LOS ANGELES FLOOD CONTROL DISTRICT

RAINFALL AND RUNOFF REPORT

SEASON-1931-1932

MAY 15, 1933.

Los Angeles County Flood Control District

HYDROGRAPHIC DEPARTMENT

REPORT TO E. C. EATON, CHIEF ENGINEER

ON

RAINFALL AND RUNOFF

IN LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

SEASON 1931-1933

H. E. Hedger, Office Engineer
F. H. Hay, Chief Hydrographer

May 15, 1933.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
202 NORTH BROADWAY
LOS ANGELES, CALIFORNIA

E. C. EATON
CHIEF ENGINEER

May Fifteenth
1933

Subject: Rainfall-Runoff Report
Season 1931-32
General

Honorable Board of Supervisors,
L. A. County Flood Control District,
501 Hall of Records,
Los Angeles, California.

Gentlemen:-

There is transmitted herewith for your files your Los Angeles County Flood Control District's Rainfall-Runoff Report for the season 1931-32.

This season, averaging as it did 113% of normal mountain Rainfall and 114% of normal valley and Coastal Plain Rainfall permitted the collection of the most comprehensive series of actual records yet obtained by the District. The total Runoff of the San Gabriel River for this season exceeded the combined total runoff of the three previous years.

In selecting the location of the measuring stations a coordinated series of records has been the aim, to obtain relations between rainfall and the runoff produced from typical areas.

Summarized the records include:

Rainfall:

The Report includes complete measurements from 237 Rainfall Stations as follows:

District owned (privately operated) Standard gage	136
District owned automatic recording gages accompanied by privately owned Standard gage	8
Stations with gages owned by public or private agencies operated cooperatively	93
	237

Runoff:

Records from

55 District Automatic Recorder Stations.
14 Automatic Recorder Stations operated cooperatively by the U. S. G. S. and the District.
3 Cooperatively operated with other agencies.
125 District Staff Gage Stations.
6760 District Stream Measurements.

Records at Dams:

6 District Automatic Gages Recording Inflow to and Outflow from 6 Reservoirs.
10 Automatic water stage recorders, recording water elevations on 10 dams.

Evaporation Records:

26 Stations.

Percolation Measurements:

A series of 176 percolation measurements on various streams, some of which show percolation rates in second feet per wetted unit of area.

Flood Peaks:

From the automatic recorders a series of 91 flood peak records have been obtained which are included in the report.

Actual measurements are much more valuable than purely theoretical computations and the greater the number of authentic actual records collected the more accurately and efficiently can flood control and conservation works be designed. The continuation of the collection of data without break in continuity is strongly recommended to your Honorable Board.

We desire to express our appreciation of the cooperation received from Cities, Federal, State and County Departments and Public Service Agencies; also our appreciation for the voluntary services rendered by over 100 persons through whose cooperative aid the collection of these basic data has been possible.

Yours very truly,

E. C. EATON
Chief Engineer

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C
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A
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Los Angeles County Flood Control District

HYDROGRAPHIC DEPARTMENT

May 15, 1933.

E. C. Eaton

Chief Engineer

Los Angeles County Flood Control District

Los Angeles, California.

Dear Sir:

Attached hereto please find Report on "Rainfall and Runoff in Los Angeles County Flood Control District for Season 1931-1932" composed of data collected by the Hydrographic Department.

F. H. Hay,

Chief Hydrographer.

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RAINFALL AND RUNOFF REPORT - 1931 - 1932

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RECORDER STATION DATA ARRANGED ALPHABETICALLY

U.S.G.S. STATIONS

The Hydrographic Department co-operates in the operation of these Stations.

STAFF GAGE STATION DATA ARRANGED ALPHABETICALLY

F.C. No.	Station	Located At	Pages
116S	Arroyo Ditch	½ Mile North of Whittier Boulevard	160
58S	Arroyo Seco	Avenue 26 Bridge	160-161
157S	Arroyo Sequis	Roosevelt Highway Bridge	161
87S	Banta Ditch	At Head of Pipe Line	163
166S	Ballona Creek	Jacob Street	162
156S	Ballona Creek-East Branch	Below Adams Street	161-162
150S	Benedict Canyon	Oakhurst Street Palms	162
128W	Big Rock Creek	300' below Monte's	163
143S	Big Rock Creek	300' above Pallette Creek	163
177S	Big Tujunga Creek	Below Damsite No.2	165
168	Big Tujunga Creek	Below Dam No.I	164
167S	Bull Creek	San Fernando-Mission Bridge	165
84S	Cate Ditch	Below Headgate	165
173S	Clear Creek	Near Junction with Big Tujunga	166
184S	Devil's Canyon Creek	Above Junction with San Gabriel River	166
132S	Gavin Canyon Creek	At Weldon Canyon Highway	166
174S	Hansen Canyon	Near Big Tujunga	167
60S	Las Virgines Creek	At Colyear Dam	167
6S	Los Angeles River	At Whitsett Avenue Bridge	167
L.A.1S	Los Angeles River	At California Street	168
176S	Maple Canyon	Near Junction with Big Tujunga	168
158S	Nicholas Canyon Creek	Roosevelt Highway Bridge	168
15S	Pacoima Wash	At Van Nuys Boulevard	169
17S	Pacoima Wash	At San Fernando Road	169
121S	Pallette Creek	1 Mile above Big Rock Creek	169
122S	Pallette Creek	At Big Rock Creek	169
129S	Rice Canyon Creek	At Weldon Canyon Highway	170
91S	San Dimas Creek	Above Flood Control Dam	171
25S	San Gabriel River	Bear Creek at Mouth	171
206S	San Gabriel River-West Fork	Above Devil's Canyon	171
209S	San Gabriel River-West Fork	Below No.2 Damsite	171
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55S	Santa Monica Canyon	At North Channel Road	173
185S	Sepulveda Creek	Charnock Road	173
188S	Slauson Storm Drain	At Cochran Avenue	173
85S	Standifer Ditch	Below Headgate	174
169S	Trail Canyon	Above Big Tujunga Creek	175
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148S	Weldon Canyon Creek	½ Mile above Fremont Canyon	175

MISCELLANEOUS MEASUREMENTS OF STREAMS IN LOS ANGELES COUNTY

PERCOLATION

PERCOLATION DATA

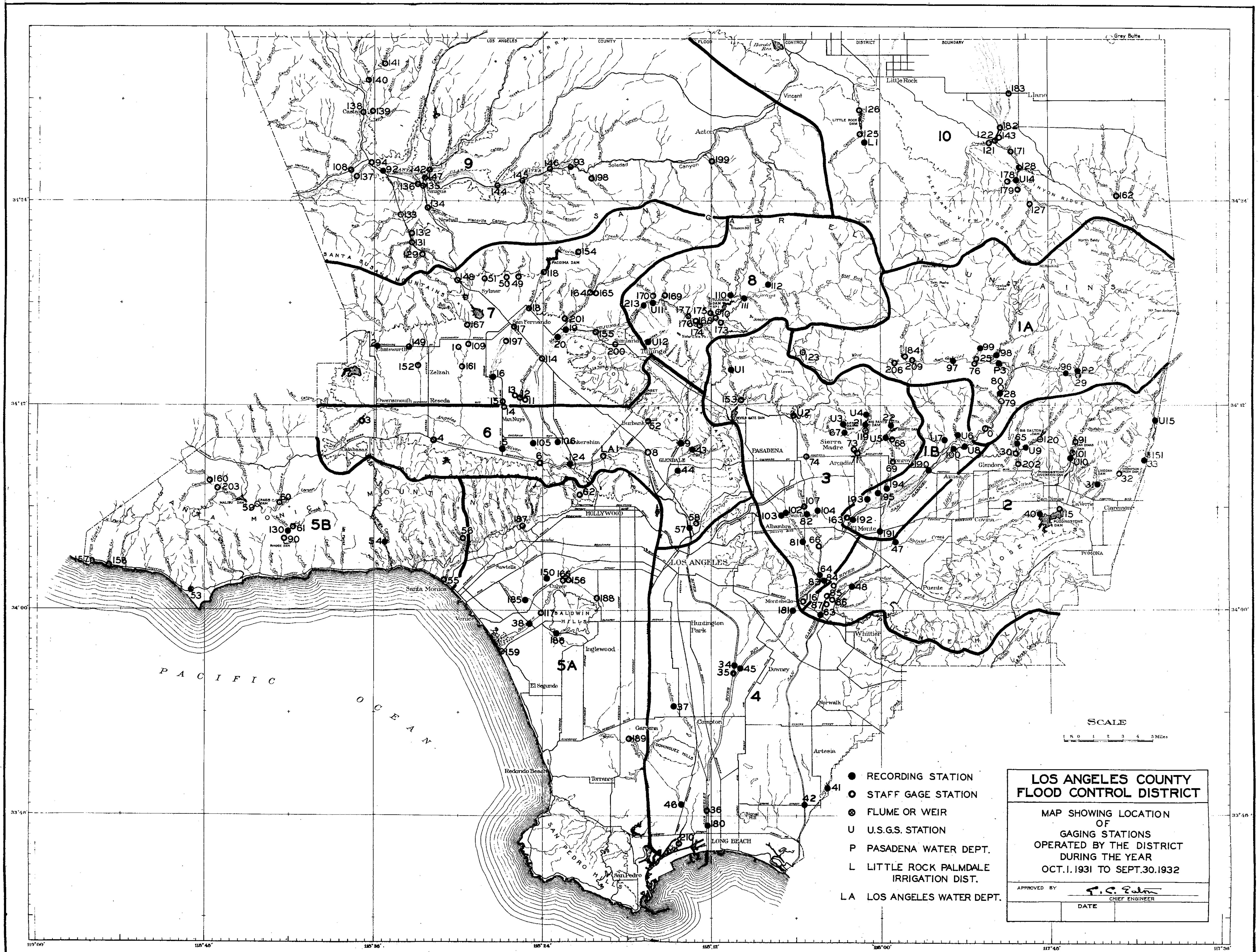
PERCOLATION DATA

PERCOLATION DATA

PERCOLATION DATA

PERCOLATION DATA

PERCOLATION DATA



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
MAP SHOWING LOCATION OF GAGING STATIONS OPERATED BY THE DISTRICT DURING THE YEAR OCT. 1. 1931 TO SEPT. 30. 1932
APPROVED BY
CHIEF ENGINEER
DATE
● RECORDING STATION
○ STAFF GAGE STATION
⊗ FLUME OR WEIR
U U.S.G.S. STATION
P PASADENA WATER DEPT.
L LITTLE ROCK PALMDALE IRRIGATION DIST.
LA LOS ANGELES WATER DEPT.
SCALE
PACIFIC OCEAN
LOS ANGELES
PASADENA
HOLLYWOOD
LONG BEACH

Los Angeles County Flood Control District

REPORT TO E. C. EATON, CHIEF ENGINEER
ON
RAINFALL and EVAPORATION

SEASON 1931-32.

The rainfall for the Season 1931 - 32 was above normal for the first time since 1926 - 27. The U.S.W.B. Station at Los Angeles recorded 16.83 inches of rain, or 10% above the 60 year normal of 15.29 inches.

