.6		2	0	1/6	271 666
24	2-21	Brewster-Lindsay	1.0	.25	.64	1.73	.16		.6		2	0	1/6	271 666
25	2-28	Brewster-Lindsay	1.0	.22	.50	1.71	.11		.6		2	0	1/12	271 666
26	3-7	Brewster	1.0	.24	.67	1.76	.16		.6		2	0	1/12	271 666
27	3-14	Brewster-Lindsay	11.0	7.90	1.80	2.16	14.23		.6		5	0	1/5	271 666
28	3-14	Brewster	1.0	.58	.58	1.77	.14		.6		2	0	1/10	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 48

Discharge measurements of San Jose Creek

~~River~~
Creek

at ~~XXXX~~ Workman Mill Rd. Bridge during the year ending September 30, 1950

No.	Date	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gage height Feet	Dis-charge Sec.-ft.	Rating Method	Coef.	Meas- ures No.	G. Ht. change	Time Hours	Meter No.
	1929												271
29	3-15	Brewster-Lindsay	27.0	25.661	.44	2.45	54.11		.6	8		1/2	666 271
30	3-21	Brewster-Pollard	2.0	.56	.29	1.77	.35		.6	4		1/10	666 271
31	3-28	Brewster	1.0	.24	.46	1.80	.11		.6	2		"	666 271
32	4-4	Brewster	1.0	.20	.50	1.80	.10		.6	2		"	666 271
33	4-11	Brewster	1.5	.46	.76	1.94	.35		.6	3		"	666 271
34	4-18	Brewster	1.5	.39	.51	1.94	.20		.6	3		1/6	666 271
35	4-25	Brewster	1.5	.45	.67	1.97	.30		.6	3		1/6	666 271
36	5-2	Brewster	1.5	.44	.84	1.99	.37		.6	3		1/6	666 271
36A	5-4	Brewster-Lindsay	2.0	.38	.15	2.07	1.33		.6	2		1/5	666 271
37	5-9	Brewster	1.2	.52	.53	1.94	.20		.6	2		1/6	666 271
38	5-16	Brewster	1.0	.20	.50	1.95	.11		.6	2		1/6	666 271
39	5-23	Brewster	1.0	.20	.75	1.95	.15		.6	2		1/6	666 271
40	5-29	Brewster	1.0	.22	.59	1.95	.13		.6	2		1/6	666 271
41	6-3	Brewster	1.0	.34	1.00	1.98	.34		.6	2		1/6	666 271
42	6-13	Brewster	1.0	.50	.92	2.01	.46		.6	2		1/6	666 271
43	6-20	Brewster	1.0	.24	.75	1.99	.18		.6	2		1/6	666 271
44	6-27	Brewster	1.0	.34	1.25	2.00	.43		.6	2		1/10	666 271
45	7-3	Brewster	1.0	.32	1.19	1.93	.38		.6	2		1/6	666 271
46	7-11	Brewster	1.0	.34	1.18	1.95	.40		.6	2		1/5	666 271
47	7-18	Brewster	1.0	.30	1.10	1.90	.33		.6	2		1/4	666 271
48	7-25	Brewster	1.0	.32	1.00	1.88	.32		.6	2		1/6	666 271
49	8-1	Brewster	1.0	.33	1.06	1.84	.35		.6	2		1/4	666 271
50	8-8	Brewster	1.0	.30	.90	1.81	.27		.6	2		1/6	666 271
51	8-15	Brewster	1.0	.26	.88	1.82	.25		.6	2		1/4	666 271
52	8-22	Brewster	1.0	.32	1.66	1.87	.53		.6	2		1/6	666 271
53	8-29	Brewster	1.0	.36	1.37	1.89	.60		.6	2		1/6	666 271
54	9-19	Brewster	1.0	.20	.85	1.78	.17		.6	2		1/6	666 271
55	9-26	Brewster	1.0	.21	.76	1.79	.16		.6	2		1/6	666 271

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 48

Rating table for San Jose Creek

Workman Mill Road Bridge from Oct. 1, 1929, to Jan. 10, 1930.

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.
1.50	0		.90			.75								
.52	.03	.015	.92			.80								
.54	.06	.015	.94			.85								
.56	.11	.025	.96			.90								
.58	.16	.025	.98			.95								
.60	.24	.04	2.00			3.00								
.62	.34	.05	.05											
.64	.44	.05	.10											
.66	.60	.08	.15											
.68	.76	.08	.20											
.70	.92		.25											
.72	1.00		.30											
.74			.35											
.76			.40											
.78			.45											
.80			.50											
.82			.55											
.84			.60											
.86			.65											
.88			.70											

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

and is well defined between .16 second-feet and 190. second feet.

Computed by J
Checked by JLI & F.B.
Date 2/18/30

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 48

Rating table for San Jose Creek

Workman Mill Road Bridge, from April 6, 1930, to July 24, 1930.

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.
1.86		.02												
.88	.04	.025												
.90	.09	.025												
.92	.14	.025												
.94	.19	.03												
.96	.25	.035												
.98	.32	.04												
2.00	.40	.05												
.02	.50	.06												
.04	.62	.06												
.06	.74	.065												
.08	.87													
.10	.93													
.11	1.00													

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

and is well defined between .16 second-feet and 190 second-feet.

Computed by JLI & F.B.
Checked by
Date Feb. 13, 1930

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 18

Gage Read to continuous One a Day.
Twice

Used rating table dated

APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY	Quarter	Third	Fourth
Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge				
1.71	.11	1.99	.36	1.91	.11	2.02	.50	1.82	.46	1.79	.32	1			
1.71	.11	2.00	.40	1.92	.14	1.99	.36	1.79	.32	1.94	3.70x	2			
1.71	.11	2.01	.45	1.94	.19	1.99	.36	1.76	.22	1.84	.72	3			
1.71	.11	1.98	.32	1.95	.22	1.99	.36	1.78	.28	1.70	.09	4			
1.75	.20	2.04	.62	1.97	.29	2.00	.40	1.77	.25	1.71	.11	5			
1.83	.00	1.97	.29	1.99	.36	1.99	.36	1.69	.08	1.70	.09	6			
1.38	.04	1.94	.19	2.01	.45	2.01	.45	1.78	.28	1.71	.11	7			
1.92	.14	1.94	.19	2.01	.45	2.00	.40	1.78	.28	1.70	.09	8			
1.94	.19	1.94	.19	2.01	.45	2.02	.50	1.80	.35	1.71	.11	9			
1.97	.29	1.94	.19	2.01	.45	2.02	.50	1.78	.28	1.73	.15	10			
1.99	.36	1.93	.16	2.04	.62	2.03	.56	1.78	.28	1.73	.15	11			
2.00	.40	1.93	.16	2.02	.50	2.02	.50	1.79	.32	1.72	.13	12			
1.99	.36	1.93	.16	2.00	.40	1.97	.29	1.78	.28	1.72	.13	13			
1.99	.36	1.91	.11	2.00	.40	1.96	.25	1.80	.35	1.70	.09	14			
2.00	.40	1.91	.11	1.98	.32	1.96	.25	1.75	.20	1.74	.17	15			
1.97	.29	1.91	.11	1.99	.36	1.94	.19	1.79	.32	1.75	.20	16			
1.95	.28	1.91	.11	1.98	.32	1.99	.36	1.78	.28	1.75	.20	17			
1.94	.19	1.92	.14	1.95	.22	1.99	.36	1.75	.20	1.77	.25	18			
1.95	.22	1.93	.16	1.94	.19	1.99	.36	1.78	.28	1.73	.15	19			
1.95	.22	1.93	.16	1.93	.16	1.95	.22	1.78	.28	1.77	.25	20			
1.95	.22	1.93	.16	1.90	.09	1.84	.00	1.77	.25	1.76	.22	21			
1.95	.22	1.93	.16	1.90	.09	1.90	.09	1.83	.59	1.73	.15	22			
1.95	.22	1.93	.16	1.90	.09	1.90	.09	1.83	.59	1.75	.20	23			
1.95	.22	1.93	.16	1.92	.14	1.86	.00	1.79	.32	1.75	.20	24			
1.97	.29	1.93	.16	1.95	.22	1.81	.40	1.80	.35	1.76	.22	25			
1.95	.22	1.93	.16	2.00	.40	1.80	.35	1.76	.22	1.73	.15	26			
1.95	.22	1.92	.14	2.00	.40	1.78	.28	1.77	.25	1.73	.15	27			
1.95	.22	1.92	.14	2.01	.45	1.77	.25	1.81	.40	1.82	.46	28			
1.95	.22	1.92	.14	2.03	.56	1.78	.28	1.84	.72	1.85	.90	29			
1.96	.25	1.92	.14	2.04	.62	1.78	.28	1.79	.32	1.82	.46	30			
		1.91	.11			1.84	.72	1.76	.22			31			

F. B. & J. L. I.

F. B. & J. L. I.

F. B. & J. L. I.

G. H. Copied
G. H. checked
Date

2/18/31

6.62 6.05 9.66 10.27 9.82 10.32 13.81
.22 .19 .32 .33 .32 .34

13.13 12.00 19.16 20.37 19.48 20.47 20.64
.40 .62 .62 .72 .72 3.70
Dry .11 .09 Dry .08 .09

line broken

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

At Workman Mill Road Bridge for the Year Ending September 30, 1930
Near

Drainage Area 85.18 Square Miles. [Brewster Observer.]

corrected 2.99 feet at 6 AM on 1/15/30
Maximum stage
Minimum stage
Discharge 26¹/₄
Discharge
Dry at various times during the year

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	1.61	.29	1.66	.60	1.61	.29	1.60	.24	1.76	.22	1.66	.03
2	1.57	.13	1.67	.68	1.64	.44	1.59	.20	1.75	.20	1.65	.01
3	1.55	.09	1.60	.24	1.61	.29	1.58	.16	1.75	.20	1.66	.03
4	1.55	.09	1.56	.11	1.60	.24	1.58	.16	1.74	.17	1.69	.08
5	1.55	.09	1.55	.09	1.66	.60	1.62	.34	1.73	.15	1.73	.15
6	1.55	.09	1.63	.39	1.65	.52	1.66	.60	1.73	.15	1.72	.13
7	1.55	.09	1.61	.29	1.64	.44	1.66	.60	1.74	.17	1.73	.15
8	1.60	.24	1.59	.20	1.62	.34	1.72	1.00	1.74	.17	1.72	.13
9	1.63	.39	1.59	.20	1.60	.24	1.70	.92	1.74	.17	1.71	.11
10	1.63	.39	1.64	.44	1.60	.24	H	5.10	1.73	.15	1.70	.09
11	1.61	.29	1.60	.24	1.61	.29	H	54.37	1.72	.13	1.70	.09
12	1.62	.34	1.60	.24	1.62	.34	H	16.00	1.73	.15	1.69	.08
13	1.63	.39	1.59	.20	1.62	.34	H	9.87	1.74	.17	1.71	.11
14	1.62	.34	1.58	.16	1.62	.34	H	0.09	1.74	.17	1.79	.32
15	1.62	.34	1.62	.34	1.62	.34	H	100.13	1.74	.17	H	50.80
16	1.66	.60	1.62	.34	1.59	.20	1.88	1.50	1.73	.15	H	72.78
17	1.68	.76	1.62	.34	1.60	.24	1.82	.46	1.71	.11	1.87	1.29
18	1.68	.76	1.61	.29	1.63	.39	1.79	.32	1.70	.09	1.79	.32
19	1.69	.84	1.60	.24	1.65	.52	1.78	.28	1.71	.11	1.78	.28
20	1.68	.76	1.59	.20	1.65	.52	1.78	.28	1.71	.11	1.79	.32
21	1.62	.34	1.61	.29	1.63	.39	1.77	.25	1.72	.13	1.82	.46
22	1.57	.13	1.62	.34	1.61	.29	1.77	.25	1.73	.15	1.85	.60
23	1.57	.13	1.62	.34	1.62	.34	1.76	.22	1.75	.20	1.83	.52
24	1.57	.13	1.65	.52	1.61	.29	1.75	.20	1.75	.20	1.81	.40
25	1.55	.09	1.65	.52	1.60	.24	1.74	.17	1.74	.17	1.83	.52
26	1.54	.06	1.61	.29	1.60	.24	1.75	.20	1.74	.17	1.82	.46
27	1.53	.04	1.61	.29	1.59	.20	1.79	.32	1.71	.11	1.77	.32
28	1.57	.13	1.64	.44	1.59	.20	1.82	.46	1.70	.09	1.73	.28
29	1.59	.20	1.64	.44	1.63	.39	1.79	.32			1.70	.09
30	1.66	.60	1.60	.24	1.64	.44	1.79	.32			1.70	.09
31	1.66	.60			1.61	.29	1.77	.25			1.71	.11

TOTAL	9.76	9.54	10.47	195.58	4.33	131.39
Mean Daily Discharge in Second-foot	.31	.32	.34	6.32	.15	4.24
Second-foot per square mile						
Run-off, depth in inches						
Run off in acre-feet	19.36	18.92	20.77	387.84	8.59	260.57
Maximum Mean Daily Discharge in Second-foot	.84	.68	.60	100.13	.28	72.78
Minimum Mean Daily Discharge in Second-foot	.04	.09	.20	.09	.09	.01

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Monthly discharge of

San Jose

~~River~~
Creek

at
~~near~~

Workman Mill Road Bridge

for the year ending Sept. 30, 1930

(Drainage area 85.8 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	.84	.04	.31			19.36	
November	.68	.09	.32			18.92	
December	.60	.20	.34			20.77	
January	100.13	.09	6.32			387.84	
February	.22	.09	.15			8.59	
March	72.78	.01	4.24			260.55	
April	.40	0	.22			13.33	
May	.62	.11	.19			12.00	
June	.62	.09	.32			19.16	
July	.72	0	.33			20.37	
August	.72	.08	.32			19.48	
September	3.70	.09	.34			20.47	
The year period						820.64	

NOTE:

SANTA CLARA RIVER AT OLD HIGHWAY BRIDGE

4 MILES WEST OF SAUGUS, CALIF.

LOCATION On downstream end of south pier on old Highway Bridge, about 4 miles west of Saugus.

DRAINAGE AREA 355.3 square miles.

RECORDS AVAILABLE Oct. 1, 1929 to Sept. 30, 1930. Recorder started Jan. 18, 1930 (Weekly measurements. only from Oct. 1, 1929 to Jan. 18, 1930.)

GAGE Au water stage continuous recorder in small house on top of corrugated iron stilling well fastened to bridge pier, staff gage same location.

DISCHARGE MEASUREMENTS High Water flows made from cable at upstream end of pier. Low flows by wading.

CHANNEL AND CONTROL Channel sand and gravel. Low water flow. No control.

EXTREMES OF DISCHARGE Maximum 1929-1930, 193.25 c.f.s. March 15, 1930
Minimum 1929-1930, .02 c.f.s. July 16, 1930.

DIVERSIONS None

REGULATION None

COOPERATION Constructed and operated by the Los Angeles County Flood Control District with cooperation of U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 92

Discharge measurements of Santa Clara

River

at Old Highway Bridge--4 mi. W. Saugus, during the year ending September 30, 1930

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. sec.	G. H. change	Time	Meth. No.
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.	Percent alt.				No.		
1	11/13	Luce	2.5	1.08	.43		.46		.6		5		1/4	24
2	20	"	3.2	.88	.50		.44		.6		5		"	"
3	27	"	3.2	.95	.57		.54		.6		6		"	"
4	12/4	"	3.4	.92	.62		.57		.6		5		"	"
5	11	"	3.5	.94	.82		.77		.6		7		1/3	"
6	18	"	3.5	.90	.79		.71		.6		7		1/4	"
7	27	"	3.7	1.10	.75		.82		.6		7		"	"
8	1/2	"	3.5	.97	.80		.78		.6		7		"	"
9	12	"	4.5	1.41	1.30		1.83		.6		5		"	"
10	18	"	3.8	1.05	1.36		3.56		.6		7		"	"
11	25	"	4.0	1.18	.94		1.11		.6		6		1/6	"
12	27	"	4.2	1.34	1.40	3.40	1.88		.6		7		1/3	"
13	2/1	"	3.8	.68	.74	3.33	.69		.6		5		1/4	"
14	6	"	4.0	.93	1.09	3.36	1.01		.6		7		"	"
15	14	"	4.0	1.00	1.02	3.34	1.02		.6		7		"	"
16	22	"	4.1	1.10	.99	3.34	1.09		.6		7		1/6	"
17	3/2	"	4.1	1.06	1.05	3.36	.99		.6		7		"	"
18	7	"	3.9	1.05	.98	3.36	1.03		.6		7		"	"
19	15	"	28.0	20.4	3.26	4.40	66.36		.6		13		1/4	"
20	15	"	27.5	18.4	3.37	4.38	62.64		.6		13		1/4	"
21	15	"	27.5	18.3	3.25	4.35	59.50		.6		11		"	"
22	15	"	27.5	17.7	3.05	4.34	54.06		.6		11		1/6	"
23	22	"	4.9	.89	1.19	3.33	1.06		.6		7		"	"
24	4/4	"	3.5	.77	1.05	3.84	.81		.6		5		"	"
25	25	"	5.3	.62	.85	3.86	.53		.6		6		"	"
26	5/10	"	4.7	.92	.77	3.72	.71		.6		9		1/4	"
27	24	"	4.0	.68	.63	3.76	.43		.6		6		1/6	"
28	20	"	2.5	.47	.70	3.73	.33		.6		4		"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 92

Discharge measurements of

Santa Clara

River
Creek

at Old Highway Bridge--4 mi. W. Saugus, during the year ending September 30, 19 30

No	Date	Made by	Width	Area of section	Mean velocity	Gate height	Discharge	Rating	Method	Coef.	Meters sec.	G. H. change	Time	Meter No.
			Feet	Sq. Ft.	Ft. per sec.	Feet	Sec.-ft.	Percent dth.						
29	7/5	Luce	2.0	.42	.69	3.70	.29		.6		4	.01	1/6	24
30	12	"	2.0	.33	.61	3.68	.20		.6		4		"	"
31	19	"	2.0	.34	.68	3.68	.23		.6		4		"	"
32	8/8	"	2.0	.35	.63	3.69	.22		.6		4		"	"
33	22	"	1.5	.22	.55	3.74	.12		.6		3		"	"
34	29	"	1.5	.23	.57	3.74	.13		.6		3		"	"
35	9/12	"	1.8	.39	.56	3.96	.22		.6		4		"	"
36	18	"	1.7	.34	.53	3.97	.18		.6		5		"	"

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 92

Rating table for **Santa Clara River at Old Highway Bridge**

4 mi. W. of SAUGUS from **Jan. 19, 1930** to **March 16, inclusive, 1930**

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.
3.22	.15	.05	3.44	2.40	.15	3.84	13.20	.40	4.24	41.60	1.20	4.64	113.60	2.00
3.23	.20	.05	3.46	2.70	.15	3.86	14.00	.45	4.26	44.00	1.40	4.66	117.60	2.00
3.24	.25	.05	3.48	3.00	.20	3.88	14.90	.45	4.28	46.80	1.50	4.68	121.60	2.00
3.25	.30	.05	3.50	3.40	.20	3.90	15.80	.50	4.30	49.80	1.50	4.70	125.60	2.05
3.26	.35	.05	3.52	3.80	.20	3.92	16.80	.50	4.32	52.80	1.50	4.72	129.70	2.05
3.27	.40	.05	3.54	4.20	.25	3.94	17.80	.50	4.34	55.90	1.55	4.74	133.80	2.05
3.28	.45	.05	3.56	4.70	.25	3.96	18.80	.55	4.36	59.00	1.65	4.76	137.90	2.05
3.29	.50	.10	3.58	5.20	.25	3.98	19.90	.55	4.38	62.60	1.85	4.78	142.00	2.05
3.30	.60	.10	3.60	5.70	.25	4.00	21.00	.60	4.40	66.30	1.85	4.80	146.10	2.05
3.31	.70	.10	3.62	6.20	.25	4.02	22.20	.65	4.42	70.00	1.90	4.82	150.20	2.05
3.32	.80	.10	3.64	6.70	.25	4.04	23.50	.65	4.44	73.80	1.90	4.84	154.30	2.05
3.33	.90	.10	3.66	7.20	.30	4.06	24.80	.70	4.46	77.60	2.00	4.86	158.40	2.05
3.34	1.00	.10	3.68	7.80	.30	4.08	26.20	.75	4.48	81.60	2.00	4.88	162.50	2.05
3.35	1.10	.10	3.70	8.40	.30	4.10	27.70	.80	4.50	85.60	2.00	4.90	166.60	2.05
3.36	1.20	.15	3.72	9.00	.30	4.12	29.30	.85	4.52	89.60	2.00	4.92	170.70	2.05
3.37	1.35	.15	3.74	9.60	.30	4.14	31.00	.95	4.54	93.60	2.00	4.94	174.89	2.05
3.38	1.50	.15	3.76	10.20	.35	4.16	32.90	1.00	4.56	97.60	2.00	4.96	178.99	2.05
3.39	1.65	.15	3.78	10.90	.35	4.18	34.90	1.05	4.58	101.60	2.00	4.98	183.00	2.05
3.40	1.80	.15	3.80	11.60	.40	4.20	37.00	1.10	4.60	105.60	2.00	5.00	187.10	2.05
3.42	2.10	.15	3.82	12.40	.40	4.22	39.20	1.20	4.62	109.60	2.00	5.04	191.20	2.00

The above table is not applicable for obstructed channel conditions. It is based on **12** discharge measurements made during **January, February, March**

and is **fairly** well defined between **0** second-feet and **66** second-feet.

Computed by **J.W.L.**
Checked by **C.E.B. 2/26/31**
Date **10/30/30**

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 92

Rating table for Santa Clara River at old Highway Bridge

4 miles west of Saugus from midnight 16 Mar. 1930, to Sept. 30 (inc.) 1930

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.
3.60	0	.02	3.80	.59	.04	4.00	2.44	.20						
3.61	102	.02	.81	.63	.05	.01	2.64	.22						
3.62	.04	.02	.82	.68	.05	.02	2.86	.24						
3.63	.06	.02	.83	.73	.06	.03	3.10	.26						
3.64	.08	.02	.84	.79	.06	.04	3.36							
3.65	.10	.02	.85	.85	.06									
3.66	.12	.03	.86	.91	.07									
3.67	.15	.03	.87	.98	.07									
3.68	.18	.03	.88	1.05	.07									
3.69	.21	.03	.89	1.12	.07									
3.70	.24	.03	.90	1.19	.08									
3.71	.27	.03	.91	1.27	.09									
3.72	.30	.03	.92	1.36	.10									
3.73	.33	.03	.93	1.46	.11									
3.74	.36	.03	.94	1.57	.12									
3.75	.39	.04	.95	1.69	.13									
3.76	143	.04	.96	1.82	.14									
3.77	.47	.04	.97	1.96	.15									
3.78	.51	.04	.98	2.09	.16									
3.79	.55	.04	.99	2.25	.18									

The above table is not applicable for obstructed channel conditions. It is based on 14 discharge measurements made during April, May, June, July, August and September

and is fairly well defined between .18 second-foot and 1.05 second feet.

Computed by J.W.L.
Checked by G.E.B. 2/26/31
Date 10/30/30

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 92

Monthly discharge of **Santa Clara**

**River
(TRK)**

at **Old Highway Bridge**
4 miles west of Saugus

for the year ending Sept. 30, 19**30**

(Drainage area **355.3** square miles)

MONTH	DISCHARGE IN SECONDS-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	.27	.24	.25			15.84	
November	.55	.28	.43			26.39	
December	.82	.55	.72			44.19	
January	1.83	.78	1.19			73.04	
February	1.50	.90	1.10			60.98	
March	83.48	.90	6.58			403.88	
April	1.05	.55	.76			45.14	
May	1.96	.43	.66			40.51	
June	.43	.30	.35			20.79	
July	.47	.18	.32			19.64	
August	.85	.18	.35			21.48	
September	.73	.15	.35			20.79	
The year period						792.67	

NOTE:

SYCAMORE STORM DRAIN UPPER STATION
AT SOLWAY STREET, GLENDALE.

Location

Concrete stilling well and shelter house located on west side of Sycamore Storm Drain one block east of Chevy Chase Dr. 90 feet east of Solway St. near Glendale, Cal.

Drainage Area

2.67 Square Miles.

Installed by

Los Angeles County Flood Control District.
January 30, 1928.

Records Available

January 30, 1928 to Sept. 30, 1930.

Gate

Stevens L type recorder. 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 high flows.

Extremes of Discharge

Maximum 24 c.f.s. March 14, 1930.
Minimum Dry at various times during year.

Diversions

None above gage.

Regulation

None

Accuracy

Fair.

Cooperation

Located and operated by the 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. 43

Discharge measurements of Upper Pomare Drain

~~XXXX~~
~~XXXX~~

~~XXXX~~ at Upper Chevy Chase Drive, Glendale during the year ending September 30, 19 39

No.	Date	Made by	Width Feet	Area of section Sq. Ft.	Mean velocity Feet per sec.	Gage height Feet	Discharge Sec. ft.	Rating Percent diff.	Method	Cost	Meas. cont. No.	G. M. Change	Time Hours	Meas. No.
1	11-14	Bollinger & Bergman	6.0	3.75	3.82	.32	13.74		do		5	.05	1/6	650
2	12-31	do do	5.0	.51	1.59	-	.81		do		5	-	1/6	do
3	12-31	do do	7.0	.88	1.75	-	1.54		do		5	-	1/6	do
4	12-12	do & Hartman	8.0	2.50	6.33	.33	15.60		do		4	.03	1/4	do
5	4-4	Duckley & Lloyd	9.0	7.38	5.57	.36	18.8		do		2	.09	1/8	571 572

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, 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.
.00	0.00	.01	.20	.40	.24	.40	29.05	.03	.60	69.65	2.03			
.01	.01		.21	.64	.36	.41	31.08	"	.61	71.68	"			
.02	.02		.22	1.00	.50	.42	33.11	"	.62	73.71	"			
.03	.03		.23	1.50	.62	.43	35.14	"	.63	75.74	"			
.04	.04		.24	2.12	.78	.44	37.17	"	.64	77.77	"			
.05	.05		.25	2.90	.90	.45	39.20	"	.65	79.80	"			
.06	.06		.26	3.80	1.06	.46	41.23	"	.66	81.83	"			
.07	.07		.27	4.86	1.22	.47	43.26	"	.67	83.86	"			
.08	.08		.28	6.08	1.44	.48	45.29	"	.68	85.89	"			
.09	.09		.29	7.52	1.68	.49	47.32	"	.69	87.92	"			
.10	.10		.30	9.10	1.80	.50	49.35	"	.70	89.95	"			
.11	.11		.31	10.90	1.91	.51	51.38	"						
.12	.12		.32	12.81	2.03	.52	53.41	"						
.13	.13		.33	14.84	2.03	.53	55.44	"						
.14	.14		.34	16.87	2.03	.54	57.47	"						
.15	.15		.35	18.90	2.03	.55	59.50	"						
.16	.16		.36	20.93	"	.56	61.53	"						
.17	.17		.37	22.96	"	.57	63.56	"						
.18	.18	.06	.38	24.99	"	.58	65.59	"						
.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

This rating table is for 1928-1929 measurements. Computed by MAR
Checked by CEB.

Date Sept. 12, 1929

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of

Bysanore Storm Drain River Creek

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

File No. 43

At Near Solway St. Glendale, Calif. Upper Station for the Year Ending September 30, 1930

Drainage Area 2.67 Square Miles. C. E. Bollinger [Observer.]

Gage Read to continuous One Twice a Day.

Used rating table dated 10

Main data table with columns for months (OCTOBER-SEPTEMBER), days (1-31), gage height, discharge, and various notes (Y, R, D, H). Includes summary rows for 'TOTAL', 'Mean Daily Discharge', 'Run-off', etc.

Vertical text on the right side containing administrative information: Quarter, First, Second, Third, Fourth, Computed, Checked, Date, 1/29/31, J L Irvine.

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 43

Monthly discharge of Sycamore Storm Drain Upper Station River
 Creek

at Solway St. Glendale
 near

for the year ending Sept. 30, 1930

(Drainage area 2.67 square miles)

MONTH	DISCHARGE IN SECOND-LEVEL				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October						Dry	
November						"	
December						"	
January	4.13	0	.25			15.39	
February	.16	0	.01			.46	
March	26.34	0	1.40			88.85	
April	1.13	0	.04			8.04	
May	17.14	0	.92			56.43	
June						Dry	
July						"	
August						"	
September						"	
The year period						160.37	

NOTE:

SYCAMORE STORM DRAIN LOWER STATION
ADAMS SQUARE - GLENDALE

Location

Concrete stilling well and house located on east side of Sycamore Storm Drain at Adams Square, Lower Chevy Chase Drive in Glendale, Cal.

Drainage Area

6.19 square miles.

Installed by

Los Angeles County Flood Control District.
Dec. 15, 1927.

Records Available

Dec. 15, 1927 to Sept. 30, 1930 at L.A.C.F.C.D.

Gage

Stevens Type L 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 51.0 c.f.s. May 3, 1930
Minimum dry at various times during year.

Diversions

None above gage.

Regulation

None.

Accuracy

Fair.

Cooperation

Located and operated by L.A.C.F.C.D. in cooperation with the U.S.G.S. Water Resources Branch and City of Glendale.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Discharge measurements of **Sycamore Storm Drain - Lower Station** River
Creek

at **Adams Sq. Glendale** during the year ending September 30, 19 **30**
near

No.	Date	Channel	Width Feet	Area of Section Sq. Ft.	Mean Velocity Feet per Sec.	Water Depth Feet	Discharge Sec. Ft.	Rating Curve	Method	Class	Stage Feet	Discharge Cubic Feet	Time	Other Data
1930														
1	1-5	Bollinger-Bergman	9.0	5.60	9.31	1.02	52.12		.6		4	.04	1/4	271 630
2	1-5	"	9.0	6.06	9.40	1.02	57.0		.6		4	.04	"	"
3	1-9	Bollinger-Lloyd	9.0	3.33	6.90	.65	23.0		.6		4	.02	1/4	"
4	1-9	"	9.0	3.05	6.06	.63	18.48		.6		4	.06	1/6	"
5	1-12	Lloyd-Matthews	9.0	1.70	2.12	.37	3.61		.6		4	.05	1/4	271 588
6	1-15	"	9.0	2.00	5.00	.60	10.10		.6		4	0	"	"
7	5-3	"	9.0	2.20	9.25	.68	48.14		.6		4	0	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Rating table for

Sycamore Storm Drain - Lower Station

Adams Square - Glendale, from Oct. 1, 1929, to Sept. 30, 1930

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	2.05		.40	5.80		.60	12.5		.80	25.80	
.01	.01	.01	.21	2.20	.15	.41	6.05	.25	.61	13.0	.50	.81	26.80	1.0
.02	.05	.04	.22	2.45	.15	.42	6.35	.30	.62	13.50	.50	.82	27.80	1.0
.03	.10	.05	.23	2.60	.15	.43	6.65	.30	.63	14.00	.50	.83	28.80	1.0
.04	.20	.10	.24	2.75	.15	.44	6.95	.30	.64	14.50	.50	.84	29.80	1.0
.05	.30	.10	.25	2.90	.15	.45	7.25	.30	.65	15.00	.50	.85	31.05	1.25
.06	.40	.10	.26	3.05	.15	.46	7.55	.30	.66	15.50	.50	.86	32.30	1.25
.07	.50	.10	.27	3.20	.15	.47	7.85	.30	.67	16.0	.50	.87	33.55	1.25
.08	.60	.10	.28	3.35	.15	.48	8.15	.30	.68	16.60	.60	.88	34.80	1.25
.09	.70	.10	.29	3.50	.15	.49	8.45	.30	.69	17.20	.60	.89	36.05	1.25
.10	.80	.10	.30	3.65	.15	.50	8.75	.30	.70	17.80	.60	.90	37.30	1.25
.11	.90	.10	.31	3.80	.15	.51	9.10	.35	.71	18.40	.60	.91	38.59	1.25
.12	1.0	.10	.32	4.00	.20	.52	9.45	.35	.72	19.00	.60	.92	39.80	1.25
.13	1.10	.10	.33	4.20	.20	.53	9.80	.35	.73	19.75	.75	.93	41.05	1.25
.14	1.20	.10	.34	4.40	.20	.54	10.15	.35	.74	20.50	.75	.94	42.30	1.25
.15	1.30	.10	.35	4.60	.20	.55	10.50	.35	.75	21.25	.75	.95	43.55	1.25
.16	1.45	.15	.36	4.80	.25	.56	10.85	.35	.76	22.00	.75	.96	44.90	1.35
.17	1.60	.15	.37	5.05	.25	.57	11.20	.40	.77	22.90	.90	.97	46.25	1.35
.18	1.75	.15	.38	5.30	.25	.58	11.60	.40	.78	23.80	1.0	.98	47.60	1.35
.19	1.90	.15	.39	5.55	.25	.59	12.00	.50	.79	24.80	1.0	.99	48.95	1.50

The above table is not applicable for obstructed channel conditions. It is based on 7 di-charge measurements made during 1929-1930

and is well defined between 3.61 second-feet and 57 second-feet.

concrete storm drain

Computed by B.

Checked by WR

Date

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 14

Sycamore Storm Drain - Lower Station

Rating table for

Arms Sq. Glendale from Oct. 1, 1929, to Sept. 30, 1930

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	50.45	1.50	.20	88.		.40	1.28							
.01	51.95	1.60	.21	90.										
.02	53.55	1.60	.22	92.										
.03	55.15	1.60	.23	94.										
.04	56.75	1.60	.24	96.										
.05	58.35	1.60	.25	98.										
.06	60.	1.65	.26	100										
.07	62.	2.00	.27	102										
.08	64.		.28	104										
.09	66.		.29	106										
.10	68		.30	108										
.11	70		.31	110										
.12	72		.32	112										
.13	74		.33	114										
.14	76		.34	116										
.15	78		.35	118										
.16	80		.36	120										
.17	82		.37	122										
.18	84.		.38	124										
.19	86		.39	126										

The above table is not applicable for obstructed channel conditions. It is based on 7 discharge measurements made during 1929-1930.

and is well defined between 3.61 second-feet and 57.0 second-feet.

concrete storm drain

Computed by Polly

Checked by Keiffer.

Date

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Gage Read to Continuous One Twice a Day.

Used rating table dated 10/31/27

APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY	Quarter	Third	Fourth
Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge				
			Dry									1			
		H	1.73									2			
		H	50.74									3			
		H	1.35									4			
			Dry									5			
												6			
												7			
Y		H	15.47		Y		Y		Y		Y	8			
			Dry									9			
												10			
												11			
R												12			
												13			
			Y		R		R		R		R	14			
												15			
												16			
R												17			
												18			
												19			
												20			
												21			
												22			
												23			
												24			
												25			
												26			
												27			
												28			
												29			
	Dry											30			
	6.44											31			
	6.44		69.29												177
	.21		2.24												
	12.77		137.44												
	6.44		50.74												35
	Dry		Dry												

J L Irwin
Computed

which applied

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of Wycamore Storm Drain River
Lower Station Creek

At Arena Square - Glendale for the Year Ending September 30, 1930
 Near

Drainage Area 6.19 Square Miles. [C. E. Bollinger Observer.]

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	1
2								"		"		"	2
3								"		"		"	3
4								"		"		"	4
5							H	5.19				"	5
6							H	4.33					6
7							.06	.40					7
8							.02	.05					8
9		Y		Y		Y	H	13.52		Y			9
10							H	6.81					10
11							H	10.55					11
12							H	1.83					12
13		R		R		R	.06	.40		R		Dry	13
14							H	3.88			H	13.86	14
15							H	8.52			H	13.86	15
16							H	1.61			H	2.82	16
17		D		D		D		Dry		D		1.41	17
18								"				Dry	18
19								"					19
20								"					20
21								"					21
22								"				Y	22
23								"					23
24								"					24
25								"				H	25
26								"					26
27							H	6.68					27
28												D	28
29													29
30													30
31													31
TOTAL,							67.82		0		34.00		
Mean Daily Discharge in Second-feet							2.18				1.10		
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		0		0		0	134.52		0		67.84		
Maximum Mean Daily Discharge in Second-feet							13.52				13.86		
Minimum Mean Daily Discharge in Second-feet							Dry				Dry		

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **44**

Monthly discharge of **Sycamore Storm Drain**

**River
Creek**

at Lower Station Adams Square - Glendale
near

for the year ending Sept. 30, 19**30**

(Drainage area **6.19** square miles)

MONTH	DISCHARGE IN SECOND-FEET				RANGE		Accuracy
	Maximum	Minimum	Mean	Per square-mile	Depth in inches on drainage area	Total in acre feet	
October							Dry
November							"
December							"
January	13.52	0	2.18			134.52	
February							Dry
March	13.96	0	1.10			67.84	
April	64.4	0	.21			12.77	
May	50.74	0	2.24			69.29	
June							Dry
July							"
August							"
September							"
The year period						352.57	

NOTE:

Concrete storm drain

TOPANG CREEK AT
HIGHWAY BRIDGE, 2 MILES ABOVE
MOUTH.