The rainfall at Colby's Ranch was 30.78 or 93% of the 35 year normal. This station has the longest record of any mountain station reporting to the District. Mt. Wilson with 28 years of record had 32.09 inches or about 2% above normal. In general, the mountain rainfall was approximately normal.

The record of Kelly's Kamp is interesting and is the largest for any station from which the District receives reports. The Season total was 65.73 inches, of which 30.42 inches fell during February.

The total snowfall at Kelly's Kamp for the season was 396 inches, with 187 inches in February. As late as June 1, there was 24 inches on the ground. As the season 1931 - 32 was the first season with a complete record it is impossible to determine a normal amount.

This station is located in the San Antonio watershed at an elevation of 8300 feet.

STATISTICS:

The following data will serve to give an idea of the status of precipitation stations during the season 1931 - 32:

(1) Stations reporting during season - 311.

(2) F. C. Stations active during season:

Standard or Can and Glass Graduate gages - 190
Automatic - (Fergusson) gages - 38
Special automatic gage - 1

(3) Stations with F. C. Auto gage but private standard gage - 10.

(4) Complete seasonal reports:

F. C. Standard Stations	121
F. C. Auto - Pvt. standard	8
Private cooperative station	93
F. C. - Can and Glass graduate station	15
Total	237

(5) Incomplete Reports

REASON		NUMBER of STATIONS
(a)	Station discontinued	10
(b)	Station established after 10/1/31	16
(c)	No observer at station full time	16
(d)	Station or records neglected	11
(e)	Records not sent in	13
(f)	Gage stolen	1
(g)	Observer died	1
(h)	Observer in jail	1
(i)	Sickness	1
(j)	Miscellaneous	2
	Total	72

(6) Gage ownership and Type

Gage ownership		Type	Number of Gages
(a)	Flood Control	Std. 8"	151
		C.G.G.	32
		Auto-Ferg 9" cap.	31
		Auto-Ferg 12" cap.	7
		Special auto.	1
(b)	Los Angeles Water Dept.	Std. 8"	16
(c)	U. S. Weather Bureau	Std. 8"	10
(d)	City of Long Beach	Std. 8"	5
		Automatic	1
(e)	City of Beverly Hills	Std. Type 5"	1
		Auto-Ferg 9" cap.	1
(f)	Cal. Botanical Gardens in Mandeville Cany.	Std. 8"	4
(g)	So. Pacific R. R. Co.	Std. Type 3"	4
(h)	So. Calif. Edison Co.	Std. Type 8"	2
		Std. Type 3"	1
(i)	(L. A. Rec. Dept. (County	Std. Type 8"	6
(j)	L. A. Co. Survey-Storm Drain Div.	Auto-Ferg 9"	3
(k)	Standard Oil Co.	Std. 8"	1
		Std. Type 3"	1
(l)	Palos Verdes Estate	Std. 8"	2
(m)	Pomona Valley Prot. Ass'n.	Std. 8"	2
(n)	L. A. Co. Forestry Dept.	Std. 8"	1
(o)	State of Calif.	Std. 8"	6
(p)	U. S. Dept. of Commerce	Std. Type 3"	1
(q)	Miscellaneous - individuals, towns, cities, etc.	Std. 8"	39
		5"	4
		3"	16
		dial type	2

We wish to express our appreciation of the service rendered to the District by the many cooperative observers who have furnished us with much of the material in this report.

TABLE I.

1931-32 MONTHLY RAINFALL SUMMARY

ALL MEASUREMENTS IN INCHES

No.	GAGE TYPE & OWNER	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	TOTAL
1	S	Decker's Ranch	-	1.80	11.36	1.81	6.44	0	0.02	Record unreliable					Inc
2	S	Escondido Patrol	0.02	2.80	9.36	3.06	5.39	0	N.R.	0	0	0	0	0.09	Inc
3	S	Seminole Hot Spr.	0	3.52	8.79	3.95	7.58	T	0.20	T	T	0	0	0.10	24.15
4	SpA	Crag's Co. Club	0.30	4.42	8.95	4.97	6.38	0.03	0.13	T	0.06	0	0	0.26	25.51
5	Sp	Calabasas	0.16	2.61	6.36	2.54	6.95	0.05	0.22	0.19	0.10	0	0	0.50	19.68
6	S.A.	Topanga Malibu Hdqts.	0.56	3.78	9.87	5.33	7.91	T	0.41	0.07	0	0	0	0.14	28.07
7	CGC	Bel Air Bay Club	0.04	1.26	4.53	2.59	4.30	0	0.65	0.03	0.12	0	0	0.07	13.59
8	S-CGC	Mandeville Canyon	0.32	2.28	8.18	2.77	6.62	0.01	0.91	T	0.18	0	0	.26	21.53
9	Scw	Sepulveda & Chase	0.07	2.41	5.80	1.09	7.89	0.02	0.82	0.21	0.02	0	0	0.14	18.57
10	S A	Bel-Air	0.34	2.24	7.96	2.97	6.44	0	0.80	0.08	0.11	0	0	0.26	21.20
11	Scw	Upper Franklin Res.	0.15	2.49	7.08	2.63	7.43	0	0.94	0.12	0	0	0	0.24	21.18
12	S	Franklin-Mulholland	0.16	2.64	7.26	3.35	7.35	0	0.68	0.32	0.04	0	0	0.23	22.03
13	Sp 3"	North Hollywood	0.25	2.69	5.96	1.27	9.22	0	0.55	0.10	0.13	0	0	0.13	20.30
14	Scw	Roscoe-Merrill	0.19	2.47	5.63	2.61	7.57	0.01	0.87	0.15	0.09	0	0	0.11	19.70
15	Scw A	Van Nuys Water Whse.	0.18	2.46	5.83	1.14	8.38	0.02	0.71	0.25	0.04	0	0	0.10	19.11
16	S	Cahuenga Park	0	3.11°	7.53	3.53	9.64	0	0.53	0.13	0.06	0	0	0.28	24.81
17	S	Sepulveda-Muhol	0.25	3.65	8.48	3.36	8.10	0	0.56	-	-	0	0	0.30	Inc
18	S	Adohr Dairy	0.09	2.77	6.61	3.22	6.14	0.04	0.20	0.17	0.07	0	0	0.25	19.66
19	S	Topanga Summit	0.37	3.25	6.37	4.31	6.21	0	0.20	0.09	0.21	0	0	0.33	21.34
20	S	Girard	0.13	2.32	6.12	1.93	6.87	0.06	0.35	0.07	0.14	T	T	0.34	18.33
21	S A	Brant Rancho	0.17	2.25	6.88	2.88	6.80	0.05	0.27	0.09	0.22	0	0	0.28	19.99
22	S	Johnson-Woodruff	0	2.10	7.13	1.90	6.39	T	0.32	0	0.11	0	0	0.24	18.19
23	Scw	Chatsworth Res.	0.15	2.02	6.47	1.61	5.94	0.10	0.20	0.23	0.11	0	0	0.03	16.86

° 16 A - 1.62 16 B - 1.49 Gage moved.

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
24	S	Chatsworth	0	2.74	7.40	2.42	5.70	0.20	0.21	0.40	0.16	0	0	0.32	19.55
25	Sp	No.L.A.(Zelzah)	0	2.67	6.19	2.57	5.29	0.14	0.44	0.22	0.15	0	0	0.26	17.93
27	S	W. D. Miller	0	2.26	6.32	2.08	7.54	0							Inc
28	Sap	San Fernando Miss.	0.22	3.25	6.80	1.46	8.39	0.28	0.89	0.37	0.10	.01	0	0.08	21.85
29	S A	Granada	0.23	3.62	7.26	2.82	6.61	0.31	0.55	0.27	0.13	0	0	0.04	21.85
30	Scw	Sylmar	0.11	3.28	5.86	2.80	7.00	0.40	1.41	0.14	0.12	0	0	0	21.12
32	S	Newhall	0.12	2.81	6.42	4.10	8.03	0.15	0.39	0.18	T	0	0	0.07	22.27
33	S A	Pacoima Dam	0.24	2.61	7.36	2.21	9.47	0.22	1.26	0.36	0.36	0	0	0.07	24.16
34	Swb	Dillon's Ranch	.16	3.18	7.53	2.52	9.92	0.35	1.37	0.39	0.32	0	0	0.12	25.86
36	S	Kagel Canyon	0.25	2.45	6.44	1.10	7.45	0.22	-	0.15	-	-	-	-	Inc
39	S	Sunset Cn.Co.Club	0.32	2.63	4.96	3.32	9.33	0	1.55	0	0	0	0	0.15	22.26
41	A Sp	Alta Canyada	0.64	3.12	7.71	4.12	8.86	0	1.29	-	-	-	-	-	Inc
42	Sp	Redondo	0	0.94	5.09	1.20	4.24	0	0.12	0	0	0	0	0.29	11.88
43A	- Sp	Palos Verdes Office	0	1.11	6.02	2.02	4.56	0.06	0.15	0.01	0.07	-	-	0.17	14.17
43B	Sp	Palos Verdes Club	0	1.12	6.00	2.10	4.54	0.03	0.10	0.03	0.06	-	-	0.17	14.15
44	Sp 3"	Point Vicente	0	0.94	4.99	1.95	4.37	0	0.27	0.07	0	0	0	0.27	12.86
45	S	Wildwood Lodge	0.75	2.38	7.11	2.06	14.06	0.20	1.22	-	0.41	0	0	-	Inc
46	S	Big Tujunga Dam #1	0.82	4.87	8.80	2.90	14.83	0.10	1.46	0.29	0.20	0	0	.05	34.33
47	S A	Clear Creek	1.28	4.32	9.31	2.46	12.99	0.10	1.52	0.29	0.75	0	0	0	33.02
48	S	Oak Wilds	0.88	4.20	10.07	6.12	10.20	0	2.28	N.R.	0	0	0	N.R.	Inc
49	Sp	Altadena-Chiesa	0.42	3.33	6.99	2.55	8.45	0.21	0.91	0.08	0.27	.01	0	0.15	23.17
50	S	Arroyo Seco Pa.Sta.	0.42	3.11	6.96	2.03	8.52	0.26	1.28	0.11	0	0	0	0.19	22.88
51	S A	La Cienega	2.74	5.98	8.45	2.89	17.98	0.44	1.07	0.48	0.83	0	0	T	40.86
52	S	Switzer's Camp	1.00	3.96	8.12	2.64	9.06	0	1.48	0.45	0.35	0	0	.09	27.15
53	A S	Colby Ranch	0.90	3.77	8.13	1.62	14.14	0.18	1.04	0.22	0.78	0	0	T	30.78
54	Ap Sp	Loomis Ranch	0.56	2.90	6.06	1.59	10.08	0.10	0.72	0.07	.68	0	0	.02	22.78
56	S A	Valley Forge	1.85	7.40	14.95	4.00	20.05	0.40	Inc	0	0.20	0	0	0	Inc
57	A Sp	Opid's Camp	1.30	7.65	12.69	3.74	19.74	0.20	1.03	0.31	0.48	0	0	.01	47.15
58	S	Sturtevant Camp	0.87	8.87	12.86	3.61	17.78	0.20	1.30	0.27	0.58	0	0	.07	46.41

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
59	CGC	Mt. Wilson-Oak	1.14	5.60	9.61	10.81	18.36	0.80	0.87	0.46	0.12				46.99
			0.70	4.03	6.57	9.77	17.70	0.14	0.63	0.33	0.07				38.94
			1.38	7.25	10.98	7.98	16.62	0.16	1.08	0.84	0.51				46.01
60	S A	Hoegee's Camp	1.06	7.23	14.93	3.63	19.45	0.80	1.76	0.71	0.68	0	0	0.24	50.19
61	S	Robert's Camp	0.97	4.78	9.61	2.82	14.93	0.27			0.38	0	0	.09	Inc
62	S	Big Santa Anita R.	0.99	4.91	10.80	4.74	18.14	0.25	1.27	0.22	0.43	0	0	.02	35.77
63	S	Santa Anita Dam	0.81	3.57	8.91	2.04	10.65	0.42	0.82	0.17	0.45	T	0	.10	28.14
64	S	Clark's Bay Rse.	0.80	3.79	7.99	2.26	10.81	0.09	1.00	0	0.54	0	0	0.10	27.38
65	A Sp	Sierra Madre-Hers.	0.63	3.49	7.67	4.63	7.52	0.23	1.08	0.11	0.52	0	0	0.14	26.12
66	S	Sierra Madre-Reg.	0.27	3.10	7.53	2.59	9.62	0.08	0.59	0	0.40	0	0	0.25	24.43
68	S	Sawpit Forks	0.78	4.25	11.05	1.76	11.67	0.30	0.76	0.13	0.50	0	0	0.08	31.28
69	S	Sawpit Canyon	0.89	4.68	12.73	1.53	15.69	0.27	1.45	0.20	0.51	0	0	0.15	38.10
70	S A	Dalton #1	0.59	0.74	7.77	1.27	9.88	0.28	0.65	0.04	0.40	0	0	.05	24.67
73	S	Glendora-Englehart	0.67	3.61	8.62	1.93	10.34	0.28	0.67	0.09	0.46	0	0	0.02	26.69
74	S	Big Dalton R.S.			6.50	0.86			1.04						Inc.
75	A Sp	Edison Intake	1.79	4.75	9.62	2.26	12.47	0.10	1.12	0.01	0.38	0	0	.02	33.62
76	S	San Gabr.Forks R3	2.34	4.28	8.85	3.54	12.30	0.11	1.23	0.05	0.39	0	0	0	35.09
78	S	Coldbrook	2.75	5.69	7.86	2.79	16.09	0.26	N.R.	0	0.69	0	0	0	Inc
80	S A	Prairie Forks	1.68	3.56	7.31	1.41	14.87	0.34	1.05	0.29	0.73	0	0	0.20	31.44
82	S	Table Mt. Obs.	1.26	1.61	3.04	0.49	9.19	0.07	0.41	0.10	0.73	T	0	0.46	17.38
83	S A	Big Pines Camp	1.34	3.78	7.42	1.76	16.15	0.24	0.85	0.18	0.86	0	0	0.44	33.02
85	Sp A	Camp Baldy	2.36	5.05	9.45	2.47	20.18	0	1.05	0.12	0	0	0	0	40.68
87	S	San Dimas Cn.R.S.	1.04	3.51	9.82	3.01	13.20	0.15	0.96	0.05	0.35	0	0	.02	32.11
88	S	Wolfskill Falls	1.26	3.32	9.05	2.04	13.87	0.26	1.71	0	0.40	0	0	.03	32.14
89	S	San Dimas Dam	1.16	2.89	7.71	3.04	10.25	0.29	0.85	0	0.36	0	0	0.02	26.57
90	S	Brydon Rch.	1.08	3.49	9.43	2.43	11.65	0.25	0.90	0	0	0	0	0	29.23

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
91	S	Indian Hill	0.18	2.74	6.54	1.21	10.11	0.10	0.70	0.02	0	0	0	0	21.60
92	SA	Pomona College	0.66	2.87	7.15	2.97	8.15	0.21	0.71	0.12	0.15	0	0	0	22.99
93	S	Claremont Fire St.	0.79	2.54	6.25	1.34	9.46	0.17	0.82	0.19	0.25	0	0	T	21.81
94	S	Charter Oak Fields	1.06	3.23	6.81	1.69	8.80	0	0.71	0.21	0.41	0	0	0	22.92
95	S	San Dimas Fire St.	0.74	2.81	6.54	1.50	9.59	0.12	0.81	0.11		T	0	0.01	22.23
96	S	Puddingstone Dam	0.85	2.72	5.82	1.21	8.74	0.08	0.59	0.37	0.20	0	0	T	20.58
97	S	San Dimas-Ferg.	0.66	2.95	6.91	1.57	10.41	0.12	0.81	0.10	.33	0	0	0	23.86
98	Sp	Azusa	0.32	3.36	7.20	2.00	8.60	0.22	0.51	0	0.35	0	0	0 .03	22.59
99	S	Azusa Ft.Hill Rch.	0.48	3.38	7.22	1.47	9.57	0.21	0.23	0	0.34	0	0	0.05	22.95
100	Sp	Fish Canyon	0.56	4.49	8.68	6.12	8.81	0.67	1.10	0.24	0.42	0	0	0.04	31.13
101	S	West Covina	0.32	2.94	6.99	1.91	7.47	0.09	0.38	0	0.19	0	0	0.27	20.56
102	S	Walnut	0.73	2.09	7.78	2.51	6.92	0	0.35	0	0.08	0	0	T	20.46
103	S	E.Whittier Menden.	0	2.41	5.76	2.60	4.19			Gage removed					Inc
104	Sp	E.Whittier-Cole	0.21	1.78	7.68	.38	5.19	0	0.26	0	0	0	0	0	Inc
105	S	E.Whittier-Sharples	.22	2.34	5.77	1.71	5.82	0.11	0.36	0	0.06	0	0	.09	16.48
106	S	Whittier City Eng.	0.09	2.41	5.45	1.46	5.38	0.08	0.37	T	0.10	0	0	.05	15.39
107	S A	Downey	0	1.69	5.47	2.06	4.45	0.07	0.45	T	0.15	0	0	0.01	14.74
108	S	El Monte C of C	0.36	2.58	7.20	2.87	1.08	0.07	0.31	0	0.15	0	0	.36	15.00
109	S	W.Arcadia	0.16	2.52	7.13	4.84	6.29	0.18	0.29	0	0.40	0	0	0.20	22.01
110	S	Alhambra City Hall	0.06	2.47	7.04	2.10	6.52	0.13	0.28	0.01	0.29	0	0	0.31	19.21
111	Sp	So.Pasadena	0.11	2.62	6.26	2.12	7.30	0.08	0.11	0.22	0.28	T	0	0.15	19.25
112	S	Sycamore Canyon		2.47	6.61	1.98	7.22	0							Inc
114	S	Rosecrans Rch.	0.05	1.27	5.02	2.25	3.57	0	0.24	0	0.15	0	0	.10	12.65
116	Sp	Inglewood H.S.	0.14	1.51	5.76	1.41	5.13	0.03	0.32	0.06	0.13	0	0	0.01	14.50
117	S	Compton	0	1.22	5.36	1.22	5.65	0.27	0.38	0		0	0	.09	Inc
118	S	Wilmington City H.	0.08	1.25	6.92	2.29	4.49	0.03	0.16	0.01	0.06	0	0	.21	15.50
119	Sp	Soldier's Home	0.10	1.84	5.90	1.89	5.11	0	0.50	0	0.12	0	0	.01	15.47
120	S	Vincent Patrol Sta	0.36	0.15	3.12	.94	5.65	0.07	0.45	0.30	0.55	0	0	0.25	11.84
121	S	Lancaster	0.32	1.14	2.55	1.00	4.52	T	T	0.03	0.59	0	0	.80	10.95
122	S	Rouff Rch.	0	2.98	5.76	1.63	11.64	0.25	0.43	0	0	0	0	0.75	23.44

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
123	Sp	Munz Ranch		T	2.99	5.47	2.53	13.65	0	0.75	0	.30	0	0	0.28	25.97
124	S	Bouquet Canyon	0.40	3.12	5.60	2.16	9.81	0.28	0.72	0	.38	0	T	0.22	22.69
125	Scw	Power House #1	.29	3.83	6.86	2.09	11.23	.20	.74	.28	.38	0	0	.05	25.95
126	S	Venice City Yds.	0.16	1.72	6.20	2.44	4.04	0	0.52	T	0.15	0	0	0.26	15.49
127	Scw	Dry Canyon Res.	0	1.56	3.62	1.87	4.70	0.14	0.26	0.21	0.10	0	0	0.12	12.68
128	S	Radium Hot Sprgs.	0.24	3.53	7.69	1.89	9.14	Raingage removed 6/23							Inc
130	S A	Sandberg	0.04	3.62	4.89	2.79	6.83	0	0.70	1.13	0.12	0	0	.30	20.42
131	S	Tejon Ranger Sta.	0.07	Station discontinued 3/30/32											Inc
134	S	San Dimas-Stevens	0.62	2.83	7.21	1.72	10.41	0.19	0.66	T	0.33	0	0	T	23.97
135	S	Norwalk	0.16	2.20	5.50	1.88	4.55	0.11	0.23	0	0.02	0	0	0.06	14.68
136	S	Hollywood	0.18	2.04	6.14	2.74	5.33	T	0.50	0.02	0.13	0	0	0.29	17.37
137	S	Curson	.23	2.76	6.79	2.89	6.29	0	0.56	T	0.15	0	0	.37	20.04
139	Scw	L.A.W.D.	0.08	1.89	5.62	2.65	4.74	0.03	0.29	0	0.17	0	0	0.12	15.59
140	S	W. Los Angeles	0.25	1.66	7.32	2.26	5.12	T	0.62	0.03	0.17	0	0	0.27	17.70
141	S	Devil's Gate									0.28	Gage removed			Inc
143	S	Azusa C of C	0.49	3.36	7.18	4.13	5.99	0.23	0.47	T	0.31	0	0	0.02	22.18
144	S	Sierra Madre Dam	0.58	3.43	7.94	1.50	12.09	0.38	1.13	0.06	0.50	0	0	0.08	27.69
145	Sp	Mandeville Canyon	0.30	2.34	8.79	3.09	7.17	0.01	0.94	0.01	0.22	0	0	.32	23.19
147	Sp	Mandeville Canyon	0.30	3.45	8.65	3.62	8.84	T	0.55	T	0.16	0	0	.30	25.87
148	Sp	Mandeville Canyon	0.31	2.34	9.07	3.24	7.47	T	0.85	T	0.29	0	0	.35	23.92
149	Sp	Mandeville Canyon	0.40	3.29	10.04	3.77	8.95	0.02	0.63	0.01	Inc	0	0	.30	27.41
150	S A	Monrovia Falls	1.02	4.81	10.20	1.83	14.75	0.14	1.33	0.18	0.50	0	0	0.14	34.90
151	a CGG	Curson	-	1.24	6.74	0.98	7.48	0	0.52	0	-				Inc
	b CGG	Curson	-	-	4.34	0.97	7.93	0	0.54	0	-	0	0	.25	Inc
154	CGG	Mt .Wilson-Pine op.	1.32	5.42	7.83	2.17	12.82	0.13	0.89	0.21	0.26	0	0	.13	31.18
	CGG	" .Wilson-P. Trunk	2.47	10.81	21.42	12.02	30.65	0.54	2.50	0.96	0.45	0	0	.07	81.89
	CGG	" .Wilson-P.S.Lim.	1.93	9.66	17.40	12.42	30.36	0.55	1.79	0.97	0.40	0	0	.03	75.51