Location

On highway bridge about 2 miles from ocean.

Drainage Area

18.00 square miles

Installed by

Los Angeles County Flood Control District.
January 1, 1930.

Records Available

January 1, 1930 to September 30, 1930.

Gage

AU continuous water stage recorder located on west wing wall of bridge on top of corrugated iron stilling well.

Discharge Measurements

High water measurements are made from cable located 450 feet above recorder.
Low water measurements made by wading.

Channel and Control

Rocky and full of boulders. No control.

Extremes of Discharge

Maximum 340 c.f.s. March 14 and 15, 1930.
Minimum .01 c.f.s. at various times of year.

Diversions

None.

Regulation

None.

Accuracy

Fair.

Cooperation

Located, constructed and operated by L.A.C.F.C.D.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 54

Discharge measurements of Topanga

Hiver
Creek

at ~~DECK~~ Highway Bridge 2 mi. above Mouth, during the year ending September 30, 1930.

No.	Date	Made by	Width		Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
			Feet	Sq. Ft.										
	1929													
1	1-11	Hardgrove-Smith	11.0	5.80	1.81	1.59	10.50		.6		7	0		20
2	1-12	" "	10.3	7.10	2.18	1.48	15.50		.6		6	0		20
3	1-24	Hardgrove	12.5	.57	.82	.87	.47		.8		3	0		20
4	3-14	Hardgrove	35.0	57.5	2.10	1.50	121.0		.6		6	0		20
5	3-21	Hardgrove	6.0	4.0	.47	1.04	1.86		.6		6	0		20
6	3-28	Hardgrove	3.0	1.16	.55	.88	.82		.6		5	0		20
7	4-4	Hardgrove	2.9	.80	.42	.85	.4		.6		4	0		20
8	5-3	Hardgrove	11.0	5.5	1.37	1.19	7.52		.6		6	0	1/6	20

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 54

Rating table for Topanga Canyon At Highway Bridge

2 mi. above mouth			from Oct. 1			1929 to			Sept. 30			1930		
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.
.60	.02		1.6	21.5										
.65	.04	.004	.65	24.3	.55									
.70	.08	.008	.70	27.0	.55									
.75	.16	.016	.75	30.0	.60									
.80	.39	.026	.80	33.0	.60									
.85	.42	.028	.85	36.5	.70									
.90	.97	.11	.90	40.0	.70									
.95	1.52		.95	44.0	.80									
1.00	2.07	.11	2.0	48.0	.80									
.05	2.92	.17	.10	57.0	.90									
.10	3.77		.20	69.0	1.30									
.15	4.62		.30	83.0	1.40									
.20	5.47	.17	.40	100.	1.70									
.25	6.72	.05	.50	121.	2.10									
.30	8.00	.256	.60	149.	2.60									
.35	10.00	.40	.70	182.	3.30									
.40	12.00		.80	227.	4.30									
.45	14.00		.90											
.50	16.00	.40	3.0											
.55	17.75	.55												
		.55												

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

Checked by

Date

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of Highway Bridge 2 miles above mouth for the Year Ending September 30, 1930

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

Drainage Area 18.00 Square Miles. Mangrove (Observer.)

Gage Read to Continuous (One Twice a Day) Used rating table dated

Main data table with columns for months (OCTOBER to SEPTEMBER), days (1-31), gage height, and discharge. Includes a vertical note 'RECORD STARTED JANUARY 1, 1930'.

Summary table with rows for 'TOTAL', 'Mean Daily Discharge in Second-foot', 'Second-foot per square mile', 'Run-off, depth in inches', 'Run-off in acre-feet', 'Maximum Mean Daily Discharge in Second-foot', and 'Minimum Mean Daily Discharge in Second-foot'.

Vertical text on the right side: 'DAY', 'Fourth', 'Third', 'Second', 'First', 'Quarter', 'Computed', 'Checked', 'Date'.

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 54

Monthly discharge of Topanga Creek
 at highway bridge,
2 miles above mouth
 for the year ending Sept. 30, 19 30

~~River~~
~~Creek~~

(Drainage area 18 square miles)

MONTH	DISCHARGE IN SECONDS-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							
November	record started January 1, 1930						
December							
January	39.20	0.14	3.02			185.55	
February	0.64	0.18	0.34			18.78	
March	108.40	0.13	6.37			390.71	
April	0.53	0.13	0.25			15.05	
May	3.42	0.16	0.38			23.42	
June	0.16	0.08	0.31			6.47	
July	0.08	0.07	0.07			4.72	
August	0.04	0.01	0.03			1.65	
September	0.02	0.01	0.02			.57	
The year period					inc	647.48	

NOTE:

VERDUGO STORM DRAIN AT GLEN OAKS BLVD.
GLENDALE

Location

On Glen Oaks Blvd. bridge spanning Verdugo Wash,
City of Glendale, County of Los Angeles, Calif.

Drainage Area

22.5 square miles.

Installed by

Los Angeles County Flood Control District,
December 12, 1928.

Records Available

December 12, 1928 to September 30, 1930 at L.A.C.F.C.D.

Gage

Staff gage on downstream side of bridge on North
side of concrete channel at extreme lower end of
pier. A groove is cut in the concrete floor from
the lowest point in the channel to the gate in order
to obtain a reading at low flows. A corrugated iron
pipe stilling well and wooden shelter house are in-
stalled 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 80.43 c.f.s. May 3, 1930.
Minimum - dry at various times during year.

Regulation

None.

Diversions

None above gage.

Accuracy

Good.

Cooperation

Constructed and operated by the L.A.C.F.C.D. with
cooperation of U.S.G.S. Water Resources Branch
and City of Glendale.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Page No. 9

Discharge measurements of Verdugo Storm Drain

River
Creek

at
near
Glen Oaks Blvd. Glendale
during the year ending September 30, 1930

No.	Date	Made by	Wind Dir.	Worst S.W. ft.	Mean Velocity M.P.H.	Dis- charge cfs.	Pressure feet	Water Temp. F.	Barom. inches	Wind Dir.	Wind Force	Temp. F.	Humid- ity	Notes
	1930	Bert Lloyd												271
1	1-12	Frank Mathews	12.4	2.61	4.5	.20	11.67	-	4	.01	1/4			588
2	5-2	O.E. Ballinger	5.00	0.40	2.70	.11	1.08	.6	5	.02	1/6			271 650
3	5-3	Lloyd Mathews	30.0	12.0	8.34	.60	100.70	.6	3	-	-			271 588

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 9

Rating table for Verdugo Storm Drain at

Glen Oaks Blvd., Glendale from Dec. 12, 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.
.00	.00	.04	.20	11.40	1.92	.40	19.75	.60	38.10					
.01	.04		.21	13.38		.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		.25	20.99		.45	59.34							
.06	.28	.075	.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							
.10	.76	.26	.30	30.58		.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	47.84		.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 forced to meet estimated
outflow as noted on record sheets

Computed by M. Rupert

Checked by L. S. J.

Date June 25, 1929

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of Verdugo Storm Drain River
Creek

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 9

At Glen Oaks Blvd. Glendale
Near

for the Year Ending September 30, 19 30

Drainage Area 22.6 Square Miles.

C. E. Bollinger [Observer.]

Gage Read to continuous One
Twice a Day.

Used rating table dated June 25, 1929

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	1.01	.04	.01	.04	.01	.04	.03	.12	.01	.04	.03	.12	.08	.42	.05	.20	1.01	.04	Dry	-	.01	.04	.03	.12	1
2	1.01	.04	.01	.04	.02	.08	.01	.04	Dry	-	.02	.08	.10	.76	.05	.20	1.01	.04	.01	.04	.02	.08	.03	.12	2
3	1.01	.04	.01	.04	.02	.08	.05	.20	.01	.04	.02	.08	.12	1.50	H	14.22	1.01	.04	.01	.04	.02	.08	.03	.12	3
4	1.01	.04	.01	.04	.02	.08	.05	.20	.01	.04	.05	.20	.03	.12	.15	3.75	1.01	.04	.01	.04	.01	.04	.02	.08	4
5	.01	.04	.01	.04	.02	.08	H	3.84	.01	.04	.08	.42	.03	.12	.12	1.50	1.01	.04	.01	.04	.01	.04	.03	.12	5
6	.01	.04	.01	.04	.01	.04	H	2.17	.01	.04	.07	.35	.03	.12	.09	.50	.02	.08	.01	.04	.01	.04	.03	.12	6
7	.02	.08	.01	.04	.02	.08	H	.82	.01	.04	.05	.20	.03	.12	.09	.05	.03	.12	Dry	-	.01	.04	.04	.16	7
8	.03	.12	.01	.04	.01	.04	.02	.08	.01	.04	.01	.04	.03	.12	.10	.76	.03	.12	.01	.04	.02	.08	.03	.12	8
9	.01	.04	.01	.04	.01	.04	H	9.58	.01	.04	.01	.04	.03	.12	.09	.50	.03	.12	.01	.04	.02	.08	.03	.12	9
10	.01	.04	.01	.04	.01	.04	H	8.25	.01	.04	.01	.04	.03	.12	.07	.35	.03	.12	.01	.04	.02	.08	.01	.04	10
11	.01	.04	.02	.08	.01	.04	.09	.50	.02	.08	.01	.04	.02	.08	.04	.16	.03	.12	.01	.04	.02	.08	.01	.04	11
12	.01	.04	Dry	-	.01	.04	H	4.56	.02	.08	.01	.04	Dry	-	.04	.16	.02	.08	.01	.04	.02	.08	.03	.12	12
13	.01	.04	.02	.08	.01	.04	.09	.50	.02	.08	.01	.04	.02	.08	.03	.12	.02	.08	.01	.04	.02	.08	.03	.12	13
14	.01	.04	.01	.04	.01	.04	H	7.40	.04	.16	M	7.67	.02	.08	.03	.12	.02	.08	Dry	-	.03	.12	.01	.04	14
15	.01	.04	.02	.08	.01	.04	.15	3.75	.03	.12	H	11.52	.01	.04	.03	.12	.02	.08	.02	.08	.03	.12	.01	.04	15
16	.01	.04	.02	.08	.01	.04	.12	1.50	.01	.04	.18	8.0	.04	.16	.09	.50	.04	.16	.05	.20	.06	.28	.03	.12	16
17	Dry	-	.01	.04	.01	.04	.12	1.50	.01	.04	1.16	4.20	.03	.12	.07	.35	.03	.03	.03	.12	.06	.28	.03	.12	17
18	.01	.04	.01	.04	.01	.04	.10	.76	.01	.04	1.15	3.75	.01	.04	.03	.12	.02	.08	.03	.12	.06	.28	.03	.12	18
19	.01	.04	.01	.04	.01	.04	.08	.46	.01	.04	1.13	2.10	.01	.04	.02	.08	.01	.04	.03	.12	.06	.28	.01	.04	19
20	.01	.04	.01	.04	.01	.04	.08	.42	.03	.12	1.11	1.13	.01	.04	.02	.08	.01	.04	.03	.12	.06	.28	.01	.04	20
21	.01	.04	.01	.04	.01	.04	.05	.20	.04	.16	1.09	.50	.01	.04	.03	.12	.01	.04	.03	.12	.06	.28	.01	.04	21
22	.03	.12	.01	.04	.01	.04	.02	.08	.06	.28	1.07	.35	.01	.04	.03	.12	.01	.04	.01	.04	.06	.28	.01	.04	22
23	.01	.04	.01	.04	.01	.04	.02	.08	.03	.12	.03	.12	.02	.08	.02	.08	.01	.04	.01	.04	.06	.28	.01	.04	23
24	.01	.04	.01	.04	.01	.04	.01	.04	.01	.04	.04	.16	Dry	-	.01	.04	.01	.04	.01	.04	.06	.28	.01	.04	24
25	.01	.04	.01	.04	.01	.04	.01	.04	.01	.04	.05	.20	.02	.08	.01	.04	.01	.04	.01	.04	.06	.28	.01	.04	25
26	.01	.04	.01	.04	.01	.04	Dry	-	.02	.08	.05	.20	.02	.08	.01	.04	.04	.16	.03	.12	.05	.20	.01	.04	26
27	.01	.04	.01	.04	.01	.04	.06	.28	.02	.08	.05	.20	.01	.04	.01	.04	.02	.08	.02	.08	.06	.28	.02	.08	27
28	.01	.04	.01	.04	.01	.04	.02	.08	.02	.08	.05	.20	.05	.20	.01	.04	.01	.04	.01	.04	.04	.16	.02	.08	28
29	.01	.04	.01	.04	.01	.04	.01	.04	.01	.04	.04	.16	.02	.08	.01	.04	Dry	-	.02	.08	.04	.16	.02	.08	29
30	.01	.04	.01	.04	.01	.04	.01	.04	.01	.04	.08	.42	.08	.42	.01	.04	Dry	-	.01	.04	.03	.12	.02	.08	30
31	.01	.04	-	-	.02	.08	.01	.04	.01	.04	.05	.20	.01	.04	.04	.16	.02	.08	.01	.04	.04	.16	.03	.12	31
TOTAL		1.40		1.24		1.48		47.57		2.04		43.37		5.26		24.48		2.03		2.24		4.92		2.44	138.47
Mean Daily Discharge in Second-foot		.04		.04		.05		1.59		.07		1.40		.14		.78		.07		.07		.16		.08	
Second-foot per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet		2.77		2.46		2.93		24.19		4.04		35.87		10.41		48.47		4.02		4.44		9.74		4.83	274.17
Maximum Mean Daily Discharge in Second-foot		.12		.08		.08		9.58		.28		11.52		1.50		14.22		.16		.28		.28		.16	
Minimum Mean Daily Discharge in Second-foot		0		0		.04		0		0		0		0		.04		0		0		.04		.16	

Maximum stage 4:10pm on May 3, 1930 Discharge 80.43
Minimum stage 0.0 on

DAY
Quarter
First
Second
Third
Fourth
Computed
Checked
Date
R.L.
J.L.I.
8/7/30
R.L.
J.L.I.
8/7/30
R.L.
J.L.I.
8/7/30
R.L.
J.L.I.
8/7/30
G. H. Copied
G. H. checked
Date
PERIOD
YEAR

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 9

Monthly discharge of Verdugo Storm Drain

River
Creek

at Clan Oaks Blvd. Glendale for the year ending Sept. 30, 1939

(Drainage area 22.5 square miles)

MONTH	DISCHARGE IN SECONDS				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	.12	0	.04			2.77	
November	.08	0	.04			2.46	
December	.08	.04	.05			2.93	
January	9.53	0	1.52			94.13	
February	.28	0	.07			4.04	
March	11.52	.04	1.40			85.87	
April	1.50	0	.14			10.41	
May	14.22	.04	.73			46.47	
June	.16	0	.07			4.02	
July	.28	0	.07			4.44	
August	.28	.04	.16			3.74	
September	.16	.04	.08			4.83	
The year period						274.27	

NOTE:

WALNUT WASH- COVINA BOULEVARD BRIDGE

Location

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

Drainage Area

99.14 square miles.

Installed by

Los Angeles County Flood Control District Dec. 15, 1928
Originally installed by D. W. R. 1923-1924

Records Available

Dec. 15, 1928 to Sept. 30, 1930 at L. A. C. 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 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 900 c.f.s. January 11, 1930.
Minimum - Dry at various times during year.

Diversions

None above gage.

Regulation

None.

Accuracy

Fair.

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. 47

Discharge measurements of Walnut Wash

~~River~~
Creek

at ~~ROCK~~ Covina Blvd. Bridge

during the year ending September 30, 1930

No.	Date	Made by	Width Feet	Area of section Sq. ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.-ft.	rating Method Coeff.	Meas. sec.	G. Ht. change	Time Hours	Meter No.
	1930											271
1	1-11	Brewster-Lindsay	108	154.6	4.35	3.95	672.6	.6	11	.5	1 1/3	666
2	1-11	" "	88	80.2	2.95	3.10	280.9	.6	10	0	1/3	"
3	1-11	" "	11	4.2	1.89	2.10	2.7	.6	6	0	1/6	"
4	1-12	" "	88	72.9	2.35	2.15	230.1	.6	11	.1	1/2	"
5	1-12	" "	30	30.7	2.58	2.05	109.8	.6	7	.1	1/2	"
6	1-15	" "	30	25.2	2.21	2.45	69.4	.6	9	.1	1/2	"
7	1-15	" "	22	11.7	2.25	2.09	29.6	.6	7	.02	1/6	"
8	1-14	" "	22	26.1	1.66	2.30	69.4	.6	9	0	1/2	"
9	5-3	" "	27	17.5	2.19	2.42	38.7	.6	7	0	1/2	"
10	5-4	" "	10	4.9	2.01	2.20	9.9	.6	5	0	1/5	"
11	5-4	" "	30	21.1	2.79	2.80	58.9	.6	8	0	1/2	"
12	5-5	Brewster	5	1.5	.89	1.83	1.4	.6	5	0	1/5	"
13	5-9	Brewster	3	.7	1.04	1.74	.7	.6	5	0	1/6	"
14	5-16	Brewster	6	2.1	1.55	1.30	3.3	.6	6	0	1/6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Rating table for Walnut Wash - Covina Blvd. Bridge

from October 1, 1929, to Sept. 30, 1930

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.
1.70	0.0	.13	2.70	120.	2.3	3.70	501	6.20						
.75	.65	.13	.75	131.5	2.3	.75	532	6.60						
.80	1.30	.13	.80	143.	2.4	.80	565	7.00						
.85	1.95	.37	.85	155.	2.6	.85	600	7.2						
.90	3.32	.44	.90	165.0	2.8	.90	636	7.2						
.95	5.50	.72	.95	182.0	2.8	.95	672	7.4						
2.00	9.00	.90	3.00	126.0	3.0	4.00	702							
.05	13.50	1.0	.05	811.	3.0									
.10	18.50	1.1	.10	826.	3.2									
.15	24.	1.2	.15	842.	3.6									
.20	30.	1.5	.20	860.	3.8									
.25	37.50	1.6	.25	879.	3.9									
.30	45.50	1.6	.30	890.5	4.1									
.35	53.50	1.6	.35	319.	4.2									
.40	61.50	1.7	.40	340.	4.6									
.45	70.	1.8	.45	363.	5.0									
.50	79.	1.9	.50	388.	5.3									
.55	87.5	2.1	.55	414.	5.6									
.60	99.	2.1	.60	440.	5.8									
.65	109.5	2.1	.65	471.	6.0									

The above table is not applicable for obstructed channel conditions. It is based on 14 discharge measurements made during from Oct. 1, 1929 - Sept. 30, 1930

and is well defined between 0 second-feet and 700 second-feet.

Computed by R. Lindsay

Checked by

Date 7/6/30

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

At Covina Blvd.
Near Covina Blvd. for the Year Ending September 30, 1930

Drainage Area..... Square Miles. [C. L. Brewster Observer.]

Gage Read to Continuous One Twice a Day.

Used rating table dated August 6, 1930

Maximum stage 4.27 feet at 6:00am on Jan. 11, 1930 Discharge 900 second-feet.
Minimum stage 0 feet at 0 on 0 Discharge 0 second-feet.

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							Y					Y														1
2							R						Y								Y					2
3																										3
4																H	5.37				Y					4
5															H	12.20										5
6		Y				Y		D		Y					H	13.79										6
7																1.73	.39									7
8																	1.80	1.30								8
9							H	12.21			D						1.76	.78								9
10																	1.75	.65								10
11							H	87.04							R						R					11
12		R				R	H	15.80		R							1.87	2.49								12
13																										13
14											H	15.63					1.78	1.04								14
15							H	45.47			H	39.91														15
16											H	4.71														16
17																										17
18																										18
19		D				D		Y		D		Y														19
20																										20
21																										21
22														D							D					22
23							R																			23
24																										24
25																										25
26											D															26
27							D																			27
28																										28
29																										29
30																					D					30
31																										31

TOTAL,							160.52	60.25	44.66				
Mean Daily Discharge in Second-feet							5.18	1.94	1.44				
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet	0	0	0	318.39	0	119.50	0	88.58	0	0	0	0	526.47
Maximum Mean Daily Discharge in Second-feet							87.04	39.91	13.79				
Minimum Mean Daily Discharge in Second-feet													

G. H. Copied R.L. Date 7/7/30
 Disch. applied R.L. Date 7/7/30
 Disch. checked R.L. Date 7/7/30
 Computed R.L. Date 7/7/30
 Checked R.L. Date 7/7/30

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 47

Monthly discharge of Walnut Wash

~~Kxxx~~
~~Kxxx~~

at
near

Covina Plvd. Bridge

for the year ending Sept. 30, 1930

(Drainage area 99.14 square miles)

MONTH	DISCHARGE IN SECONDS-FEET				RUSH		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October							dry
November							"
December							"
January	27.04	0	5.18			318.39	
February							dry
March	39.91	0	1.94			119.50	
April							dry
May	13.79	0	1.44			88.58	
June							dry
July							"
August							"
September							"
The year period						526.47	

NOTE:

ARROYO SECO U.S.G.S. STATION NEAR
PASADENA, CALIF.

LOCATION Near south line of Sec. 30 T. 2 N., R. 12 W. (unsurveyed) just below trail crossing at Forest Ranger's Cabin in Angelus National Forest, $1\frac{1}{2}$ miles above mouth of Millard Canyon, $5\frac{1}{2}$ miles northwest of Pasadena, and 3 miles above Devils Gate Dam.

DRAINAGE AREA 16.4 square miles

RECORDS AVAILABLE December 1910 to Sept. 30, 1930 at U.S.G.S. office

GAGE Water stage recorder on right bank.

DISCHARGE MEASUREMENTS Made from cable 150 feet above gage or by wading.

CHANNEL AND CONTROL Bed consists of solid rock, gravel and boulders. A concrete dam, extending to bedrock was built across the channel 15' below gage well with a notch in the crest 2' wide and 1' deep. In July 1919 a concrete intake box was built from gage house down to the control.

EXTREMES OF DISCHARGE Maximum 1929-1930 143 c.f.s. 5/3/30
Minimum 1929-1930 dry at various times of year.

DIVERSIONS None

REGULATIONS None

ACCURACY Good

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

4

D discharge measurements of

Arroyo Seco

4444
4444

near Pasadena, Calif.

During the year ending September 30, 1930

sheet 1 of 3 sheets

No.	Date	Name	W. in ft.	W. in inches	W. in feet	W. in ft.	W. in inches	W. in ft.	W. in inches	W. in ft.	W. in inches	W. in ft.	W. in inches
344	10/18	R. Dalton	.70	.14	.64	.94	.09	.6	3	0	-	271 647	
345	25	"	.50	.07	-	.87	.03	.6	1	0	-	"	
346	11/1	"	.20	.11	-	.90	.05	.6	1	0	-	"	
347	8	"	.20	.11	-	.92	.07	.6	3	0	-	"	
348	15	"	.70	.11	.55	.92	.06	.6	3	0	-	"	
349	22	"	.70	.13	.56	.91	.07	.6	3	0	-	FC25	
350	29	"	.70	.14	.63	.94	.09	.6	3	0	-	"	
351	12/6	"	.80	.14	.60	.92	.08	.6	3	0	-	"	
352	13	"	.80	.16	-	.96	.12	.6	3	0	-	"	
353	20	"	.80	.16	-	.94	.12	.6	3	0	-	"	
354	23	H. J. Tompkins	.8	.16	.94	.96	.15	.6	2	-	1/6	953	
355	27	R. Dalton	.8	.16	.81	.96	.13	.6	3	0	-	FC25	
356	1/2	H. J. Tompkins	.8	.16	.75	.96	.12	.6	2	-	1/12	953	
357	3	R. Dalton	.8	.16	.81	.96	.13	.6	3	0	-	FC25	
358	6	H. J. Tompkins	.6	.2	1.15	1.00	.23	.6	2	-	1/12	953	
359	10	R. Dalton	2.2	.69	.93	1.12	.64	.02 .6	5	-	1/6	FC25	
360	10	H. J. Tompkins	.7	.36	1.67	1.10	.60	0 .6	2	-	1/12	"	
361	11	R. Dalton	5.8	2.3	.73	1.21	1.7	.06	11	-	1/6	FC25	
362	13	H. J. Tompkins	.2	1.	2.30	1.30	2.3	.05 .6	4	-	1/6	953	
363	15	"	23	20	2.25	2.16	.45	.03 .6	11	-	1/3	"	
364	17	R. Dalton	12	8.2	.95	1.76	7.8	.6	12	-	1/6	FC25	
365	20	H. J. Tompkins	2.	.9	2.44	1.40	2.2	.06 .6	4	-	"	"	
366	27	"	2.	.8	2.25	1.34	1.8	.05 .6	4	-	"	"	
367	31	R. Dalton	4.	1.8	.86	1.29	1.5	.04 .6	8	-	"	FC25	
368	2/7	"	3.8	1.6	.64	1.25	1.0	.08 .6	8	-	1/12	"	
369	8	H. J. Tompkins	2.	.8	1.38	1.24	1.1	.05 .6	4	-	1/12	953	
370	14	R. Dalton	2.	.6	1.6	1.24	.95	.08 .6	5	-	1/6	FC25	
371	21	"	1.5	.45	1.6	1.24	.7	.12 .6	4	-	"	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Page 4

Discharge measurements of

Arroyo Seco

After

Pasadena, Calif.

During the year ending September 30, 1930

Sheet

sheet 2 of 3 sheets

No.	Date	Name	Wain	Area	Foot	Wain	Area	Foot	Wain	Area	Foot	Wain	Area	Foot
372	2/26	H. J. Tompkins	2.0	.55	1.82	1.30	1.0	-13	.6	4	1/12	953		
373	3/1	Dalton-Lindsay	2.0	.60	2.03	1.28	1.2	-08	.6	3	-	7025		
374	5	H. J. Tompkins	2.0	1.6	2.68	1.64	4.3	-09	.6	4	1/6	953		
375	7	R. Dalton	4.0	2.2	1.19	1.38	2.6	0	.6	5	1/12	7025		
376	12	H. J. Tompkins	2.	.8	2.38	1.30	1.9	0	.6	4	1/6	953		
377	14	R. Dalton	9.	5.5	.62	1.49	3.4	+02	.6	10	"	7025		
378	15	H. J. Tompkins	23.5	14	3.43	2.14	48.	+01	.6	7	1/5	983		
379	19	"	9.	9.4	1.81	1.92	17	+02	.6	9	1/3	"		
380	21	R. Lindsay	9.5	9.6	1.7	1.90	16	-01				287 883		
381	24	H. J. Tompkins	9.	7.9	1.24	1.80	9.8	0	.6	9	1/5	983		
382	28	Dalton-Lindsay	9.	6.9	.80	1.66	5.5	-03	.6	6	1/6	7025 883		
383	4/4	R. Lindsay	9.2	5.1	.63	1.47	3.2		.6	6	1/6	883		
384	7	H. J. Tompkins	2.	.8	2.75	1.38	2.2		.6	4	1/3	283 883		
385	11	R. Lindsay	2.	.8	2.68	1.37	2.2		.6	4	1/6	883		
386	18	"	2.	.8	2.15	1.25	1.8		.6	4	1/10	"		
387	18	H. J. Tompkins	2.1	.6	2.00	1.24	1.2		.6	4	1/5	983		
388	25	R. Lindsay	2.	.78	2.09	1.23	1.6		.6	4	1/6	282 883		
389	25	H. J. Tompkins	2.	.55	2.00	1.23	1.1		.6	4	1/6	983		
390	5/1	"	2.	.8	2.38	1.30	1.9		.6	4	"	"		
391	5/2	R. Lindsay	9.1	6.6	.83	1.63	5.5		.6	6	"	282 883		
392	5/3	H. J. Tompkins	9.6	8.8	2.04	1.90	18		.6	5	"	983		
393	5/4	"	12	9	3.22	2.00	29		.6	6	1/4	"		
394	9	R. Lindsay	10	7.7	1.18	1.80	9.1		.6	6	1/6	282 883		
395	9	H. J. Tompkins	8.6	7.1	1.41	1.80	10		.6	8	1/4	983		
396	16	R. Lindsay	8.7	5.7	.91	1.66	5.2		.6	5	1/6	282 883		
397	23	Lindsay-Thrasher	4.7	2.3	1.11	1.42	2.5		.6	6	1/6	"		
398	23	H. J. Tompkins	2.2	1.5	1.93	1.42	2.4		.6	4	"	983		
399	30	R. Lindsay	5.0	2.3	1.04	1.35	2.4		.6	6	1/10	282 883		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

4

Discharge measurements of **Arroyo Seco**

near **Pasadena, Calif.**

during the year ending September 30, 1930

Sheet 3 of 3 sheets

No.	Date	Name	Width feet	Area of section sq. ft.	Mean velocity feet per sec.	Discharge		Total discharge cfs.	Depth feet	Area of pool sq. ft.	Velocity feet per sec.
						Feet	Second				
400	6/3	H. J. Tompkins	2.	1.0	1.90	1.32	1.9	.6	4	1/6	953
401	6	R. Lindsay	2.	.83	1.95	1.20	1.6	.6	4	"	980 823
402	13	"	2.	.83	1.75	1.23	1.6	.6	4	1/12	"
403	17	H. J. Tompkins	2.	1.3	1.15	1.30	1.5	.6	4	"	983
404	20	R. Lindsay	2.6	1.04	1.4	1.28	1.4	.6	5	1/6	980 823
405	27	"	2.6	.89	1.02	1.23	.9	.6	5	1/10	"
406	7/3	H. J. Tompkins	2.	.9	.83	1.10	.75	.6	4	"	983 880
407	7/3	R. Lindsay	1.5	.47	.79	1.04	.37	.6	3	1/12	883
408	11	"	.75	.18	.50	.98	.10	.6	2	1/12	"
	18	"			est.		.02				
	25	"			"		.02				
	8/8	"			"		.02				
	15	"			"		.02				
	22	"			dry						
	9/5	"			"						

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of **Arroyo Seco** U.S.C.S. Station
 Near **Pasadena, Calif.** for the Year Ending September 30, 1930

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. **U1**

Drainage Area **16.4** Square Miles. [Observer.]

Gage Read to **continuous**

Used rating table dated.....

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					.1		.2		1.3		1.2		3.8		2.5		1.9		.7					1	
2					.1		.2		1.3		1.1		4.7		6.5		1.9		.6					2	
3					.1		.2		1.3		1.2		3.0		9.5		1.8		.5					3	
4					.1		.2		1.3		1.5		2.8		42.		1.9		.3					4	
5					.1		.3		1.1		4.2		2.5		27.		1.9		.3					5	
6					.1		.3		1.0		3.0		2.4		19.		1.2		.3					6	
7					.1		.5		1.0		2.7		2.2		14.		1.8		.2					7	
8					.1		.3		.9		2.6		2.2		12		1.8		.2					8	
9					.1		.4		.9		2.5		2.2		11.		1.8		.2					9	
10					.1		.7		.9		2.3		2.3		9.		1.7		.1					10	
11					.2		1.5		.9		2.3		2.2		8.5		1.7		.1					11	
12					.2		1.3		.9		1.9		2.1		7.5		1.7		.1					12	
13					.2		2.4		.9		2.1		1.2		6.5		1.6		.1					13	
14					.1		2.7		.9		8.		1.9		5.5		1.7		.1					14	
15					.1		31.		.9		60.		1.9		4.9		1.6		.1					15	
16					.1		14.		.9		46.		1.8		4.9		1.5		.1					16	
17					.1		7.5		.8		32.		1.8		4.5		1.3		.1					17	
18					.1		5.5		.8		28.		1.7		4.1		1.3		.1					18	
19					.1		3.3		.7		21.		1.5		3.6		1.3		.1					19	
20					.1		2.5		.7		18.		1.4		3.3		1.3		.1					20	
21					.1		2.1		.7		17.		1.3		3.0		1.2		.1					21	
22					.1		1.9		.8		15.		1.3		2.8		1.0		.1					22	
23					.2		1.8		1.1		13.		1.3		2.7		.9		.1					23	
24					.2		1.7		.9		10.		1.3		2.3		.8		.1					24	
25					.2		1.5		.9		9.		1.3		2.4		.8		.1					25	
26					.2		1.5		1.0		7.5		1.4		2.4		.8		.1					26	
27					.2		1.8		1.1		6.5		1.1		2.3		.7		.1					27	
28					.2		1.7		1.1		5.5		.9		2.2		.7							28	
29					.2		1.7				4.9		1.0		2.2		.7							29	
30					.2		1.7				4.6		1.9		2.3		.7							30	
31					.2		1.5				5.				2.2									31	
TOTAL					4.3		93.9		27.0		339.6		59.0		232.6		41.7		5.1						
Mean Daily Discharge in Second-foot	est.05		est. .07		.14		3.03		.96		11.0		1.97		7.50		1.39		.16		est. .02		est. .02		
Second-foot per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet	3.1		4.2		8.6		186.		53.		676.		117		461		82.7		9.8		1.2		1.2		1600
Maximum Mean Daily Discharge in Second-foot	-		-		.2		31.		1.3		60.0		4.7		42.0		1.9		.7		-		-		-
Minimum Mean Daily Discharge in Second-foot	-		-		.1		.2		.9		1.1		.9		2.2		.7		.1		-		-		-

Quarter First Second Third Fourth
 Disch. applied
 Disch. checked
 Date
 G. H. Copied
 G. H. checked
 Date
 PERIOD
 YEAR

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **U1**

Monthly discharge of **Arroyo Codo** ~~river~~
U.S.G.S. Station ~~at~~
Pasadena, Calif. ~~near~~ for the year ending Sept. 30, 19**30**

(Drainage area **16.4** square miles)

MONTH	DISCHARGE IN SECOND FEET				DEPTH		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	-	-	*.05			3.1	
November	-	-	*.07			4.2	
December	.20	.10	.14			8.6	
January	12.0	.80	3.01			186.0	
February	1.30	.30	.90			53.0	
March	60.0	1.10	11.0			676.0	
April	4.7	.20	1.97			117.0	
May	41.0	2.20	7.10			461.0	
June	1.30	.30	1.30			88.70	
July	.70	-	.16			9.80	
August	-	-	*.02			1.20	
September	-	-	*.02			1.20	
The year period						1600.00	

NOTE: * Estimated

BIG ROCK CREEK U. S. G. S. STATION

Location In N. E. $\frac{1}{4}$ Sec. 20 T. 4 N., R. 9 W., a quarter of a mile south of the boundary line of the Angeles National Forest, about $1\frac{3}{4}$ miles southeast of Valyermo, Los Angeles County.

Drainage Area Not meas.

Records Available 1/17/23 to 9/30/30

Gage Stevens Continus Water Stage Recorder in wooden well and shelter on right bank.

Disch. Meas. Made from a foot bridge 20 feet below the gage or by wading.

Chan. & Control Boulders and gravel which may shift at high stages; fairly permanent at low and medium stages.

Extremes of Disch. Maximum 56.0 c.f.s. 3/25/30
Minimum 2.0 c.f.s. 10/27 - Nov. 3 to 6 and 10, 1929

Accuracy Stage Disch. relation not permanent. Rating curve fairly well defined by 23 disch. meas. made during the year. Water stage recorder record excellent. Daily discharge ascertained by applying mean daily gage height to rating table. Records good.

Cooperation Constructed and operated by the U.S.G.S. Water Resources Branch in Cooperation with the L. A. C. F. C. D.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

U14

Discharge measurements at

Rock
U.S.G.S. Station

Check

~~at~~
near

Valyermo, Calif.

During the year ending Sept. 30, 1930

Date	By	Water Gage	Amount of Rain in Inches	Stage in Feet	Discharge in CFS	Discharge in MGD	Total Discharge
Oct. 3	H. J. Tompkins			1.06	2.6		885
19	ditto			1.04	2.2		"
Nov. 16	ditto			1.09	2.5		953
29	"			1.12	2.5		"
Dec. 28	Troxell-Melin			1.12	2.7		946
Jan. 3	H. J. Tompkins			1.12	2.7		953
18	"			1.10	2.8		"
Feb. 22	"			1.20	5.		"
Mar. 13	"			1.24	6		"
18	"			1.42	11		"
25	"			1.86	44		"
Apr. 5	"			1.58	20		"
17	Ebert & Melin			1.49	15		27214
May 6	H. J. Tompkins			1.60	20		953
20	"			1.60	21		"
30	Kenneth R. Melin			1.50	16		148
June 4	H. J. Tompkins			1.44	14		953
12	"			1.38	10		"
16	"			1.34	11		"
July 12	"			1.26	7.6		"
28	"			1.24	6.6		"
Sept. 9	"			1.18	5.2		"
27	"			1.16	4.8		"

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of **Rock U.S.G.S. Station** **Valyermo, Calif.** for the Year Ending September 30, 1930.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. **U14**

Drainage Area **Stevens Continuous Water Stage Recorder** Square Miles **Observer** Gage Read to **continuous** Used rating table dated **10/8/30**

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	1.04	2.3	1.05	2.2	1.10	2.3	1.12	2.8	1.14	3.4	1.24	6.	1.70	28.	1.49	15.	1.49	16.	1.32	10.	1.26	7.	1.21	6.	1	
2	1.04	2.3	1.05	2.2	1.10	2.3	1.12	2.8	1.14	3.4	1.23	5.5	1.66	25.	1.53	16.	1.49	16.	1.31	9.5	1.27	7.5	1.21	6.	2	
3	1.05	2.4	1.04	2.0	1.11	2.4	1.12	2.8	1.14	3.4	1.23	5.5	1.63	23.	1.61	20.	1.48	16.	1.30	9.5	1.26	7.	1.20	5.5	3	
4	1.06	2.6	1.04	2.0	1.11	2.4	1.12	2.8	1.14	3.4	1.25	6.5	1.61	22.	1.69	26.	1.46	15.	1.30	9.	1.27	7.5	1.20	5.5	4	
5	1.06	2.6	1.04	2.0	1.11	2.4	1.13	2.9	1.15	3.6	1.29	7.5	1.60	21.	1.63	22.	1.46	15.	1.29	8.5	1.26	7.	1.20	5.5	5	
6	1.06	2.6	1.04	2.0	1.12	2.6	1.11	2.8	1.15	3.6	1.31	8.	1.61	22.	1.62	21.	1.45	14.	1.29	8.5	1.26	7.	1.20	5.5	6	
7	1.06	2.6	1.05	2.2	1.12	2.6	1.10	2.6	1.15	3.6	1.29	7.5	1.65	24.	1.66	24.	1.44	13.	1.29	8.5	1.25	7.	1.20	5.5	7	
8	1.07	2.8	1.06	2.2	1.12	2.6	2.8	1.16	3.9	1.27	7.	3	1.66	25.	1.64	22.	1.43	13.	1.29	8.5	1.24	6.5	1.20	5.5	8	
9	1.08	2.9	1.06	2.2	1.12	2.6	2.9	1.17	4.1	1.26	6.5	9	1.66	25.	1.61	20.	1.42	12.	1.28	8.5	1.23	6.5	1.19	5.5	9	
10	1.07	2.8	1.05	2.0	1.12	2.6	3.5	1.18	4.3	1.25	6.5	10	1.63	23.	1.59	20.	1.42	12.	1.28	8.5	1.23	6.5	1.19	5.5	10	
11	1.07	2.8	1.06	2.2	1.12	2.6	4.5	1.19	4.5	1.24	6.	11	1.59	20.	1.61	21.	1.42	12.	1.28	8.5	1.23	6.5	1.18	5.	11	
12	1.06	2.6	1.08	2.4	1.12	2.6	4.0	1.20	4.7	1.24	6.	12	1.56	19.	1.65	24.	1.41	11.	1.27	8.	1.23	6.5	1.17	5.	12	
13	1.06	2.6	1.09	2.4	1.13	2.8	3.5	1.20	4.7	1.24	6.	13	1.56	18.	1.67	25.	1.40	11.	1.27	8.	1.23	6.5	1.17	5.	13	
14	1.06	2.4	1.09	2.4	1.13	2.8	3.4	1.20	5.	1.36	9.5	14	1.55	18.	1.67	25.	1.39	12.	1.27	8.	1.23	6.5	1.16	4.7	14	
15	1.06	2.4	1.09	2.4	1.13	2.8	3.2	1.20	5.	1.34	8.5	15	1.52	16.	1.66	24.	1.38	12.	1.27	8.	1.23	6.5	1.15	4.5	15	
16	1.06	2.4	1.09	2.4	1.13	2.8	3.1	1.20	5.	1.31	7.5	16	1.50	16.	1.65	24.	1.37	12.	1.27	8.	1.23	6.5	1.15	4.5	16	
17	1.05	2.3	1.08	2.3	1.14	2.9	3.0	1.20	5.	1.35	9.	17	1.48	15.	1.62	22.	1.36	12.	1.26	7.5	1.23	6.5	1.14	4.3	17	
18	1.05	2.3	1.08	2.3	1.14	2.9	1.12	3.0	1.20	5.	1.37	9.5	18	1.47	14.	1.61	22.	1.36	12.	1.25	7.5	1.23	6.5	1.14	4.3	18
19	1.05	2.3	1.08	2.3	1.14	2.9	1.11	2.9	1.20	5.	1.36	9.	19	1.48	15.	1.62	22.	1.36	12.	1.25	7.5	1.23	6.5	1.15	4.5	19
20	1.05	2.3	1.09	2.3	1.14	2.9	1.12	3.0	1.20	5.	1.39	10.	20	1.50	16.	1.62	22.	1.36	12.	1.25	7.	1.23	6.5	1.14	4.3	20
21	1.04	2.2	1.09	2.3	1.14	2.9	1.12	3.0	1.20	5.	1.44	12.	21	1.53	17.	1.63	23.	1.36	12.	1.25	7.	1.23	6.5	1.15	4.5	21
22	1.04	2.2	1.10	2.4	1.14	2.9	1.11	2.9	1.22	5.5	1.53	16.	22	1.53	17.	1.61	22.	1.36	11.	1.25	7.	1.23	6.5	1.15	4.5	22
23	1.04	2.2	1.11	2.4	1.14	2.9	1.11	2.9	1.22	5.5	1.60	20.	23	1.53	17.	1.57	20.	1.36	11.	1.25	7.	1.23	6.5	1.16	4.7	23
24	1.04	2.2	1.11	2.4	1.13	2.9	1.11	2.9	1.23	5.5	1.75	32.	24	1.54	18.	1.56	19.	1.35	11.	1.25	7.	1.24	6.5	1.16	4.7	24
25	1.04	2.2	1.11	2.4	1.12	2.8	1.10	2.8	1.24	6.	1.86	45.	25	1.52	16.	1.55	18.	1.35	11.	1.25	7.	1.24	6.5	1.16	4.7	25
26	1.04	2.2	1.11	2.4	1.13	2.9	1.10	2.8	1.24	6.	1.85	44.	26	1.49	15.	1.54	18.	1.35	11.	1.25	7.	1.24	6.5	1.16	4.7	26
27	1.03	2.0	1.12	2.4	1.12	2.8	1.14	3.4	1.24	6.	1.79	36.	27	1.47	14.	1.53	18.	1.34	11.	1.25	7.	1.24	6.5	1.16	4.7	27
28	1.04	2.2	1.12	2.4	1.12	2.8	1.14	3.4	1.24	6.	1.75	32.	28	1.46	14.	1.53	18.	1.34	11.	1.25	7.	1.24	6.5	1.17	5.	28
29	1.05	2.2	1.12	2.4	1.12	2.8	1.14	3.4	1.	1.75	32.	29	1.44	13.	1.51	16.	1.33	10.	1.25	7.	1.23	6.5	1.18	5.	29	
30	1.05	2.2	1.11	2.3	1.12	2.8	1.14	3.4	1.77	34.	30	1.49	15.	1.51	16.	1.33	10.	1.25	7.	1.22	6.	1.18	5.	30		
31	1.05	2.2	1.12	2.8	1.14	3.4	1.75	32.	31	1.49	16.	31	1.49	16.	1.26	7.	1.22	6.	31							

TOTAL.	74.3	68.2	84.1	96.6	131.1	482.5	561.0	641.0	369.	244.0	205.0	149.6	3106.4
Mean Daily Discharge in Second-foot	2.40	2.27	2.71	3.12	4.68	15.6	18.7	20.7	12.3	7.9	6.6	4.99	8.51
Second-foot per square mile													
Run-off, depth in inches													
Run-off in acre-feet	148	135	167	192	260	959	1110.0	1270.	732.	486.	406	297.0	6160.0
Maximum Mean Daily Discharge in Second-foot	2.9	2.4	2.9	4.5	6	45.	28.	28.	16.	10.	7.5	6.	45.0
Minimum Mean Daily Discharge in Second-foot	2.0	2.0	2.3	2.6	3.4	5.5	13.	15.	10.	7.	6.	4.3	2.0

Maximum stage **1.94** feet at **10 p.m.** on **March 25** Discharge **56** second-feet
 Minimum stage **1.04** feet at **on** **Oct. 27, Nov. 3-6-10** Discharge **2.0** second-feet
No record Jan. 8-17 - discharge estimated.

Observer: **K.F.S.**
 Computed: **K.F.S.**
 Checked: **M.A.T.**
 Date: **11/7/30**

Observer: **H.C.T.**
 Computed: **K.F.S.**
 Checked: **K.F.S.**
 Date: **11/4/30**

Observer: **H.C.T.**
 Computed: **K.F.S.**
 Checked: **K.F.S.**
 Date: **11/4/30**

Observer: **G. H. Copied**
 Checked: **G. H. checked**
 Date: **PERIOD YEAR**

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. U14

Monthly discharge of **Rock**
U. S. G. Station
Valyerno, California

~~Rock~~
Creek

~~at~~
 near

for the year ending Sept. 30, 19 **30**

(Drainage area square miles)

MONTH	DISCHARGE IN SECONDS FEET				RECORD		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	2.9	2.0	2.4			148	
November	2.4	2.0	2.27			135	
December	2.9	2.3	2.71			167	
January	4.5	2.6	3.12			192	
February	6.0	3.4	4.68			260	
March	45.0	5.5	15.6			959	
April	28.0	13.0	18.7			1110	
May	28.0	15.0	20.7			1270	
June	16.0	10.0	12.3			732	
July	10.0	7.0	7.9			486	
August	7.5	6.0	6.6			406	
September	6.0	4.3	4.99			297	
The year period						6160	

NOTE:

BIG SANTA ANITA CREEK. U.S.G.S. STATION

NEAR SIERRA MADRE, CAL.

Location	In SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 10, T. 1 N., R. 11 W., at head of Hermit's Falls, 4 miles northeast of Sierra Madre. About 1 mile above L. A. County Flood Control Reservoir.
Drainage Area	10.5 square miles.
Records Available	July 16, 1916 to Sept. 30, 1930 at U.S.G.S. office
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 - 1929-1930 39.0 c.f.s. Jan. 15, 1930 Minimum 1929-1930 0.1 c.f.s. various times of year
Diversions	None
Regulation	None
Accuracy	Good
Cooperation	Constructed and operated by U.S.G.S. Water Resources Branch in cooperation with the Los Angeles County Flood Control District

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 377

Discharge measurements of SANTA ANITA
U. S. G. S. Station

Santa Anita
Creek

near SANTA MADRE, CALIF. during the year ending September 30, 1930

No.	Date	Made by	Width Feet	Area of section S. B. I. P. S. C.	Mean velocity	Gage reading		Rating	Method	Coeff.	Main section	No. of change	Date	No.	
						Feet	Secs.								
269	10/2	H J Tompkins	Volumetric			0.66	0.18							1/2	
270	9	"	"	"	"	0.64	0.13								
271	16	"	"	"	"	0.64	0.13							1/3	
272	23	"	"	"	"	0.64	0.13							"	
273	30	"	"	"	"	0.62	0.13							"	
274	11/6	"	"	"	"	0.62	0.12							1	
275	13	"	"	"	"	0.65	0.13							1-1/2	
276	20	"	"	"	"	0.64	0.14							1/2	
277	29	"	"	"	"	0.66	0.19							"	
278	12/4	"	1.0	0.50	0.73	0.70	0.28				2			1/5 953	
279	11	"	0.9	0.32	0.83	0.73	0.28				"			" "	
286	18	"	0.9	0.36	0.83	0.71	0.30				2			" "	
281	31	"	0.9	0.36	0.75	0.70	0.27				2			1/10 "	
282	1/8	"	0.9	0.44	1.36	0.80	0.60				2			1/4 "	
283	10	"	2.5	1.2	1.42	0.92	1.7				5			1/2 "	
284	11	"	4.6	2.1	1.38	1.04	0.9				6			1/2 "	
285	16	"	14	10	0.95	1.30	0.5				4			1/3 "	
286	22	"	4.6	2.0	1.40	1.03	0.8				5			1/2 "	
287	29	"	4.6	2.1	1.24	1.00	0.6				6			" "	
288	2/5	"	5.0	1.2	1.30	0.9	1.3				4			1/5 "	
289	12	"	2.5	1.0	1.20	0.80	1.2				2			" "	
290	19	"	2.6	.8	1.06	0.88	0.85				2			" "	
291	26	"	2.6	1.0	1.30	0.88	1.3				5			" "	
292	3/5	"	12	.94	0.68	1.18	6.0				7			" "	
293	12	"	2.5	1.2	1.50	0.96	1.5				3			1/2 "	
294	16	"	14	1.2	1.40	1.60	11				2			" "	
295	19	"	7.4	7.7	1.86	1.37	12				7			1/3 "	
296	26	"	7.4	5.1	1.30	1.19	6.0				7			1/2 "	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 377

Discharge measurements of SANTA ANITA
U.S.C.S. Station

Check

at Sierra Madre, Calif.
near

During the year ending September 30, 1930

Sheet 2 of 3 sheets

No.	Date	Made by	Width			Mean velocity	Gage height		Discharge	Stage	No. of gages	No. of gages	No. of gages
			Top	Spill	Bottom		Foot	Head					
297	4/2	H J Tompkins	7.5	3.7	1.14	1.08	4.2	.6	7	0	1/1	95	
298	9	"	7	2.8	1.07	1.03	3.0	.6	7	0	1/1	"	
293	16	"	7.3	2.7	.89	.99	2.4	.6	7	0	1/1	"	
300	23	"	4.4	1.3	1.08	.94	1.4	.6	6	0	1/1	"	
301	30	"	4.4	1.5	1.80	1.07	2.7	.6	6	0	1/1	"	
302	5/3	"	5	2.8	1.39	1.07	3.3	.6	6	0	1/3	"	
303	7	"	7	2.7	1.13	1.13	7.6	.6	6	0	1/1	"	
304	10	"	7	4.4	1.21	1.13	8.3	.6	6	0	1/1	"	
305	14	"	7	3.4	1.15	1.08	2.0	.6	7	0	1/1	"	
306	17	"	7	3	1.18	1.07	4.0	.6	7	0	1/1	"	
307	21	"	5.6	2.2	1.36	1.02	3.3	.6	6	0	1/1	"	
308	24	"	5.6	1.8	1.11	.97	2.0	.6	6	0	1/1	"	
309	28	"	2.9	1.2	1.58	.97	1.9	.6	6	0	1/1	"	
312	31	"	2.9	1.2	1.50	.98	2.0	.6	6	0	1/1	"	
311	5/5	"	2.9	1.2	1.67	.96	2.0	.6	3	0	1/1	"	
312	11	"	2.9	1.2	1.42	.92	1.7	.6	5	0	1/1	"	
313	18	"	2.9	1.2	1.33	.92	1.6	.6	5	0	1/1	"	
314	25	"	2.9	0.85	1.12	.86	.95	.6	5	0	1/1	"	
315	7/2	"	1.0	.4	1.75	.83	.7	.6	2	0	1/1	"	
316	9	"	1.0	.3	1.75	.82	.7	.6	2	0	"	"	
317	16	"	1.0	.3	.97	.73	.22	.6	2	0	"	"	
318	23	"	1.0	.36	1.22	.74	.44	.6	2	0	"	"	
319	30	"	.7	.2	1.00	.68	.2	.6	2	0	"	"	
320	8/6	"	Volumetric			.66	.17						
321	13	"	.7	.24	1.04	.70	.26	.6	2	0	1/1	98	
322	20	"	.7	.2	.75	.66	.15	.6	2	0	1/1	"	
323	27	"	Volumetric			.64	.11						
324	9/3	"	"			.60	.09						

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 377

Discharge measurements of

Santa Anita
U. S. S. Station

Check

near

Sierra Madre, Calif.

during the year ending September 30, 1930

Sheet 3 of 3 sheets

No.	Date	Made by	Width	Area of section		Mean velocity	Discharge		Rating	Out of Corr.	Misc. Notes	G. H. change	Time	Velocity
				Feet	Sq. ft.		Feet	Sq. ft.						
325	9/10	W J Tompkins	Volumentric				0.58	.36						
326	17	"	"				.62	.12						
327	24	"	"				.64	.15						

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of

Santa Anita Creek
U.S.G.S. Station

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 4

Near Sierra Madre, Calif.

for the Year Ending September 30, 1930

Drainage Area 10.5 Square Miles.

Observer.]

Gage Read to continuous

Used rating table dated

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		.2		.1		.2		.3		2.2		1.2		4.9		3.1		1.8		.7		.2		.1	1
2		.2		.1		.2		.3		2.1		1.2		4.4		3.7		2.0		.7		.2		.1	2
3		.2		.1		.2		.2		2.0		1.2		4.0		7.5		1.8		.7		.1		.1	3
4		.1		.1		.2		.3		1.8		3.1		3.7		12.		1.7		.6		.1		.1	4
5		.1		.1		.2		.5		1.7		6.		3.5		10.		1.6		.6		.1		.1	5
6		.1		.1		.2		.6		1.8		3.9		3.3		8.5		1.4		.6		.1		.1	6
7		.1		.1		.2		1.2		1.6		3.1		3.0		7.		1.6		.6		.1		.1	7
8		.1		.1		.2		.6		1.4		2.3		2.8		6.5		1.4		.7		.2		.1	8
9		.1		.1		.2		.9		1.4		2.1		2.8		6.		1.6		.7		.2		.1	9
10		.1		.1		.2		1.7		1.3		2.1		2.8		5.5		1.6		.6		.2		.1	10
11		.1		.2		.3		2.3		1.2		2.0		2.6		5.		1.7		.6		.2		.1	11
12		.1		.2		.3		2.0		1.2		2.0		2.5		4.4		1.7		.4		.3		.1	12
13		.1		.2		.3		2.0		1.2		2.0		2.6		4.0		1.7		.3		.2		.1	13
14		.1		.2		.3		2.3		1.1		9.		2.5		4.0		1.7		.3		.2		.1	14
15		.1		.2		.3		20.		1.1		25.		2.3		4.0		1.4		.3		.2		.1	15
16		.1		.2		.2		9.5		1.0		22.		2.2		4.4		1.3		.2		.2		.1	16
17		.1		.2		.3		6.5		1.0		17.		2.1		4.0		1.3		.2		.2		.1	17
18		.1		.2		.3		6.		.9		14.		2.0		3.9		1.4		.2		.2		.1	18
19		.1		.2		.2		4.4		.9		12.		1.8		3.1		1.4		.3		.2		.1	19
20		.1		.2		.2		3.5		1.1		11.		1.7		2.8		1.4		.3		.2		.1	20
21		.1		.2		.3		3.0		1.1		11.		1.6		2.8		1.3		.3		.2		.1	21
22		.1		.2		.5		2.6		1.3		10.		1.4		2.5		1.2		.3		.1		.1	22
23		.1		.2		.5		2.5		2.1		9.5		1.2		2.3		1.2		.3		.1		.2	23
24		.1		.2		.5		2.3		1.7		8.5		1.4		2.2		1.1		.2		.1		.2	24
25		.1		.2		.5		2.5		1.4		7.		1.6		2.1		1.0		.2		.1		.2	25
26		.1		.2		.5		2.3		1.3		6.5		1.6		2.1		1.0		.2		.1		.2	26
27		.1		.2		.4		2.8		1.4		6.		1.6		2.1		1.0		.2		.1		.2	27
28		.1		.2		.3		2.8		1.4		5.5		1.7		2.1		.9		.2		.1		.2	28
29		.1		.2		.3		2.6				5.		1.8		2.1		.9		.2		.1		.2	29
30		.1		.2		.3		2.5				4.9		3.1		2.0		.8		.2		.1		.3	30
31		.1		.2		.3		2.3				5.5				2.0				.2		.1		.3	31
TOTAL		3.4		5.0		9.1		93.3		39.7		221.6		74.7		133.7		41.9		12.1		4.8		3.9	
Mean Daily Discharge in Second-foot		.11		.17		.29		3.01		1.42		7.15		2.49		4.31		1.40		0.39		.16		.13	
Second-foot per square mile																									
Run-off, depth in inches		6.8		10.1		17.8		185		78.9		440.		1.48		2.65		83.3		24.0		9.8		7.7	1280.
Run-off in acre-feet																									
Maximum Mean Daily Discharge in Second-foot		.2		.2		.5		20.0		2.2		25.0		4.9		12.0		2.0		.7		.2		.3	
Minimum Mean Daily Discharge in Second-foot		.1		.1		.2		.2		.9		1.2		1.4		2.0		.8		.2		.1		.1	

Quarter First Second Third Fourth
 G. H. Copied
 G. H. Checked
 Date
 Quarter First Second Third Fourth
 Disch. applied
 Disch. checked
 Date
 Quarter First Second Third Fourth
 Checked
 Date
 PLRIOD
 YEAR

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **U4**

Monthly discharge of

Santa Anita
U.S.G.S. Station

~~river~~
Creek

~~at~~
near

Sierra Madre

for the year ending Sept. 30, 19 30

(Drainage area **10.5** square miles)

MONTH	DISCHARGE IN SECONDS FEET				RUN OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inch on drainage area	Total in acre feet	
October	.20	.10	.11			6.3	
November	.20	.10	.17			10.1	
December	.50	.20	.29			17.3	
January	20.0	.30	3.01			185.0	
February	2.20	.90	1.42			78.9	
March	25.0	1.20	7.15			440.0	
April	4.9	1.40	2.49			146.0	
May	12.0	2.00	4.31			265.0	
June	2.0	.80	1.40			83.3	
July	.70	.20	.39			24.0	
August	.30	.10	.16			9.60	
September	.30	.10	.15			7.70	
The year period						1280.	

NOTE:

BIG DALTON CREEK U. S. G. S. STATION

NEAR GLENDORA, CALIF.

Location In Center of Sec. 21, T. 1 N., R. 9 W.,
at Glendora Consolidated Mutual Irrigation
Company's Dam, 1/4 mile above mouth of
canyon and 2 1/2 miles northeast of Glendora
and 2 miles below Flood Control Dam.

Drainage Area 6.53 square miles.

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

Records Available Dec. 1919 to Sept. 30, 1930 at U.S.G.S. office

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

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

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

Extremes of
Discharge Maximum 1929-1930. 3.1 c.f.s. 3/15/30
Minimum 1929-1930. Dry at various times of
year.

Diversions The Glendora Consolidated Mutual Irrigation
Company's dam diverts water 1/2 a mile
and 1 1/2 miles above gage through a 10" pipe
line. 4-12" pipe lines divert water at
the dam.

Regulation Flow regulated by Los Angeles County Flood
Control District's Dam above gage

Accuracy Good

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

419

Hydrographic measurements of

DALTON
U.S.G.S. Station

CRICK

4
dam

Glendora, Calif.

Station for recording flow at dam No. 10 30

sheet 1 of 2 sheets

No.	Date	Name	1	2	3	4	5	6	7	8	9	10
199	1/15	F. C. Ebert	3.3	1.0	0.85	1.05	.85	.6	6	1/4	27214	
130	16	"	2.7	.8	.69	1.02	.55	.6	6	1/6	"	
131	17	C. L. Brewster	1.0	2.0	1.35	.98	.27	.6	2	1/6	27166 ⁸	
132	24	"	1.0	2.0	1.30	.98	.26	.6	2	1/6	"	
133	27	"	1.0	.19	1.74	1.01	.33	.6	2	"	"	
134	31	"	1.0	.11	1.45	.78	.16	.6	2	"	"	
135	2/7	"	1.0	.15	1.0		.15	.6	2	"	"	
136	3/5	F. C. Ebert	6.4	2.8	.71	1.12	2.0	.6	9	9 1/4	27214	
137	15	Brewster-Lindsay	4.0	2.5	.48	1.12	1.2	.6	4	0 1/6	271 ⁶⁶⁶	
138	16	F. C. Ebert	3.9	2.0	.95	1.12	1.9	.6	8	"	27214	
139	21	Brewster-Pollard	2.0	.90	.60	1.05	.55	.6	4	1/10	271 ⁶⁶⁶	
140	21	H. J. Tompkins	2.	.9	.72	1.08	.65	.6	2	1/12	953 ²⁷¹	
141	28	C. L. Brewster	2.	.8	.51	1.04	.42	.6	4	1/10	666 ²⁷¹	
142	4/4	"	1.	.14	.71		.10	.6	2	1/10	"	
143	11	"	1.	.14	.64		.09	.6	2	1/6	"	
144	18	"	1.	.14	.50		.07	.6	2	1/10	"	
145	25	"	1.	.12	.42		.05	.6	2	1/6	"	
*	28	"	2.5	.93	1.09		1.01	.6	5	"	"	
146	5/2	"	1.2	.25	1.04	.98	.26	.6	2	"	"	
147	3	F. C. Ebert	2.1	.75	.73	1.06	.55	.6	5		27214	
148	3	Brewster-Lindsay	2.	.98	.95	1.08	.95	.6	4	1/5	271 ⁶⁶⁶	
149	4	"	3.0	1.71	1.29	1.14	2.2	.6	3	1/6	"	
150	5	F. C. Ebert	3.2	1.6	.59	1.09	.95	.6	8	1/6	27214	
151	8	H. J. Tompkins	1.3	.46	1.31	1.06	.6	.6	2	1/4	953	
152	9	Brewster	3.0	1.41	.30	1.04	.43	.6	3	1/10	271 ⁶⁶⁶	
153	16	"	1.0	.20	1.05	1.02	.21	.6	2	1/6	"	
154	23	"	1.0	.20	.70	.98	.14	.6	2	1/4	"	
155	29	"	1.0	.20	.80		.16	.6	2	1/6	"	

* 1 s.f. from dam

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

419

Discharge measurements at

DALTON
U.S.G.S. Station

Sheet

Glendora, Calif.
near

During the year ending September 30, 1930

sheet 2 of 2 sheets

No.	Date	Name	Width Feet	Depth Feet	Mean Velocity Feet per Sec.	Discharge Cubic Feet per Sec.	Stage Feet above M.S.L.	Area of Channel Square Feet	No.	Date	Name	Width Feet	Depth Feet	Mean Velocity Feet per Sec.	Discharge Cubic Feet per Sec.	Stage Feet above M.S.L.	Area of Channel Square Feet	No.	Date	Name	Width Feet	Depth Feet	Mean Velocity Feet per Sec.	Discharge Cubic Feet per Sec.	Stage Feet above M.S.L.	Area of Channel Square Feet
156	6/6	C. L. Brewster	1.0	.15	.80	0.12	.6	2	1/6	666	271															
157	16	"	1.0	.21	1.29	.27	.6	2	"	"	"															
158	20	"	1.0	.24	1.08	.26	.6	2	"	"	"															
159	27	"	1.0	.14	.93	.13	.6	2	1/5	"	"															
160	7/3	"	1.0	.14	.36	.12	.6	2	1/10	"	"															
161	11	"	1.0	.12	.67	.08	.6	2	1/5	"	"															
162	18	"	.5	.07	.57	.04	.6	1	1/10	"	"															
163	25	"	.3	.11	.36	.04	.6	1	"	"	"															
	8/1	"			dry																					

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of

Dalton Creek
U.S.C.S. Station

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U9

Near Glendora, Calif.

for the Year Ending September 30, 1930

Drainage Area 6.53 Square Miles.

[Observer.]

Gage Read to continuous ~~100~~ Day.

Used rating table dated.....

second-foot. second-foot.	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY	Quarter	Fourth	Third	Second	First	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		0		.3	.4		.1		.1						1					1		
									.1		0		.2	.3		.1		.1						2					2		
									.1		0		.2	.7		.1		.1						3					3		
									.1		.1		.1	1.3		.1		.1						4					4		
									.1		.2		.1	1.1		.1		.1						5					5		
									.1		.1		.1	.7		.1		.1						6					6		
									.1		.1		.1	.5		.1		.1						7					7		
							DRY		.1		.1		.1	.7		.1		.1						8					8		
									.1		.1		.1	.5		.1		.1						9					9		
									.1		.1		.1	.5		.1		.1						10					10		
									0		.1		.1	.4		.1		.1						11					11		
									0		.1		.1	.4		.2		.1						12					12		
			DRY		DRY		DRY		0		.2		.1	.3		.1		.1				DRY		13					13		
								0	0		.3		.1	.3		.4		.1						14					14		
								.6	0		1.3		.1	.2		.2		.1						15					15		
								.5	0		.2		.1	.2		.1		.1						16					16		
								.3	0		1.1		.1	.2		.2		.2		0				17					17		
								.2	0		.8		.1	.2		.1		.1		0				18					18		
								.1	0		.7		.1	.2		.1		.1		0				19					19		
								.1	0		.7		.1	.2		.2		.2		0				20					20		
								.1	0		.7		.1	.2		.1		.1		0				21					21		
								.2	0		.7		.1	.1		.1		.1		0				22					22		
								.2	0		.6		.1	.1		.1		.1		0				23					23		
								.2	0		.4		.1	.1		.1		.1		0				24					24		
								.2	0		.4		.1	.1		.1		.1		0				25					25		
								.2	0		.4		.1	.1		.1		.1		0				26					26		
								.3	0		.3		.1	.1		.1		.1		0				27					27		
								.3	0		.4		.1	.1		.1		.1		0				28					28		
								.2			.4		.4	.2		.1		.1		0				29					29		
								.2			.4		.6	.2		.1		.1		0				30					30		
								.2			.4		.2	.2		.1		.1		0				31					31		
TOTAL,								4.0		1.0		13.7		4.2		10.8		3.7		1.6											
Mean Daily Discharge in Second-foot								.13		.04		.44		.14		.35		.12		.05											
Second-foot per square mile																															
Run-off, depth in inches																															
Run-off in acre-feet								8.0		2.2		27.0		8.3		21.5		7.1		3.1		0		0		77.2					
Maximum Mean Daily Discharge in Second-foot								.6		.1		2.0		.6		1.3		.4		.1											
Minimum Mean Daily Discharge in Second-foot								0		0		0		.1		.1		.1		0											

Computed
Checked
Date
Disch. applied
Disch. checked
G. H. Copied
G. H. checked

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No.

U9

Monthly discharge of

Dalton
 U.S.G.S. Station

~~River~~
 Creek

at
 near

Clondora

for the year ending Sept. 30, 19

30

(Drainage area 6.53 square miles)

MONTH	DISCHARGE IN SECONDS PER				RECORD		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October						0	
November						0	
December						0	
January	.20	0	.13			8.0	
February	.10	0	.04			2.2	
March	2.00	0	.44			27.0	
April	.60	.10	.14			8.3	
May	1.30	.10	.35			21.5	
June	.40	.10	.12			7.1	
July	.10	0	.05			3.1	
August						0	
September						0	
The year period						77.2	

NOTE:

BIG TUJUNGA CREEK U. S. G. S. STATION

NEAR SUNLAND, CALIF.

LOCATION Near center of sec. 32, T. 3 N., R. 13 W., (unsurveyed) at a partly constructed and abandoned dam, 2 miles above mouth of canyon, and 4 miles northeast of Sunland and 7 miles below Flood Control Dam Tujunga No. 1

DRAINAGE AREA 106 square miles

RECORDS AVAILABLE October 1916 to Sept. 30, 1930.

GAGE Water stage recorder on right bank above dam

DISCHARGE MEASUREMENTS Made from cable about 1000' below gage or by wading

CONTROL AND CHANNEL 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 c.f.s.
Maximum 1929-1930 260/5/3/30
Minimum 1929-1930 0.1 c.f.s. various times of year

DIVERSIONS Several ranches divert part of the low flow for irrigation above the station.

REGULATION None

ACCURACY Fair

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

386

Discharge measurements of

TUJUNGA

Crack

--- Sunland, Calif.
Sheet 1 of 2 sheets

Yearly discharge (Oct. September 30, 1930)

No.	Date	Name	Area	Area	Area	Area	Area	Area	Area	Area	Area
475	11/15	Bollinger-Luce	2.3	.32	.33	-	.11	.6	4	1/4	271 650
476	29	J. W. Luce	2.5	.45	.38		.2	.6	5	"	FC24
477	1/7	"	13.	4.7	.7	.76	3.3	.6	13	"	"
478	7	"	13.	4.5	.75	.76	3.4	.6	11	"	"
479	8	H. J. Tompkins	4.4	1.3	1.06	.62	1.9	.6	4	1/6	953
480	10	"	9.	4.4	1.45	.86	6.4	.6	8	1/4	"
481	11	"	20.	9.	1.56	1.01	14.	.6	11	"	"
482	11	Luce-Waddicor	16.3	7.7	1.76	.99	14.	.6	10	1/3	FC24
484	13	H. J. Tompkins	13.	5.3	1.62	.92	8.6	.6	8	1/4	953
485	15	"	23.	13.	2.39	1.22	31.	.6	8	"	"
486	16	"	13.7	8.7	2.18	1.06	19.	.6	8	+01	"
487	17	J. W. Luce	20.	6.7	1.45	.96	9.7	.6	11	1/3	FC24
488	20	H. J. Tompkins	10.	4.4	1.66	.84	7.3	.6	10	1/3	953
489	25	"	13.	4.1	1.04	.78	4.2	.6	9	"	FC24
490	27	H. J. Tompkins	10.	4.4	1.71	.90	7.5	.6	9	1/4	953
491	27	Luce-Waddicor	13.5	5.1	1.13	.88	5.8	.6	9	1/6	FC24
492	2/1	H. J. Tompkins	10.	3.3	1.28	.74	4.2	.6	9	1/3	953
493	4	"	10.	3.4	1.21	.74	4.1	.6	10	1/4	"
494	7	J. W. Luce	13.	3.8	.85	.73	3.3	.6	8	"	FC24
495	10	H. J. Tompkins	10	3.4	1.12	.72	3.8	.6	10	1/4	953
496	14	J. W. Luce	7.2	2.9	1.14	.73	3.3	.6	7	1/4	FC24
497	17	H. J. Tompkins	10.	3.8	1.11	.74	4.2	.6	9	"	953
498	24	"	10.	4.1	1.34	.84	5.5	.6	10	1/6	"
499	3/3	"	10.	4.	1.10	.76	4.4	.6	10	1/4	"
500	5	"	15.	7.2	1.95	.96	14.	.6	8	1/4	"
501	10	"	9.5	3.9	1.38	.78	5.4	.6	6	1/6	"
502	15	"	28.	27.	4.05	1.75	109.	.6	7	-02	1/3
	5/4	J. W. Luce	24.	24.2	2.45	1.50	58.8	.6	14	1/4	FC24

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 386

Discharge measurements of

Tujunga

1930
Creek

U.S.G.S. Station

at
near Sunland, Calif.
sheet 2 of 2 sheets

during the year ending September 30, 1930

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Method	Coeff.	Meas. sec.	G. H.	Time	Meter No.
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec. ft.				Percent dist.		
503	3/20	H. J. Tompkins	22.0	16.0	3.20	1.34	51.0	.6		11	0	1/3	953
504	24	"	24.0	17.0	3.53	1.44	60.0	.6		12	0	"	"
505	28	"	16.0	13.0	1.77	1.10	25.0	.6		9	0	"	"
506	4/1	"	17.0	12.0	1.58	1.00	19.0	.6		8	0	"	"
507	4	"	14.0	9.5	1.16	.94	11.0	.6		10	0	"	"
508	7	"	15.0	8.7	1.11	.86	9.7	.6		9	0	1/4	"
509	12	"	12.0	7.4	1.05	.84	7.8	.6		12	0	"	"
510	17	"	11.0	7.1	.93	.80	6.6	.6		8	0	"	"
511	21	"	12.0	6.4	.80	.76	5.1	.6		6	0	-	"
512	26	"	12.0	6.6	.74	.74	4.9	.6		6	-	1/4	"
513	5/1	"	10.5	6.6	1.97	.92	13.0	.6		7	0	"	"
514	4	"	23.7	18.0	3.40	1.50	61.0	.6		10	0	1/2	"
515	5	"	13.4	15.0	2.73	1.29	41.0	.6		12	0	1/3	"
516	12	"	16.0	9.1	1.54	.94	14.0	.6		11	0	1/6	"
517	15	"	16.0	8.0	1.38	.90	11.0	.6		8	0	-	"
518	19	"	15.0	7.0	1.30	.84	9.1	.6		8	.0	11/3	"
519	25	"	15.0	5.8	1.16	.77	6.7	.6		12	0	1/4	"
520	27	"	7.8	3.2	1.44	.71	4.6	.6		8	0	"	"
521	6/3	"	8.0	3.4	1.50	.74	5.1	.6		8	0	1/3	"
522	9	"	4.5	1.9	1.26	.60	2.4	.6		5	0	1/6	"
523	17	"	4.3	1.4	1.29	.64	1.8	.6		5	0	"	"
524	23	"	4.1	1.3	1.00	.58	1.3	.6		5	-	"	"
525	30	"	3.8	.9	.61	.50	.55	.6		4	0	1/4	"
526	7/8	"	4.0	.9	.56	.46	.5	.6		-	-	1/6	"
527	14	"	4.0	.8	.51	.44	.41	.6		4	0	"	"
528	25	"	1.5	.37	.60	.44	.22	.6		2	0	-	"
529	31	"	2.0	.4	.80	.42	.32	.6		2	0	1/12	"
530	8/11	"	1.2	.18	.72	.40	.13	.6		2	0	1/6	"

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of Tujunga Creek U.S.G.S. Station near Dunland, Calif. for the Year Ending September 30, 1930

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

Drainage Area 106 Square Miles. Gage Read to continuous Used rating table dated

Main data table with columns for months (OCTOBER to SEPTEMBER), days (1-31), gage height, and discharge. Includes vertical text on the left: 'Mean feet at daily on March 15, 1930 Discharge 128' and 'Maximum stage Minimum stage mean daily .1/ft at various times of year'.