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
187	CGG	San Dimas-Mount	0.74	2.83	6.56	1.89	9.27	0.13	0.66	0.13	.32	0	0	0	22.53
188	Sp 5"	San Dimas-Howard	0.64	2.84	6.84	1.52	10.07	0.13	0.77	0.12	0.38	T	0	0	23.31
192	S	Bell Fire Dept.	0.17	2.36	5.56	1.91	4.64	T	0.31	T	0.11	0	0	0.21	15.27
193	S	Covina-Temple	0.51	3.04	6.35	1.86	7.70	0.17	0.37	0.24	0.14	0	0	0.08	20.46
194	Sp 3"	Covina-Evans	0.45	2.98	6.22	1.44	7.91	0.12	0.40	0.19	0.21	0	0	0.12	20.13
195	Sp	Claremont-Bernard				7.87	1.45	12.54	0	0.34					Inc
196	Sp 3"	La Verne Leader	0.74	2.69	6.29	1.03	9.23	0.16	0.92	0.13	0.36	0	0	T	21.55
198	Sp 3"	Brand Estate	0.24	2.81	6.01	2.20	8.72	T	1.05	0.02				.10	
199	S	Huntington Park	0.09	2.07	5.74	3.00	3.52	0	0.31	T	0.24	0	0	0.19	15.16
200	Sp 3"	Saugus S.C.E.	0.07	2.34	4.69	2.36	5.86	0.16	0.18	0.38	0.06	0	0	T	16.10
201	Sp	Puente-Hills	0.14	2.45	7.67	2.51	5.60	0.05	0.38	0	0.14	0	0	0	18.64
203	Sp 3	Whittier S.P.Sta.	0.10	2.41	5.44	2.26	4.33	0.15	0.41	0	0.14	0	0	.03	15.17
204	S	Walnut-Graffin	0.88	2.80	6.43	1.03	7.78	.03	.52	.41	0.05				Inc
205	Sp	Puente S.C.E.Co.	0.37	2.40	7.19	1.69	6.61	0.06	0.47	T	0	0	0	.04	18.83
206	S	Valencia Htgs.	-	2.58	6.63	1.47	7.42								
208	Sp 5"	Artesia	0.07	2.06	5.31	1.35	5.19	0.01	0.41	0	0	0	0	0	14.40
209	S	Big Tujunga S.C.E.	0.70	6.00	7.03	1.55	10.34	0.03	1.15	0.13	0.41	0	0	0	27.34
210	S A	Brand Park	0.26	2.79	6.44	3.37	7.47	0	1.00	T	0.23	0	0	0.16	21.72
211	CGG	Brand Park	-	2.83	4.54	2.77	10.45	0	-	-	Gage removed				Inc
212	CGG	Brand Park	-	2.86	4.86	3.00	11.56	0	-	-	Gage removed				Inc
213	S A	Hancock Park	-	1.69	6.48	1.31	6.93	0	0.03	0	0.13	0	0	0.40	16.88
214	Sp	Montebello	T	2.23	5.77	1.66	4.97	T	0.36	0	0.14	0	0	0.15	15.28
215	Sp	Bellflower	0.21	1.58	5.61	2.08	3.55	0.03	0.16	0.01	0.08	.0	0	0.11	13.42
216	Sp 3"	Glendale-Jones	0.25	2.37	5.45	2.76	5.75	0.10	0.91	0.01	0.17	0	0	0.12	17.89
217	Sp 3"	Watts-Jordan H.S.	0.20	1.45	4.08	1.37	5.17	0.10	0.28	0	0.08	0	0	0.03	12.76

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
155	S	Little Rock Cr.	0.38	1.57	3.69	.52	7.48	0	0.33	0.14	0.84	0	0	1.26	16.21
156	Sp 3"	La Mirada	0.22	1.84	5.51	1.52	5.82	0.07	0.51	T	0.01	0	0	.09	15.60
157	Sp	El Segundo S.O.Co.	0.06	1.24	5.70	1.72	5.07	0.01	0.40	0.01	0.13	0	0	0.13	14.47
158	A S	Tanbark Flats	1.61	4.00	7.96	2.57	14.88	0	1.16	0.04	0.42	0	0	T	32.64
159	A S	Orchard Camp	Inc	4.54		5.53	11.32	0.31	0.82						Inc
160	CGG	Curson	-	2.24	6.81	0.99	7.67	0	0.54	0	0.08				Inc
161	CGG	Curson	-	2.22	6.89	0.94	6.96	0	0.53	0	0.06				Inc
163	CGG	Monrovia-S.P.Sta.		3.07	6.41	1.08	9.29	0.16	0.27	0	Discont.	June 21			Inc
164	Sp 3"	Monrovia-O'Connor	.40	3.32	7.11	1.24	10.70	0.30	0.75	0.11	0.37	0	0	.09	24.39
166	Sp 3"	Monrovia-Gierlich	0 .18	3.19	6.77	1.70	8.93	0.33	0.63	0.06	0.30	0	0	0.14	22.23
167	Sp	Arcadia Pump.Plt.	0.29	3.04	7.13	1.99	10.43	0.28	0.55	0.01	0.34	0	0	.17	24.23
168	Sp 3"	San Gabriel-Watts	0.19	2.08	6.79	1.72	7.56	0.16	0.25	0	0.32	0	0	0.28	19.35
169	S	Sierra Madre Pmp Plt	0.38	3.04	7.04	3.62	8.78	0.37	0.55	0.09	0.40	0	0	.04	24.31
170	S	Potrero Hts.	0.15	2.35	6.98	1.23	6.72	0.06	0.54	0	0.18	0	0		Inc
171	S	Chapman Wells	0.28	2.93	7.16	2.04	9.07	0.05	0.59	0	0.49	0	0	0.40	23.01
172	Sp	Duarte Packing Plt.	0.29	3.16	6.86	1.24	10.07	Station moved							Inc
173	Sp	San Vicente Mt.	0.21	3.34	7.26	3.20	7.39	0	0.56	0.07	0	0	0	0.33	22.46
174	Sp	Glendora-C.C.Warren	0.67	3.44	7.59	3.35	8.32	0.19	0.83	0.06	0.40	0	0	0.01	24.86
175	Sp 3"	Alta Canyada-Hall	0.91	3.85	8.50	2.77	11.28	0.08	1.59	0.04	0.30	0	0	0.09	29.41
176	Sp	Rubio Water Co.	0.62	3.16	6.73	2.21	8.65	0.25	0.90	0.05	0.30	0	0	0.22	23.09
177	Sp 3"	La Canyada-Brigham	0.26	3.27	7.75	1.31	10.51	0.19	1.12	0.10	0.25	0	0	.18	24.94
178	A Ap	Azusa-Griffeth	0.25	3.10	6.20	3.05	5.62	0.13	0.45	0.03	0.27	0	0	0.01	19.11
179	Sp	Sierra Madre-Carter	0.54	3.56	7.62	4.85	8.22	0.38	1.07	0.11	0.58	0	0	1.01	27.94
181	Sp 3"	Bassett-S.P.R.R.	0.30	2.69	6.88	2.40	5.08	0	0.42	0	0.19	0	0	0.53	18.49
182	Sp	Baldwin Park-Leech	0.27	2.57	6.89	1.70	7.44	0.05	0.38	0.06	0.25	0	0	0.15	19.76
183	S	Baldwin Park-Starr	No Rec. kept			3.20	5.07	No rec. kept							Inc
185	S	Glendora-West.	0.57	3.36	1.28	4.47	7.13	0.26	0.45	0	0.23	0	0	0	17.75

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
218	S	Torrance G.P.Corp.	0.31	1.14	6.21	1.88	4.63	0.18	0.17	0.02	0.07	0	0	.14	14.75
219	S	Pacoima Co.Whse.	0.23	2.34	6.71	2.96	6.95	0.05	1.13	0.10	0.07	0	0	0.11	20.65
220	S	Whittier Narrows	0.11	2.42	6.22	1.66	5.27	T	0.44	0.03	0.14	0	0	0.06	16.35
221	Sp	Davis Ranch	0.25	1.66	7.21	1.05	10.13	T	0.98	0.46	0.19	0	0	.01	21.94
222	Scw	Lankershim Gen.Sta.	0.22	2.25	5.26	1.68	6.83	0	0.95	0.02	0.05	0	0	0.13	17.39
223	S	Big Dalton Dam	0.89	3.51	8.58	1.85	12.05	0.30	0.92	0.04	0.57	0	0	.02	28.74
224	Sp	Los Alamitos Land Co.	0.14	1.72	6.67	1.70	5.10	0.04	0.10	T	0.07	0	0	0.19	15.73
225	Sp 3"	Montana Ranch	0.21	1.65	5.80	2.45	3.56	0.11	0.28	0	0	0	0	0.25	14.29
226	S	Burbank Fire Sta.	0.20	2.38	5.32	2.28	9.20	0	1.25	0.05	0.12	0	0	0.12	20.92
227	CGG	San Gabriel	0.08	2.08	6.94	1.14	8.30	0.14							Inc
228	Ap Sp 5"	Beverly Hills	0.06	1.86	6.89	2.55	5.02	0	0.74	0	0	0	0	0.30	17.42
229	S	No. Los Angeles	0.10	2.02	6.77	1.71	6.55	0.12	Gage removed						Inc
230	Sp	Live Oak Canyon	0.72	3.12	7.02	1.52	10.20	0.17	0.67	T	0.36	0	0	0.03	23.81
231	S	Mt. Lowe Fox Farm	-	2.15	8.30	1.67	13.40	0.30	1.12	0.27	0.40	0	0	0.12	Inc
233	S	Covina-Matthews	0.50	2.92	6.38	3.06	6.31	0.12	0.21	0.19	.21	0	0	0	19.90
234	S	Covina-Thorpe				1.93	1.90	N.R.	N.R.	N.R.	N.R.			0.05	Inc
235	A Sp	Henniger Flats	0.71	3.67	7.99	1.86	11.43	0.34	1.11	0.20	0.44	0	0	0.09	27.84
236	Sp	Craig Ranch	0.18	2.42	7.07	2.09	9.11	0.22	0.99	0.34	0.33	0	0	T	22.75
237	Scw	Stone Canyon Dam	.09	2.57	8.54	3.86	7.65	0	.92	0	.05	0	0	.24	23.92
238	Scw	Hollywood Dam	.23	2.26	6.67	2.95	6.24	0	.90	0	.15	0	0	.34	19.74
240	S	Little Tujunga	0.18	2.66	6.91	2.74	7.71	0.39	1.00	0.97	0.22	0	0	0.22	23.00
241	Sp	Long Beach	0.15	1.53	5.95	2.53	4.93	0.03	0.09	0	0.06	0	0	0.20	15.47

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
242	Sp 3"	La Verne-Jones	0.68	2.04	4.91	0.92	7.15	0.17	0.54	0.22	0.26	0	0	0	16.89
244	S	Bear Creek Gaging S.	2.88	6.06	8.39	2.67	16.14	0.28	0.76	0.04	0.44	0	0	.03	37.69
246	S	Culver City	0.06	1.54	6.22	1.85	4.88	0	0.44	0.06	0.14	0	0	.30	15.49
247	S	Rivera	0.17	1.93	5.58	2.50	3.99	0.12	0.46	0	0.16	0	0	0.15	15.06
248	S	W.Saddle Pk.-Malibu	0.23	3.56	9.73	3.15	8.57	T	0.26	0.03	0.07	0	0	0.11	25.71
249	S	Mint Cn.-Oaks Garage	0.21	2.06	4.15	1.48	6.42	0.61	0.55	0.05	0.22	0	0	.03	15.78
250	S	Acton-Williams	0.16	1.63	2.77	.51	7.19	0	0.55	0.03	0.27	0	0	0	13.11
251	CGG	La Crescenta	0.35	3.24	8.03	1.89	11.51	0.02	1.41	0.07	.20	0	0	0.15	26.97
252	S	Castaic	.03	2.28	6.14	1.63	6.14	0	0.15	0.60	0	0	0	0.03	17.10
253	S	Western Ave.Tank	0.20	1.52	6.18	2.96	5.94	0.10	0.31	0.01	0.10	0	0	0.08	17.40
254	S	Rowland Ranch	0.38	2.25	6.85	1.05	6.78	0.06	0.35	0	0.06	0	0	0.05	17.83
255	S	State Narcotic Hosp.	0.89	2.78	6.75	1.61	7.78	0.08	0.49	0.05	0.08	0	0	0.06	20.57
256	Sp 3"	Pomona-S.P.R.R.	0.88	2.84	5.96	1.17	9.29	0.11	0.70	0.32	0	0	0	T	21.27
257	S A	Griffith Pk.Nursery	0.10	2.35	6.20	1.76	6.96	0.14	0.88	0.02	0.11	0	0	.08	18.60
258A	CGG	Griffith Pk.Ver.Cn.	0.10	2.43	6.52	.87	8.09	0.10	0.78	T	0.12	0	0	0.09	19.10
258B	CGG	Griffith Pk.Ver.Cn.	0.17	2.54	5.54	.87	6.96	0.08	0.85	0	0.11	0	0	0.10	17.02
258C	CGG	Griffith Pk.Ver.Cn.	0.23	2.57	6.74	1.04	8.74	0.10	0.99	0	0.14	0	0	0.10	20.65
259	S	Twin Lakes Park	0.13	3.36	7.41	1.81	9.20	0.57	0.28	0.37	0.37	0	0	0.37	23.87
260	S	Monte Cristo Mine	0.81	7.70		0.78	10.25	-	0.75						Inc
261	A S	Acton-Mellon	0.24	1.84	3.37	.49	6.47	0.34	0.34	0.03	0.33	0	0	0.14	13.59
263	S	Pomona	0.91	2.70	5.43	1.25	7.94	0.05	0.77	0.04	0.13	0	0	0.02	19.24
264	S	Sand Cn.-Riley Rch.	0	3.20	7.21	4.00	9.50	0.90	0.80	0.15	0	0	0	0	25.76
265	Sp	La Habre Heights	0.64	2.17	6.67	1.49	6.81	0.11	0.59	0	0.06	0	0	0.07	18.61
266	Sp	Leffingwell Rch.	0.22	2.22	5.56	1.08	5.74	0	0.35	0	0	0	0	0.15	15.32
267	S	Vaughan Ranch	T	2.72	9.43	3.43	5.60	0.13	0.33	0.05	0	0	.05	Gage removed	
268	Sp	Torrance S.C.E.Co.	0.22	1.49	5.72	1.80	4.29	0.09	0.14	0.03	0.13	0	0	0.18	14.09

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
295	S	Glendale-Bartlett	0.22	2.67	6.30	1.60	8.52	0.15	1.01	0.03	0.14	0	0	0.07	20.71
297	CGG	Reeder Ranch	T	1.81	9.49	3.22	4.37	0	0.25	0	0	0	0	.01	19.15
298	S	Gorman	N.I.	N.I.	N.I.	N.I.	N.I.	Inst.	N.R.	1.29	0	0	0	0.16	Inc
299	CGG	Calivalli Farms	0.45	0.83	1.46	.04	4.98	0	0.24	T	0.58	0	0	0.73	9.31
300	Sp 3"	Garipata Canyon	0.46	3.56	8.79	3.51	9.25	0	0.23	0.06	0.09	0	0	0.43	26.38
301	S	Airway Radio Sta.	0.31	2.90	6.52	1.23	9.65	0	1.05	0.01	0.16	0	0	0.10	21.94
302	S	W.Fork-San Gabriel	2.72	5.85	10.20	3.24	19.79	0.06	1.09	0.05	0.40	0	0	.01	43.41
303	A.S.	Cal.Tech.	0.30	2.81	6.50	3.99	6.20	0	0.42	0	0.22	0	0	-	Inc
304	S	Deer Park	1.29	5.14	11.26	3.04	9.31	0.22	1.05	0.05	0.66	0	0	0.03	32.05
305	S-CGG	Mason Estate	0.06	2.25	9.73	3.21	5.45	0.08	0.30	0.08	0.03	0	0	0.13	21.32
306	CGG	Steeb's Trading P.	0	1.17	6.37	1.73	4.35	0	0	0.13	0	0	0	.10	13.85
307	Sp	Snow Crest Camp	4.44	4.88	9.32	2.50	20.80	0.25	0.45	-	0.65	0	0	0	44.29
308	Sp	Kelly's Camp	3.85	8.13	14.81	4.86	30.42	0.55	2.25	0.28	0.48	0.10	0	0	65.73
309	Sp	Padua Hills	1.07	2.99	7.42	1.08	11.06	0.24	0.92	0	0.31	0	0	T	25.09
310	CGG	Alhambra-Donaldson	0.20	2.44	6.73	2.08	7.22	0.12	0.32	0.01	-	0	0	.26	Inc
311	CGG-Asp	Pasadena-Sunset	-	3.08	6.56	2.10	7.96	0.17	0.56	0.05	0.25	0	0	-	Inc
312	Sp	Glendora-M.C.I. Co.	-	2.70	7.77	2.40	8.77		0.69						Inc
313	Sp	Glendora-M.C.I. Co.	0.59	1.72	Sta. discontinued in Nov.										Inc
314	Sp	Glendora-M.C.I. Co.	0.57	2.85	6.70	1.47	10.20	0.16	0.70	0.03					Inc
315	Sp	Glendora-H.C.Warren	-	-	-	1.67	9.35	0.37	0.25						Inc
316	Sco	Big Pines #1-Main Cp	1.42	3.70	7.43	1.50	13.49	0.22	0.81	0.17	0.86	0	0	0.44	30.04
317	Sco	Big Pines #2-Saw Mill	1.38	3.23	7.36	1.07	15.92	0.19	0.59	0.11	0.90	0	0	0.53	31.28
318	Soo	Jackson Lake	1.78	3.38	6.95	1.46	16.02	0.12	0.53	0.36	0.76	0	0	0.54	31.90
319	Sco	Apple Tree Flat	1.68	3.90	8.96	1.92	16.54	0.17	0.66	0.27	0.81	0	0	0.52	35.43
320	CGG	Sycamore Canyon	0.21	2.85	7.06	2.02	4.57	0.21	0.76	0.05	0.15	0	0	0.34	18.22
321	CGG	Pine Cn. Petrol Sta.	0.17	3.16	5.45	2.78	13.54	0.08	0.32	0.07	0.23	0	0	.30	26.10
322	Sp	Munz Valley Ranch	0	1.68	2.92	1.24	4.33	0	0	0.30	0.20	0	0	0	10.67

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
269	S	Diamond Bar Rch.	0.74	2.74	7.03	1.56	8.49	0	0.70	0.02	0.08	0	0	T	21.36
270	S	L.A.Co.Farm	0.29	1.89	5.45	1.49	4.57	0.07	0.43	0	0.08	0	0	0.16	14.43
271	S	Dominguez Hill	0.08	1.22	5.42	2.22	4.08	0.15	0.16	0	0.05	0	0	0.25	13.63
272	S	Headworks Pump.Plt.	0.28	2.43	6.04	2.09	8.82	0	1.03	0.06	0.12	0	0	0.20	21.07
273	Sp 5"	San Pedro Hills	T	0.80	6.47	2.11	5.60	0.08	0.18	0.07	0	0	0	0.11	15.42
274	Sp	Acton-Hubbard	0.41	1.91	3.47	.89	6.01	0.40	0.34	0.18	0.43	0	0	0.10	14.14
275	Sp3"	San Marino	.26	2.64	6.29	.76	8.07	-	-	-	.35	0	0	.20	INC
276	S	Sharp's Flat	0.91	4.34	10.75	2.16	12.70	0.22	0.97	0.07	0.37	0	0	T	32.49
277	CGG	Sawmill Mt. Rch.	0.08	4.00	8.03	2.47	13.36	0.10	0.58	0.49	0.03	0	0	0.30	29.44
278	S	Clark Estate	0.04	2.32	5.61	1.74	4.95	0.15	0.46	0	0.07	0	0	0.19	15.53
279	Sp	Kinnelos Ranch	0.94	3.45	7.36	2.22	12.85	0.54	1.06	0.12	0.32	0	0	0.11	28.97
280	S A	Flintridge Fire Sta.	.93	3.04	7.07	2.32	8.33	0	1.00	0.07	0.22	0	0	0.22	23.20
281	S	Kelly's Ranch	0	2.35	6.07	1.69	4.94	0.13	0.75	0.63	.25	0	0	0.75	18.56
282A	Sco	Crystal Lake Pk.E.Pi.F.	2.37	2.86	9.32	1.93	21.65	0.30	1.23	0.19	1.26	0	0	0	41.11
282B	Sco	Crystal Lake Pk.W.Pi.F.	2.32	4.25	8.58	1.93	19.90	0.30	1.25	0.16	0.87	0	0	T	39.56
284	Sp	Placerita Canyon	0.40	4.15	6.02	3.45	11.40	0.83	0.45	0.37	0	0	0	0.17	27.24
285	S	Mt. St. Mery's College	0.39	2.76	4.44	gage out	2.32	0	0.67	0.07	0	0	0	0.31	INC
286	Sp 3"	Cowans Ranch	0.35	2.52	6.56	1.86	8.33	.14	1.64						INC
287	Sp	Glendora-Mu.Con.Irr.	0.57	2.83	7.12	4.48	6.60	.26	.64	0	.33	0	0	T	22.83
288	S	Newton Canyon	0.03	4.00	12.86	6.60	5.91	0	0	0	0	0	0	0.02	29.42
289	Aco	Laguna-Bell	-	1.50	5.29	1.90	4.36	0	0.40	0	-	0	0	0.16	INC
290	Aco	Newmark	-	2.19	6.13	1.59	6.21	0.10	0.34	0	-	0	0	0.10	INC
291	Aco	96th & Central	-	1.58	5.45	2.34	3.22	0.05	0.17	0	-	0	0	0.10	INC
292	Scw	Encino Res.	.14	2.15	4.72	2.56	5.29	0	.27	.08	.02	0	0	.24	15.47
293	Scw	Lower Fernando Res.	.07	3.09	6.23	2.81	7.35	.31	1.02	.31	.11	0	0	.08	21.38
294	Sp	Sierra Madre-Mirra Monte pump.plt.	0.57	3.38	7.97	1.44	11.75	0.36	1.04	0.04	0.52	0	0	0.08	27.15