Summary table with rows for 'TOTAL', 'Mean Daily Discharge in Second-foot', 'Second-foot per square mile', 'Run-off, depth in inches', 'Run-off in acre-feet', 'Maximum Mean Daily Discharge in Second-foot', and 'Minimum Mean Daily Discharge in Second-foot'.

Vertical text on the right side: 'Computed', 'Checked', 'Date', 'Disch. applied', 'Disch. checked', 'G. H. Copied', 'G. H. checked', 'PERIOD YEAR'.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U11

Monthly discharge of **Tujunga**
U.S.G.S. Station

~~River~~
Creek

~~at~~
near **Sunland**

for the year ending Sept. 30, 19 **30**

(Drainage area **106.** Square miles)

MONTH	DISCHARGE IN SECONDS-FEET			RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area Total in acre feet	
October	.10	.10	.10		6.10	
November	.20	.10	.13		7.70	
December	.20	.10	.14		8.60	
January	34.0	.20	6.55		403.0	
February	5.0	3.40	3.98		281.0	
March	63.0	4.30	32.2		1980.0	
April	19.0	5.00	8.36		497.0	
May	58.0	6.50	16.70		1030.0	
June	5.50	.60	2.47		147.0	
July	.70	.20	.43		26.40	
August	.30	.20	.22		13.50	
September	.40	.20	.24		14.30	
Total					4350.0	

NOTE:

EATON CREEK U. S. G. S. STATION

NEAR PASADENA, CALIF.

LOCATION Near line between secs. 8 and 11, T. 1 N., R. 12 W., at mouth of canyon just above Mount Wilson Toll Bridge, and 4 miles northwest of Pasadena.

DRAINAGE AREA 6.5 square miles.

RECORD AVAILABLE March 1, 1918 to Sept. 30, 1930 at U.S.G.S. office

GAGE Water stage recorder on left bank just above toll bridge

DISCHARGE MEASUREMENTS Made by wading near gage

EXTREMES OF DISCHARGE Maximum 1929-1930 81.0 c.f.s. 5/5/30
Minimum 1929-1930. Dry at various times of year

DIVERSIONS City of Pasadena diverts water above the station.

REGULATION None

ACCURACY Good

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

U2

Discharge measurements of

Eaton
U.S.G.S. Station

Total
Creek

near Pasadena, Calif.

during the year ending September 30, 1930

Date	Name	Flow	Area	Mean	Peak	Volume	Duration	Rate	Time	Remarks
1930										
1/15	R. Dalton	15	5.94	3.9	1.98	23.1		.6	16	0 1/4 FC25
1/15	"	14.5	5.57	4.19	1.95	23.3		.6	9	1/6 FC24
17	"	3.2	3.19	1.7	-	5.33		.6	7	" FC25
31	"	1.5	.40	.65		.26		.6	4	1/12 "
2/7	"	2.0	.44	.45		.20		.6	5	1/12 "
2/14	"	0.5	.07	.57		.04		.6	1	- "
3/15	"	7.0	3.94	3.34	1.74	13.13		.6	7	1/6 "
3/16	"	3.0	.66	1.05		.69		.6	6	- "
3/16	H. J. Tompkins	9.0	4.6	2.61	1.66	12.0		.6	9	1/4 953
3/21	"	5.	1.9	1.48	1.26	2.8		.6	5	1/6 "
3/21	R. Lindsay	5.5	1.6	1.38	1.21	2.2		.6	5	1/6 ²⁸² 883
3/21	"	6.0	3.8	7.84	-	10.8		.6	4	1/12 "
3/28	R. Dalton	4.0	1.95	.95	-	1.86		.6	4	- "
4/4	R. Lindsay	3.1	1.04	.54	-	.56		.6	4	1/6 ²⁸² 883
4/11	"	3.0	.34	.76	-	.26		.6	6	1/6 "
4/18	"	1.3	.27	.89	-	.24		.6	3	1/12 "
4/25	"		est.			.22				
5/2	"	6.0	2.34	2.23	1.42	5.2		.6	6	1/6 "
5/2	H. J. Tompkins	3.0	1.7	1.12	1.26	1.9		.6	3	" 953
5/4	"	7.0	3.7	2.97	1.70	11.0		.6	8	" "
5/7	"	2.0	.8	1.38	1.28	1.1		.6	2	" "
5/9	R. Lindsay	3.2	2.6	2.04	5.1	5.3		.6	4	" ²⁸² 883
5/16	"	3.0	.68	2.72	-	1.85		.6	3	" "
5/23	"	2.5	.35	1.43	-	.50		.6	4	" "
5/29	"	2.5	.40	1.2	-	.48		.6	5	" "
6/6	"	1.5	.24	1.08	-	.26		.6	3	" "
6/13	"	.19	.27	.78	-	.21		.6	4	" "
6/20	"	2.0	.24	.79	-	.19		.6	4	" "

200

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

file No. U2

Discharge measurements of

Eaton
U.S.G.S. Station

Week

Pasadena, Calif.
near

during the year ending September 30, 1930

Date	Name	Width Feet	Area of section Sq. Ft.	Mean velocity Feet per second	Gage height Feet	Discharge Sec. ft.	Method used	Class.	Total	
									No.	Inches
6/27	Lindsay	1.8	.19	.74	-	.14	.6	4	1/12	282 883
7/3	"		est.			.14				
7/11	"		"			.02				
7/18	"		dry							
8/15	"		"							
8/22	"		"							
9/5	"		"							

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of Anton Creek
U.S.G.S. Station
 At near Pasadena, Calif. for the Year Ending September 30, 1930

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. U2

Drainage Area 6.5 Square Miles. [Observer.] Gage Read to continuous Used rating table dated

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY	Quarter	First	Second	Third	Fourth	Date
	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																.8								1							
2																2.5								2							
3																11.								3							
4																12.								4							
5																6.								5							
6																2.4								6							
7																1.3								7							
8																1.3								8							
9																.2								9							
10																								10							
11																								11							
12																								12							
13		DRY		DRY		DRY		DRY		DRY		DRY												13							
14																								14							
15								9.				18.		DRY		DRY		DRY		DRY		DRY		15							
16								2.2				14												16							
17												9.5												17							
18												8.												18							
19												11.8												19							
20												3.1												20							
21												2.7												21							
22												2.9												22							
23												1.2												23							
24								DRY																24							
25																								25							
26																								26							
27																								27							
28												DRY												28							
29																								29							
30																								30							
31																								31							
TOTAL,							11.2	64.2							37.5																
Mean Daily Discharge in Second-foot							.36	2.07							1.21																
Second-foot per square mile																															
Run-off, depth in inches																															
Run-off in acre-feet							0	0							0	0															
Maximum Mean Daily Discharge in Second-foot								22.1							0	0															
Minimum Mean Daily Discharge in Second-foot								0							0	0															

Computed
 Checked
 Date
 Disch. applied
 Disch. checked
 Date
 G. H. Copied
 G. H. checked
 Date
 PERIOD
 YEAR

224

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **U2**

Monthly discharge of **Eaton** **River**
U. S. G. P. Station **Creek**

at **Pasadena** **for the year ending Sept. 30, 1930**
near

(Drainage area **6.5** 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						0	
November						0	
December						0	
January	9.0	0	.36			22.10	
February						0	
March	18.0	0	2.07			127.0	
April						0	
May	11.0	0	1.21			74.4	
June						0	
July						0	
August						0	
September						0	
Total						224.0	

NOTE:

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 378

Discharge measurements of **FISH**
U.S.G.S. Station

Creek

near **Duarte, Calif.**

during the year ending September 30, 1930

Sheet 1 of 4 sheets

No.	Date	Made by	Width feet	Area of section Sq. ft.	Mean velocity ft./sec.	Area feet	Discharge cfs.	Rating Percent dis.	Metrica Cont.	No. of Sigs	G. H. or Other Time	Notes
424	10/2	H. J. Tompkins	.4	.12	.75	2.03	.09		.6	2	1/6	885
425	4	R. Dalton	.4	.12	.75	2.00	.09		.6	1	1/12	271 647
426	9	H. J. Tompkins				2.00	.10		Vol.			
427	16	"				2.06	.14		"			
428	18	R. Dalton	.7	.21	.76	2.06	.16		.6	1	-	"
429	23	H. J. Tompkins				1.98	.07		Vol.			
430	25	R. Dalton	.5	.07	.50	1.99	.04		.6	1	-	"
431	30	H. J. Tompkins				2.02	.12		.6			
432	11/1	R. Dalton	.5	.11	.91	2.03	.10		.6	1	-	"
433	6	H. J. Tompkins				2.06	.2		.6			
434	8	R. Dalton	.5	.12	.92	2.06	.11		.6	1	1/12	"
435	13	H. J. Tompkins				2.05	.15		.6			
436	15	R. Dalton	.6	.15	.81	2.08	.13		.6	1	-	"
437	20	H. J. Tompkins				2.08	.16		.6			
438	22	R. Dalton	.6	.15	.75	2.06	.12		.6	1	1/12	"
439	29	R. Dalton	.6	.17	1.0	2.07	.16		.6	1	"	"
440	12/2	H. J. Tompkins	.6	.18	1.33	2.12	.24		.6	2	1/6	953
441	6	R. Dalton	.6	.18	1.0	2.10	.18		.6	1	-	FO25
442	11	H. J. Tompkins	.6	.18	1.39	2.16	.25		.6	2		953
443	13	R. Dalton	1.0	.35	1.0	2.16	.34		.6	1	-	FO25
444	18	H. J. Tompkins	.9	.23	.91	2.16	.21		.6	3	1/6	953
445	20	R. Dalton	.8	.24	1.0	2.22	.22		.6	1	-	FO25
446	27	"	1.0	.50	.5	2.22	.24		.6	3	-	"
447	1/3	"	1.0	.27	.93	2.23	.25		.6	3	1/12	"
448	6	H. J. Tompkins	1.	.34	1.66	2.18	.48		.6	3	1/6	953
449	8	"	1.	.5	1.20	2.18	.6		.6	2	"	"
450	10	R. Dalton	3.3	1.5	1.0	2.34	1.7		.6	8	"	FO25
451	14	H. J. Tompkins	4.2	2.6	1.97	2.78	5.1		.6	6	1/8	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

378

Discharge measurements of FISH
U.S.G.S. Station

Duarte, Calif.

Discharge measurements of FISH U.S.G.S. Station 19 30

Sheet 2 of 4 sheets

452	1/16	F. C. Ebert	11.8	6.3	1.74	2.99	11.	.6	12	1/4	27214
453	17	H. J. Tompkins	7.5	3.9	1.92	2.84	7.5	.6	8	1/4	953
454	21	"	4.	2.2	1.23	2.46	2.7	.6	7	"	"
455	24	R. Dalton	4.2	1.8	.92	2.36	1.6	.6	5	1/12	FC25
456	28	H. J. Tompkins	3.	.95	1.47	2.34	1.4	.6	5	1/4	953
457	31	R. Dalton	3.1	1.64	.75	2.28	1.2	.6	5	1/12	FC25
458	2/5	H. J. Tompkins	2.3	.65	1.15	2.26	.75	.6	5	1/6	953
459	7	R. Dalton	3.	1.5	.60	2.24	.9	.6	5	1/12	FC25
460	11	H. J. Tompkins	2.5	.65	1.08	2.22	.7	.6	5	1/12	953
461	14	R. Dalton	2.8	1.4	.50	2.21	.7	.6	6	1/12	FC25
462	20	H. J. Tompkins	2.3	.6	1.08	2.22	.65	.6	4	1/6	953
463	21	R. Dalton	2.9	1.5	.50	2.21	.8	.6	6	1/6	FC25
464	25	H. J. Tompkins	2.4	.65	1.08	2.24	.7	.6	5	1/6	953
465	3/1	R. Dalton	2.3	1.34	.50	2.22	.8	.6	5	1/6	FC25
466	4	H. J. Tompkins	2.5	.65	1.08	2.20	.7	.6	5	"	953
467	5	R. Dalton	5.	2.8	2.06	2.63	4.9	.6	8	"	FC25
468	6	H. J. Tompkins	3.6	2.3	1.22		2.8	.6	6	1/3	983
469	7	R. Dalton	3.3	2.1	.89	2.42	1.9	.6	5	1/6	FC25
470	12	H. J. Tompkins	3.4	.85	1.18	2.28	1.0	.6	6	1/6	983
471	14	R. Dalton	4.5	1.16	1.58	2.38	1.8	.6	6	1/12	FC25
472	15	F. C. Ebert	17	13	3.00	3.47	39	.6	6	1/4	27214
473	17	F. C. Ebert	12	8	2.38	3.17	19	.6	12	1/3	"
474	21	R. Lindsay	7.2	5.0	2.0	2.84	8	.6	7	1/6	883 282
475	27	H. J. Tompkins	36	2.3	1.31	2.54	3	.6	6	1/6	953
476	28	R. Dalton	4	1.65	2.0	2.52	3.4	.6	7	"	FC1
477	4/3	H. J. Tompkins	3.6	2.1	1.00	2.42	2.1	.6	6	1/4	953
478	4	R. Lindsay	4.5	2.0	1.4	2.42	2.8	.6	5	1/6	883 282
479	8	H. J. Tompkins	3.	1.5	1.07	2.34	1.6	.6	6	"	953

18274

378

FILE NO.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Discharge measurements at

FISH
U.S.C.S. Station

THREE
Creek

near

Duarte, Calif.

during the year ending September 30, 1930

Sheet 3 of 4 sheets

No.	Date	Name	Width Feet	Depth Feet	Mean Velocity Feet/Sec	Discharge		Velocity Feet/Sec	Area Sq. Ft.	Volume Cu. Ft.	Time Hours	Total Volume Cu. Ft.
						Cu. Ft.	Cu. Ft.					
480	4/11	R. Lindsay	3.0	1.5	1.07	2.34	1.6	.6	6	1/6	282	883
481	16	H. J. Tompkins	3.	.7	1.36	2.30	.95	.6	5	"	953	282
482	18	R. Lindsay	3.	1.4	.93	2.29	1.3	.6	6	1/10	282	883
483	22	H. J. Tompkins	2.8	.7	1.14	2.26	.8	.6	5	1/6	883	282
484	25	R. Lindsay	3.0	1.4	.79	2.26	1.1	.6	6	1/6	883	282
485	5/2	R. Lindsay	3.2	1.6	1.07	2.40	1.8	.6	6	1/6	"	282
486	5	F. C. Ebert	9.	5.3	1.60	2.88	8.5	.6	12	1/4	27214	282
487	9	R. Lindsay	5.	2.75	1.45	2.56	4.0	.6	6	1/6	883	282
488	9	H.J. Tompkins	4.4	2.3	1.52	2.54	3.5	.6	6	1/4	953	282
489	16	H. J. Tompkins	4.2	2.2	1.36	2.49	3.0	.6	8	1/4	"	282
490	16	R. Lindsay	5.	2.3	1.17	2.48	2.7	.6	5	1/6	883	282
491	21	H. J. Tompkins	4.3	1.9	.95	2.36	1.8	.6	8	"	953	282
492	23	R. Lindsay	3.	1.5	1.34	2.34	2.0	.6	5	"	883	282
493	28	H. J. Tompkins	4.	1.7	.94	2.31	1.6	.6	6	"	953	282
494	29	R. Lindsay	3.	1.4	1.0	2.31	1.4	.6	5	1/10	883	282
495	6/5	H. J. Tompkins	3.6	1.6	.75	2.28	1.2	.6	5	1/6	953	282
496	6	R. Lindsay	3.	1.35	.83	2.26	1.1	.6	6	1/6	883	282
497	11	H. J. Tompkins	3.8	1.4	.64	2.22	.9	.6	6	1/4	953	282
498	13	R. Lindsay	.3	.73	1.07	2.22	.8	.6	7	1/6	"	282
499	19	H. J. Tompkins	3.2	.90	.88	1.90	.8	.6	7	"	953	282
500	20	R. Lindsay	3.1	.73	.95	1.90	.7	.6	6	"	883	282
501	25	H. J. Tompkins	3.2	.85	.94	1.86	.8	.6	5	"	953	282
502	27	R. Lindsay	2.8	.68	.81	1.84	.55	.6	6	"	883	282
508	7/2	H. J. Tompkins	2.7	.5	.64	1.78	.32	.6	4	"	953	282
504	4	R. Lindsay	2.7	.56	.64	1.76	.36	.6	6	"	883	282
505	9	H.J. Tompkins	2.7	.5	.50	1.77	.25	.6	3	"	953	282
506	11	R. Lindsay	2.3	.36	.72	1.74	.26	.6	4	"	883	282
507	15	H. J. Tompkins	1.1	.16	.38	1.70	.06	.6	2	1/10	953	282

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Sheet No. 378

Hydrographic Measurements of

FISH - U.S.G.S. Station -

378
- 1930

→ Duarte, Calif.
near
Sheet 4 of 4 sheets

during the year ending September 30, 1930

No.	Date	Name	Width feet	Area of width sq. ft.	Mean depth ft.	Area sq. ft.	Volume cu. ft.	Depth ft.	Area sq. ft.	Volume cu. ft.	Notes
508	7/18	R. Lindsay	1.0	.10	.60	1.69	.06	.6	2	1/12	282
509	22	H. J. Tompkins	1.	.16	.69	1.73	.11	.6	2		283
510	25	R. Lindsay	1.0	.14	.64	1.70	.09	.6	2	1/12	283
511	29	H.J. Tompkins	.4	.1	.30	1.66	.03	.6	2	1/12	283
511a	8/1	R. Lindsay	.65	.05	.48	1.66	.02	.6	1	1/12	283
512	8/5	H. J. Tompkins				1.66	.03	Vol.			
513	12	"				1.70	.11	"			
514	15	R. Lindsay	.5	.08	.70	1.70	.06	.6	1	1/12	"
515	18	H. J. Tompkins				1.70	.10	Vol.			
516	26	"				1.66	.009				
517	9/8	"				1.68	.03				
518	15	"				1.70	.03	Vol.			
519	25	"				1.80	.22	"			

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of **Fish Creek**
U.S.G.S. Station
 near **Duarte, Calif.** for the Year Ending September 30, 19 **30**

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. **U7**

Drainage Area **6.5** Square Miles. [Observer.]

Gage Read to **continuous**

Used rating table dated.....

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		.1		.2		.2		1.3		.8		1	2.9		2.0		1.4		.4		0		0		1
2	.1		.2		.2		.2		1.2		.8		2	2.6		2.0		1.4		.4		0		0		2
3	.1		.2		.2		.2		1.1		.8		3	2.5		5.5		1.4		.3		0		0		3
4	.1		.2		.2		.2		.9		2.4		4	2.3		11.		1.3		.3		0		0		4
5	.1		.2		.2		.4		.9		6.		5	2.2		9.		1.2		.3		0		0		5
6	.1		.2		.2		.6		.8		2.9		6	1.9		6.		1.1		.3		0		0		6
7	.1		.2		.2		1.8		.8		1.8		7	1.7		5.		1.0		.3		0		0		7
8	.1		.2		.2		.6		.8		1.8		8	1.6		4.1		.9		.3		0		0		8
9	.1		.2		.2		1.4		.8		1.		9	1.6		3.7		.8		.3		0		0		9
10	.1		.2		.2		2.3		.7		1.3		10	1.6		3.4		.8		.3		.1		0		10
11	.1		.2		.3		4.2		.7		1.1		11	1.6		2.9		.8		.3		.1		0		11
12	.1		.2		.3		3.5		.7		1.1		12	1.5		2.5		.8		.2		.1		0		12
13	.1		.2		.3		2.1		.7		1.7		13	1.4		2.4		.8		.1		.1		0		13
14	.1		.2		.3		3.8		.6		4.7		14	1.4		2.2		.9		.1		.1		0		14
15	.1		.2		.3		4.8		.6		3.9		15	1.3		2.1		.8		.1		.1		0		15
16	.1		.2		.3		11.		.7		3.7		16	1.1		2.5		.8		.1		.1		0		16
17	.2		.2		.2		7.		.7		2.9		17	1.1		2.5		.8		.1		.1		0		17
18	.2		.2		.2		6.		.8		1.9		18	1.1		2.4		.8		.1		.1		0		18
19	.1		.2		.2		4.6		.8		1.4		19	1.1		2.1		.8		.1		.1		0		19
20	.1		.2		.2		3.5		.8		1.1		20	1.1		1.9		.8		.1		.1		.1		20
21	.1		.1		.2		2.9		.7		2.5		21	1.0		1.9		.8		.1		0		.1		21
22	.1		.1		.2		2.3		.9		7.7		22	.9		1.8		.8		.1		0		.1		22
23	.1		.1		.2		1.9		1.3		6.		23	.9		1.8		.8		.1		0		.1		23
24	.1		.1		.2		1.6		.8		1.		24	.9		1.8		.7		.1		0		.1		24
25	.1		.1		.2		1.4		.7		4.4		25	.9		1.7		.7		.1		0		.2		25
26	.1		.1		.2		1.4		.7		4.0		26	.9		1.6		.7		.1		0		.2		26
27	.1		.1		.2		1.8		.6		3.9		27	.9		1.5		.6		0		0		.2		27
28	.1		.2		.2		1.5		.7		3.1		28	.9		1.5		.5		0		0		.2		28
29	.1		.2		.2		1.4				3.0		29	1.0		1.5		.5		0		0		.2		29
30	.1		.2		.2		1.3				3.0		30	2.1		1.5		.5		0		0		.2		30
31	.1		.2		.2		1.2				3.2		31			1.5				0		0				31

TOTAL,	3.3	5.2	6.8	114.3	22.8	217.1	4.4	93.3	26.0	4.1	1.1	1.7	
Mean Daily Discharge in Second-foot	.11	.17	.22	36.9	.81	7.00	1.7	3.01	.87	.16	.04	.06	
Second-foot per square mile													
Run-off, depth in inches													
Run-off in acre-foot	6.8	10.1	13.5	227	45.0	440	87.5	185	51.8	9.8	2.5	3.6	1070
Maximum Mean Daily Discharge in Second-foot	.1	.2	.2	42.	1.3	39.0	2.9	11.0	1.4	.4	.1		
Minimum Mean Daily Discharge in Second-foot	.1	.1	.2	.2	.6	.8	.9	1.5	.5	0	0		

Computed
 Checked
 Date
 Disch. applied
 Disch. checked
 Date
 G. H. Copiel
 G. H. checked
 Date
 PERIOD
 YEAR

Maximum stage
 Minimum stage
 Mean
 Dry at various times of year

Discharge
 42.

feet at daily
 on Jan. 15, 1930

second-foot.

Discharge

feet at
 on

second-foot.

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **U7**

Monthly discharge of

**Fish -
U.S.G.S. Station**

**River
Creek**

at
near

Duarte, Cal.

for the year ending Sept. 30, 19 **30**

(Drainage area **6.5** square miles)

MONTH	DISCHARGE IN SECONDS FEET			REMARKS		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area Total in acre feet	
October	.20	.10	.11		6.80	
November	.20	.10	.17		10.10	
December	.30	.20	.22		13.50	
January	42.00	.20	3.69		227.0	
February	1.30	.70	.81		45.0	
March	39.0	.80	7.00		430.0	
April	2.90	.90	1.47		87.50	
May	11.00	1.50	3.01		185.00	
June	1.40	.50	.87		51.80	
July	.40	.10	.16		9.80	
August	.10	0	.04		2.50	
September	.20	0	.06		3.60	
The year period					1070.0	

NOTE:

HAINES CREEK U. S. G. S. STATION NEAR TUJUNGA

Location In N.E. $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T. 2 N., R. 13 W., 800' above mouth of canyon and $1\frac{1}{2}$ miles north east of Tujunga.

Drainage Area 1.2 square miles.

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

Records Available Feb. 1917 to Sept. 30, 1930 at U.S.G.S. Branch

Gage Water Stage Recorder

Discharge Measurements Low Water measurements made by wading at the station. High water measurements made from bridge at the station.

Channel and Control Concrete control at station.

Extremes of Measurements Maximum 1929-1930. Not determined Minimum 1929-1930 "

Diversions 1928. A tunnel driven into stream bed 1 mile above station diverts into a 4 inch pipe past gage for domestic supply of Tujunga. Similar tunnel short distance below station diverts small supply for part of year.

Regulation Several small check dams have been built across stream in upper part of drainage basin.

Accuracy Fair

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

JUL 1930

No. Name and address of

Heines

River
Creek

Tujunga, Calif.

during the year ending Sept. 30, 1930

No.	Date	Name	Rate	Volume	Unit	Remarks
1	Oct. 7	H. J. Tompkins	.26	.001	Standard	Container 5 gal.
2	26	"	.34	.001	"	"
3	Nov. 5	"	.26	.001	Est.	"
4	Dec. 19	"	.26	.001	Standard	Container 5 gal.
5	Jan. 20	"	.28	.003	"	"
6	Feb. 1	"	.28	.003	"	"
7	Mar. 20	"	.28	.73	Gal. per	min.
8	31	"	.26	.53	"	"
9	Apr. 4	"	.26	.62	"	"
10	20	"	.26	.50	"	"
11	28	"	.26	.57	"	"
12	May 15	"	.26	.62	"	"
13	23	"	.26	.28	"	"
14	Jul. 25	"	.26	.32	"	"
15	Aug. 11	"	.26	.58	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U12

Monthly discharge of

Haines

~~Haines~~
Creek

near

Tujunga, Calif.

for the year ending Sept. 30, 1930

(Drainage area 1.2 square miles)

MONTH	DISCHARGE IN SECONDS				DEPTH		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	est.		.001			.06	
November			.001			.06	
December			.001			.06	
January			.003			.18	
February			.003			.17	
March			.002			.12	
April			.001			.06	
May			.001			.06	
June			.001			.06	
July			.0005			.03	
August			.0005			.03	
September			.0005			.0	
The year period						.89	

NOTE:

LITTLE SANTA ANITA CREEK U. S. G. S. STATION

NEAR SIERRA MADRE, CALIF.

LOCATION Near center of $W\frac{1}{2}$, Sec. 9, T. 1 N., R. 11 W.,
2 miles northeast of Sierra Madre,
and 2 miles above Flood Control Debris dam

DRAINAGE AREA 1.9 square miles.

RECORDS AVAILABLE April 15, 1916 to Sept. 30, 1930 at U.S.G.S.
office.

GAGE Water stage recorder on left bank about 150'
below Scherer's cabin

DISCHARGE MEASUREMENTS Made from wooden bridge near gage by
wading.

CHANNEL AND CONTROL Bed consists of gravel and boulders. Right
bank is rock cliff. Left bank is a stone
wall 5' high. Control is small concrete
dam with triangular notch at left end, just
below gage. Control not permanent for
high stage on account of gravel deposited in
pool just above dam

EXTREMES OF DISCHARGE Maximum 1929-1930 8.2 c.f.s. 1/15/30
Minimum 1929-1930 .01 c.f.s. at various times
during October 1929

DIVERSIONS None above station

REGULATION None

ACCURACY Good

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
WATER CONTROL DEPARTMENT

Little Santa Anita Ck. U.S.G.S. Station

Sierra Madre, Calif.

Sheet No. 1 of 3 sheets

sheet 1 of 3 sheets

No.	Date	Name	Vol	Area	Area	Area	Area	Area	Area	Area	Area
254	10/1	H J Tompkins	0.41	.014							
255	8	"	.44	.02							
256	16	"	.46	.03							
257	24	"	.48	.015							
258	29	"	.45	.03							
259	11/5	"	.44	.03							
260	14	"	.44	.02							
261	19	"	.45	.02							
262	26	"	.48	.03							
263	12/4	"	.46	.03							
264	10	"	.49	.04							
265	17	"	.48	.04							
266	26	"	.48	.03							
267	1/2	"	.48	.03							
268	7	"	.5	.12	.50	.54	.06	.6	2	1/6	953
269	10	"	.5	.16	.82	.65	.14	.6	2	"	"
270	16	"	.4	.13	.85	1.06	1.1	.6	7	1/3	"
271	21	"	3.2	.9	.55	.80	.5	.6	7	1/5	"
272	23	"	3.2	.8	.50	.75	.4	.6	7	"	"
273	28	"	.7	.19	.95	.70	.18	.6	2	1/12	"
274	2/5	"	.6	.12	.75	.66	.09	.6	2	1/6	"
275	11	"	.5	.12	.34	.64	.11	.6	2	1/12	"
276	20	"	.5	.1	.80	.62	.08	.6	2	"	"
277	25	"	.5	.12	.33	.64	.1	.6	2	"	"
278	3/4	"	.5	.1	.80	.62	.08	.6	2	"	"
279	6	"	.7	.16	.75	.70	.12	.6	2	"	"
280	11	"	.7	.14	.57	.66	.08	.6	2	"	"
281	15	"	4.4	.25	1.16	1.20	2.9	.6	5	1/4	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

380

Station Name: Little Santa Anita Ck. U.S.G.S. Station

Station No.: 11700
Location: Little Santa Anita, Calif.

Date of Report: 12/15/50

Sheet 2 of 2 sheets

282	5/19	H. J. Tompkins	4.2	1.8	.72	1.08	1.4	.6	3	1/8	"
283	25	"	3.5	1.3	.46	.74	.75	.6	3	"	"
284	4/5	"	3.	.75	.55	.74	1.1	.6	5	1/8	"
285	8	"	2.5	.6	.47	.74	1.23	.6	5	"	"
286	12	"	.7	.19	.90	.73	.17	.6	2	1/12	"
287	24	"	1.	.22	.82	.68	.18	.6	2	"	"
288	5/2	"	1.5	.4	.75	.80	.3	.6	1	1/6	"
289	7	"	3.5	1.1	.82	.84	.8	.6	2	"	"
290	13	"	3.5	1.1	.64	.86	.7	.6	6	"	"
291	21	"	3.3	.75	.55	.76	.81	.6	7	"	"
292	28	"	2.	.5	.63	.74	.29	.6	4	"	"
293	6/5	"	1.5	.25	.48	.70	.19	.6	3	"	"
294	11	"	1.5	.25	.44	.68	.11	.6	3	1/12	"
295	19	"	1.5	.25	.44	.68	.11	.6	3	"	"
296	7/1	"	1.5	.25	.52	.60	.08	.6	3	1/6	"
297	9	"	.2	.1	.70	.84	.07	.6	1	1/6	"
298	15	"	.2	.1	.80	.56	.07	.6	1	1/12	"
299	20	"	.2	.1	.70	.56	.07	.6	1	"	"
300	29	"	.7	.29	.55	.55	.05	.6	1	"	"
301	8/8	"				.80	24	.Vol			
302	12	"				.52	07	"			
303	17	"				.50	04	"			
304	26	"				.48	03	"			
305	9/4	"				.48	04	"			
306	11	"				.48	04	"			
307	15	"					02	"			
308	24	"				.48	04	"			
309	29	"				.50	04	"			

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of U.S.G.S. Station

Little Santa Anita Creek River Creek

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDROGRAPHIC DEPARTMENT

File No. U3

Near Sierra Madre, Calif.

for the Year Ending September 30, 1930

Drainage Area 1.9 Square Miles.

Observer.]

Gage Read to continuous

Used rating table dated

Main data table with columns for months (OCTOBER to SEPTEMBER), days (1-31), and discharge values. Includes vertical annotations like 'DISCHARGE LESS THAN .01 SEC. FT.' and 'DITTO'.

March 15, 1930 on daily on: Discharge 2.8 Discharge .01 s.f.

TOTAL summary table with rows for Mean Daily Discharge, Run-off, and Maximum/Minimum Mean Daily Discharge.

Vertical text on the right side: DAY, Quarter, First, Second, Third, Fourth, Computed, Checked, Date.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 53

Monthly discharge of

Little Santa Anita
U.S.G.S. Station

River
Creek

near

Sigrao Madre

for the year ending Sept. 30, 19

(Drainage area 1.9 square miles)

MONTH	DISCHARGE IN SECONDS				Per square mile	Depth in inches on drainage area	Runoff in acre feet	Accuracy
	Maximum	Minimum	Mean					
October	*	*	.019			1.17		
November	*	*	.024			1.43		
December	*	*	.031			1.91		
January	2.2	*	.34			21.20		
February	.20	.10	.14			7.61		
March	2.00	.10	.75			45.70		
April	.50	.20	.24			14.40		
May	1.70	.20	.61			37.20		
June	.20	.10	.16			9.58		
July	.10	*	.27			4.43		
August	*	*	.04			2.40		
September	*	*	.03			1.67		
						<u>149.00</u>		

The year period

NOTE:

* Discharge less than .01 s.f.

PACOIMA CREEK U.S.G.S. STATION NEAR

SAN FERNANDO

Location In SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 24 T. 3 N., R. 15 W., about 600' above mouth of canyon and 4 miles north-east of San Fernando.

Drainage Area 27.9 square miles.

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

Records Available March 1916 to Sept. 30, 1930.

Gage Stevens 7 day water stage recorder. An Au continuous water stage recorder, with concrete well and house on left bank, installed Dec. 1916. Gage in stilling well and on outside of concrete house.

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 low concrete and boulder dam built across channel about 7 feet below gage well. Weir has been installed just below Flood Control Dam.

Extremes of measurements Maximum 1929-1930. 9.57 Sept. 29-30, 1930.
Minimum 1929-1930. Dry at various times of year.

Diversions None above station

Control Flow regulated by the Los Angeles County Flood Control District's 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

15

Hydrographic measurements of

Pacoima Wash

~~1930~~

VanNuys Blvd.

during the year ending August 31, 1930

Date		Time		Gage		Reading		Stage		Remarks		
1930												
1	1-9	Luce-Waldicor	6.9	3.03	2.30	15.56	6.97	.6	7	0	1/4	FC 24
2	1-9	"	7.1	4.25	1.41	15.53	5.99	.6	7	.05	1/3	"
3	1-11	"	9.0	9.93	2.83	15.99	27.99	.6	7	.02	1/3	"
4	1-12	"	10.0	11.37	2.88	16.18	34.19	.6	8	.03	"	"
5	3-14	"	28.5	27.71	2.33	16.46	64.63	.6	10	0	1/4	"
6	3-14	"	28.5	27.97	2.33	16.47	70.80	.6	10	.02	"	"
7	3-14	"	29.5	30.16	2.46	16.47	75.91	.6	10	.02	1/6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

U13

Discharge measurements of

Pacoima - U.S.G.S. Station -

Creek

---+ San Fernando
near

During the year ending September 30, 19 30

Date	Station	Water ft.	Area sq. ft.	Disch. cfs.	Velocity ft. per sec.	Disch. Coefficient	Disch. Coefficient	Disch. Coefficient	Disch. Coefficient
1929									
10/14	H. J. Tompkins			2.16	1.6				88
1930									
1/17	Luce-Waddicor	5.2	1.62	1.09	-	1.77	.6	8	1/4
3/24	H. J. Tompkins			2.90	3.0				95
4/2	"			2.96	3.9				"
4/7	"			2.68	2.5				"
4/17	"			-	1.1				"
4/21	"			2.64	2.7				"
5/1	"			2.28	1.5				"
5/5	"			2.24	.9				"
5/12	"			2.24	.6				"
5/19	"			2.24	1.1				"
5/27	"			2.24	.95				"
6/3	"			2.24	1.00				"
7/8	"			2.48	1.6				"
7/14	"			2.44	1.6				"
7/25	"			2.45	2.4				"
7/31	"			2.48	2.2				"
8/4	"			2.44	2.1				"
8/11	"			2.48	2.4				"
8/21	"			2.50	2.9				"
8/25	"			2.48	2.3				"
9/2	"			2.46	2.4				"
9/9	"			2.44	1.6				"
9/16	"			2.46	2.1				"
9/21	"			2.45	2.0				"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U13

Gage Read to continuous ^{hour} ~~hour~~ ^{Letter & Day}

Used rating table dated

IL	MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY	Quarter	Third	Fourth
	Charge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height	Discharge	Gage height				
5.0		1.0		1.0		1.0		2.0		2.0	1			
5.0		1.0		1.0		1.0		2.0		2.0	2			
5.0		1.0		1.0		1.0		2.0		2.0	3			WR
5.0		1.0		1.0		1.0		2.0		2.0	4			
4.5		1.0		1.0		1.0		2.0		2.0	5			
4.0		1.0		1.0		2.0		2.0		2.0	6		Computed	
3.5		1.0		1.0		2.0		2.0		2.0	7		Checked	Date
3.0		0		1.0		2.0		2.0		2.0	8			
2.5		0		1.0		2.0		2.0		2.0	9			
2.25		1.0		1.0		2.0		2.0		2.0	10			
2.0		1.0		1.0		2.0		2.0		2.0	11			
1.75		1.0		1.0		2.0		2.0		2.0	12			
1.5		1.0		1.0		2.0		2.0		2.0	13			
1.5		1.0		1.0		2.0		2.0		2.0	14			
1.5		1.0		1.0		2.0		2.0		2.0	15			
1.5		1.0		1.0		2.0		2.0		2.0	16			
1.5		1.0		1.0		2.0		2.0		2.0	17		Disch. applied	
1.5		1.0		1.0		2.0		2.0		2.0	18		Disch. checked	Date
1.5		1.0		1.0		2.0		2.0		2.0	19			
1.5		1.0		1.0		2.0		2.0		2.0	20			
1.5		1.0		1.0		2.0		2.0		2.0	21			
1.5		1.0		1.0		2.0		2.0		2.0	22			
1.0		1.0		1.0		2.0		2.0		2.0	23			
1.0		1.0		1.0		2.0		2.0		2.0	24			
1.0		1.0		1.0		2.0		2.0		2.0	25			
1.0		1.0		1.0		2.0		2.0		2.0	26			
1.0		1.0		1.0		2.0		2.0		3.0	27			
1.0		1.0		1.0		2.0		2.0		4.25	28			
1.0		1.0		1.0		2.0		2.0		9.27	29		G. H. Checked	
1.0		1.0		1.0		2.0		2.0		9.27	30		G. H. checked	Date
		1.0				2.0		2.0			31			
7.50		29.0		30.0		57.00		62.0		77.79				
2.25		.94		1.0		1.84		2.0		2.59				
3.85		57.51		59.49		113.03		122.95		154.26				
5.0		1.0		1.0		2.0		2.0		9.27				
0		0		1.0		1.0		2.0		2.00				

Pacoima Creek

~~River~~
Creek

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of

at **San Fernando**
Near

for the Year Ending September 30, 1930
Computed from outflow of dam

Drainage Area **27.9** Square Miles.

[Observer.]

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		3.0		.01				Dry		.7		Dry	1
2		3.0		.01						.7			2
3		3.0		.01						.7			3
4		3.0		.01						.4			4
5		2.4								.4			5
6		2.4								.4			6
7		2.4								.3			7
8		3.0								.3			8
9		3.0						DRY		.3		DRY	9
10		3.0								0			10
11		3.0											11
12		3.0											12
13		3.0											13
14		3.0											14
15		3.0											15
16		3.0						3.26					16
17		2.4						3.26					17
18		3.0						6.80					18
19		3.0						7.55					19
20		3.0						8.00					20
21		2.8						0				4.5	21
22		1.9						0				5.0	22
23		1.9						.72				5.0	23
24		1.0						.4				5.0	24
25		.4						.4				5.0	25
26		0						.4				5.0	26
27		0						.7				5.0	27
28		.6						.7				5.0	28
29		0						.7		-		5.0	29
30		.01						.7		-		5.0	30
31		.01						.7		-		5.0	31
TOTAL		66.22		.04		0		34.29		4.20		54.50	
Mean Daily Discharge in Second-feet		2.14		0				1.11		.15		1.75	
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		131.31		.08		0		68.00		8.53		108.07	
Maximum Mean Daily Discharge in Second-feet		3.0		.01		0		8.00		.7		5.0	
Minimum Mean Daily Discharge in Second-feet		.01				0		0		0		0	

second-feet.

0

Discharge

various times

feet at

Maximum stage
Minimum stage

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U13

Monthly discharge of **Pacoima**
U.S.G.S. Station

~~San~~
Creek

at **San Fernando, Calif.**
near

for the year ending Sept. 30, 1930

(Drainage area **27.9** square miles)

MONTH	DISCHARGE IN SECONDS FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches per drainage area	Total in acre feet	
October	3.0	.01	2.14			131.31	
November	.00	0	0			.08	
December	0	0	0			Dry	
January	8.0	0	1.11			68.0	
February	.7	0	.15			8.53	
March	5.0	0	1.76			108.07	
April	5.0	0	2.25			133.85	
May	1.0	0	.94			57.51	
June	1.0	1.0	1.0			59.49	
July	2.0	1.0	1.84			113.03	
August	3.0	2.0	2.00			122.95	
September	9.27	2.0	2.59			154.26	
The year 1930						957.08	

NOTE:

Flow controlled by Los Angeles County Flood Control Dam

ROGERS CREEK U. S. G. S. STATION NEAR AZUSA

LOCATION In NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 23, T. 1 N., R. 10 W.,
one half mile above mouth of creek and
2 $\frac{1}{2}$ miles north of Azusa.

DRAINAGE 6.4 square miles

RECORDS AVAILABLE May 8, 1916 to Sept. 30, 1930 at U.S.G.S.
office

GAGE Water stage recorder on left bank at mouth
of canyon.

DISCHARGE MEASURE-
MENTS Made by wading or from cable about 150
feet below gage.

EXTREMES OF
DISCHARGE Maximum 1929-1930 81 c.f.s. 5/3/30
Minimum 1929-1930 dry at various times of year

DIVERSION Two small diversions above station diverted
all water at times during year.

REGULATION None

Accuracy Fair

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

388

Discharge Measurements of

Rogers's
U.S.G.S. Station

Sheet
1 of 1

Azusa, Calif.

During the year ending Sept. 30, 1930

No.	Date	Name	Gage			Stage		Discharge cfs	Remarks			
			Height ft.	Area sq. ft.	Depth ft.	Height ft.	Area sq. ft.					
383	1/10	F. C. Ebert	5.2	1.5	0.63	2.31	0.95	.6	10	1/4	2721	
384	11	R. Dalton	9.	5.2	1.0	2.65	5.2	.6	7	1/4	2025	
385	11	"	7.	4.2	.8	2.54	3.3	.6	7	"	"	
386	13	"	6.	3.1	.7	2.46	2.2	.6	6	1/6	"	
387	15	F. C. Ebert	15.	10	3.42	3.39	34.	.6	13	02	1/3	2721
388	15	R. Dalton	12.	9.7	2.8	3.33	26.	.6	11	1/4	2025	
389	16	"	11.	7.8	1.0	2.80	7.9	.6	9	1/4	"	
390	16	F. C. Ebert	12.	5.6	1.27	2.77	7.1	.6	11	"	2721	
391	17	R. Dalton	8.5	4.1	1.0	2.62	4.2	.6	7	1/6	2025	
392	24	"	4.	.8	.5	2.30	.4	.6	3	1/6	"	
393	31	"	3.	.6	.4	2.26	.25	.6	2	1/10	"	
394	2/7	"	2.5	.4	.45	2.18	.18	.6	1	1/10	"	
395	14	"	2.	.3	.3	2.15	.08	.6	1	"	"	
396	21	"	2.4	.4	.4	2.19	.16	.6	1	"	"	
397	28	"	3.1	.7	.44	2.22	.31	.6	2	"	"	
398	3/5	"	9.	4.9	.98	2.65	4.8	.6	5	1/4	"	
399	6	"	5.	1.6	.87	2.43	1.4	.6	4	1/6	"	
400	7	"	4.	1.2	.82	2.38	1.0	.6	4	"	"	
401	14	"	3.	.65	.77	2.27	.5	.6	2	1/10	"	
402	15	"	12.	8.5	2.82	3.18	24.	.6	12	1/4	"	
403	15	Dalton & Ebert	13.	9.9	2.79	3.26	28.	.6	13	0	1/4	"
404	16	R. P. Dalton F. C. Ebert	12.2	9.2	2.28	3.10	21.	.6	13	01	"	
405	17	"	12.	7.6	1.84	2.94	14.	.6	12	0	"	2721
406	19	R. Dalton	10.	5.5	1.62	2.77	8.9	.6	10	1/4	2025	
407	21	"	8.	4.2	1.3	2.63	5.3	.6	7	1/6	"	
408	22	F. C. Ebert	11.	5.1	.71	2.58	3.6	.6	9	-01	1/4	"
409	25	H. J. Tompkins	4.5	2.2	1.23	2.48	2.7	.6	5	0	1/6	2025
410	28	R. Dalton	5.6	1.8	1.17	2.42	2.1	.6	5	"	2025	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

NO. 388

Hydrographic Department of

Rogers

U.S.G.S. Station

11-10-30

Azusa, Calif.

During Rainfall from June 30, 1930 to September 30, 1930

Sheet 2 of 2 sheets

Station No.	Area	Name	Area	Area	Area	Area	Area	Area	Area	Area
411 4/4	R. Dalton	4.	1.3	.77	2.32	1.1	.6	4	1/6	FO25
412 4	"	4.2	1.4	.93	2.33	1.3	.6	4	"	"
413 8	H. J. Tompkins	3.	.5	.44	2.24	.22	.6	4	1/12	953
414 11	R. Dalton	3.	.5	1.0	2.23	.5	.6	4	1/6	FO25
415 18	"	3.	.4	.8	2.18	.24	.6	4	"	"
416 19	H. J. Tompkins	1.0	.2	.50	2.18	.1	.6	2	"	27214
417 5/1	F. C. Ebert	3.	.5	1.10	2.33	.55	.6	6	"	"
418 2	R. Dalton	4.2	1.1	1.10	2.38	1.2	.6	4	"	FO25
419 3	F. C. Ebert	5.7	1.7	1.06	2.48	1.8	.6	7-	1/4	27214
420 4	R. Dalton	11.	5.6	1.07	2.71	6.0	.6	11	1/4	FO25
421 5	F. C. Ebert	11.	6.1	1.03	2.75	6.3	.6	10	"	27214
422 9	R. Dalton	4.5	2.2	1.23	2.50	2.6	.6	4	1/6	FO25
423 10	H. J. Tompkins	5.5	1.7	1.12	2.47	1.9	.6	6 -02	"	953
424 16	R. Dalton	5.0	1.6	1.0	2.40	1.6	.6	4	"	FO25
425 22	H. J. Tompkins	4.	.7	.47	2.22	.33	.6	4	1/12	"
426 23	"	4.	.7	.53	2.22	.37	.6	4	1/10	"
427 29	"	4.	.7	.52	2.22	.36	.6	4	"	"

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of

Rogers Creek
U.S.G.S. Station
for the Year Ending September 30, 1930

River
Creek

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U6

near Arusa, Calif.

Near

Drainage Area 6.4 Square Miles.

Observer

Gage Read to continuous
Per Day

Used rating table dated

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									.1	.3			1.7	.8	.2									1	
2									.1	.2			1.5	1.3	.2									2	
3									.1	.2			1.3	3.6	.1									3	
4							DRY		.1	.7			1.2	8.5	.1									4	
5									.1	1.1			.9	6.5	.1									5	
6									.1	1.3			.7	3.9										6	
7									.2	1.			.6	3.5										7	
8									.1	.9			.2	3.0										8	
9							.2		.1	.8			.3	2.6										9	
10							1.1		.1	.7			.4	2.0										10	
11							2.8		.1	.6			.5	1.9										11	
12							2.6		.1	.6			.4	1.7										12	
13							2.0		.1	.5			.4	1.3	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	13	
14							2.4		.1	.8			.3	1.3										14	
15							20.		.1	30.			.3	1.2										15	
16							7.5		.1	26.			.3	1.3										16	
17	DRY		DRY		DRY		4.1		.1	16.			.2	1.2										17	
18							2.4		.1	12.			.2	1.1										18	
19							1.4		.2	9.			.1	.8										19	
20							1.1		.2	7.			.1	.7										20	
21							.8		.2	5.5			.1	.5										21	
22							.6		.2	3.7			.1	.3										22	
23							.5		.4	3.2				.4										23	
24							.4		.3	2.8				.4										24	
25							.4		.2	2.6		DRY		.4										25	
26							.4		.2	2.3				.4										26	
27							.6		.3	2.2				.4										27	
28							.4		.3	2.2				.4										28	
29							.4			1.9				.4										29	
30							.3			1.6		.6		.3										30	
31							.2			1.2				.3										31	

TOTAL.							52.6			4.4		144.5		12.4		20.4		.8						
Mean Daily Discharge in Second-foot	0		0		0		1.70			.16		4.66		.41		1.69		0.03		0		0		0
Second-feet per square mile																								
Run-off, depth in inches																								
Run-off in acre-feet	0		0		0		105			8.9		287		24.4		101		1.8		0		0		531
Maximum Mean Daily Discharge in Second-foot							20.0			.2		30.		1.7		8.5		.2						
Minimum Mean Daily Discharge in Second-foot							.2			.1		.2		0		.3		.0						

Maximum stage mean feet at daily on March 15, 1930 Discharge
 Minimum stage mean feet at various times of year Discharge
 Dry at various times of year

Month
 Quarter
 First
 Second
 Third
 Fourth
 Date
 Computed
 Checked
 Date
 Disch. applied
 Disch. checked
 Date
 G. H. Copied
 G. H. checked
 Date
 PERIOD
 YEAR

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 36

Monthly discharge of

Rogers
U. S. C. S. Station

River
Creek

at
near

Azusa

for the year ending Sept. 30, 1930

(Drainage area 6.4 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	0	0	0			0	
November	0	0	0			0	
December	0	0	0			0	
January	20.0	.20	1.70			105.	
February	.30	.10	.16			2.9	
March	30.0	.20	4.66			287.	
April	1.70	0	.41			24.4	
May	6.50	.30	1.69			104.0	
June	.20	0	.03			1.5	
July	0	0	0			0	
August	0	0	0			0	
September	0	0	0			0	
Total						531.0	

NOTE:

SAN GABRIEL RIVER AT MOUTH OF CANYON

U.S.G.S. STATION NEAR AZUSA

LOCATION In NW $\frac{1}{4}$ Sec. 23, T. 1 N., R. 10 W., near road crossing at mouth of canyon, one half mile above Southern California Edison's Power House, and 2 miles north of Azusa.

DRAINAGE AREA 214 square miles

RECORDS AVAILABLE 1894 to Sept. 30, 1930 at U.S.G.S. offices
Records include flow of So. Cal. Edison Co's Canal

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 channel it has been necessary to install numerous staff gages and 3 recorder wells near ford. These have 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 1929-1930. 586.0 c.f.s. 3/15/31
Minimum mean daily 1929-1930 dry at various times during year

DIVERSIONS The power canal of Southern California Edison Company diverts from San Gabriel River about 5 miles above the station (See U.S.G.S. records for daily discharge of this canal as observed at power house)

REGULATION None

ACCURACY Fair

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

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of San Gabriel River at mouth of canyon
 U.S.G.S. Station and Southern California Edison Co's Canal
 At near Azusa, Cal. for the Year Ending September 30, 1930

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. U8

Drainage Area 214 Square Miles. [Observer.] Gage Read to Continuous Five Times a Day. Used rating table dated _____

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY	Quarter	Computed	Checked	Date
	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		11.6		11.6		14.1		15.		56.		45.	1	185.		122.		109		52		27		163	1					
2		11.8		11.4		14.6		15.		54.		45.	2	158		122		108		49		25		152	2					
3		12.2		11.0		14.6		14.8		54.		43.	3	149		172		105		48		25		154	3					
4		11.8		11.0		14.8		15.		53.		43.	4	118		421		101		48		24		146	4					
5		11.2		11.4		14.6		17.2		53.		105.	5	139		316		98		46		24		14.6	5					
6		11.0		11.6		14.6		18.5		51.		92.	6	134		269		95		46		24		15.9	6					
7		10.6		12.		14.8		28.		50.		78.	7	123		264		86		45		24		17.6	7					
8		10.6		11.8		15.2		23.		51.		69.	8	121		245		86		43		25		18	8					
9		11.8		11.8		15.5		22.		50.		65.	9	122		224		84		45		24		18.7	9					
10		13.2		12.2		15.7		36.		49.		62.	10	121		202		82		44		26		17.8	10					
11		12.0		12.6		15.7		49.		49.		60.	11	116		189		83		42		24		18.9	11					
12		10.6		12.4		15.9		47.		48.		58.	12	111		195		82		40		23		18.	12					
13		10.8		12.		15.9		43.		47.		57.	13	109		204		81		39		23		19.2	13					
14		11.2		12.		16.3		43.		46.		91.	14	107		200		78		38		22		18.4	14					
15		10.8		12.		16.1		68.		44.		476.	15	105		200		76		35		22		17.2	15					
16		12.4		12.2		15.9		92.		45.		421.	16	100		204		74		35		21		16.8	16					
17		11.4		12.		15.9		85.		44.		337.	17	95		193		67		34		21		14.6	17					
18		11.4		12.		15.2		80.		44.		297.	18	90		185		69		34		20		15.2	18					
19		11.4		12.4		15.2		76.		43.		258.	19	90		172		71		32		19.4		16	19					
20		10.8		13.		14.4		66.		43.		245.	20	85		165		70		33		19.4		15.9	20					
21		10.6		12.4		14.4		65.		43.		253.	21	84		159		68		33		18.2		16.7	21					
22		10.6		13.		14.6		62.		43.		245.	22	84		154		68		33		18		15.6	22					
23		10.1		14.1		14.8		59.		65.		250.	23	83		152		65		31		18.5		17.	23					
24		10.1		14.7		14.8		54.		63.		281.	24	83		146		63		31		18		17.1	24					
25		9.9		14.1		14.6		53.		55.		294.	25	82		140		62		32		17.2		19.2	25					
26		10.2		13.4		14.6		54.		52.		275.	26	82		134		61		29		17.6		18.	26					
27		11.2		14.1		14.8		58.		50.		245.	27	81		129		59		29		17.6		18.5	27					
28		11.8		14.1		14.8		72.		48.		219.	28	78		124		58		29		16.1		18.5	28					
29		11.8		14.1		14.6		66.				202.	29	77		122		57		27		17.2		19.2	29					
30		11.6		12.8		14.4		60.				200.	30	90		119		54		28		17.1		23.	30					
31		12.0				14.8		57.				202.	31			117				25		16.7			31					
TOTAL,		3485.		3752.		4662.		1513.5		1393.		5613		3202		5769		2320		1155		655		5172						
Mean Daily Discharge in Second-foot		11.2		12.5		15.0		48.8		49.8		181		107		186		77.3		37.3		21.1		17.2						63.9
Second-foot per square mile																														
Run-off, depth in inches																														
Run-off in acre-feet		686		744		922		3000		2770		11,100		6370		11400		4600		2290		1300		1020						46,200
Maximum Mean Daily Discharge in Second-foot		12.2		14.7		16.3		85.0		56.0		476.0		185.0		421.0		109.0		52.0		27.0		19.2						
Minimum Mean Daily Discharge in Second-foot		9.9		11.0		14.1		15.0		43.0		43.0		77.0		117.0		54.0		25.0		16.7		14.6						

PERIOD YEAR
 G. H. Copied
 G. H. checked
 Date

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **U8**

Monthly discharge of **San Gabriel River at Mo. of Canyon** ~~River~~
~~Creek~~

U.S.G.S.

at Station **near Azusa**

for the year ending Sept. 30, 19

1932

(Drainage area **214** square miles)

MONTH	DISCHARGE IN SECONDS-FEET				RUN-OFF		Accuracy
	Maximum	Minimum	Mean	Per square mile	Depth in inches on drainage area	Total in acre feet	
October	13.2	9.9	11.2			686.	
November	14.7	11.4	12.5			744.	
December	16.3	14.1	15.0			922.	
January	92.	14.8	48.8			3000.	
February	65.	43.	49.8			2770	
March	476.	43.	181.0			11100	
April	185.	77.	107.0			6370.	
May	421.	117.	186.0			11400.	
June	109	54.	77.3			4600.	
July	52	25	37.3			2290.	
August	27.	16.7	21.1			1300.	
September	163.	14.6	17.2			1020.	
The year period						46,200	

NOTE: Combined flow of river and Southern California Edison Company's canal.

SAN ANTONIO CREEK U. S. G. S. STATION
NEAR CLAREMONT, CALIF.

LOCATION In NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 36 T. 2 N., R. 8 W., half mile below Southern California Edison Co's Sierra Power Plant, and 8 miles NE of Claremont, Calif.

DRAINAGE AREA 16.9 square miles.

INSTALLED BY U. S. G. S. Water Resources Branch.

RECORDS AVAILABLE March 1901 to Sept. 30, 1930 at U.S.G.S. Station

GAGE Stevens continuous water stage recorder

CHANNEL AND CONTROL Sand and boulders

EXTREMES OF MEASUREMENTS
Maximum 1929-1930 - 31.0 c.f.s. 3/26/30
Minimum 1929-1930 - .3 c.f.s.. Parts of Oct., Nov., Dec. and Jan.

DIVERSIONS So. Calif. Edison Co. diverts water above station for power purposes. No return.

CONTROL None

ACCURACY Fair

COOPERATION Installed by the U. S. G. S. Water Resources Branch in cooperation with the Los Angeles County Flood Control District.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. **U15**

Discharge measurements of

San Antonio U. S. G. S. Station

—**River**
Creek

at **Claremont, Calif.**
near

during the year ending September 30, 19 **30**

Sheet 2 of 2

No.	Date	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gage height		Discharge Sec.-ft.	Rating Percent dist.	Method	Coef.	Meas. secs.	G. Ht. change	Time Hours	Meter No.
						Feet	Sec.-ft.								
	Apr.														
	15	H. J. Tompkins				3.17		2.							953
	22	Kenneth R. Melin				3.12		1.2							142
	25	H. J. Tompkins				3.12		1.1							953
	May														
	5	F. C. Ebert				3.38		4.4							27214
	7	H. J. Tompkins				3.26		2.8							953
	8	"				3.29		3.7							"
	13	"				3.22		3.0							"
	16	"				3.22		2.7							"
	22	"				3.54		8.6							"
	22	"				3.53		10.							"
	27	"				3.53		10.							"
	June														
	7	"				3.20		1.9							"
	14	"				3.16		1.6							"
	21	"				3.16		1.6							"
	26	"				3.12		1.1							"
	July														
	5	"				3.08		1.1							"
	11	"				3.08		1.1							"
	17	"				3.08		.65							"
	26	"				3.08		.7							"
	Aug.														
	2	"				3.08		.6							"
	9	"				3.08		.65							"
	15	Kenneth R. Melin				3.22		.60							895
	16	H. J. Tompkins				3.10		.55							953
	23	"				3.18		.55							"
	29	"				3.20		.55							"
	Sept.														
	5	"				3.16		.47							"
	12	"				3.22		.55							"
	20	"				3.16		.42							"
	26	"				3.20		.48							"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. **U15**

Discharge measurements of **San Antonio - U. S. G. S. Station -**

~~Lower~~
Creek

near **Claremont, Calif.**

during the year ending September 30, 19 **30**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Cont.	Meas. stage	G. H. change	Time	Notes
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec.-ft.							
	12 Oct.	H. J. Tompkins				3.00	.3							885
	19	"				2.98	.25							"
	Nov. 2	"				3.14	.27							953
	9	"				3.22	.28							"
	15	"				3.34	.39							"
	30	"				3.36	.41							"
	Dec. 7	"				3.38	.39							"
	14	"				3.39	.4							"
	20	"				3.40	.35							"
	27	"				3.45	.35							"
	Jan. 4	"				3.08	.37							"
	9	"					.41							"
	17	"				3.35	1.4							"
	22	K. R. Melin				3.24	1.3							142
	25	H. J. Tompkins				3.20	.8							953
	31	"				3.20	1.							"
	Feb. 8	"				3.15	1.							"
	15	"				3.14	.8							"
	11	Kenneth R. Melin				3.18	1.0							142
	Mar. 1	H. J. Tompkins				3.16	.6							953
	8	"				3.34	1.7							"
	19	F. C. Ebert				2.40	2.6							27214
	21	H. J. Tompkins				3.40	2.3							953
	26	"				3.68	18.							"
	29	"				3.24	3.1							"
	apr. 2	K. R. Melin				3.22	2.8							142
	5	H. J. Tompkins				3.75	17.							953
	9	"				3.20	2.2							"

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT
 U.S.G.S.

File No. **15**

Monthly discharge of **San Antonio and So. Cal. Edison Co. Canal** ~~River~~ **Creek**

at **Claremont, Cal.** for the year ending Sept. 30, 19 **30**

(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	5.7	5.5	6.06			373	
November	5.9	5.4	5.67			337	
December	5.9	5.1	5.50			338	
January	9.0	5.1	6.67			410	
February	7.9	6.6	7.19			399	
March	34.0	7.4	13.5			830	
April	25.0	19.4	21.4			1270	
May	37.0	25.0	29.5			1810	
June	33.0	19.1	24.1			1430	
July	19.3	13.4	16.2			996	
August	13.9	11.0	12.1			744	
September	11.5	9.7	10.6			631	
The year period						9570	

NOTE:

SAN DIMAS CREEK-U.S.G.S. STATION

NEAR SAN DIMAS, CALIF.

LOCATION In SW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 25, T. 1 N., R. 9 W., at mouth of San Dimas Canyon, $\frac{3}{4}$ miles north east of San Dimas, about 1 mile below Los Angeles County Flood Control Dam.

DRAINAGE AREA 18.39 square miles.

RECORDS AVAILABLE From Nov. 8, 1916 to Sept. 30, 1930 at U.S.G.S. office

GAGE Stevens continuous water stage recorder. Installed in concrete stilling well just above concrete control.

DISCHARGE MEASUREMENTS High Water measurements made by wading near gage.

EXTREMES OF DISCHARGE Maximum 1929-1930 28.0 c.f.s. 3/5/30
Minimum 1929-1930. Practically dry at various times of year.

DIVERSIONS None

REGULATION Regulated by Los Angeles County Flood Control District Dam

ACCURACY Good

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

21.6

384

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Discharge measurements of **San Dimas Ck. U.S.G.S. Station**

near **San Dimas, Calif.**

during the year ending September 30, 1930

Sheet 1 of 3 sheets

No.	Date	Gage	Width Feet	Average depth Feet	Mean velocity Meters per second	Discharge		Actual Cfs	Trans. secs.	No. of reads	Days	Meters cubic
						Cfs	Secs.					
412	10/5	C. L. Brewster	1.0	.12	.50	0.07	0.06	.6	2		1/6	271 666
413	12	"	1.0	.12	.67	.06	.08	.6	2		"	"
414	19	"	1.0	.14	.57	.06	.08	.6	2		"	"
415	26	"	1.0	.12	.83	.06	.10	.6	2		"	"
416	11/2	"	1.0	.11	.73	.06	.08	.6	2		"	"
417	9	"	1.0	.12	.75	.06	.09	.6	2		"	"
418	16	"	1.0	.11	.73	.06	.08	.6	2		"	"
419	23	"	1.0	.11	.73	.06	.08	.6	2		"	"
420	30	"	1.0	.10	.50	.05	.05	.6	2		"	"
421	12/7	"	1.0	.10	.60	.05	.06	.6	2		"	"
422	20	"	1.0	.10	.55	.05	.06	.6	2		"	"
423	27	"	1.0	.11	.45	.05	.06	.6	2		"	"
424	1/4	"	1.0	.11	.56	.05	.06	.6	2		"	"
425	10	"	1.0	.22	.95	.08	.21	.6	2		1/6	"
426	11	"	9.0	4.5	3.68	.66	3.7	.6	9		"	"
427	11	F. C. Ebert	9.1	4.4	0.91	.64	4.0	.6	9		1/4	14 272
428	14	R. Dalton	5.3	1.6	.98	.39	1.6	.6	5		1/6	FC25
429	15	F. C. Ebert	10	6.4	1.41	1.17	9.	.6	10		"	27214
430	15	Brewster-Lindsay	10	6.4	1.24	1.10	8.	.6	10		"	271666
431	16	F. C. Ebert	9.5	4.8	.96	.74	4.6	.6	9		"	27214
432	24	C. L. Brewster	3.5	1.09	1.01	.28	1.1	.6	4		"	271666
433	25	H. J. Tompkins	3	1.2	1.08	.28	1.3	.6	3		"	953
434	27	C. L. Brewster	3.8	1.74	1.51	.52	2.6	.6	4		"	271 666
435	27	"	3.5	1.6	1.36	.42	2.1	.6	4		"	"
436	29	R. Dalton	3.5	1.2	.98	.32	1.2	.6	7		"	FC25
437	31	C. L. Brewster	3.5	1.2	.93	.28	1.1	.6	4		"	27166
438	2/7	"	3.2	.97	.91	.26	.9	.6	4		"	"
439	13	H. J. Tompkins	3	1.0	.85	.26	.85	.6	3		1/12	953

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

U10
File No. 384

Discharge measurements of **SAN DIMAS CREEK U. S. G. S. Station**

River
Creek

at **San Dimas, Calif.** during the year ending September 30, 19 **30**
near

Sheet 2 of 3 sheets

No.	Date	Made by	Width		Mean velocity ft. per sec.	Gage height		Discharge Sec-ft.	Rating Percent diff.	Method	Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
			Feet	Sp. ft.		Feet	Sec-ft.								
440	2/14	C. L. Brewster	3.1	.91	.99	.24	.9	.9	.6			4		1/6	271 666
441	21	"	3.2	.93	.99	.24	.9	.9	.6			2		"	"
442	27	H. J. Tompkins	2.6	.9	.89	.28	.8	.8	.6			5		"	953
443	28	C. L. Brewster	3.5	1.26	.88	.28	1.1	1.1	.6			7		"	271 666
444	3/7	H. J. Tompkins	2.	.6	.61	.12	.4	.4	.6			2		"	953
445	7	C. L. Brewster	2.	.56	.52	.12	.3	.3	.6			4		"	271 666
446	14	C. L. Brewster	2.	.54	.61	.13	.3	.3	.6			4		"	"
447	15	F. C. Ebert	5.2	1.7	.94	.36	1.6	1.6	.6			9		1/4	27214
448	21	H. J. Tompkins	1.9	.75	.87	.20	.65	.65	.6			2		1/12	953
449	21	Brewster-Pollard	2.	.70	.71	.20	.5	.5	.6			4		1/10	271 666
450	28	C. L. Brewster	2.	.64	.72	.16	.46	.46	.6			4		1/6	"
451	31	"	2.	.64	.69	.16	.44	.44	.6			4		"	"
452	4/5	"	2.	.57	.68	.15	.39	.39	.6			4		"	"
453	12	"	2.	.62	.69	.16	.43	.43	.6			4		"	"
454	19	"	2.	.63	.57	.15	.36	.36	.6			4		"	"
455	25	H. J. Tompkins	2.	1.	1.10	.30	1.1	1.1	.6			2		1/12	953
456	26	C. L. Brewster	2.5	1.14	.99	.31	1.1	1.1	.6			5		1/4	271 666
457	5/3	"	2.5	.83	.72	.20	.6	.6	.6			5		1/5	"
458	5	F. C. Ebert	5.	1.5	.67	.31	1.0	1.0	.6			8			27214
459	8	H. J. Tompkins	2.7	1.0	.85	.24	.85	.85	.6			3		1/12	953
460	10	C. L. Brewster	2.5	.96	.80	.23	.75	.75	.6			5		1/5	271 666
461	17	"	2.5	.95	.62	.22	.6	.6	.6			5		1/6	"
462	24	"	2.5	.93	.67	.22	.6	.6	.6			5		"	"
463	31	"	2.5	1.1	.78	.24	.85	.85	.6			5		"	"
464	6/7	H. J. Tompkins	9.	3.7	.81	.54	3.0	3.0	.6			8		1/4	953
465	7	C. L. Brewster				.56	3.1	3.1							
466	10	H. J. Tompkins	8.5	3.1	.78	.46	2.4	2.4	.6			8		1/4	953
467	14	C. L. Brewster	8.0	3.7	.91	.57	3.4	3.4	.6			8		1/4	271 666

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 384

Discharge measurements of SAN DIMAS CREEK U. S. G. S. STATION

~~1000~~
~~1000~~

4-
1930

San Dimas, Calif.

During the year ending September 30, 1930

Sheet 3 of 3 sheets

No.	Date	Made by	Width		Mean velocity	Stage		Fall	Water	Wind	Direction	Time	Remarks
			feet	feet		feet	feet						
468	6/14	H. J. Tompkins	9.	3.5	.83	.56	2.9		.6			9	1/6 953 271 666
469	21	C. L. Brewster	8.3	4.2	.82	.60	3.4		.6			8	1/4 666
	21	H. J. Tompkins	9.3	4.1	.40	.60	3.7		.6			9	1/3 953 271 666
470	28	C. L. Brewster	8.0	3.3	.69	.50	2.3		.6			8	1/4 666
471	7/5	"	8.0	4.3	.93	.68	4.0		.6			8	1/4 "
422	5	H. J. Tompkins	8.	3.7	.95	.60	3.5		.6			8	1/4 953
473	11	"	8.	3.2	.91	.54	2.9		.6			8	1/6 "
474	11	C. L. Brewster				.54	2.6		.6			8	1/4 "
475	17	H. J. Tompkins	8.2	3.4	.82	.50	2.8		.6			9	1/6 "
476	19	C. L. Brewster	8.	3.5	.74	.64	3.5		.6			8	1/4 271 953
477	26	"	8.	4.0	.88	.74	4.4		.6			8	" "
478	26	H. J. Tompkins	9.	5.	1.12	.72	5.6		.6			8	1/2 "
479	8/2	C. L. Brewster	8.	4.5	.98	.48	2.5		.6			8	1/4 271 666
480	2	H. J. Tompkins	8.	2.8	.82	.48	2.3		.6			8	1/3 953 271
481	9	C. L. Brewster	8.	3.6	.85	.56	3.0		.6			8	1/4 666
482	9	H. J. Tompkins	7.9	3.5	.80	.56	2.8		.6			8	1/4 953 271
483	16	C. L. Brewster	8.	3.4	.80	.53	2.7		.6			8	" 666
484	16	H. J. Tompkins	7.7	3.3	.85	.50	2.8		.6			8	" "
485	23	C. L. Brewster	8.	3.4	.84	.53	2.8		.6			8	" 271 666
486	23	H. J. Tompkins	7.8	3.5	.80	.50	2.8		.6			8	1/4 953
487	29	"	7.8	3.2	.81	.46	2.6		.6			8	" "

Daily Gage Height, in Feet, and Discharge, in Second-Foot, of **San Dimas Creek**
 U.S.G.S. Station near San Dimas, Calif. for the Year Ending September 30, 19 **30**

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. **U10**

Drainage Area **18.39** Square Miles. [Observer.] Gage Read to **continuous** Used rating table dated.....