No.	Type Gage	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
323-A	CGG	Pine Flats	1.48	Removed 11/24/31											Inc
324	S	Tujunga	0.69	3.26	6.68	2.60	9.92	T	1.57	0.19	0.26	0	0	0.12	25.49
325	S	San Gab. Fish Hatch.	2.83	5.91	9.40	1.21	17.11	0	0.36	0	-	-	-	-	Inc
326	Sp 3"	Santa Ynez Canyon	0.72	2.21	7.37	3.61	8.26	0	0.36	0	0.10	0	0	0.15	22.78
334	A S	San Gabr. Dam #2				0.78	18.96							0.05	Inc
335	S	Happy Valley Inst.	11/14	N.I.	1.91	6.99	0.94	6.80	0	0.37	0	0.05	0	0	-	Inc
336	Scw	Silver Lake Res.	.03	2.23	5.81	2.25	4.69	0	.55	0	.11	0	0	0	15.67
338	A-Swb	Mt.Wilson-Pitt		Installed					1.08	0.21	0.35				Inc
339	Sp	Walnut Frt.Grow'rs.Ass.	0.88	2.80	7.01	1.20	8.40	0.03	0.67	T	0.12	0	0	0.16	21.27
340	CGG	Leimert Park Inst.	12/8/31	0.00	4.28	1.55	4.57	0	T	T	T	0	0	T	Inc
341	CGG	Blum Ranch				0.22	6.76	0.06	0.56	0.24	0.56	0	0		Inc
342	CGG	Upland Inst.	12/16		3.92	2.75	8.44	0.06	0.72	0	0.23	0	0	0.04	Inc
343	Sp	Telegraph Road				3.43	4.72	0.09	0.42	0.03	0.13	0	0	1.00	Inc
344	CGG	Los Angeles			3.08	1.67	4.77	0	0.31	0.10	0.18	0	0	0.10	Inc
345	Sp	Palms		1.59	6.41	1.89	4.66	0.01	0.50	0.03	0.14	0	0	0.33	Inc
346	Spcl	Downey C of C							0.14	0	0.11	0	0	0.11	Inc
347	S	Baldwin Park #3							Installed	6/21		0	0		Inc
348	S	Honor Camp #4 San Gabr.	2.60	4.27	7.25	2.45	14.30								Inc
349	S	Camp Rincon			Not Inst.				Instelled	6/22/30		0	0	0	Inc
350	S	Eliz. Lake Canyon			Not Inst.				Installed	7/8/32		0	0	0.31	Inc
351	Sp	Palmdale			Not Inst.				Installed	8/11/32			0	1.29	Inc
352	S	Lechuza Patrol Sta.			Not Inst.									0.24	Inc
353	Sp	Duarte Monrovia Citrus			Not Inst.			0.29	0.63	0.11	0.33	0	0	0.11	Inc
356	Sp	Diamond Bar Ranch #2	.10	2.73	6.08	2.50	7.34	.10	.58	0	.12	0	0	0	19.65
357	Scw	Power House #3 Upper Fernando.	.08	4.51	6.56	1.08	6.00	0.51	1.48	0.09	0.12	0	0	0.01	20.41

LEGEND REGARDING GAGE TYPE AND OWNERSHIP

S Standard 8" gage unless followed by number showing diameter and owned by Flood Control.
A Flood Control automatic gage-Fergusson type.
Sp Private gage of standard type 8" diameter.
Sp 3" Standard type private 3" diameter.
Sp 5" Standard type private 5" diameter.
CGG Special "can" gages using glass graduate for measuring.
cw Gage owned by L.A. City Water Department.
gg Uses glass graduate for measuring in place of stick.
co Gage owned by L.A. County but not the Flood Control District.

TABLE 2

RAINGAGE STATION LOCATIONS

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
1	1075	5 B	21-03	Martha Decker	Upper Los Alisos Cn.
2	1025	5 B	22-24	H. T. Anderson	Upper Escondido Cn.
3	875	5 B	34-09	F. L. Porter	La Sierra Canyon at Cornell
4	600	5 B	22-70	F. H. Chase	Triunfo Cr. SW of Calabasas
5	950	6	35-64	Tom Farmer	In Calabasas So. Side Blvd.
6	747	5 B	24-01	B. O. Butler	0.4 mile S. of Topanga Bridge
7 C	90	5 B	24-55	Henry Jenks	Bel Air Bay Club-Coast Highway
8	480	5 B	25-03	Flood Control	Near Admin. Bldg. Mandeville Cn.
9	815	7	48-37	Robt. Larson	Sepulveda 2nd House N. of Chase
10	540	5 A	25-51	O. F. Bell	Bel Air Admin. Bldg.
11	867	5 A	37-88	W. H. Wood	Upper Franklin Cn. res.
12	1175	5 A 6	37-86	R. H. Chaplin	Mulholland Highway at Franklin Cn.
13	593	6	38-34	Katie Blix	10834 E. Blix St.
14	1000	7	49-46	E. S. Merrill	Near mouth La Tuna Canyon
15	695	6	37-42	Frank Carr	Aetna & Vesper Sts. Van Nuys
16	785	6	37-35	C. S. Haig	Mouth of Stone Canyon No.
17	1375	6	37-06	W. H. Waldschmidt	Sepulveda Canyon at Mulholland
18	815	6	36-72	L. F. Martin	Adohr Dairy-Ventura Blvd.
19	1560	5 B	35-96	Clair R. Balmer	Summit Topanga Canyon Rd.
20	892	6	35-93	A. F. Kunkee	SE Cor. Ventura Blvd.& Topanga Cn.Rd
21	875	6	36-02	J. A. Varniswald	Canoga Rd. No. of Ventura Blvd.
22	930	6-7	46-58	O. A. Gansert	SW of Stagg and Cohasset Sts. San Fernando Valley
23	900	7	46-87	R. R. Melrose	E. end of Chatsworth Res.
24	960	7	46-94	E. L. Johnson	SW of Devonshire & Santa Susanna
25	797	7	47-47	Jack Andrews	Near Parenthia & Van Alden N.L.A.
27	944	7	48-64	W. D. Miller	14163 Van Nuys Boulevard
28	950	7	48-32	B. Hannemen	San Fernando Lemon Ass'n. Packing House
29	1130	7	47-82	W. L. Green	Sunshine Rch. Rinaldi St.

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
74	1950	2	44-01	A. M. Trout	Junc. Volfe & Bell Cn. Big Dalton
75	1250	1	54-48	G. Patterson	San Gabriel Canyon
76	1350	1	54-57	Albert E. Marshall	W. Side San Gab. Forks U.S.Ranger Sta.
78	3300	1	54-60	T. L. Lee	N. Fork San Gabriel
80	5680	1	67-05	Gus Wissendorff	2 mi. E. of Vincent Gulch-Junc.
82	7500	1	67-11	A. F. Moore	Top of Table Mt.
83	6860	1	67-02	Roy Tuttle & McDonald	Big Pines Co. Park
85	4300	2	56-46	M. J. Adams	Camp Baldy, San Antonio near Bear Canyon Resort
87	1500	2	44-33	O. L. Trout	San Dimas Cn. at West Fork
88	2400	2	44-52	Albert Coleutti	Wolfskill Canyon
89	1350	2	44-24	G. W. Rodgers	San Dimas Canyon below Dam
90	1680	2	44-44	R. S. Brydon	No. end Wheeler La Verne Rd.
91	1405	2	44-87	W. White	Indien Hill Road No. of Baseline
92	1190	2	32-90	F. P. Brackett	Pomona College Observatory
93	1165	2	32-80	Geo M. Williams	No. side 2nd St. bet. Harvard & Yale
94	805	2	31-60	Will G. Fields	Covina Blvd. at PERR crossing
95	935	2	43-99	Sam L. Trout	108 E. 1st.St. San Dimas
96	1030	2	31-90	F. A. Pollard	Knoll above Caretaker's House
97	1000	2	44-08	Geo. Fergusson	No. side Juanita E. of Walnut
98	602	2	42-96	John Hibsch	325 Foothill Blvd. Azusa
99	615	2	43-06	Chas. Stewart	Foothill Blvd. S. side 2 mi.W. Citrus
100	1050	3	42-72	August Bohm	Above USGS gaging Sta. Fish Co.
101	358	2	30-53	Hurst Bros.	S. Cor. Orange & Merced Ave.
102	475	2	31-29	M.R.Knauft & Burl H. Howell	1.mi.West Walnut P.O. So. of tracks.
103	266	4	16-84	Sam Mendenhall	S. cor. Whittier Blvd. & Gunn Rd.
104	600	2	30-09	Roy K. Cole	S. end 7th Ave. N. Whittier Hts.
105	215	4	16-64	Peter E. Sharples	½ mi. S. Whittier Blvd. on Laurel Ave.
106	350	4	16-61	M. R. Bowen	City Hall N.W. Cor. Greenleaf & Bailey
107	117	4	15-65	A. L. Darby	E. Cor. Crawford & Norwalk
108	285	3	29-62	C. S. Ranger	El Monte C. of C. Bldg.
109	490	3	41-37	Mayme L. Forbrich	2307 Naomi Drive
110	485	3	28-70	J. W. Clay	N.W. Cor. 2nd. & Main, City Hall
111	660	3	40-48	Frank H. Clough	City Hall, N.W. Cor. Mission R. & Mound
112	667	6	39-74	Oscar Bergman	1710 Orchard Ave. Glendale
114	64	5 A	14-09	Rosecrans	S.E. Cor. Vermont and Rosecrans

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
30	1250	7	59-28	W. G. Hyatt	Sylmar Olive Pkg. Plt.
32	1345	9	58-61	Pierre Daries	Inland Highway ¼ mi. N. Newhall
33	1700	7	60-06	R. E. Waddicor	Pacoima Dam Caretaker's House
34	2050	7	60-45	John McQuillan	2.5 mi. above Pacoima Dam
36	2180	7	60-28	E. H. Keith	On Flat-head of Kagel Cn.
39	1650	6	50-19	W. B. Hatcher	On side hill above houses at turn around tree
41	1765	6	50-87	Mildred Eckerle	S. Side Earlmont at Hillard, Alta Canyada
42	± 80	5 A	7-15	M. B. Fisher	Redondo City Hall
43 A	300	5 A	7-19	L. Hussey	75 Malaga Cove Plaza
43 B	450	5 A	2-10	L. Hussey	Tool House near Golf Club
44	125	5 A	1-85	A. Trittinger	Near Pt. Vicente Lighthouse
45	1800	8	50-60	Joseph Lynn & T.E. Justice	Big Tujunga Canyon
46	2050	8	51-01	Sam Brown	Big Tujunga Canyon
47	3300	8	51-42	H. Lancaster	Near source of Clear Cr. E. Big Tujunga
48	2000	3	51-15	J. R. Phillips	Oak Wild Resort-Arroyo Seco
49	1345	3	40-50	Geo. S. Chiesa	165 E. Foothill Blvd., Altadena
50 B	1173	3	40-10	H. J. Durand	352 Michigan Ave., Flintridge
51	4650	1	65-59	Frank M. Headlee	1 mi. No. of Coldbrook Camp
52	3050	3	51-44	Lloyd Austin	Switzer's Cp., Long Canyon
53 B	2950	8	62-89	Joe Argay	Coldwater Cn. near Big Tujunga
54	3550	8	62-55	L. G. Loomis	Near Junc. N. and Middle Forks-Alder Cr.
56	5400	1	58-24	Cherie DeVore	West Fork, San Gabriel River
57	4480	1	52-04	Mrs. John Opid	West Fork, San Gabriel River
58	3375	3	52-67	V. P. Hoopes	Upper Big Santa Anita Canyon
59	5650	3-1	52-47	Kenneth Pitt	Bet. 60" & 100" telescopes
60	3650	3	52-59	Wm. Murphy	West Fork, Santa Anita Canyon
61	2000	3	52-89	O. L. Roberts	Santa Anita Canyon at Junc. West Fork
62	2000	3	41-80	V. P. Vetter & Arthur Mills	Santa Anita Canyon
63	1250	3	41-71	Joseph Propst	Caretaker's House, Big Santa Anita Dam
64	1600	3	41-71	J. E. Clark	Big Santa Anita
65	1160	3	41-48	Col. H. B. Hersey	575 N. Hermosa Ave., Sierra Madre
66	665	3	41-54	C. J. Pegler	415 E. Live Oak, Sierra Madre
68	1150	3	42-12	M. L. Packer	Sawpit Forks, above mouth
69	2000	3	42-31	M. L. Packer	Sawpit Canyon, upper
70	800	3	42-93	Roger Delton	Mouth of San Gabriel River
73	1130	2	43-54	Mrs. J. P. Englehart	Mouth Engle Wild Canyon

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
116	117	5 A	13-43	Mr. Geo. Green	Inglewood, High School
117	73	4	14-79	R. W. Day	410 S. Oleander, Compton
118	27	4	3-31	Fred C. Bowman	City Hall, Avalon St.
119	333	5 A	25-44	W. E. Wheeler	Nat'l. Military Home, Sawtelle
120	3250	9	74-70	L. Simpson	Mint Cn. Rd. 1mi. W. Vincent
121	2350	10	99-70	R. E. Lofink	N.W. Cor. High School Grounds
122	3200	9	98-89	Geo. Rouff	Bouquet Cn. Rd. ½ mi. S. Elizabeth Lake Road.
123	3250	9	96-73	Eli Munz	Bet. Eliz. and Hughes Lakes
124	b3100	9	84-31	R. G.Martin	Bouquet Cn. near Double Eagle Mine, L.A.W.D. camp
125	2100	9	83-41	Sta. Operator	Power House Upper San Francisquito
126	7	5 A	12-41	I. F. White	Maintenance City Engr's. Office
127	1500	9	70-71	Jim Ray	Dry Canyon Reservoir
128	2100	9	95-49	L. G. Klein	Eliz. Lake Cn. at Warm Springs
130	4250	9	106-85	A. R. Grant	Ridge Route at Sandbergs
131	4100	9	105-30	G. W. Reynolds	Ridge Route, near Gorman
134	1110	2	44-07	A. L. Stevens	½ mi. N. of Foothill Blvd-San Dimas
135	83	4	10-30	C. S. Hargitt	½ mi. N. of Center St. 1/5 mi.(West of Bloomfield)
136	385	5 A	38-69	W. E. Brown	N.E. Cor. Hollywood and Cahuenga
137	992	5	38-48	H. F. Hedge	E. Side Curson Canyon
139	285	4	27-54	D. A. Lane	S.W. Cor. 2nd and Broadway, L. A.
140	238	5 A	25-55	R. S. Hardacker	1620 S. Purdue, Sawtelle City Hall
142	1015	6	39-70	F. H. Hay	3050 Menlo Dr. Glendale
143	603	2	42-96	S. E. Skidmore	Foothill Blvd. Chamber of Commerce
144	1400	3	41-52	H. A. Thew	Foot of Sierra Madre Dam
150	1450	3	42-20	M. L. Packer	Monrovia Canyon Falls
151	1044	5 A	38-48	H. F. Hedge	Curson Cn. West Lower
154	5600	3	52-47	Kenneth Pitt	Mt. Wilson Bet. 60" & 100" obs.

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
155	2900	10	87-69	Gene Breslin	Little Rock Cr. 1 mi. below Dam
156	85	4	10-81	O. W. Schroer	Center St. La Mirada near SPRR
157	135	5 A	12-88	T. M. Waite	S. O. Co. Refinery El Segundo
158	2700	2	55-49	C. J. Space	W. Fork, San Dimas Canyon
159	2850	3	41-40	P. P. Snow	Mt. Wilson Trail, Little Sante Anita
160	1200	5 A	38-48	H. F. Hedge	Upper Curson Canyon
161	1110	5 A	38-48	H. F. Hedge	Curson Cn. West Center
163	520	3	41-95	E. Bruner	SpRR Sta. Monrovia
164	675	3	41-94	C. J. O'Connor	432 N. Primrose, Monrovia
166	575	3	41-95	O. A. Gierlich	Roof Citizens Bk. Bldg. Monrovia
167	611	3	41-64	O. L. Tulga	Arcadia Pumping Plt., E. Live Oak
168	433	3	41-09	Richard Watts	309 E. Live Oak, San Gabriel
169	700	3	41-63	Jos. P. Hogan	Sierra Madre Pumping Plt., 631 E. Central
170	320	3	29-15	J. A. Reifer, Jr.	3623 Delta St.,San Gabriel
171	635	3	41-35	W. E. Comerford	1000 ft. E. of E. end Colorado St.
172	550	3	42-35	R. T. Chew	Duarte Pkg. Plt.,Oak St.
174	965	2	43-86	C. C. Warren	Foothill Blvd. 2-3/4 mi. E. Glendora
175	1915	6	50-87	T. M. Hall	5268 Linda Vista Dr. Alta Canyada
176	1125	3	40-61	J. H. Parsons	545 Sacramento St. Altadena
177	1275	3	51-09	E. A. Brigham	36 N. Commonwerlth, La Canyada
178	545	2	43-09	E. B. Griffith	Bonita, Just West of Cerritos
179	1080	3	41-42	Annetta M. Carter	N. of Upper end Baldwin Ave.
181	296	2	30-04	R. S. Gipple	SPRR Sta. Bassett
182	378	2	30-41	S. Howard Lesch	334 N. Main Baldwin Park
183	440	2	42-48	W. D. Starr	1.75 mi. N. of Baldwin Park Depot on Main
184	2390	6	50-29	W. B. Hatcher	Upper End Sunset Cn.
186	822	2	43-46	L. M. West	460 E. Bennett, Glendora
187	960	2	43-99	W. E. Mount	109 N. San Dimas Ave.
188	1075	2	44-07	H. E. Howard	On Puddingstone Div. Channel at Foothill
192	142	4	15-02	J. F. Salvail	Bell Fire Sta. Fishburn at Baker.

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
230	1530	2	44-56	Chas Elder	E. Side of Canyon S. of Dam, Live Oak
233	527	2	31-11	J. L. Mathews	161 Navilla Place, Covina
234	630	2	31-23	Ben F. Thorpe	N. Side Cameron Ave. 0.2 mi. E. of Barranca
235	2850	3	41-10	G. N. Whitechurch	Henniger Flat, Forestry Nursery, Mt. Wilson RD
236	1455	7	59-88	Volney H. Craig	Craig Rch., San Fernando
237	728	5 A	37-49	H. L. Murrietta	Stone Cn. Dam
238	800	5 A	38-68	C. J. Chewings	Hollywood Dam
240	1700	7	60-67	F. M. McBride	4.3 mi. up Little Tujunga Cn. from Foothill Bl
241		4		% Mr. Semmons	(Rec. from 6 Long Beach City Stations)
242	1048	2	32-30	L. M. Jones	PERR Station La Verne
244	1925	1	54-13	G. Patterson	F.C.Gaging Sta., Bear Cr., W. Fork, San Gab.
245	2950	1 or 2	43-61	George W.McKelvey	Honor Cp. No. 4 Ridge, Bet. Little Dalton and San Gabriel at Garcia Cn.
246	77	5 A	26-08	Fire Dept.	City Hall, Culver City
247	151	4	15-93	J.B. Robinson	233 Burke St., Rivera, 1 Blk. S. of Bank
248	970	5 B	23-23	Ralph Zehlke	W. Slope of Saddle Peek, above Crater Cp.
249	2200	9	84-48	W. A. Dodrill	Mint Cn. Road at the Oaks Garage
250	2575	9	73-85	C. J. Wessel	Soledad Cn. 2 mi. W. of Acton-1 mi. N.E. of Ravenna
251	1565	6	50-67	H. A. Scheuner	2908 Michigan Ave., La Crescenta
252	1150	9	69-80	W. H. Callis	Castaic, W. side off Ridge Rd.
253	235	5 A	13-85	W. G. Frayer	Western Ave. Tank, L.A.W.D.
254	466	2	17-50	R. R. Steele	Extension Grazide Rd. & S. of Rowlands Rch.H.
255	770	2	31-55	M.W. Gibbs	State Narcotic Hosp. near Spadra
256	834	2	32-44	W.H. Thompson	SPRR Station, Pomona
257	750	5 A	39-17	J. Kladler	Griffith Pk. Nursery, Ext. No. Commonwealth
258A	1025	5 A	38-97	Louis Strauss	Just West of Tunnel on Pt. of Ridge (Griffith Park)
258B	1400	5 A	39-07	Louis Strauss	S. Slope Mt. Hollywood,(Griffith Pk.)