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DAY	Quarter	Computed	Checked	Date
	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		.1		.1		.1		1.2		.9		.4		.6		.6		3.2		2.0		.2	1					
2	.1		.1		.1		.1		1.2		.8		.4		.6		1.4		4.1		2.4		.2	2					
3	.1		.1		.1		.1		1.2		.7		.4		.8		2.2		4.1		2.4		.2	3					
4	.1		.1		.1		.1		1.1		1.1		.4		1.2		1.8		4.1		2.4		.2	4					
5	.1		.1		.1		.1		1.0		6.		.4		1.0		2.9		3.8		2.7		.2	5					
6	.1		.1		.1		.2		1.0		.4		.4		.8		2.9		2.7		2.9		.2	6					
7	.1		.1		.1		.1		1.0		.3		.4		.8		3.0		3.1		3.0		.2	7			Computed		
8	.1		.1		.1		.1		.9		.3		.4		.9		3.5		3.0		3.0		.2	8			Checked		
9	.1		.1		.1		.2		.9		.3		.4		.8		3.4		2.9		2.9		.2	9					
10	.1		.1		.1		.3		.9		.2		.4		.7		2.4		2.9		2.9		.2	10					
11	.1		.1		.1		2.0		.8		.2		.4		.6		2.6		2.9		2.9		.2	11					
12	0		.1		.1		2.4		.8		.2		.4		.6		3.0		2.9		2.8		.2	12					
13	0		.1		.1		2.4		.8		.2		.4		.6		3.0		2.9		2.8		.2	13					
14	0		.1		.1		2.2		.8		.5		.4		.6		3.0		2.9		2.8		.1	14					
15	.1		.1		.1		7.		.8		1.9		.4		.6		2.7		3.0		2.8		.1	15					
16	.1		.1		.1		5.		.7		2.2		.4		.6		2.6		3.0		2.8		.2	16					
17	.1		.1		.1		3.0		.7		1.2		.4		.6		3.2		3.0		3.0		.2	17					
18	.1		.1		.1		2.4		.7		.9		.4		.6		3.5		3.4		3.9		.2	18			Disch. applied		
19	0		.1		.1		2.0		.7		.7		.4		.6		3.6		3.4		3.8		.2	19			Disch. checked		
20	0		.1		.1		1.8		.9		.6		.4		.6		3.5		3.4		3.4		.2	20					
21	0		.1		0		1.6		.9		.6		.4		.6		3.5		3.4		2.9		.2	21					
22	0		.1		0		1.4		1.1		.6		.7		.6		3.6		3.4		2.8		.2	22					
23	0		0		0		1.4		1.7		.6		1.1		.6		3.6		3.6		2.7		.2	23					
24	0		0		0		1.3		1.3		.5		1.1		.5		3.6		4.4		2.7		.2	24					
25	.1		0		0		1.2		1.0		.4		1.2		.5		3.7		4.4		2.7		.2	25					
26	.1		.1		0		1.2		.9		.4		1.2		.5		3.2		3.9		2.7		.1	26					
27	.1		.1		0		1.8		.9		.4		1.2		.5		2.1		2.7		2.7		.1	27					
28	.1		.1		0		1.5		1.0		.4		1.3		.5		2.4		2.9		2.6		.1	28					
29	.1		.1		.1		1.2				.4		1.7		.5		2.4		2.4		1.9		.1	29			G. H. Copied		
30	.1		.1		.1		1.2				.4		1.0		.6		2.4		1.8		.3		.2	30			G. H. checked		
31	.1		.1		.1		1.2				.4				.6		1.8				.2			31					
TOTAL	2.2		2.7		2.3		46.6		26.9		24.7		18.9		20.2		85.3		99.4		81.8		5.4						
Mean Daily Discharge in Second-foot	0.07		0.09		0.07		1.50		0.96		0.80		0.63		0.65		2.84		3.21		2.64		0.18						
Second-foot per square mile																													
Run-off, depth in inches																													
Run-off in acre-feet	4.3		5.4		4.3		92.2		53.3		49.2		3.75		40.0		169		197		162		10.7					825	
Maximum Mean Daily Discharge in Second-foot	.1		.1		.1		7.0		1.7		2.2		1.7		1.2		3.5		4.4		3.9		.2						
Minimum Mean Daily Discharge in Second-foot	0		0		0		.1		.7		.2		.4		.5		.6		1.8		.2		.1						

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. U10

Monthly discharge of San Dimas
 U.S.G.S. Station

River
 Creek

at San Dimas
 near

for the year ending Sept. 30, 1930

(Drainage area 18.39 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	.10	0	.07			4.3	
November	.10	0	.09			5.4	
December	.10	0	.07			4.3	
January	7.00	.10	1.50			92.2	
February	1.20	.70	.96			53.3	
March	6.00	.40	.80			49.2	
April	1.70	.40	.63			3.75	
May	1.20	.50	.65			40.0	
June	3.70	.60	2.84			169.0	
July	4.10	1.80	3.21			197.0	
August	3.90	.20	2.64			162.0	
September	.20	.10	.18			10.7	
TOTAL						825.0	

NOTE:

SAWPIT CREEK. U. S. G. S. STATION
NEAR MONROVIA, CALIF.

LOCATION In SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 13, T. 1N., R. 11 W.,
3/8 mile below highway bridge, which
is just below junction of two main
branches and 2 miles north of Monrovia.
One half mile below the Los Angeles
County Flood Control District's Dam.

DRAINAGE AREA 5.3 square miles.

INSTALLED BY U. S. G. S. Water Resources Branch.

RECORDS
AVAILABLE Nov. 8, 1916 to Sept. 30, 1930 at U.S.G.S.
office.

GAGE Stevens continuous water stage recorder
installed 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' deep and
2' crest. High water notch 3' deep, 10'
wide.

EXTREMES OF
DISCHARGE Maximum 1929-1930. Not determined
Minimum 1929-1930. Dry various times of 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 the Los Angeles County
Flood Control District's Dam.

ACCURACY Good.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U5

Discharge measurements of

Sawpit
U.S.G.S. Station

~~Lower~~
Creek

near **Monrovia, Calif.**

during the year ending September 30, 19**30**

Date	Gage	Winds	Actual Depth	Mean Velocity	Water		Fall Rate	Stage	No. of Days	Time of Day	Remarks
					Surf	Bottom					
1930											
1/13	R. Dalton	1.3	.18	.78	.26	.14	.6	3	1/12	FC25	
1/14	"	2.5	.66	1.07	.37	.71	.6	5	"	"	
1/15	F. C. Ebert				.70	3.1					
1/16	"				.22	.5					
1/17	H. J. Tompkins				.16	.5					
1/17	R. Dalton	2.7	.35	.67	.14	.23	.6	5	"	"	
1/18	F. C. Ebert				.34	1.1					
1/21	R. Dalton	3.5	.58	1.2	.31	.70	.6	5	"	"	
1/22	H. J. Tompkins				.29	.65					
1/24	R. Dalton	2.7	.44	1.0	.26	.43	.6	4	"	"	
1/29	"	.80	.16	.33	.02	.05	.6	1	"	"	
2/7	"		est.			.01					
3/5	Dalton-Lindsay	2.2	.30	.54	.11	.16	.6	3	"	"	
3/14	R. Dalton	2.0	.16	.56	.08	.09	.6	3	"	"	
3/15	"	3.5	1.10	1.79	.48	1.97	.6	6	"	"	
3/16	"	3.7	1.16	1.17	.40	1.43	.6	6	1/6	"	
3/17	F. C. Ebert				.76	1.20					
3/28	Dalton-Lindsay		est.			.15					
4/4	R. Lindsay		dry								
4/11	"		dry								
5/2	"		dry								
5/5	F. C. Ebert				.32	.39					
5/9	R. Lindsay		est.			.04					
5/16	"		est.			.04					
5/23	"		dry								
5/29	"		dry								
6/6	"		est.			.05					
6/13	"		est.			.02					

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U5

Discharge measurements of

Sawpit
U.S.G.S. Station

Inter
Creek

Monrovia, Calif.

during the year ending September 30, 1930

No.	Date	Observer	Wind	Water Surface	Mean Velocity	Obs. Discharge	Discharge	Rating	Number of Gaugings	Year	Station	Notes
			mi/hr	ft	ft/sec	cfs	Sec-ft	Percent full				
1930	6/20	R. Lindsay			dry							282
	7/11	"	1.7	.19	1.0	.28	.19	.6	3		1/12	883
	7/18	"	2.0	.25	.84	.31	.21	.6	4		"	"
	7/25	"	2.5	.50	1.12	.45	.56	.6	5		1/10	"
	7/28	"	2.5	.54	1.20	.47	.65	.6	10		-	"
	7/30	H. J. Tompkins				.34	.28					
	8/1	R. Dalton	2.5	.60	1.15	-	.69	.6	5		-	FC2
	8/8	R. Lindsay	3.0	.35	.40	-	.33	.6	4		1/10	282 883
	8/12	H. J. Tompkins				.26	.51					
	8/15	R. Lindsay	2.0	.41	1.27	-	.52	.6	4		1/10	282 883
	8/18	H. J. Tompkins				.28	.35					
	8/27	"				.80	.44					
	8/29	R. Lindsay	2.3	.46	1.02	.80	.47	.6	4		1/12	"
	9/3	H. J. Tompkins				.80	.50					
	9/5	R. Lindsay	1.5	.36	1.19	.80	.43	.6	3		1/12	"
	9/17	R. Dalton	1.5	.39	1.1	.75	.42	.6	3		-	FC 2
	9/18	H. J. Tompkins				.98	.14					
	9/23	R. Dalton	3.6	.74	1.1	1.02	.81	.6	7		1/6	"
	9/25	H. J. Tompkins				1.05	1.0					

Near **Monrovia - U.S.G.S. Station** for the Year Ending September 30, 19**30**

Drainage Area **5.3** Square Miles.

[Observer.] **Stevens Cont. Water Stage Rec.**

Gage Read to **continuous**

Used rating table dated.....

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										0	1	0	0	0	0	0	0	.4	.81	.5	1			
2		.2										0	2	0	.1	.1	0	.4	.82	.5	2					
3		.1										0	3		.2	.1	.4	.82	.6	3						
4		.0										0	4	.18	.1	.1	.4	.82	.6	4						
5											.2	5			.3	.1	DRY	.3	.82	.5	5					
6									.04	.2	6			.23	.2	.1	.3	.82	.5	6						
7									.03	.1	7				.2	.2	0	.3	.82	.5	7					
8						DRY		DRY		.1	8				.2	.2		.3	.82	.5	8					
9										.1	9				.2	.2	0	.4	.81	.5	9					
10							0			.1	10				.2	.2	.1	.4	.80	.4	10					
11							.1			.1	11				.2	.2	.2	.4	.80	.4	11					
12							0			.1	12				.1	.1	.	.5	.79	.4	12					
13							.23	.1		.1	13				.1	.1	.2	.5	.77	.3	13					
14							.34	.6		.13	.1	14				.1	.1	.2	.5	.74	.3	14				
15							.40	1.0		.41	1.5	15				.1	.1	.2	.5	.74	.3	15				
16							.19	.4			1.4	16				.1		.2	.5	.74	.3	16				
17							.19	.4		16hr 9 hr	.37 50	17				.1		.12	.4	.85	.6	17				
18	DRY		DRY		DRY		.33	1.0			.6	18	DRY		.1		DRY	.2	.4	.98	1.4	18				
19							.31	.9		.30	.2	19			.1	.1	.3	.4	1.02	1.5	19					
20							.29	.8			.2	20			.1	.1	.4	.5	1.14	2.1	20					
21							.7				.2	21			.1	.1	.4	.5	1.08	1.5	21					
22							.29	.6			.2	22			.1	.1	.4	.80	.5	1.03	1.0	22				
23							.5				.2	23			0	.1	.4	.82	.6	1.02	.8	23				
24							.3				.2	24				.1	.4	.81	.5	1.04	.9	24				
25							.02	.1			.2	25				.6	.82	.6	1.04	.9	25					
26							.02	.1			.2	26				.5	.82	.5	1.04	.9	26					
27							.03	.1			.2	27				.5	.82	.5	1.03	.9	27					
28							.1		0		.2	28				.5	.82	.5	1.03	.9	28					
29							.02	.1			.1	29				.5	.83	.5	1.00	.8	29					
30							0				.1	30	0		0		.4	.82	.5	.96	.6	30				
31							0				.1	31			0		.4	.80	.5	-	-	31				

TOTAL,	.6	0	0	7.9	est. .40	8.0	0	3.0	.50	7.4	13.9	21.9	63.6
Mean Daily Discharge in Second-feet	.02	0	0	.25	.014	.26	0	.10	.017	.24	.45	.73	.17
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet	1.2			15.4	.8	16.0		6.1	1.0	14.8	27.7	43.4	126.
Maximum Mean Daily Discharge in Second-feet	.3			1.0	-	1.5		.3	-	.6	.6	2.1	2.1
Minimum Mean Daily Discharge in Second-feet	0			0	-	0		0	-	0	.3	.3	0

Maximum stage **1.86** feet at **3.30PM** on **Mar. 17**
 Minimum stage **determined** second-feet on **Discharge Not** second-feet on **Discharge**

G. H. Copied **F.C.E.** **H.C.T.** **1/21/31**
 G. H. checked **F.C.E.** **H.C.T.** **1/22/31**
 Computed **F.C.E.** **H.C.T.** **1/22/31**
 Checked **F.C.E.** **H.C.T.** **1/23/31**
 Date

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. **U5**

Monthly discharge of **Sawpit**
 U.S.G.S. Station

~~River~~
 Creek

near **Monrovia Creek**

for the year ending Sept. 30, 19 **30**

(Drainage area 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
November							"
December							"
January	1.0	0	.25			15.4	
February	-	-	-			.8	
March	1.5	0	.26			16.0	
April							Dry
May	.3	0	.10			6.1	
June	.1	0	.02			1.0	
July	.6	0	.24			14.8	
August	.6	.3	.45			27.7	
September	2.1	.3	.73			43.4	
The year period						126.0	

NOTE:

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 93

Discharge measurements of

Santa Clara

River

at
near

Lang

, during the year ending September 30, 19 30

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Method	Coeff.	Mean. sec.	G. H. change	Time	Meter No.
			Feet	Sq. Ft.	Ft. per sec.	Feet	Sec.-ft.						
1	11/6	Luce	2.8	.97	.59		.57		.6	6		1/4	24
2	13	"	2.9	1.32	.46		.61		.6	6		"	"
3	22	Luce-Bollinger	2.9	1.27	.36		.46		.6	6		"	"
4	27	Luce	2.9	1.23	.46		.57		.6	6		"	"
5	12/6	"	2.8	1.21	.38		.46		.6	6		"	"
6	11	"	2.9	1.36	.38		.50		.6	6		"	"
7	18	"	2.9	1.42	.34		.48		.6	6		"	"
8	1/2	"	2.9	1.44	.38		.55		.6	6		"	"
9	27	"	2.9	1.52	.32		.49		.6	6		"	"
10	2/1	"	2.9	1.36	.35		.47		.6	6		"	"
11	3/7	"	2.9	1.09	.28		.30		.6	6		1/6	"
12	29	"	2.9	1.14	.30		.34		.6	6		"	"
13	4/19	"	2.9	1.21	.31		.37		.6	6		"	"
14	5/10	"	3.0	1.20	.38		.38		.6	6		"	"
15	17	"	3.0	1.22	.33		.40		.6	6		"	"
16	6/7	"	2.9	1.19	.35		.41		.6	6		"	"
17	7/12	"	2.9	.52	.83		.43		.6	6		"	"
18	8/8	"	2.9	.52	.83		.43		.6	6		"	"
19	22	"	2.8	.53	.77		.41		.6	6		"	"
20	29	"	2.8	.55	.91		.50		.6	6		"	"

1930

No. 26

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT
River

Discharge measurements of

San Gabriel /- North Fork

at Narrows

during the year ending September 30, 19 30

Date	Time by	Width Feet	Average Depth Feet	Mean Velocity Feet per Sec.	Discharge		Average Depth Feet	Cross Section Area Sq. Ft.	Total Discharge Cfs.	No.	Gage Reading	Date	No.
					Cfs.	Sec. Ft.							
1	11-29	R. Lindsay	4.8	2.1	1.05	1.56	2.20	.6	6	0	1/6	271	636
2	12-6	Patterson-Lindsay	4.7	2.4	.88	1.58	2.10	.6	5	0	1/12	"	"
3	12-20	Lindsay-Green	4.8	2.8	.79	1.62	2.20	.6	5	0	1/12	"	"

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 10

Discharge measurements of San Fernando

at
 River
 Creek

at
 near

Devonshire Ave.

during the year ending September 30, 1930

No.	Date	By	Width Feet	Area of section Sq. ft.	Mean velocity Feet per sec.	Gate height Feet	Discharge Sec. ft.	Velocity ratio	Mean Coef.	Area ft. sq.	G. H. Change Total	Time Hrs. min.	Meter No.
1930													
1	1-11	Luce Weddicor	12.0	12.22	5.91	1.06	71.67		.6	4	.12	1/6	24
2	1-12	"	12.0	4.38	6.60	0.28	28.85		.6	4	.02	"	"
3	1-14	"	12.0	2.43	4.88	0.11	11.85		.6	4	.02	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 94

Discharge measurements of San Francisquito

~~Silver~~
Creek

at Bridge S. of Castaic Junction, during the year ending September 30, 1930.

~~XXXX~~

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	Rating Method	Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.		Ft. per sec.	Feet							
	1929													
1	11-27	Luce	2.5	1.15	.29		.33		.6		5		1/6	24
2	12-4	"	2.5	1.01	.38		.39		.6		5		1/4	"
3	12-11	"	2.9	1.23	.43		.53		.6		6		1/4	"
4	12-18	"	2.7	1.17	.31		.37		.6		5		1/4	"
5	12-27	"	4.1	1.78	.23		.41		.6		7		1/4	"
6	1-2	"	4.0	1.58	.25		.39		.6		7		1/4	"
7	1-18	"	4.5	1.85	.21		.39		.6		7		1/6	"
8	2-1	"	4.5	1.88	.25		.47		.6		7		1/4	"

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **77**

Discharge measurements of San Gabriel/West Fork

~~River~~
~~Creek~~

~~at~~ ~~near~~ Just above North Fork during the year ending September 30, 19 30.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method	Coef.	Meas. gage	G. Ht. change	Time	Meter No.	
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							Percent dif.
	19 <u>29</u>													
1	12-6	Lindsay-Patterson	7.0	2.7	.55	1.25	1.5		.6			7	1/6	271 356 362
2	1-7	Patterson	8.8	9.2	.90	1.53	8.2		.6			9	1/6	271 356 362
3	1-11	Lindsay-Patterson	24.0	15.9	1.11	1.79	17.6		.6			12	1/4	271 356 362
4	2-21	Lindsay-Green	9.0	9.8	1.44	1.75	14.1		.6			6	1/6	" 282 397
5	2-28	Patterson-Green	24.0	14.8	1.13	1.80	16.7		.6			12		282 362 356
6	3-7	Patterson-Ladicker	22.5	18.5	1.64	1.95	30.2		.6			4		356

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT
 River

File No. 76

Discharge measurements of San Gabriel/Rest Fork

~~River~~
 Creek

at Just Above Bear Creek, during the year ending September 30, 1930

No.	Date	Made by	Width		Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. No.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.										
	1929													271
1	12-6	Patterson-Lindsay	2.5	.63	.84		.53		.6		5		1/12	2636
2	12-20	"	2.0	.63			.43		.6		4		1/4	2622
3	1-23	"	15.5	11.5	1.65	1.96	19.00		.6		8		1/6	2882
4	1-31	"	14.5	10.1	1.55	1.94	15.70		.6		8		1/3	2697
5	3-5	Patterson-Waddicor	21.5	17.6	2.44	2.30	42.94		.6		7		1/4	2622
6	3-19	"	47.5	38.9	2.65	2.45	103.00		.6		13		1/4	2636
7	3-21	"	47.0	38.3	2.49	2.42	95.40		.6		15		1/2	2636
8	4-11	"	25.5	27.8	1.20		33.50		.6		12		1/3	2636
9	5-2	Waddicor	25.0	29.3	1.20	1.95	35.10		.6		7		1/3	2636

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 75

Discharge measurements of Storm Drain

~~River~~
Creek

at W. of Sawpit Wash, Monrovia, during the year ending September 30, 1950
near

No.	Date	Made by	Width		Area of section		Mean velocity		Gage height		Discharge	Rating Method	Coef.	Meas. vers.	G. H. change	Time		Meter No.	
			Feet	Sq.-ft.	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent dif.	No.						Total Hours			
1	3-14	Roger P. Dalton	25.4	20.5	5.78	1.25	116.70					.6				6	.10	1/625	20

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 69

Discharge measurements of Barpit

River
Creek

at 50' Above Foothill Blvd. during the year ending September 30, 1930

No.	Date	Made by	Width		Area of section		Mean velocity		Gage height	Discharge		Rating Method	Coef.	Meas. sec.	G. H. change	Time		Meter No.
			Feet	Sq.-ft.	Sq.-ft.	Ft. per sec.	Feet	Sq.-ft.	Percent dif.	No.	Total					Hours		
	1929																	888
1	3-31	Lindsay	8.5	.41	.78	.14	.52	.6	5	1/6	885							

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 68

Discharge measurements of Spanish Canyon

**River
Creek**

at ~~near~~ Above Junction with Sewpit crk. , during the year ending September 30, 1950

No.	Date	Made by	Width		Area of section		Mean velocity		Gage height	Discharge		rating	Method	Coef.	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.										
	1929																	
1.	5-16	Roger P. Dalton	2.5	.59	.49	.86	.19	.6	5	0	1/1025							FC
2.	5-17	Roger P. Dalton	1.0	.20	.85	.82	.17	.6	1	0	1/1025							FC

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. 29

Discharge measurements of Cattle Canyon - San Gabriel

River
~~Creek~~

at Junction with East Fork during the year ending September 30, 1930
near

No.	Date	Made by	Width		Mean velocity ft. per sec.	Gate height		Discharge rating	Method	Coef.	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq. ft.		Feet	Sec.-ft.							
	1929													
1	12-5	Patterson Lindsay	7.0	2.2	.73	-	1.6			.6	7	-	1,6	636
	1930													
2	1-15	Lindsay Dehring	10.8	7.4	.92	-	6.8			.6	7		"	"
3	1-17	"	10.7	6.7	.64		4.3			.6	7		"	"
4	1-31	R. Lindsay	7.0	3.7	1.05		3.9			.6	7		1/4	"
5	2-6	"	7.0	3.1	1.19		3.7			.6	6		1/6	"
6	2-14	Patterson Lindsay	8.0	3.9	1.03		4.0			.6	7		1/6	282 897
7	2-21	Lindsay Green	7.5	3.7	1.24		4.6			.6	5		1/6	271 636
8	2-28	"	7.5	3.87	1.37		5.29			.6	8		1/3	282 897

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 95

Discharge measurements of Elizabeth Lake Creek

~~River~~
~~Creek~~

at ~~XXXX~~ Narrows during the year ending September 30, 1950.

No.	Date	Made by	Width		Mean velocity	Gage height	Discharge	Rating	Method	Coeff.	Meas. no.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.									
	1929													
1	11-13	Luce	1.8	.24	.58		.14		.6		4		1/4	PC
2	11-20	"	2.5	.32	.59		.19		.6		4		1/6	"
3	11-27	"	2.3	.30	.77		.23		.6		5		1/4	"
4	12-4	"	1.9	.22	.82		.18		.6		4		1/4	"
5	12-11	"	1.9	.22	.86		.19		.6		4		1/4	"
6	12-18	"	1.8	.17	.82		.14		.6		4		1/4	"
7	1-18	"	4.5	1.16	1.59		1.84		.6		8		1/4	"
8	2-6	"	4.0	.90	1.29		1.16		.6		7		1/4	"
9	2-15	"	2.9	.54	1.39		.75		.6		6		1/4	"
10	3-2	"	3.5	.66	1.27		.84		.6		7		1/6	"
11	5-24	"	2.2	.27	.70		.19		.6		4		1/6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 1

Discharge measurements of BULL CANYON River
Creek

at Devonshire Ave. during the year ending September 30, 19 30

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Method	C.F.	Meas. No.	G. Ht. Change	Time	Meters
			Feet	Sq. Ft.	Ft. per sec.	Feet	Sec. ft.						
1930													
1	1-9	Luce Waddicor	7.0	9.90	1.17	2.23	11.62					1/6	FC 24
2	1-9	"	7.0	9.94	1.19	2.24	11.81					"	"
3	1-11	"	8.0	31.4	2.37	4.33	74.53					1/4	"
4	1-11	"	8.0	34.4	2.45	4.35	84.45					5/12	"
5	1-27	"	5.0	2.34	2.34	1.90	3.91					1/6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 60

Discharge measurements of Las Virgenes Creek

River
Creek

at Colyear Dam, during the year ending September 30, 1930.

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 dif.			No.	Total Hours		
	1929													
1	10-25	W. S. Hardgrove	.9	.23	.17	.07	.04		.6		3	0		20
2	11-1	W. S. Hardgrove	.9	.28	.21	.10	.06		.6		3	0		20
3	2-7	W. S. Hardgrove	1.5	.59	.46	.08	.27		.6		5	0		20

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 6

Discharge measurements of **Los Angeles**

~~Creek~~
River

at **Whitsett Avenue**

during the year ending September 30, 19 **30**

No.	Date	Made by	Width Feet	Area of section Sect.	Mean velocity M.P.H.	Gage height		Rating Method	Coeff.	Mean stage Feet	G. H. change	Time Hours	Meter No.
						Feet	Sec. ft.						
1929													
1	11-1	Luce Bollinger	2.0	0.66	1.15	0.64	0.76		.6	5	0	1/4	FC24
2	11-8	J. W. Luce	2.5	1.06	1.17	0.70	1.24		.6	5	0	"	"
3	11-15	Luce Bollinger	2.1	0.88	1.44	0.72	1.27		.6	5	0	"	271 650
4	11-22	"	2.2	0.83	1.43	0.74	1.18		.6	5	0	"	FC24
5	11-29	J. W. Luce	2.1	0.63	1.37	0.74	0.86		.6	5	0	"	"
6	12-6	C. E. Bollinger	2.1	0.61	1.33	0.77	0.81		.6	5	0	1/6	271 650
7	12-13	J. W. Luce	2.3	1.09	1.68	0.68	1.84		.6	5	0	1/4	FC24
8	12-20	C. E. Bollinger	1.1	0.70	1.01	0.72	0.71		.6	5	0	"	271 650
9	12-27	J. W. Luce	2.8	1.59	1.02	0.79	1.62		.6	6	0	"	FC24
10	1-3 ¹⁹³⁰	C. E. Bollinger	1.2	0.86	0.72	0.73	0.62		.6	3	0	1/6	271 650
11	1-10	"	1.4	3.54	1.31	1.09	4.62		.6	3	0	1/4	"
12	1-24	"	5.4	2.17	0.61	0.64	1.33		.6	6	0	1/6	"
13	1-31	"	7.6	2.78	0.52	0.60	1.45		.6	6	0	1/4	"
14	2-7	"	7.0	2.77	0.51	0.60	1.42		.6	5	0	1/6	"
15	2-14	"	7.5	2.85	0.54	0.62	1.54		.6	7	0	1/4	"
16	2-21	"	7.4	2.68	0.54	0.60	1.44		.6	7	0	"	"
17	3-1	"	7.4	2.78	0.48	0.55	1.33		.6	5	0	1/6	"
18	3-7	"	6.5	2.23	0.52	0.57	1.17		.6	5	0	1/4	"
19	4-11	"	11.1	11.6	2.14	1.81	24.8		.6	7	0	"	"
20	4-25	"	11.8	11.3	2.31	1.76	25.9		.6	9	0	"	"
21	5-2	"	11.3	11.65	2.12	1.78	24.7		.6	6	0	"	"
22	5-9	"	14.4	22.10	1.13	1.85	24.93		.6	9	0	"	"
23	5-16	"	13.8	21.2	0.99	1.76	20.9		.6	12	02	1/3	"
24	6-6	"	12.8	20.5	1.15	1.56	23.65		.6	10	0	1/3	"
25	6-13	"	11.4	16.46 ^{1.30}		1.57	21.13		.6	8	0	1/4	"
26	6-20	"	12.2	9.88	1.54	1.57	15.03		.6	9	0	1/6	"
27	6-27	"	11.6	8.86	1.62	1.52	14.33		.6	8	0	1/4	"
28	7-11	"	11.8	8.54	1.55	1.50	13.26		.6	7	0	1/6	"

* Measurements taken below outlet Diaz. Power House.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 6

Discharge measurements of

Los Angeles

River
Creek

at ~~near~~ Whitsett Ave.

during the year ending September 30, 19 30

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	Rating	Method	Coeff.	Mean stage	G. H. change	Time	Meter No.
			Feet	Sq. ft.		Feet	Sec.-ft.								
* 1930		Bollinger													271
29	8-22	Odekirk	12.3	11.0	1.73	1.66	19.05		.6			14	0	1/3	650
30	8-29	Bollinger Luce	12.2	20.46	1.08	1.76	22.20		.6			9	0	1/6	"
31	9-5	C. E. Bollinger	12.0	18.6	1.18	1.67	22.05		.6			8	0	1/4	"
32	9-12	"	12.4	19.76	1.12	1.69	22.18		.6			7	0	"	"
33	9-26	"	7.4	3.69	2.17	1.00	8.00		.6			7	0	1/6	"

* Below Diaz Power House

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 90

Discharge measurements of

Malibu

River
Creek

at ~~near~~ 3/4 Mile below Crater Camp, during the year ending September 30, 1930

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sq.-ft.	Percent diff.	No.	Total	Hours	FC		
	1929													
1	4-4	Hardgrove	3.0	1.12	2.27		2.54			.6	6			20
2	4-25	"	3.0	1.65	.21		3.43			.6	5			"
3	5-2	"	3.0	1.37	1.68		2.51			.6	6			"
4	5-9	"	2.6	.97	.17		1.67			.6	4			"
5	5-16	"	2.0	.69	2.73		1.88			.6	4			"
6	5-29	"	1.8	.51	1.15		.59			.6	5			"
7	6-13	"	1.7	.28	.19		.54			.6	3			"
8	6-27	"	1.5	.15	1.86		.28			.6	3			"
9	7-3	"	1.5	.15	2.00		.30			.6	3			"
10	7-11	"	1.0	.21	1.33		.28			.6	3			"
11	7-18	"	.9	.22	.82		.18			.6	4			"
12	7-26	"	1.0	.23	.82		.19			.6	2			"
13	8-1	"	.9	.21			.22			.6	2			"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 91

Discharge measurements of San Dimas Creek

~~Di-~~
~~graph~~

near Above Flood Control Dam, during the year ending September 30, 1930.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method	Coef.	Meas. series	G. H. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.			Percent diff.	No.	Total	Hours
	1929												271
1	3-5	Brewster	7.0	3.69	1.50	3.12	5.53		.6	7		1/6	366
2	3-7	"	6.0	2.06	.84	3.00	1.74		.6	6		1/6	"
3	3-22	"	7.6	3.20	1.14	3.08	3.65		.6	7		1/6	"
4	3-29	"	7.4	2.48	.69	2.98	1.70		.6	7		1/6	"
5	3-31	"	7.4	2.85	.93	3.02	2.65		.6	7		1/6	"
6	4-5	"	6.0	2.17	.61	2.97	1.33		.6	6		1/6	"
7	4-12	"	6.0	1.94	.58	2.94	1.12		.6	6		1/4	"
8	4-19	"	4.0	1.17	.73	2.91	.85		.6	4		1/6	"
9	4-26	"	4.0	1.13	.61	2.90	.69		.6	4		1/6	"
10	5-3	"	6.5	2.89	1.31	3.09	3.73		.6	6		1/6	"
11	5-10	"	6.5	3.13	1.32	3.14	4.14		.6	6		1/4	"
12	5-17	"	7.0	2.84	.89	3.05	2.54		.6	7		1/4	"
13	5-24	"	5.6	1.76	.81	2.96	1.43		.6	5		1/4	"
14	5-31	"	5.0	1.91	.62	2.96	1.19		.6	5		1/5	"
15	6-7	"	3.0	.93	.82	2.92	.76		.6	3		1/6	"
16	6-14	"	3.0	.89	.74	2.92	.66		.6	3		1/3	"
17	6-21	"	3.0	.88	.50	2.91	.44		.6	3		1/6	"
18	6-28	"	1.0	.40	.60	2.87	.24		.6	2		1/6	"
19	7-5	"	1.0	.22	.95	2.85	.21		.6	2		1/6	"
20	7-11	"	.8	.12	.67	2.80	.08		.6	2		1/6	"
21	7-19	"	.6	.08	.50	2.76	.04		.6	1		1/10	"
22	7-26	"	.8	.05	.60	2.70	.03		.6	1		1/6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 15

Discharge measurements of

Pacoima Wash

~~River~~
Creek

at
near

Van Nuys Blvd.

, during the year ending September 30, 19 30

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Conf.	Meas. secs.	G. H. change	Time	Meto No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	1-9	Luce-Waddicor	6.9	3.03	2.30	15.56	6.97		.6		7		1/4	24
2	9	"	7.1	4.25	1.41	15.53	5.99		.6		7	.051	3	"
3	11	"	9.0	9.93	2.88	15.99	27.09		.6		7	.02	"	"
4	12	"	10.0	11.87	2.88	16.18	34.19		.6		8	.03	"	"
5	3-14	"	28.5	27.71	2.33	16.46	64.63		.6		10		1/4	"
6	14	"	28.5	27.97	2.53	16.47	70.80		.6		10	.02	"	"
7	14	"	29.5	30.16	2.46	16.47	73.21		.6		10	.021	6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Discharge measurements of **Pacoima Wash**

~~XXXX~~
~~XXXX~~

at **San Fernando Road** during the year ending September 30, 1930

No.	Date	Made by	Wash			Discharge		Station	Class.	Meters	No. of	Meters
			Feet	Secs.	Area	Feet	Secs.					
1930												
1	1-12	Luce Waddicor	12.5	8.57	3.01	-	25.77	.6	8	-	1/3	4
2	1-12	"	12.0	7.55	2.99		22.55	.6	7		"	"
3	1-14	"	11.0	3.72	2.36		8.77	.6	6		"	"
4	1-27	"	11.0	2.75	1.90		5.22	.6	6		1/4	"
5	3-14	J. W. Luce	8.0	4.10	2.59	5.85	10.63	.6	6	.18	1/6	"
6	3-14	"	10.0	4.13	2.27	6.85	9.36	.6	6	.03	1/4	"
7	3-14	Luce Gilmore	29.2	19.99	3.05	6.70	60.93	.6	13	.01	1/4	"
8	3-14	"	32.5	20.93	3.10	6.69	64.38	.6	14	.02	1/4	"
9	3-14	"	31.5	19.90	2.86	6.71	56.60	.6	13	0	1/4	"
10	5-3	"	11.0	6.76	2.46		16.66	.6	9		1/12	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 84

Discharge measurements of Cate Ditch

River
Creek

at Below Headgate during the year ending September 30, 1930

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method	Cost	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec. ft.						
	1929												
1	10-4	Brewster	7.0	3.95	.61	.50	3.42	.6		7		1/5	271 666
2	10-11	"	7.0	4.23	.77	.56	3.26	.6		7		1/5	"
3	10-15	"	7.0	4.48	.74	.56	3.31	.6		7		1/6	"
4	10-18	"	7.0	4.41	.77	.58	3.41	.6		7		1/5	"
5	11-1	"	7.0	4.47	.75	.58	3.35	.6		7		1/6	" 282
6	11-8	Harting	6.8	4.59	.76	.61	3.48	.6		10		1/6	883
7	11-15	"	6.8	4.21	.85	.60	3.56	.6		8		1/12	"
8	11-22	"	6.8	4.16	1.08		3.85	.6		7		1/4	"
9	11-29	"	6.8	3.95	.84	.59	3.31	.6		7		1/6	"
10	12-6	"	6.8	3.84	.86		3.22	.6		8		1/6	"
11	12-13	"	6.8	3.90	.85		3.30	.6		8		1/6	"
12	12-20	"	6.8	4.08	.72	.56	2.94	.6		8		1/4	"
13	12-27	"	6.8	4.07	.80	.57	3.24	.6		8		1/6	" 271
14	1-3	Brewster	7.0	3.80	.80	.54	3.03	.6		7		1/6	666 282 883
15	1-24	Harting											
16	1-31	"	6.8	2.45	.84		2.06	.6		7		1/4	"
17	2-7	"	6.8	2.44	.75	.44	1.84	.6		7		1/6	" 271
18	2-14	Brewster	7.0	2.39	.78	.44	1.86	.6		7		1/6	666
19	2-21	Brewster-Kemman	7.0	4.25	.86	.66	3.65	.6		7		1/12	"
20	2-28	Brewster-Lindsay											"
21	3-7	" "	7.0	4.90	.83	.74	4.07	.6		7		1/6	"
22	3-14	" "											"
23	3-28	Brewster											"
24	4-4	"											"
25	4-11	"	6.9	5.16	.73	.59	3.75	.6		7		1/6	"
26	4-18	"	6.9	5.01	.76	.58	3.82	.6		7		1/6	"
27	4-25	"	6.9	4.79	.73	.55	3.49	.6		7		1/6	"
28	5-2	"	6.9	5.21	.69	.60	3.62	.6		7		1/3	"

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **84**

Discharge measurements of **Gate Ditch**

~~River~~
~~Creek~~

Below Headgate

during the year ending September 30, 19 **30**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Method	Coef.	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Per cent diff.	No.	Total	Hours		
	1929												271
29	5-9	Brewster											666
30	5-16	"	6.9	4.65	.77	.54	3.6	.6		7		1/6	"
31	5-23	"	6.9	4.24	.83	.48	3.5	.6		7		1/6	"
32	5-29	"	6.9	4.48	.94	.56	4.2	.6		7		1/6	"
33	6-6	"	6.9	3.80	.79	.44	3.0	.6		7		1/6	"
34	6-13	"	6.9	3.96	.83	.47	3.3	.6		7		1/5	"
35	6-20	"	6.9	3.82	.78	.44	3.0	.6		7		1/3	"
36	6-27	"	6.9	3.58	.75	.41	2.7	.6		7		1/5	"
37	7-3	"	6.9	3.45	.73	.37	2.6	.6		7		1/5	"
38	7-11	"	6.9	3.45	.68	.38	2.4	.6		7		1/5	"
39	7-18	"	6.9	3.44	.58	.38	2.0	.6		7		1/5	"
40	7-25	"	6.9	3.38	.52	.38	1.8	.6		7		1/4	"
41	8-1	"	6.9	3.72	.40	.42	1.5	.6		7		1/4	"
42	8-8	"	6.9	4.69	.30	.58	1.4	.6		7		1/4	"
43	8-15	"	4.0	2.94	.59	.62	1.7	.6		4		1/6	"
44	8-22	"	4.0	3.48	.59	.68	2.1	.6		4		1/5	"
45	9-4	Lindsay	6.8	3.40	.18	.63	.6	.6		7		1/6	282
46	9-11	"	6.8	3.14	.28	.75	.8	.6		4		1/12	"
47	9-19	Brewster	4.0	2.85	.54	.90	1.5	.6		4		1/4	271 666
48	9-26	"	4.0	4.84	.50	1.04	1.97	.6		4		1/3	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 85

Discharge measurements of Standifer Ditch

~~Rising~~
~~Current~~

~~at~~ Below Headgate, during the year ending September 30, 1930

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
	1929													271
1	10-4	Brewster	8.6	6.36	2.05	3.60	13.06		.6		9		1/3	666
2	10-11	"	8.2	6.96	1.62	3.53	11.33		.6		8		1/3	"
3	10-18	"	8.3	7.52	1.53	3.56	11.48		.6		8		1/4	"
4	10-25	"	10.0	9.43	1.11	3.52	10.45		.6		10		1/5	"
5	11-1	"	10.4	8.80	1.29	3.52	11.35		.6		10		1/4	"
6	11-8	Harting	9.0	8.09	1.39	3.48	11.26		.6		10		2	282 883
7	11-15	"	9.0	7.52	1.49		11.19		.6		9		1/3	"
8	11-22	"	7.5	7.66	1.41		11.81		.6		8		1/6	"
9	11-29	"	9.0	7.63	1.42	3.49	10.85		.6		9		1/3	"
10	12-6	"	7.5	7.17	1.56		11.19		.6		8		1/6	"
11	12-13	"	8.0	7.63	1.49		11.32		.6		9		1/4	"
12	12-20	"	8.0	7.56	1.22	3.54	9.23		.6		8		1/6	"
13	12-27	"	7.0	6.86	1.43	3.53	9.84		.6		7		1/6	"
14	1-3	Brewster	10.6	8.26	1.27	3.65	10.48		.6		10		1/4	271 666 282
15	1-24	Harting	9.0	4.72	1.07		5.05		.6		9		1/6	883
16	1-31	"	10.0	4.98	.57		3.82		.6		9		1/4	"
17	2-7	"	8.5	4.59	1.19	3.21	5.45		.6		9		1/6	"
18	2-14	Brewster	8.2	4.73	1.59	3.40	7.54		.6		8		1/4	271 666
19	2-21	Brewster-Kelman	8.4	5.53	1.37	3.40	7.55		.6		8		1/6	"
20	2-28	Brewster-Lindsay	8.4	6.78	1.33	3.43	9.04		.6		8		1/6	"
21	3-7	"	8.6	6.08	1.38	3.42	8.43		.6		8		1/6	"
22	3-14	"	8.2	6.53	1.38	3.61	11.79		.6		8		1/4	"
23	3-28	Brewster	8.0	4.98	1.18	3.15	5.87		.6		8		1/5	"
24	4-4	"	8.0	5.78	1.30	3.26	7.54		.6		8		1/4	"
25	4-11	"	9.0	7.42	1.31	3.35	9.70		.6		9		1/4	"
26	4-18	"	9.0	6.66	1.28	3.28	8.50		.6		9		1/4	"
27	4-25	"	9.0	7.38	1.35	3.35	9.98		.6		9		1/5	"
28	5-2	"	9.0	7.64	1.39	3.45	10.61		.6		9		1/4	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 85

Discharge measurements of **Standifer Ditch**

River
Creek

Below Headgate, during the year ending September 30, 1930.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. No.	G. H. change	Time	Meter No.
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec-ft.	Percent diff.	No.					
	1929													
29	5-9	Brewster	8.6	5.91	1.10	3.50	6.50		.6		8		1/4	271 666
30	5-16	"	9.0	6.94	1.27	3.40	8.83		.6		9		1/5	"
31	5-25	"	9.0	6.82	1.28	3.33	8.73		.6		9		1/4	"
32	5-29	"	9.0	7.92	1.40	3.45	11.02		.6		9		1/4	"
33	6-6	"	9.0	7.36	1.26	3.36	9.25		.6		9		1/3	"
34	6-13	"	9.0	7.37	1.27	3.54	9.34		.6		9		1/3	"
35	6-20	"	9.0	7.09	1.23	3.42	8.73		.6		9		1/4	"
36	6-27	"	9.0	6.77	1.32	3.42	8.95		.6		9		1/4	"
37	7-3	"	9.0	6.11	1.32	3.34	8.06		.6		9		1/4	"
38	7-11	"	9.0	6.91	1.24	3.52	8.62		.6		9		1/3	"
39	7-18	"	9.0	6.73	1.31	3.51	8.14		.6		9		1/3	"
40	7-25	"	9.0	6.32	1.30	3.51	8.21		.6		9		1/3	"
41	8-1	"	9.0	7.24	1.34	3.54	9.67		.6		9		1/3	"
42	8-8	"	8.0	6.45	1.36	3.48	8.78		.6		8		1/3	"
43	8-15	"	8.0	6.57	1.37	3.50	8.98		.6		8		1/3	"
44	8-22	"	8.0	6.13	1.25	3.40	7.69		.6		8		1/4	"
45	8-29	"	8.0	6.18	1.33	3.35	8.25		.6		8		1/3	"
46	9-4	Lindsay	8.6	5.90	1.19	3.26	7.00		.6		8		1/5	282 883
47	9-11	"	9.8	6.32	1.48	3.26	9.38		.6		9		1/4	"
48	9-19	Brewster	9.0	7.07	1.57	3.36	11.10		.6		9		1/3	271 666
49	9-26	"	9.0	8.01	1.58	3.38	12.66		.6		9		1/3	"

**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT**

File No. **86**

Discharge measurements of **San Gabriel**

**River
Creek**

at **Below Standifer Ditch** during the year ending September 30, 19 **50**.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. H. change	Time	Meter No.
			Feet	Sq. ft.	Ft. per sec.	Feet	Sec-ft.	Per cent diff.	No.	Total	Hours			
	1929													271
1	10-4	Brewster	14.0	10.02	1.11	6.78	11.10			.6	7		1/3	666
2	10-11	"	14.0	8.84	1.15	6.77	11.08			.6	7		1/3	"
3	10-18	"	14.4	10.00	1.12	6.81	11.25			.6	7		1/4	"
4	10-25	"	14.5	10.01	1.08	6.82	10.81			.6	7		1/4	"
5	11-1	"	15.0	10.90	1.07	6.84	11.70			.6	8		1/4	282
6	11-8	Harting	7.0	6.83	1.79	6.86	12.25			.6	8		1/6	883
7	11-15	"	8.0	7.92	1.69		15.42			.6	8		1/2	"
8	11-22	"	7.5	8.02	1.89		15.22			.6	9		1/2	"
9	11-29	"	6.5	6.67	1.99	6.87	13.30			.6	10		1/2	"
10	12-6	"	13.0	8.05	1.83		10.67			.6	11		1/4	"
11	12-13	"	13.0	8.82	1.24	6.84	10.91			.6	11		1/4	"
12	12-20	"	13.0	8.44	1.26	6.85	10.63			.6	11		1/4	"
13	12-27	"	13.0	8.68	1.23	6.84	10.64			.6	11		1/3	"
14	1-3	Brewster	13.0	8.23	1.10	6.83	9.03			.6	9		1/4	271 666 282
15	1-24	Harting	10.5	17.25	2.10	6.88	35.16			.6	15		1/3	883
16	1-31	"	11.0	13.31	2.28		30.38			.6	11		1/3	"
17	2-7	"	6.5	13.10	2.09	6.88	27.36			.6	10		1/4	271
18	2-14	Brewster	10.8	11.53	1.66	6.85	19.16			.6	11		1/4	666
19	2-21	Brewster-Kenman	9.0	9.66	1.82	6.78	17.60			.6	9		1/4	"
20	2-28	Brewster-Lindsay	9.0	10.95	2.01	6.82	22.05			.6	9		1/6	"
21	3-7	Brewster-Lindsay	9.0	10.22	1.83	6.80	18.67			.6	9		1/6	"
22	3-14	Brewster	9.0	11.29	1.91	6.76	21.51			.6	9		1/6	"
23	3-28	"	9.2	9.77	2.65	6.92	25.91			.6	9		1/4	"
24	4-4	"	9.5	9.25	2.42	6.90	22.41			.6	9		1/5	"
25	4-11	"	9.5	7.54	1.95	6.74	14.67			.6	9		1/3	"
26	4-18	"	9.0	6.55	1.86	6.78	12.17			.6	9		1/5	"
27	4-25	"	9.5	6.86	1.87	6.79	12.83			.6	9		1/4	"
28	4-25	"	9.5	6.86	1.87	6.79	12.83			.6	10		1/3	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 86

Discharge measurements of San Gabriel

River
Gage

at Below Standifer Ditch during the year ending September 30, 19 30

No.	Date	Made by	Width		Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. sec.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.										
1929														
29	5-9	Brewster	11.0	11.0	2.12	7.00	23.41			.6	11		1/6	271 666
30	5-16	"	13.0	8.4	1.61	6.86	13.56			.6	8		1/3	"
31	5-23	"	13.5	8.2	1.51	6.85	12.31			.6	8		1/5	"
32	5-29	"	13.4	9.2	1.48	6.84	13.63			.6	7		1/4	"
33	6-6	"	13.0	9.0	1.36	6.88	12.26			.6	7		1/4	"
34	6-13	"	13.0	9.6	1.37	6.81	13.16			.6	7		1/3	"
35	6-20	"	13.0	8.9	1.27	6.81	11.28			.6	7		1/3	"
36	6-27	"	12.0	7.8	1.27	6.80	9.92			.6	6		1/4	"
37	7-3	"	12.0	7.9	1.19	6.80	9.42			.6	6		1/3	"
38	7-11	"	12.0	8.8	1.14	6.84	10.03			.6	6		1/3	"
39	7-18	"	12.0	9.4	1.02	6.83	9.60			.6	6		1/3	"
40	7-25	"	11.0	9.0	1.02	6.83	9.25			.6	6		1/4	"
41	8-1	"	9.0	9.3	1.06	6.83	9.90			.6	5		1/3	"
42	8-8	"	9.0	9.2	1.09	6.80	10.05			.6	5		1/3	"
43	8-15	"	8.0	9.6	.86	6.78	8.26			.6	8		1/3	"
44	8-22	"	6.0	6.1	1.12	6.78	6.85			.6	6		1/4	"
45	8-29	"	6.0	7.5	.96	6.77	7.20			.6	6		1/5	282
46	9-4	Lindsay	16.5	5.8	.73	6.15	11.64			.6	9		1/6	888
47	9-11	"	12.0	4.3	.72	6.74	10.26			.6	6		1/6	" 271
48	9-19	Brewster	7.0	8.6	.91	6.76	7.90			.6	7		1/3	666
49	9-26	"	7.0	10.1	.89	6.78	9.61			.6	7		1/3	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 87

Discharge measurements of Banta Ditch

River
Creek

at ~~XXXX~~ Head of Pipe Line, during the year ending September 30, 19 30

No.	Date	Made by	Width Feet	Area of section Sq. ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec-ft.	Rating Method Percent dif.	Coef.	Mea. No.	G. Ht. change Total	Time Hours	Meter No.
	1929												271
1	8-22	Brewster	4.5	5.00	1.04	.45	5.21		.6	5			666
2	8-29	"	4.5	4.67	1.14	.52	5.57		.6	5		1/5	"
3	9-4	Lindsay	4.5	4.90	1.14	1.16	5.60		.6	4		1/12	885
4	9-19	Brewster	4.5	4.99	1.40	.62	6.97		.6	5		1/4	666
5	9-26	"	4.5	5.44	1.51	.70	8.23		.6	5		1/5	"
6	10-4	"	4.5	6.10	1.55	.74	8.25		.6	5		1/5	"
7	10-11	"	4.5	5.71	1.37	.70	7.81		.6	5		1/4	"
8	10-18	"	4.5	6.05	1.61	.75	9.11		.6	5		1/5	"
9	10-25	"	4.5	5.73	1.41	.70	8.08		.6	5		1/6	"
10	11-1	"	4.5	6.55	.98	1.35	9.41		.6	5		1/6	"
11	11-8	Harting	4.5	3.07	2.12		6.51		.6	9		1/6	883
12	11-15	"	4.5	3.11	1.97	.70	6.12		.6	9		1/4	"
13	11-22	"	4.5	2.42	1.12	1.88	9.42		.6	9		1/6	"
14	11-29	"	4.5	3.20	2.10	.80	6.71		.6	9		1/4	"
15	11-29	"	4.5	3.02	1.68	.70	5.08		.6	9		1/6	"
16	12-13	"	4.5	3.08	1.75	.70	5.39		.6	9		1/4	"
17	12-20	"	4.5	2.90	1.80	.68	5.21		.6	6		1/6	"
18	12-27	"	4.5	5.05	1.38	1.16	6.99		.6	9		1/4	"
19	1-3	Brewster	4.5	6.27	1.23	.66	7.69		.6	5		1/6	666
20	1-24												
21	1-31												
22	2-7												
23	2-21												
24	2-14												
25	3-14	"	4.5	4.67	2.14	1.14	9.98		.6	5		1/6	"
26	4-4	"	4.5	4.95	2.94	1.18	14.55		.6	5		1/6	"
27	4-11	"	4.5	3.04	1.67	.72	5.07		.6	5		1/6	"
28	4-18	"	4.5	3.56	2.18	.82	7.75		.6	5		1/4	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 87

Discharge measurements of Banta Ditch

River
Creek

at ~~XXXX~~ Head of Pipe Line during the year ending September 30, 1930

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		
	1929												271
29	4-25	Brewster	4.5	6.99	1.59	.85	11.13		.6	5		1/6	666
30	5-2	"	4.5	6.83	1.45	.84	9.93		.6	5		1/6	"
31	5-9	"	4.5	5.90	2.94	1.52	17.35		.6	5		1/6	"
32	5-16	"	4.5	7.40	1.52	.88	11.24		.6	5		1/5	"
33	5-23	"	4.5	6.93	1.50	.80	10.37		.6	5		1/2	"
34	5-29	"	4.5	3.92	2.12	.90	8.32		.6	5		1/6	"
35	6-6	"	4.5	7.38	1.33	.80	9.83		.6	5		1/5	"
36	6-13	"	4.5	7.06	1.34	.80	9.48		.6	5		1/5	"
37	6-20	"	4.5	6.16	1.35	.77	8.33		.6	5		1/5	"
38	6-27	"	4.5	5.86	1.16	.65	6.80		.6	5		1/5	"
39	7-3	"	4.5	3.59	1.70	.78	6.11		.6	5		1/4	"
40	7-11	"	4.5	4.72	1.40	.65	6.59		.6	5		1/2	"
41	7-18	"	4.5	5.17	1.43		7.41		.6	5		1/2	"
42	7-25	"	4.5	4.47	1.37	.60	6.12		.6	5		1/6	"
43	8-1	"	4.5	5.01	1.42	.62	7.11		.6	5		1/2	"
44	8-8	"	4.5	4.60	1.52	.60	6.92		.6	5		1/2	"
45	8-15	"	4.5	5.06	1.37	.60	6.92		.6	5		1/6	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 56

Discharge measurements of Tri City Sewer Outfall

River
Channel

~~at~~ Above Junction Rio Hondo during the year ending September 30, 1940

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. gage	G. Ht. change	Time	Water No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sq.-ft.	Percent dif.	No.	Total	Hours	571		
1929														
1	10-4	Brewster	8.0	8.56	1.53	1.84	13.12	.6			8	.18		566 571
2	10-11	"	8.0	10.58	1.56	1.95	16.14	.6			8	.101/5		566 571
3	10-19	"	7.5	4.61	1.25	1.45	5.76	.6			7	.12		606
4	10-25	"	7.6	6.51	1.15	1.65	7.47	.6			8	.141/5		"
5	11-1	Hartigan	4.5	4.43	1.60	1.48	7.10	.6			9	.06		571 588
6	11-8	"	7.0	4.81	1.50	1.51	6.86	.6			8	.37		588
7	11-15	"	6.0	3.19	.98	1.16	3.11	.6			11	.081/5		"
8	11-22	"	6.0	3.98	.80	1.22	3.13	.6			6	0 1/5		"
9	11-29	"	7.0	5.25	1.02	1.31	5.32	.6			8	0 1/5		"
10	12-6	"	6.0	4.48	.84	1.30	4.03	.6			8	.101/6		"
11	12-13	"	6.0	4.60	.83	1.30	3.99	.6			8	.101/5		"
12	12-20	"	6.0	3.98	.74	1.00	1.68	.6			6	.031/5		"
13	12-27	"	5.5	6.79	1.37	1.55	5.27	.6			11	.031/6		571
14	1-3	Brewster	8.4	8.35	1.36	1.72	10.37	.6			6	.41/5		566 571
15	1-24	Hartigan	6.5	4.84	1.15	1.48	5.55	.6			11	.02		571
16	3-14	Brewster	7.0	5.06	1.32	1.37	6.63	.6			7	.06		566 571
17	3-31	"	7.2	5.1	.95	1.54	4.03	.6			7	.141/5		566
18	3-23	Brewster-Lindsay	8.0	7.11	1.48	1.82	16.57	.6			8	.031/5		"
19	3-7	Brewster-Lindsay	7.0	6.17	1.12	1.37	5.73	.6			7	.061/5		"
20	3-14	Brewster	7.0	4.86	1.17	1.32	5.55	.6			7	.101/5		"
21	3-18	"	7.2	5.44	1.44	1.17	12.35	.6			7	.101/5		"
22	4-4	"	7.0	5.46	1.33	1.77	7.38	.6			7	0 1/5		"
23	4-11	"	7.3	5.36	1.48	1.80	6.83	.6			7	.01/5		"
24	4-18	"	7.0	6.31	1.32	1.32	9.38	.6			7	.031/5		"
25	4-25	"	7.0	6.71	1.51	1.34	10.13	.6			7	.061/5		"
26	4-2	"	6.0	3.19	1.14	1.38	3.64	.6			6	.041/5		"
27	5-9	"	7.0	7.32	1.32	1.34	3.35	.6			7	.031/5		"
28	5-16	"	6.0	6.36	1.35	1.7	3.35	.6			8	.101/5		"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 66

Discharge measurements of Tri City Power Outfall

~~Station~~
~~Channel~~

at Lower Junction Rio Pardo, during the year ending September 30, 1950

No.	Date	Made by	Width	Area of section	Mean velocity	Gate height	Discharge	Rating	Method	Coef.	Meters	G. H. change	Time	Meter No.
			Feet	Sq. ft.	Ft. per sec.	Feet	Cu. ft.							
	1950													171
29	5-25	Brewster	5.2	9.62	1.50	1.87	14.46	.6				.101/6		656
30	5-22	"	5.0	6.37	1.36	1.75	8.40	.6				.10		"
31	6-6	"	5.0	8.53	1.52	2.00	12.63	.6				.011/5		"
32	6-15	"	5.0	7.15	1.67	1.86	11.91	.6				.04		"
33	6-20	"	5.0	7.79	1.85	1.98	14.78	.6				.08		"
34	6-27	"	5.0	4.74	1.60	1.60	6.93	.6				.101/6		"
35	7-7	"	5.0	4.91	1.64	1.64	8.06	.6				.08		"
36	7-11	"	5.0	6.05	1.78	1.70	10.77	.6				.061/5		"
37	7-18	"	5.0	5.21	1.75	1.74	10.16	.6				.9		"
38	7-25	"	5.0	4.49	1.50	1.59	8.75	.6				.02		"
39	8-1	"	6.0	3.46	1.55	1.49	5.35	.6				.02		"
40	8-8	"	6.0	5.06	1.67	1.77	8.41	.6				.02		"
41	8-15	"	6.0	5.44	1.90	1.94	10.56	.6				0		"
42	8-21	"	7.0	5.78	1.42	1.88	8.19	.6				.04 1/5		"
43	9-4	Hindoo	6.3	3.40	1.19	1.56	6.40	.6				.24 1/10		271
44	9-19	Brewster	4.0	3.78	2.12	1.74	8.90	.6				.04 1/5		656
45	9-26	"	4.0	3.69	1.32	1.70	6.70	.6				.04 1/5		"
46	8-29	"	4.0	3.10	1.77	1.59	5.49	.6				.05 1/5		"

RISING WATER - WHITTIER NARROWS

	Rio Hondo Mission Bridge #64	Rio Hondo Slough-San Gabriel Blvd. 83	Cate Ditch 84	Standifer Ditch 85	San Gabriel R. below Standifer Ditch 86	Total Dis- charge *	Tri City Sewer 66	Total Rising Water
<u>1929</u>								
10/4	8.94	18.10	2.42	13.06	11.10	53.62	13.12	40.50
10/11	14.19	18.40	3.26	11.33	11.08	58.26	16.24	42.02
10/18	11.61	17.79	3.31	11.48	11.25	55.44	5.76	49.68
10/25	6.51	16.68	3.41	10.45	10.81	47.86	7.47	40.39
11/1	11.60	18.15	3.35	11.35	11.70	56.16	7.10	49.06
11/8	11.06	16.63	3.48	11.26	12.25	54.68	6.26	48.42
11/15	12.51	18.03	3.56	11.19	13.42	58.71	3.11	55.60
11/22	11.40	17.33	3.85	11.81	15.22	59.61	3.19	56.42
11/29	11.53	17.07	3.31	10.85	13.30	56.06	5.38	50.68
12/6	11.42	17.88	3.29	11.19	10.67	54.45	4.03	50.42
12/13	15.27	18.11	3.30	11.32	10.91	58.91	3.98	54.93
12/20	13.00	18.25	2.94	9.23	10.63	54.06	1.68	52.38
12/27	17.41	18.05	3.24	9.84	10.64	59.18	9.27	49.91
<u>1930</u>								
1/3	14.75	16.42	3.03	10.48	9.03	53.71	10.37	43.34
1/24	14.06	20.0	0	5.05	35.16	74.	5.55	68.45
1/31	14.22	19.61	2.06	2.82	30.38	69.09	* 5.95	64.14
2/7	13.30	19.77	1.84	5.45	27.36	67.72	* 6.30	61.42
2/14	13.52	18.33	1.86	7.54	19.16	60.41	6.66	53.75
2/21	9.12	18.94	3.65	7.55	17.60	56.86	4.83	52.03
2/28	14.31	17.93	0	9.04	22.05	63.33	10.57	52.76
3/7	17.26	17.94	4.07	8.43	18.67	66.57	5.78	60.79
3/14	16.47	17.93	0	11.79	21.05	67.70	5.35	62.35
3/21	18.21	17.78	0	5.87	25.91	67.77	13.55	54.22

* interpolated

4/4	14.17	18.67	0	7.54	22.41	62.79	7.28	55.51
4/11	13.21	17.11	3.75	9.70	14.67	58.44	8.85	49.59
4/18	10.94	17.48	3.82	8.50	12.17	54.91	9.58	45.33
4/25	11.49	16.27	3.49	9.98	12.83	54.00	10.13	43.89
5/2	12.73	16.56	3.62	10.61	13.10	56.62	2.64	53.98
5/9	11.04	18.48	0	6.50	23.41	59.43	9.26	50.17
5/16	12.33	17.09	3.60	8.83	13.58	55.43	13.93	41.50
5/23	13.90	17.18	3.50	8.73	12.31	55.62	14.46	41.16
5/29	13.60	17.48	4.2	11.02	13.63	60.15	8.40	51.75
6/6	13.29	16.51	3.0	9.25	12.26	54.31	12.63	41.68
6/13	13.42	16.22	3.3	9.34	13.16	55.44	11.91	43.53
6/20	11.44	17.12	3.0	8.73	11.28	51.57	14.38	37.19
6/27	9.49	15.46	0.7	8.95	9.92	46.56	6.93	39.59
7/3	9.52	15.21	2.6	8.06	9.42	44.81	8.06	36.75
7/11	8.76	15.86	2.4	8.62	10.03	45.67	10.77	34.90
7/18	9.68	14.50	2.0	8.14	9.60	43.92	10.16	33.76
7/25	10.80	14.41	1.8	8.21	9.25	44.47	6.75	37.72
8/1	8.29	15.59	1.5	9.67	9.90	44.95	5.35	39.60
8/8	10.63	15.49	1.4	8.78	10.05	46.35	8.41	37.94
8/15	9.53	14.61	1.7	8.98	8.26	43.08	10.36	32.72
8/22	8.44	14.94	2.1	7.69	6.85	40.22	8.19	31.83
8/29	8.27	13.92	1.59	8.25	7.20	39.33	5.49	33.84
9/4	5.90	14.16	0.6	7.00	11.64	39.36	6.40	32.90
9/11	12.21	13.21	0.8	9.38	10.26	45.94	13.00	32.94
9/19	10.63	15.75	1.5	11.10	7.90	46.88	8.00	38.88
9/26	11.73	16.49	1.97	12.66	9.01	51.86	6.70	45.16
TOTAL YEARLY FLOW S.F.	4387.30	6190.4	890.6	3372.6	5091.7	19932.6	3117.1	16895.5
MEAN DAILY S.F.	12.02	16.96	2.44	9.24	13.95	54.61	8.54	46.28
AC.FT.	8700	12876	1766	6638	10097	39526	6181	33504

The computed values in foregoing table are calculated from weekly measurements and are only approximately correct due to the fact that the streams fluctuated during the week.

Storm flow being eliminated as much as possible.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

SAWPIT

Discharge measurements of

River
Creek

at
near

Miscellaneous

during the year ending September 30, 19 30

No.	Date	Stage by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Stess. sect.	G. H. change	Time	Meter No.
1930		Dalton	Feet	Sq. ft.	Ft. per sec.	Feet	Sec-ft.	Percent dist.			No.	Total	Hours	FC
1	1-13	150' above dam	2.3	.45			.37		.6		6		1/2	25
2	7-30	75' below dam	2.5	.54		0	.65		.6		11		-	2
3	7-28	"	1.5	.52			.81		.6		7			"
4	8-1	"	2.5	.60		0	.69		.6		6			"
5	9-10	"	2.6	.51		0	.53		.6		6			"
6	9-17	"	2.5	.48			.50		.6		6			"
7	9-17	"	3.3	.70			1.26		.6		7			"
8	9-17	100' below dam	2.8	.65			1.16		.6		6			"
9	9-17	75' below dam	3.3	.86			2.00		.6		8			"
10	9-17	"	3.3	.85			1.70		.6		8			"
11	9-17	"	3.3	.90			1.54		.6		8			"
12	9-19	"	3.2	.89			1.39		.6		7			"
13	9-23	at dam	3.3	.92			1.13		.6		7			"
14	9-23	75' below dam	3.3	.94			1.20		.6		7			"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams

~~River~~
~~Creek~~

~~at~~ ~~near~~ Throughout L. A. County during the year ending September 30, 1930

No.	Date	Made by	Width Feet	Area of section Sq-ft.	Mean velocity ft/second	Gate height Feet	Discharge Sec-ft.	Rating Percent dis.	Method	Cost	Meas. secs.	Co. H. gages	Temp.	Meter no.
												No.	Total Hours	
1930 Castaic Creek at Highway Bridge														
3-15		Luce-Gilmore	22.5	9.36	2.01	5.00	18.80	.6				.01	1/4	FC 24
3-15		"	22.5	9.40	1.78	4.99	16.75	.6				0	"	"
3-15		"	22.5	9.34	1.88	4.98	17.60	.6				.01	1/6	"
Big Dalton Dam below old dam														
4-30		R.P. Dalton	3.8	.95	1.35	-	1.28	.6				-	-	FC 2
4-30		"	3.7	.80	1.00	-	.79	.6				-	-	"
4-30		"	4.0	1.17	1.51	-	1.77	.6				-	-	"
Malibu Creek at natural dam														
2-7		Hardgrove	5.0	.55	.49	.36	.27	.6				6	-	FC 20
Nigger Slough 100' above Harbor Blvd.														
3-21		Jordan	13.0	16.6	.68	-	11.3	.6				7	-	962
Big Tujunga Ck. at State Highway Bridge														
1-27		Luce Waddicor	7.5	1.60	1.06	-	1.70	.6				6	-	1/6 FC 24
Big Tujunga Ck. Riverside Drive														
5-3		Luce	17	11.48	2.43	-	27.99	.6				9	-	1/3 FC 24
Arroyo Ditch 100 ft. below spillway head														
6-14		Jordan	7.7	7.20	1.74	.86	12.5	.6				9	-	1/3 962
Arroyo Ditch at head of ditch above Whittier Blvd.														
6-20		Jordan	7.8	7.37	1.76	.88	13.0	.6				9	1/4	282 962
Arroyo ditch at head 1 mile n. of Whittier Blvd.														
7-27		Jordan	7.7	5.39	1.14	.64	6.15	.6				9	1/4	"
7-11		"	7.7	4.91	.90	.56	4.44	.6				-	"	"
7-18		"	7.8	4.70	.80	.52	3.76	.6				9	1/3	"
8-1		"	7.7	4.77	.72	.54	3.45	.6				9	1/4	"
8-8		"	7.8	5.12	.82	.58	4.22	.6				7	"	"
8-15		"	7.8	5.34	.80	.60	4.29	.6				9	"	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

10/30/30

Discharge measurements of

MISCELLANEOUS

~~River~~
~~Creek~~

at
near

Various Places

, during the year ending September 30, 19 30

No.	Place	Gage by	Width		Mean velocity	Discharge		Velocity	Time	Total	Net
			Feet	Sq. Ft.		Feet	Cu. Ft.				
	L. A. River										271
4-9	Diaz Ave.		4.6	1.26	.79		.99	.6	5	1/6	650
4-11	"		3.9	1.04	.87		.91	.6	6	1/4	"
4-18	Whitsett Ave.		11.0	11.34	-		25.3				
	Rio Hondo										
3-20	Peck Road						18.0				

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams

River
Creek

at Throughout L. A. County, during the year ending September 30, 19 30
near

No.	Date	Made by	Width		Mean velocity	Gage height		Discharge	Rating	Method	Cost	Meas. secs.	G. H. change	Time	Notes
			Feet	Sq.-ft.		Feet	Sec.-ft.								
	1930	Bollinger													
1	6-12	Mill Creek 100'													
		below mouth		.32			.20								
	6-12	Big Tujunga 15' above Mill Ck		.59			.60								
	6-12	Lower End Narrows					.78								
	6-12	100' above Lucas Ck					.73								
	6-12	Lucas Ck.					.03								
	6-12	Fall Ck.					.02								
		Big Tujunga													
	6-12	150' below Fall Ck.					.63								
	6-12	500' above Edison Rd.					.51								
	6-12	100' below "					.59								
	6-12	Fox Creek					.44								
	6-12	Big Tujunga													
	6-12	150' below Fox Ck					.66								
	6-12	800' above dam					.92								
	6-12	Below Dam					.81								
	6-12	500' below dam					1.12								
	6-12	.1 mi. below Hansen Lodge					1.51								
	7-12	Fox Creek		weir			.14								
	7-12	Big Tujunga		weir			.05								
		Los Angeles R.													
	4-9	200' below Diaz Ave.	3.5	.98	1.35	-	1.32	.6				5			271
	4-18	100' below Diaz "	5.4	1.33	.68		.91	.6				4			650
	4-25	"	3.7	1.03	.87		.89	.6				5			"
	5-2	"	5.0	1.10	.84		.92	.6				5			"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. _____

Discharge measurements of

Various Streams

~~Lower~~
Creek

near

Throughout L. A. County

during the year ending September 30, 1930

No.	Date	Made by	Width		Mean velocity	Gage height	Discharge		Method	Cof.	Meas. No.	G. H. change	Time	Meter No.
			Feet	Sq. ft.			Feet	Sec-ft.						
Eaton Creek above Pasadena Diversion														
3-7	Dalton		1.0	.30	.35	-	.10		.6					FC 25
Big Santa Anita Ck. 200 ft. below dam														
4-12	Dalton		4.7	1.82	1.66	-	3.02		.6		9			FC 25
Little Santa Anita Ck. above Sierra Madre Dam														
1-15	Dalton		8.5	4.62	1.36	-	6.28		.6			1/6		FC 25
Arroyo Seco Ck. at Junction with Millard Ck.														
1-17	Dalton		-	-	-	-	.10		-					-
So. Myrtle St. Storm Drain Monrovia														
3-15	Dalton		-	-	-	.85	-		-					-
Rio Hondo R. at Mines Ave.														
5-7	Jordan		3.4	.78	.68	-	.53		.6		4	-	1/12	282 FC 25
Millard Creek A staff gage														
3-21	Lindsay		3.0	1.2	1.25	.16	1.5		.6		4	-	1/12	282 FC 25
3-28	"						.06		estimated					
4-4	"						.10		"					
Millard Ck. at Arroyo Seco bridge														
5-9	Lindsay		4.0	1.37	.31	.20	1.10		.6		4	-	1/6	282 FC 25

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. 58

Discharge measurements of Arroyo Seco

~~Arroyo~~
 Creek

at Avenue 26 Bridge, during the year ending September 30, 1930.

No.	Date	Made by	Width		Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. no.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.										
	1929													282
1	8-22	Jordan	7.80	3.26	.34	.36	1.11		.6		8			962
2	9-12	Jordan	7.80	4.13	.54	.48	2.25		.6		8		1/6	962

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

PACOIMA

River
Creek

at
near

Percolation Measurements

during the year ending September 30, 19 30

No.	Date	Made by	Width	Area of cross-section	Mean velocity	Gage height	Discharge	Rating	Method	Gage	Meas. No.	G. H. change	Time	Meter No.
			Feet	Sq. ft.	ft./sec.	Feet	Sec. ft.	Percent diff.			No.	Total	Hours	
1930														
Dalton														
	3-20	40' above Venturi	8.0				4.53							
	3-20	at gaging sta.	4.7				2.99							
	3-20	10' below bridge	6.0				2.44							
	3-20	at borrow pits	4.6				2.22							
	3-20	Craigs Diversion	5.9				2.26							
	3-21	40' above venturi	8.0				4.28							
	3-21	30' above USGS	6.0				3.77							
	3-21	50' below bridge	3.0				3.37							
	3-21	at borrow pit	6.4				3.00							
	3-21	Craigs Diversion	6.1				3.44							
	3-21	40' above Venturi	8.0				4.01							
	3-21	USGS station	6.0				3.55							
	3-21	50' below bridge	3.1				3.50							
	3-21	"	6.3				3.09							
	3-21	borrow pit	8.3				3.02							
	3-21	Craigs Diversion	6.1				3.52							

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Los Angeles

River
Creek

~~at~~ ~~near~~ **Percolation Measurements** during the year ending September 30, 19 **30**

No.	Date	Made by	Weir	Area of Section		Mean velocity	Gage height		Discharge	Rating	Method	Cost	Mean gage	Gage change	Time	Meters
				Feet	Sq. Ft.		Feet	Second								
1930 Bollinger																
4-1		Ven Nuys Blvd.	4.1	1.10					.61							
4-1		Fulton Ave.	7.6	2.29					1.05							
4-1		Diaz Avenue	5.5	2.82					1.41							
4-1		300' below Diaz Ave	12.9	15.47					37.12							
4-1		Colfax Ave.	21.7	22.5					38.3							
4-1		Universal City	18.0	23.0					41.1							
4-1		Dark Canyon Road	17.7	21.7					43.5							
4-1		Burbank Sewer	25.5	12.9					37.96							
4-1		Riverside Drive		est.					20.0							
4-1		700' above LosFeliz							0							
8-19																
		Diaz Ave.	2.1	.39					.26							
		below Power House	10.0	7.87					21.9							
		Whitsett Ave.	12.0	10.95					18.67							
		Colfax Ave.	16.2	15.1					25.0							
		Universal City	10.3	14.0					29.0							
		Hollywood Way	15.0	16.3					26.8							
		Buena Vista St.	18.5	17.0					35.6							
		Flume above sewer	6.3	7.5					20.3							
8-29																
		Diaz Ave. Power Hse	10.4						26.0							
9-12																
		100' below Diaz Ave							.65							
		350' below "	10.6	10.42					27.0							
		Colfax Ave.	19.5	23.0					27.5							
		Buena Vista St.	18.0	16.9					36.0							
		Mariposa St.	16.3	13.3					23.5							

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of RIO HONDO ~~River~~ ~~Creek~~

at Percolation Measurement during the year ending September 30, 19 30
near

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secc.	G. Ht. change	Time	Meter No.	
			Feet	Sq. ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours		
	1930													282	
	3-17	Mission Bridge	40.5	26.4	1.94	1.59	51.3		.6		11	0	1/6	962	
		Rio Hondo Slough	16.5	21.2	.91	.97	19.3		.6		8	0	1/6	"	
		Whittier Blvd.	58.5	27.8	1.67	-	46.3		.6		27		1-5/12	"	
		Telegraph Rd.	13.0	5.35	.71	-	3.80		.6		7		1/6	"	
		half way between Telegraph and Downey Vernon Rds.					0								
	3-17	200' below Power L. Below Santa Fe Bridge Mission Bridge Garvey Ave. El Monte P & Br. N.W. Line Love Ague Br.				-	94.7 103 51.8 18.7 7.5 73.5 14.6								
	-18	Mission Bridge	43.	17.2	1.67	1.40	28.7								
		Rio Hondo Slough	16	20.8	.89	.94	18.5								
		Whittier Blvd.	31.	17.1	1.78	-	30.5								
		Mines Ave.	14.5	8.05	1.52	-	12.2								
		Santa Fe Bridge.					0								
		Montebello St. Dr.	3.2	.52	1.04		.54								
	3-19	Mission Bridge					30.96								
		Pasadena Sewer					12.75								
		Santa Fe Bridge					71.49								
		Power Line					45.8								
		N.W. Line					27.9								

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

Percolation Measurements - Rio Hondo

river
creek

at
near

during the year ending September 30, 19 30

No.	Date	Locality	Width Feet	Area of section		Mean velocity ft. per sec.	Gage height		Discharge Sec. ft.	Rating Percent diff.	Method	Class.	Meas. Secs.	A. In. change	Time	Type
				Sq. ft.	ft. per sec.		Feet	Sec. ft.								
1930 Lindsay - Laird																
3-17	3/8 mi. below Santa Fe Bridge	56.0						102.97	.6						12:35M	883 882
3-17	200' below Power L.	52.0						94.75	.6						10:45am	"
3-17	N.W. Line	36.0						73.48	.6						1:50p	"
3-17	Lower Azusa Rd. Br.	12.0						14.65	.6						2:45pm	"
3-17	SE Bridge El Monte	24.0						13.31	.6						3:15p	"
3-17	Garvey Ave.	11.0						18.68	.6						3:55p	"
3-17	Mission Bridge	42.0					1.55	51.79	.6						4:25p	"
1930 Jordan - Fergus																
3-17	Mission Bridge	40.5	26.4	1.94	1.59	51.30	.6					11	0	3:40p	962 882	
3-17	Mission Road	16.5	21.2	.91	.97	19.3	.6					8	0	4:10p	"	
3-17	Whittier Blvd.	58.5	27.8	1.67	-	46.3	.6					21	-	4:50p	"	
3-17	Telegraph Road	13.0	5.35	.71	-	3.80	.6					7	-	5:30p	"	
3-17	1/2 between Telegraph Rd. & Dorney-Vernon Rd.							0								"
1930 Jordan-Fergus																
3-18	Mission Bridge	43.0	17.2	1.67	1.40	28.7	.6					15	-	3:30p	"	
*	3-18	Slough, Mission Br.	16.0	20.8	.89	.94	16.5	.6				8	-	3:50p	"	
3-18	Whittier Blvd.	31.0	17.1	1.78	-	30.5	.6					20		4:55p	"	
*	3-18	Montebello St. Dr.	3.2	.52	1.04	-	.54	.6				7		5:10p	"	
3-18	Mines Avenue	14.5	8.05	1.52	-	12.2	.6					9		5:30p	"	
3-18	Santa Fe Bridge							0						6:00p	"	
1930 Lindsay - Laird																
3-19	3/8 mi below Santa Fe Rd.	33.0						71.49	.6			11		-12:25n	"	
3-19	Power Line	31.0						42.79	.6			15		2:00p	"	
3-19	N.W. Line	15.0						27.87	.6			8		2:40p	"	
3-19	Peck Road	14.5						15.94	.6			9		3:05p	"	

* inflow

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

66776

Discharge measurements of Rio Hondo

Percolation Measurements

during the year ending September 30, 1930

No.	Station	W. m.	Area Sq. ft.	Max Depth ft.	Percolation Rate ft. per day	Percolation Rate inches per day	Remarks	Remarks	Remarks	Remarks
1930										
3-19	Peck Road 400' below Big Santa Anita					15.9				
3-19	San Gabriel Blvd 1100' above Beverly Blvd.	19.	16.2	1.17		18.9				
	Whittier Blvd.	37	25.1	1.51		38.0				
	300' above Mines Ave	18.	14.	1.61		22.5				
	Mines Ave.	8.3	5.2	1.79		9.24				
	.8 mi. below Ave. Mines			Est.		.40				
3-20	Mission Bridge Slough	43.5	14.8	1.56	1.34	23.1				
	1100' above Beverly Blvd.	17.0	15.5	.92		14.3				
	Whittier Blvd.	43.	25.3	1.35		34.1				
	200' above Mines Ave.	28.7	12.1	1.37		16.6				
	2900' above Santa Fe RR	8.0	3.50	1.54		5.40				
3-25	At Split					85.3				
	150' below Peck Rd.					18.0				
	N.W. Lock					26.8				
	Power Line					36.7				
	300' below P.L.					26.6				

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

Percolation Measurements Rio Hondo

River
Creek

at
near

Various Places

during the year ending September 30, 1930

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	ratio	Method	Cont.	Meas. secs.	G. Hr. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent dit.			No.	Total Hours		
	1930	Lindsay - Laird												883 282
*	3-19	Garvey Ave. Sewer (500' above)	3.0			est.	1.75						4:20p	
	3-19	Pasadena Sewer (Garvey Ave.)	6.0				12.75	.6			7	4:40p	"	
	3-19	Mission Bridge	24.5			1.34	30.96	.6			12	5:05p	"	
	1930	Jordan-Ferguson												
*	3-19	Slough-Mission Bridge	19.0	16.2	1.17		18.9	.6			9	5:15p	"	
	3-19	1100' above Bev. Blvd.	37.0	25.1	1.51		38.0	.6			14	5:40p	"	
	3-19	Whittier Blvd.	18.0	14.0	1.61		29.5	.6			13	6:15p	"	
	3-19	300' above Mines Ave.	8.3	5.17	1.79		9.24	.6			6	6:40p	"	
	3-19	Mines Ave.				est.	.04					6:55p	"	
	3-19	.8 mi. below Mines Ave.					0					7:15p	"	962 282
	1930	Jordan-Ferguson												
	3-20	Mission Bridge	43.5	14.8	1.56	1.34	23.1	.6			16	3:35p	"	
*	3-20	Slough (Mission Br)	17.0	15.5	.92		14.3	.6			8	4:20p	"	
	3-20	1100' above Bev. Blvd.	43.0	25.3	1.35		34.1	.6			15	4:40p	"	
	3-20	Whittier Blvd.	28.7	12.1	1.37		16.1	.6			19	5:35p	"	
	3-20	200' above Mines Ave.	8.0	3.5	1.54		5.4	.6			8	6:05p	"	
*	3-20	Mines Ave.				est.	.03					6:10p	"	
	3-20	2900' above S.F.R.R. Bridge					0					6:30p	"	883 282
	1930	Lindsay-Laird												
	3-25	3/8 mi. below S.F.R.R. Bridge	51.0				85.34	.6			9	12:30n	"	
	3-25	Power Line (13,000' below Split)	32.0				33.67	.6			10	2:35p	"	
	3-25	Power Line (17,000' below split)	33.0				26.78	.6			8	3:15p	"	
	3-25	(20,700' below split)					18.40	.6			6	3:45p	"	
	3-25	150' below Peck Rd.	19.0											
	3-25	2000' below Peck Rd.												
		20,700' below Split					0					4:15p	"	

* Inflow

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation Measurements - Rio Hondo

River
Creek

at Various places during the year ending September 30, 19 30
near

No.	Date	Place by	Width Feet	Area of section Sq. Ft.	Mean velocity ft. per sec.	Gage height Feet	Distance Sq. ft.	Rating Percent dis.	Method	Cont.	Meas. sets	W. H. change	Time Hours	Meter No.
	1930	Hardgrove-Jordan												962 985
	3-27	100' below Slough	43.0	21.6	1.23		26.6	.6			22		1:05p	"
	3-27	600' below Whittier Blvd.	25.2	8.21	1.19		9.78	.6			14		2:15pm	"
	3-27	Mines Avenue	5.3	1.56	1.13		1.77	.6			5		2:40p	"
	3-27	2150' below Mines Ave					0						3:00p	"
	1930	Jordan-Fergus												963 985
	4-1	100' below Slough	16.0	13.2	1.67		22.12	.6			10		8:55am	"
	4-1	650' below Whittier Blvd.	13.1	6.6	1.39		9.16	.6			13		11: am	"
	4-1	300' above Mines Ave. Drain	8.2	3.72	1.76		6.57	.6			8		2:00p	"
	4-1	3,200' below "	5.6	1.24	.73		.90	.6			6		1:20pm	"
	1930	Jordan-Fergus												963 985
	4-3	100' below Rio Hondo Slough	13.0	15.2	1.73		27.1	.6			11		1:45p	"
	4-3	720' below Bev. Blvd.	23.5	14.1	1.52		21.5	.6			17		2:45p	"
	4-3	400' below Whittier "	18.3	8.07	1.36		11.0	.6			15		3:50p	"
	4-3	3250' " Whittier "					0						4:15p	"
	1930	Lindsay-Laird												887 932
	5-2	3/8 mile below SFRR Br	26.0				38.92	.6			9		10:10a	"
	5-2	500' below Power L.	10.0				10.37	.6			6		12 n	"
	5-2	NW Line	4.0				1.91	.6			4		12:40n	"
	5-2	Peck Road	4.4				.53	.6			5		1:10p	"
	1930	Jordan												962 985
	5-5	Mission Bridge	.42				52.6	.6			14		12:40n	"
*	5-5	Slough (100' above Mo)	.18				18.4	.6			9		2:00p	"
	5-5	100' below Slough	40				60.87	.6			14		2:20p	"
+	5-5	Arroyo Ditch at Dam	16				10.64	.6			8		3:00p	"
	5-5	100' below dam	24				41.29	.6			11		3:10p	"
	5-5	Whittier Blvd.	15				33.29	.6			21		4:45p	"

* inflow
+ outflow

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Percolation - Measurements Rio Hondo River
at Various Places Creek
near _____, during the year ending September 30, 19 30

No.	Date	Made by	Width Feet	Area of section Sq. Ft.	Mean velocity Feet per sec.	Gage height Feet	Discharge Sec.-ft.	Rating Percent diff.	Method	Coef.	Meas. secs.	G. H. Change	Time	Meter No.
1930 Lindsay														
														282
														833
	5-6	R.R. bridge 3/8 mi. below S.F.	32.5				75.01		.6		11		9:50a	"
	5-6	400' below Power L.	35.5				61.73		.6		14		12:25n	"
	5-6	N.W. Line	16.5				43.90		.6		6		1:10p	"
	5-6	Peck Road	27.5				31.17		.6		8		2:00p	"
	5-6	Lower Azusa Road				est.	1.0						2:45p	"
Jordan														
	5-6	Mission Bridge	13.0			1.18	12.6		.6		10		9:30a	"
*	5-6	100' above Slough mouth of	19.0				14.7		.6		9		10:00a	"
	5-6	100' below "	20.0				24.6		.6		11		10:30a	"
+	5-6	Arroyo ditch at dam	10.0				2.45		.6		7		11:00a	"
+	5-6	Arroyo ditch Cr. Dam	17.0				20.9		.6		13		11:20a	"
	5-6	150' below Whitt. Blvd	20.0				14.6		.6		17		12:35n	"
	5-6	150' below " "	22.0				17.5		.6		17		2:00p	"
	5-6	200' above Mines Ave	8.3				5.83		.6		9		3:00p	"
*	5-6	Spring on E. bank below Mines Ave.					.5		.6				3:40p	"
	5-6	250' below Center St.					0						4:00p	"
Lindsay														
	5-7	3/8 mi. below S.F.R. Bridge	32.5				68.87		.6		9		9:45a	"
	5-7	400' below Power L.	29.5				48.60		.6		12		11:55a	"
	5-7	N.W. Line	16.0				36.19		.6		6		12:50n	"
	5-7	Peck Road	28.0				25.05		.6		7		1:45p	"
	5-7	2000' above Bower Azusa Rd.					0						2:30p	"
Jordan														
	5-7	Mission Bridge	11.9			1.13	13.1		.6		11		8:15a	"
	5-7	100' below Slough	15.0				26.2		.6		13		9:20a	"
*	5-7	100' above Mo. Slough	18.0				13.4		.6		10		9:40a	"

* inflow
+ outflow

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

RIO HONDO

at
near

Percolation Measurements

during the year ending September 30, 1933

Year	Date	Gage Name	Water	Area of catchment	Mean altitude	Gage height	Discharge	Rating	Method of Calc.	Gage No.	Gage Altitude	Area of Catchment	Area of Catchment	Area of Catchment
1930														
	5-6	At split					75.							
		400' below Power Line					61.8							
		K.W. Line					43.9							
		Peck Rd.					31.2							
		Lower Azusa Rd.					1.0							
	5-6	Mission Bridge					12.6							
		Slough					14.7							
		100' below Slough					24.6							
		Arroyo Ditch at dam					2.45							
		At Arroyo ditch dam					20.9							
		150' below Whittier Blvd.					14.6							
		"					17.5							
		200' above Mines Ave.					5.8							
		Spring below Mines Ave.					.50							
		250' below Center St.					0							
	5-7	Mission Bridge					13.1							
		100' below Slough					26.2							
		Slough					13.4							
		Arroyo ditch					3.10							
		At Arroyo ditch					16.5							
		Whittier Blvd.					11.3							
		200' above Mines Ave.					0							
	5-7	Split					68.9							
		Power Line					48.6							
		K.W. Line					36.2							
		Peck Road					25.0							

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

118-30

Discharge measurements of

RIO HONDO

~~River~~
~~Stream~~

~~at~~
~~near~~

Percolation measurements

during the year ending September 30, 1930

Date	Location	Depth	Percolation	Remarks
1930				
5-8	Split		59.9	
	400' below PowerLine		35.7	
	NW Line		31.4	
5-13	Split		28.3	
	115' below power line		8.5	
	NW Line		3.4	
	Peck Rd.		.86	
3-22	5000' below Santa Fe Br.		61.24	
	Power Line		31.4	
	"		26.7	
	NW Line		18.3	
	Peck Road		10.5	
	400' below Big Santa Anita		0	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. _____

Discharge measurements of

Big Tujunga Creek

River
Creek

at
near Percolation

during the year ending September 30, 19 30

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. sec.	G. ft. change	Time Hours	Meter No.
21	4-10	Upper Diversion Ditch 4.2 mi. below Hansen	1.5	0.35			0.25							
22		Big Tuj. Crk USGS 5.5 below Hansen Lodge	16.1	8.62			8.03							
24		1st Cn below USGS 5.9 mi. below Hansen's		Estimate			.15							
25		Tuj. Pines Div. 6.0 mi. below Hansen Estimated diversion					.10							
26		Lower Div. Ditch 100' below Big Tuj.	1.0	0.33			0.38							
27		Big Tuj. Crk 200' below Div.	11.0	5.72			8.64							
28		Lower Div. Ditch 7.2 mi below Hansen												
		all water diverted flowing back into Big Tujunga												
29		Big Tuj. Crk Mouth of Canyon	8.4	3.83			6.63							
30		State Hy Bridge End of flow 2.3 mi. below State Highway Bridge	7.8	2.51			2.65							

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No. _____

Discharge measurements of

BIG TUJUNGA CREEK

~~River~~
 Creek

at
 near

Percolation

during the year ending September 30, 19

No.	Date	Locality	Width feet	Area of channel sq. ft.	Mean velocity ft./sec.	Discharge		Rating feet	Below Crest	Crest ft.	G. H. ft.	Time hrs.	Meters
						cu. ft. sec.	cu. ft. day						
1930 C. E. Bollinger													
1	4-17	Lower End of Narrows		2.26			2.18						
2		100' above Lucas Ck Approx. 1.30 CFS in Lucas Ck		3.55			3.00						
3		200' below Lucas Ck		2.52			3.37						
4		250' above Fall Ck		2.74			2.60						
5		150' below Fall Ck		3.43			2.72						
6		600' above Edison Transmission Line		2.64			2.91						
7		100' below Edison Transmission Line		3.77			3.14						
8		20' above Fox Ck		2.04			2.50						
9		40' above Mo. Fox Ck		.40			.66						
10		700' above Dam site		3.74			4.16						
11		below Big Tuj. Dam #1		4.63			4.05						

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

BIG TUJUNGA CREEK



4
Percolation

during the year ending September 30, 1930

No.	Date	Station	Depth		Discharge	Total	Per cent	Total
			Feet	Inches				
1930 C. E. Bollinger								
1	5-8	200' below Fox Ck		11.24		16.61		
2		500' below dam		10.00		16.74		
3		Mo. of Canyon		12.28		22.00		
4		State Highway		9.12		18.12		
5		Mulholland Blvd.		8.43		11.06		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of **BIG TUJUNGA**

~~Big~~
Creek

~~Percolation~~ **Percolation Measurements** during the year ending September 30, 1930

Date	Loc.	Width Feet	Area of Cross- Section Sq. Ft.	Mean Velocity Meters per Sec.	Discharge		Method	Cont.	Gage Section	G. H.	Total	Miles Up
					Feet	Second						
1930	Big Tujunga Ck.											
5-22	1 mi. below ^{Lodge} Hansen	11.5	3.49		4.82							
	500' below dam	10.0	4.26		4.64							
	800' above dam	11.0	4.07		4.07							
	Fox Creek											
	75' above mouth	2.2	.63		.53							
	Big Tujunga											
	above Fox Cr.	10.4	4.12		3.02							
	100' below Ed.P.L.	8.7	3.65		3.74							
	500' above Ed.P.L.	11.8	4.28		3.44							
	Fall Creek											
	125' above mouth	12.0	.06		.02							
	Big Tujunga Ck.											
	125' above Fall Cr	10.9	4.21		3.59							
	Lucas Creek											
	75' above mouth	1.2	.20		.06							
	Big Tujunga											
	125' above Lucas Cr	5.0	3.10		3.42							
	Lower End Narrows	10.2	2.86		3.37							

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

BIG TUJUNGA

~~Lower~~
 Creek

Percolation measurements

during the year ending September 30, 19 30

No.	Location	Water	Area	Area	Area	Area	Area	Area	Area
Bollinger									
6-5	Lower End Narrows	9.2	1.92			1.48			
	Lucas Creek			Est		.15			
	150' below Lucas Ck	7.5	1.38			1.26			
	Fall Creek					.03			
	150' below Fallock P.L.	9.0	2.48			1.78			
	500' above Edison	9.5	2.48			0.86			
	100' below "	7.7	2.94			1.73			
	Fox Creek	1.9	.48			.35			
	175' below Fox Ck	7.0	2.56			2.49			
	700' above dam	8.7	2.35			1.89			
	500' below dam	7.0	2.49			2.69			
	1 mi. below Hansen	5.8	3.04			2.38			

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. _____

Discharge measurements of **BIG TUJUNGA**

~~Big~~
Creek

Percolation

During the year ending September 30, 19 **30**

No.	Date	Station	Width feet	Vertical Surface		Mean velocity feet/sec.	Discharge		Actual discharge cfs.	Actual CFS	Time of flow hrs.	Remarks
				feet	feet		feet	feet				
	1930	J. W. Luce				2.84						
1	1-15	USGS	24.5	16.18		2.44	1.40	46.01				
2	1-15	USGS	24.5	17.05		2.44	1.39	41.53				
3	1-15	State Hy. Bridge	30.0	10.71		2.90	-	31.09				
4	1-15	2.2 mile below State Hwy. Bridge 2370 ft. above gravel pit - by Kutters Formula	20.0	3.86		1.13	-	4.36				

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

Big Tujunga Creek

~~at~~
~~near~~

Percolation

during the year ending September 30, 19 30

No.	Date	Point	Water Level	Mean Stage	Mean Depth	Stage Height	Discharge	Area of Cross Section	Area of Cross Section	Stage Height	Q. in cfs.	Time in hours	Mean No.
			Feet	Feet	Feet	Feet	cfs.	Sq. Ft.	Sq. Ft.	Feet	cfs.	Hours	No.
1930 Bollinger													
1	2-26	Lower End of Narrows	1.16			-	1.13						
2		100' above Lucas Ck	1.70			-	1.38						
3		40' below Lucas Ck	1.86			-	1.45						
4		200' above Fall Ck	2.15			-	1.66						
5		200' below Fall Ck	2.53			-	1.77						
6		See Map	2.43			-	1.89						
7		50' above Fox Ck	1.67			-	1.81						
8		100' below Fox Ck	2.29			-	2.09						
9		4 mi below Mill Ck	3.49			-	3.51						
10		500' above damsite	2.59			-	2.58						
11	2-27	500' below damsite Lodge	3.14			-	2.40						
12		0.1 mi below Hansen	2.20			-	2.39						
13		0.2 mi. below "	3.35			-	2.71						
14		100' above Vesquez Cr	3.44			-	2.97						
15		100' below unknown Ck	3.05			-	3.35						
16		3.2 below lodge											
		300' above Vogel	2.93			-	3.69						
17		300' above Trail Ck	3.52			-	4.05						
18		Trail Cn. Crk											
		200' above Big Tujunga Crk	.37			-	.18						
19		Big Tuj. Crk											
		500' above USGS	3.36			-	3.83						
20		200' below pipe Canyon Diversion	3.58			-	4.38						
21		0.6 mi. below pipe Cn. Diversion	4.33			-	4.36						

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

BIG TUJUNGA

River
Creek

Percolation Measurements

during the year ending September 30, 1930

No.	Date	Locality	Width	Area of section	Mean velocity	Discharge		Method	Coeff.	Mean stage	G. H. change	Time	Meter
						Feet	Sec-ft						
1930													
			Feet	Sq. ft.	Feet per sec.		Percent			No.	Total	Feet	
	2-26	Lower End Narrows					1.13						
		100' above Lucas Ck					1.38						
		40' below Lucas Ck					1.45						
		200' above Fall Ck					1.66						
		200' below Fall Ck					1.77						
		#6					1.89						
		50' above Fox Ck					1.81						
		100' below Fox Ck					2.09						
		#9					3.51						
		500' above dam					2.58						
		500' below dam					2.40						
		.1 mi. below Hansen					2.39						
		.9 mi. below Hansen					2.71						
		100' above Vasquez Ck					2.97						
		100' below Unknown Ck					3.35						
		3.2 mi below lodge					3.69						
		300' above Trail Cn					4.05						
		500' above USGS Sta.					3.83						
		300' below pipe Div.					4.38						
		.6 mi. below pipe div.					4.36						
		Mouth canyon					3.16						
		Highway bridge					.80						

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

Big Tujunga Creek

~~Big Tujunga Creek~~

Percolation

during the year ending September 30, 19

~~at~~
~~near~~

No.	Date	Made by	Width Feet	Area of section Sq. Ft.	Mean velocity Feet per sec.	Discharge		Rating Percent full	Method	Class.	Mean stage Feet	St. Ht. change	Time Total Hours	Meter No.
						Cu. Ft.	Sec. ft.							
1930														
22	2-27	Mouth of Canyon		2.35			3.16							
23		Highway Bridge		.94			.80							

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

Big Tujunga Creek

Percolation

during the year ending September 30, 1930

No.	Date	Made by	Width feet	Area of section Sq. ft.	Mean vel. ft. per sec.	Discharge		Gage height feet	Method used	Cost	Mean stage feet	G. H. change	Time Total Hours	Notes
						Feet	Sec. ft.							
1930 Bollinger														
1	4-10	Narrows	7.0	6.35			4.21							
2		50' above Lucas Ck	7.7	3.67			7.48							
3		125' below Lucas Ck	8.7	8.07			3.14							
4		150' above Fall Ck	14.4	4.30			4.04							
5		150' below Fall Ck	8.5	3.18			4.08							
6		Pt. below series of dry canyons & cones etc 1.3 mi. below Narrows												
			11.6	3.34			4.07							
7		50' above Fox Crk	13.6	6.17			4.57							
8		75' below Fox Ck	10.2	5.07			5.06							
9		700' above damsite	11.0	5.38			5.33							
10		800' below damsite	7.9	5.08			5.35							
11		1 mi below ^{Lodge} Hanson's	9.8	7.39			6.11							
12		J W Luce .1 mi below ^{Lodge} Hanson's	7.5	2.92			5.38							
13		500' above ^{Crk} Vasquez	11.5	5.81			6.02							
14		500' below " Crk	8.5	3.75			6.13							
15		1.6 in ^{Lodge} below Hansen	16.7	4.97			5.38							
16		Canyon 2.0 mi. below Hanson Lodge-Water entering estimate					.10							
17		3.1 mi. below Hansen	10.4	5.85			6.63							
18		100' above Trail Cn	6.5	1.34			1.04							
19		100' below Trail Cn	12.0	4.68			5.23							
20		Trail Creek 20' above Big Tuj.	4.5	.93			.47							

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. _____

Discharge measurements of

Percolation Measurements - Rio Hondo

River
Creek

at
near

Various Places

during the year ending September 30, 1930

No.	Date	Made by	Area of section		Mean velocity	Gage height	Discharge		Rating	Method	Coeff.	Meas. sec.	G. H. change	Time	Meter No.
			Width	Sp. ft.			Feet	Sec. ft.							
	1930	Jordan													962 282
*	5-7	Arroyo Ditch ^{Dam} at	9				3.10		.6			9		10:20a	"
*	5-7	At Dam	11				16.51		.6			11		10:35a	"
	5-7	Whittier Blvd.	13.8				11.3		.6			10		11:25a	"
	5-7	100' above ^{Ave.} Mines					0							12 n	"
		Lindsey													283 283
	5-8	3/8 mi below ^{bridge} SFRR	32.5				59.87		.6			9		9:55a	"
	5-8	400' below P.L.	28.0				35.72		.6			13		12:10n	"
	5-8	N.W. Line	24.0				31.36		.6			6		12:30n	"
		Lindsey													282 283
	5-13	3/8 below SFRR Br.	33.0				28.26		.6			9		9:50a	"
	5-13	150' below P.L.	10.0				8.47		.6			5		11:50a	"
	5-13	N.W. Lines	9.0				3.37		.6			5		12:30n	"
	5-13	Beck road	6.0				.85		.6			5		1:20p	"

* inflow
+ outflow

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. _____

Discharge measurements of

BIG TUJUNGA

~~Big~~
Creek

Percolation

during the year ending September 30, 19 **30**

at
near

No.	Date	Made by	Width feet	Area of Section sq. ft.	Mean Velocity m.p.h.	Discharge		Rating feet	Method	Coeff.	Gage No.	Actual Change	Time	Meters
						Est.	Sec'd.							
	1930													
1		C F Bollinger												
1	6-26	Mill Creek												
		100 ft. above mouth.	.80	.11			.05							
2	"	Big Tujunga												
		100' below Mill Ck	2.0	.35			.25							
3	"	Lower End Narrow	.30	.30			.24							
4	"	150' above Lucas Ck	1.8	.21			.11							
5	"	50' above Lucas Ck				est.	.03							
6	"	Falls on Fall Ck				"	.02							
7	"	Tujunga 150'												
		below Fall Ck.	1.7	.38			.29							
8	"	500' below Ed. Rd.	2.2	.43			.18							
9	"	100' below Edison Rd.	2.0	.29			.19							
10	"	150' below Fox Ck	2.2	.38			.38							
11	"	Fox Creek			V notched wier		.30							
12	"	Big Tujunga												
		700' above Dam #1	3.6	.54			.30							
13	"	500' below dam #1	10.3	1.84			.82							

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Map No. 272

Discharge measurements of

SAN GABRIEL

River

Percolation Measurements

during the year ending September 30, 1930

Date	Location	Area (Ac.)	Depth (ft.)	Percolation (in.)	Percolation (ft.)	Remarks
1930						
1/7	USGS Station 600' below Canal	23.5	12	1.98	8.77	
	Duarte		7.0		6.5	
3/17	Foothill Blvd.				232.3	
	NW Line				78.9	
	El Monte Blvd.				39.7	
	Valley Blvd.				14.0	
	Thienes Ave.				10.9	
	At Gate Ditch				28.7	
	At Standifer Head				50.4	
	Whittier Blvd.				41.8	
3/18	Foothill Blvd.				173.	
	NW Line				64.7	
	El Monte Blvd.				27.4	
	Valley Blvd.				6.7	
	D.F.R. Sta. Elliot Ave.				4.2	
	Thienes Ave.				3.7	
	Sluice Gate Gate Ditch				18.3	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

SAN GABRIEL

River

Discharge measurements of

Percolation measurements

during the year ending September 30, 1930

Station	Discharge (cfs)	Notes
Standifer Ditch	45.41	
Whittier	37.2	
3-193/8 mi. below SF bridge	65.33	
Santa Fe Bridge	137.6	
Foothill Blvd.	159.4	
NW Line	42.7	
El Monte Blvd.	4.9	
3/8 mi. above Valley Blvd.	0	
Durfee Rd.	.15	
Cate Ditch	10.9	
Standifer Ditch	34.1	
Whittier Blvd.	25.9	
3-20 Foothill Blvd.	145.7	
NW Line	33.4	
El Monte Blvd.	6.4	
1/4 mi. above Valley Blvd.	0	
Durfee Rd.	.15	
Cate Ditch	11.6	
Standifer Ditch	35.4	
Whittier Blvd.	25.4	
Santa Fe Bridge	136	
3/8 mi. below Santa Fe Br.	124.8	
Power Line	7.2	
NW Line	26.8	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

Discharge measurements of

SAN GABRIEL

Percolation Measurements

during the year ending September 30, 1930

Year	Location	Water Feet	Area of catchment Sq. Miles	Mean elevation Feet	Discharge		Total Discharge CFS	Remarks
					CFS	MGD		
1930								
3-20	Peck Rd.					13.0		
3-21	Foothill Blvd.					150.2		
	NW Line					46.7		
	El Monte Blvd.					2.51		
	3300 below El Monte Blvd.					0		
	Durfee Rd.					.15		
	Gate ditch					12.3		
	Standifer Ditch					35.7		
	Whittier Blvd.					25.5		
3-22	300' above Foothill Blvd.					104.7		
	Santa Fe Bridge					119.0		
	1500' below SF Bridge					56.0		
	NW Line					30.1		
3-25	Foothill Blvd.					196.6		
	Santa Fe Bridge					172.2		
	Split					80.3		
	Power Line					70.4		
	NW Line					24.0		
	Lower Azusa Rd.					21.1		
3-27	360' below Santa Ditch					23.6		
	U.P.R.R.					17.3		
	500' above Whittier Blvd.					15.6		
	Dunlap crossing					2.4		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of

SAN GABRIEL

River

Percolation Measurements

during the year ending September 30, 19

30

No.	Date	Location	Dist. from Gage	Dist. from River	Area Acres	Percolation Rate	Percolation Rate	Percolation Rate	Percolation Rate
1930									
3-31		460' below Santa Dam				28.4			
		U.F.R.R.				15.7			
		Whittier Blvd.				19.6			
4-2		Foothill Blvd.				70.1			
		Split				16.75			
		Power Line				7.12			
		NW Line				.48			
4-3		300' below Santa Div.				4.82			
		70' below Beverly Blvd.				3.36			
		1730' below U.F.R.R.				.69			
4-5		500' above El bridge				64.9			
		Valley Blvd.				47.5			
		600' below E & W R.R.				28.5			
		300' above Gate Ditch				42.12			
		Gate Ditch				4.46			
		Below Gate Ditch				42.5			
		E. San Gabriel				14.3			
		Above San Jose Ck.				47.2			
		Stanifer Ditch				6.4			
		200' below Stanifer Edg.				64.9			
		200' above Whittier Blvd.				59.6			
4-8		50' above RR				58.2			
		at old Cuarte Ditch				11.6			
		175' below Cuarte Ditch				1.53			

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDROGRAPHIC DEPARTMENT

Barbidge measurements of

SAN GABRIEL

Page 10

Percolation Measurements

During the year ending September 30, 1930

Year	Location	Percolation (inches)
1930		
4-8	Below pipe opening	18.3
4-9	50' above RR	56.9
	Old Quarte Ditch	11.3
4-10	50' above RR	56.3
	Old Quarte Ditch	11.4
	75' below Quarte Ditch	.92
5-5	El Monte Blvd.	26.4
	Valley Blvd.	6.76
	Elliot Ave.	3.63
	Thiese Ave.	1.91
5-6	Foothill Blvd.	187.6
	Split	74.7
	Power Line	83.2
	NW Line	43.4
	Lower Azusa Rd.	36.1
	900' above El Monte Rd.	7.4
5-7	400' above Foothill Blvd.	145.7
	Split	69.2
	NW Line	37.6
	Lower Azusa	35.9

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of **SAN GABRIEL**

River
Channel

Percolation Measurements during the year ending September 30, 19 **30**

No.	Date	Location	Width	Area of Cross- Section	Mean Depth	Mean Velocity	Discharge cfs.	Notes	Time Spent	Remarks
1930										
5-8		Foothill Blvd.					114.9			
		Split					45.3			
		Gladstone P.L.					38.1			
		N.W. Line					26.7			
		Lower Aruso Rd.					17.2			
5-13		Foothill Blvd.					49.6			
		Split					11.2			
		Gladstone P.L.					5.76			
		N.W. Line					1.20			
		Fish & Duarte Canal								
1-17		50' below Fthill Blvd.					.62			
		100' above Fish & Duarte Canal					.19			
		100' above Junction Fish with Duarte Canal					2.78			
5-12		San Diego								
		Covina Irr. Co. Waste					24.1			
		Citrus Ave. above pipe line					5.66			
		Citrus Ave. pipe								
		Line Discharge					17.18			

RUNOFF

1929-1930

F.C. Sta.	Station	Location	Runoff A. F.
81	Alhambra Wash	Garvey Ave. Bridge	635.02
38	Ballona Creek	Centinela Blvd. Culver. City	13478.94
21	Big Santa Anita Ck.	½ mi. below F.C. Dam	963.93
2	Brown's Canyon	Devonshire Ave.	0
41	Coyote Creek	Below P. e. Bridge--Artesia	730.44
37	Compton Creek	Rosecrans, Ave.--Compton	2521.87
62	Curson Canyon	Hollywood	0
53	Dume Creek	Roosevelt Hwy Bridge	218.13
67	Little S. Anita Ck.	Below F.C. Dam	8.54
19	Little Tujunga Ck.	Foothill Blvd.	0
65	Little Dalton Ck.	at Mouth of Canyon	85.46
31	Live Oak Ck	Near Mouth of Canyon	0
7	Los Angeles River	Universal City	16663.05
57	" " "	Dayton Ave. Bridge	1655.42
34	" " "	Steward & Gray Road	9727.49
5	" " "	Van Nuys Blvd. Bridge	1233.83
36	" " "	Willow St.--Long Beach	12369.15
22	Monrovia Ck.	Above Sawpit Creek	54.75
46	Nigger Slough	Wilmington Road	1918.82
16	Pacoima Wash	Parthenia St. Bridge	56.84
40	Puddingstone Creek	Below F.C. Dam	30.42
83	Rio Hondo Slough	At San Gabriel Blvd.	12286.49
64	Rio Hondo	Above Mission Bridge	13426.35
45	Rio Hondo	At Steward & Gray Rd.	2004.14
82	Rubio Wash	Broadway St. Bridge	1060.35
33	San Antonia Ck	Upper Spreading Diversion	410.25
100	San Gabriel Spd. Ditch		7578.53
42	San Gabriel River	Spring St.	0
63	" " "	Whittier Blvd. Bridge	3488.59
99	" " "	Bear Ck.	7655.74
96	" " "	East Fork	24849.61
98	" " "	North Fork	2971.74
P 2	" " "	East Fork P.W.D. Sta.	21536.14
P 1	" " "	West Fork	18468.63
97	" " "	West Fork	7786.77
28	" " "	Edison Intake	46825.05
48	San Jose Creek	Workman Mill Rd.	820.64
92	Santa Clara River	At Old Highway Bridge	792.67
43	Sycamore Storm Drain	Upper Station	160.37
44	" " "	Lower Station	352.57
54	Topanga Creek	At Highway Bridge	647.48
9	Verdugo Storm Drain	Glen Oaks Blvd.	274.17
47	Walnut Wash	Covina Blvd.	526.47

RUNOFF

1929-1930

F.C. Sta.	Station	Location	Runoff
U.S.G.S. Stations			
U 1	Arroyo Seco	Near Pasadena	1600.00
U14	Big Rock Creek	Near Valyermo	6160.00
U 4	Big Santa Anita Ck.	Near Sierra Madre	1280.00
U 9	Big Dalton Creek	Near Glendora	77.20
U11	Big Tujunga Ck.	Near Sunland	4350.00
U 2	Eaton Creek	Near Pasadena	224.00
U7	Fish Creek	Near Duarte	1070.00
U 12	Haines Creek	Near Tujunga	.89
U 3	Little Santa Anita Ck	Near Sierra Madre	149.00
U13	Pacoima Ck.	Near San Fernando	957.08
U 6	Rogers Creek	Near Azusa	531.00
U 8	San Gabriel	Near Azusa	46200.00
U15	San Antonio Creek	Near Claremont	9570.00
U10	San Dimas Creek	Near San Dimas	825.00
U 5	Sawpit Ck.	Near Monrovia	126.00