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
190	475	2	31-21	Wm. B. Temple	.8 Mi. E. of High School,S. side Puente St.
194	560	2	31-11	A. R. Evans	460 E. Badillo St. Covina
195	1290	2	44-87	Adolph Bernard	Indian Hill and Base Line Rd.
196	1054	2	44-39	Ulrich Knoch	2146 Third St. La Verne
198	815	6	39-21	F. W. Pomeroy	Near Brand Res. Ext. Grandview Ave.
199	164	4	14-82	W. E. Ford	Municipal Park, Zoe and Miles
200	1093	9	70-27	Mr. Roberts	2.5 mi. W. of Saugus Ridge Route
201	860	2	17-00	O. J. Hansen	Elliott Rch. Turnbull Canyon Rd.
203	242	4	16-51	G. A. Kuhry	SPRR Sta. Whittier
204	538	2	31-49	A. Graffin	N. Side Lemon Rd. 1st. House E. Pkg.Hse.
205	368	2	30-79	Sta. Operator	S.C.E. Co. Sub. Sta. 1.5 mi. E. Puente
206	472	2	30-94	P. R. Jackson	Azusa Ave. Bet. Merced and Vine St.
208	49	4	10-14	C. H. Griffin	Griffin Lbr. Yd.,S. Pac. Elec. Artesia
209	2600	8	62-49	J. W. De Vall	Big Tujunga at Lucas Cr.
210	2500	6	39-30	H. F. Hedge	Top of Ridge, Verdugo Mts.
211	1300	6	39-21	H. F. Hedge	Lower Brand Park, Verdugo Mts.
212	1750	6	39-30	H. F. Hedge	Near Stream Brand Pk., Verdugo Mts.
213	177	5 A	26-43	S. A. Warren	La Brea Fossil Pits., 5801 Wilshire
214	192	4	28-88	Elsie Smith	Whittier Blvd. 0.6 mi. W. Center Montebello
215	68	4	9-72	R. V. Bashore	900 E. Park at Somerset
216	620	6	39-43	J. E. Jones	318 E. Randolph, Glendale
217	110	4	14-75	John Chapouris	103 rd. St. 2nd. Block W. Alameda
218	75	5 A	7-64	Marion E. Dice	2 mi. N.W. Torrance
219	955	7	48-94	V. Taylor	12605 Osborne 0.1 mi. N.E. San Fernando.
220	195	3	29-28	D. W. Cate	San Gab. Blvd. 1 mi. N. Pico
221	1425	7	59-99	H. O. Davis	On side hill E. of end of New Pacoima Rd
222	732	6	38-10	F. L. Hoffmeister	0.1 mi. W. Lankershim Blvd. SPRR
223	1500	2	43-83	H. Vander Goot	Caretaker's House, Big Dalton Dam
224	30	4	4-13	J. T. Musgrove & Beach	22 Pacific Ave. Long Beach
225	47	4	9-85	J. F. Anthony	Montana Rch. 3 mi. S.W. Artesia
226	650	6	38-91	F. Olohvary	125 E. Third St., Burbank at Fire Sta.
227	465	3	40-99	Geo. Gleason	147 Bradbury Dr., San Gabriel
228	277	5 A	25-92	Jack Asher	Roof of City Hall, Beverly Hills
229	853	7	47-26	C. C. Kovall	8762 Mason, N. L.A. .6 mi. N. of Roscoe Blvd.

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
258C	1450	6	39-06	Louis Strauss	N. Slope Mt. Hollywood (Gr. Park)
259	1550	7	46-80	Jas. T. Guthrie	Devil's Cr. Above Upper Lake, Bottom of Cn.
260	4500	8	63-14	F. W. Carlisle	E. Fk. Mill Cr. Fuller Cn.
261	3075	9	73-30	H. F. Mellen	Escondido Cn. N. Branch
263	778	2	32-56	Milton Frater	2211 S. Town Ave., Pomona
264	1900	9	59-92	Tom Chavez	Sand Canyon-Coyote Canyon Branch
265	635	4	17-74	R. H. Marsh	Anaheim-Rd. Puente Hills
266	253	4	17-06	M. Stevenson	Leffingwell Rch. ½ mi. S. Whittier Blvd.
268	57	4	7-94	B. Bunje	190th St. at Western Ave. Sub Sta.
267	1630	5 B	21-03	J. F. Vaughan	Nr. Summit of Decker Road
269	710	2	18-53	F. E. Lewis	Diamond Bar Ranch Bree Canyon Road
270	104	4	15-46	Clyde Morrow	741 Old River School Road
271	195	4	8-63	James L. Nash	Dominguez Hill, S. Side of Res.
272	473	6	38-94	W. A. Herring	W. of N. Entrance Gr. Pk. at L. A. Ri.
273	1235	5 A	2-12	W. W. McCarrell	Top San Pedro Hills near W. end.
274	3200	9	85-68	Mrs.A.S.Hubbard	Mint Canyon Road, just E. of Summit
275	670	3	40-87	Wm. Hertrich	Hunt Estate San Marino
276	1175	1	43-31	Geo. Moran	Sharps Flat, San Gab. Can. Below Forks
278	200	5 A	26-86	M. C. McRae	2205 W. Adams, L. A.
279	1400	3	41-11	Frank Hannan	E. Bk. Eaton Wash. near Mo. of Canyon
280	1325	6	40-01	W. A. Lee	200' W. Summit Chevy Chase Dr. Cor. of Inverness & Glenagle
281	3220	9	94-31	G. E. Perry	Cienega Cn. E. of Ridge Rd. & State Hy.
283		1	65-69	Calef and Clark	Crystal Lake Co. Park
284	1500	9	59-82	R. M. Higdon	Dulin Ranch, Placerita Cn.
285	1000	5 A	25-11	Sister Gertrude Joseph	Mt. St. Mary's College, Ridge bet. Boehme Cn. and Canyon W.
286	1090	7	49-22	John Hermann	10700 Foothill Blvd.
287	792	2	43-36	Bert Warren	234 N. Michigan Ave.

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
288	1780	5 B	22-01	D. N. Barrett	150' W. of Latigo Rd. in Newton Cn.-5 mi. No. of Escondido Patrol Station.
289	140	4	15-52	L.A.Co.Surveyors	300' W. of Compton & Jabonesia Rd., 200' S. of P.E.R.R. at S.C.E. Co. Plant.
290	375	4	28-75	Storm Drain	La Merced Hills-Garfield Ave. at S.C.E.Sta.
291	121	4	14-44	Division	96th and Central
292	1000	6	36-85	John H. Cowan	Crest of Encina Dam-1 mi. S.W. of Encino-Santa Monica Mts.
293	1150	7	48-11	F. Ortiz	800' N. of W. end of Dam, Lower Fernando
294	985	3	41-53	Al Freeland	Mira Monte Ave. at Pump. Plt.-50' W. of foot of Mt. Wilson trail
295	526	6	29-24	H. E. Bartlett	437 Pioneer Drive, Glendale
297	900	5 B	21-01	Walker	E. Fork Arroyo Sequis-¼ mi. So. of Rd.
299	2825	10	88-36	C. W. Leding	1 mi. W. of Pear Blossom Hwy. & 1 mi. N. of Palmdale-Victorville Rd.
300	990	5 B	36-18	R. L. Peeler	½ mi. N. E. of Topanga Cn. Rd. in Garrapata Canyon
301	1150	6	39-21	D. L. Perrine	On Ridge E. of Brand Home
302	1790	1	53-85	G. Patterson	2-3/4 mi. W. of N. Fork in W. Fork of San Gabriel River
303	763	3	40-76	Lewis-Leeper & Lindsey	Cal. Tech., Pasadena, 150' E. of Wilson Ave. & 25' S. of San Pasqual.
304	2500 *	3	42-30	Ben Overturff	1½ mi. up Canyon from Sawpit Dam
305	1155	5 B	21-01	R. L. Mason	East Fork of Arroyo Sequis S. of Road
306	15	5 B	21-56	Wm. Steeb	State Highway (Roosevelt) at Tranaas Cn.
307	6500	2	56-72	A. R. Collins	Upper San Antonio Can., 1 mi. below Divide
308	8200	2	56-96-	H. L. Judges	1¼ mi. N.E. of Ontario Pk. just N. of Divide
309	1768	2	45-05	K. B. Forbes	1½ mi. N. of Base Line Rd. & 300' E. of Monte Vista Ave. N. of Claremont.
310	527	3	40-79	D. Donaldson	800' N. Monterey St. Alhambra
311	930	3	40-43	Flood ControlEmployee	100' N.W. of Mountain Ave. & 50' N.E. of Manzanita St.
312	675	2	42-85	Plant Operator	1 mi. N.W. of Azusa & 0.4 mi. W. of W. end of Sierra Madre Ave.
313	865?	2	43-45	Plant Operator	Live Oak Ave. ¼ mi. N. of Foothill Blvd.

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
314	1060	2	44-07	Plant Operator	N.E. Cor. Foothill and Artesia Ave.-.3 mile W. of Puddingstone Diversion Channel.
316	6860	1	67-02	L. McDonald	100' S.E. of F. G. gages at E. edge of Flat E. of Main Bldgs.
317	6750	1	67-12	L. McDonald	0.6 mi. E. of Main Bldgs. near Swartout Valley Park entrance.
318	6075	1	66-70	Ralph Price	So. Edge of Jackson Lake
319	5900	1	66-81	Ralph Price	Big Pines Park-Apple Tree Flat- about 2½ mi. by Palmdale Rd. N.W. of Park Buildings.
320	900	6	39-92	F. H. Hay	2821 N. Chevy Chase, Glendale
321	3400	9	96-72	C. R. O'Rourke	Ranger Sta. Bet. Hughes & Elizabeth Lakes.
322		9-10		Eric Munz	Lancaster-Bailey Rd. 14 mi. W. of Lancaster
326	500	5 B	34-43	W. W. Culp	2 mi. up Santa Ynez Cn. from Beverly Blvd. at Forks.
324	2235	1	53-85	J. G. Stanchfield	Dam #2 W. Fork of San Gabriel River
325	488	2	17-21	C. L. Jordan	Los Altos Dr. 1/10 mi. of Hacienda Blvd., Happy Valley
326	455	5 A	29-39	L.A.W.D.	Silver Lake Res. - L.A.
328	5650	1-2	52-47	K. P. tt	50' So. 60" Telescope Mt. Wilson
329	553	2	31-49	Operator	½ mi. S.E. of walnut - So. side U.P.R.R. tracks.
340	125	5 A	26-89	C. F. Benjamin	4160 - 2nd. Ave. L.A.
341	3000	9	74-55	Geo. J. Blum	Aliso Canyon - So. of Acton
342	1550	2	45-17	B. V. Brockham	7/8 mi. No. of Foothill Blvd. on Benson Ave.
343	141	4	16-04	F. C. Collins	Telegraph Rd. 0.2 mi. W. of San Gab. River.
344	93	5 A	26-37	Morrill	5408 Homeside Ave., L.A.
345	92	5 A	25-97	M.R. Pollard	3671 Motor Ave., Palms.
346	119 *	4	15-65	Mrs. F. Weiss	241 Downey Ave. - Downey
347	387	2	30-30	Various	Scott Place, 1 Blk. W. of Main, St. Baldwin Pk.
348	2000	1 A	55-35	G. H. McKelvey	No. Fork of E. Fork, San Gab. River
349	1500	1 A	54-46	Otto Mason	W. Fork San Gabriel - 1.3 mi. W. of Forks

* Ground elev. and about 30' to collector on roof

Sta. No.	Elev. USGS	Dist. No.	Quad. Index	Observer	Location
350	1125	9	82-	Capt. Scott	6.6 mi. up Elizabeth Lake Cn. from State Highway near Castaic
351	2669	10	86-82	H. P. Schoeller	Palmdale - 1 Blk. E. of main Highway.
352	1675	5 B	21-21	J. L. Ozanne	4 mi. from Roosevelt Hwy. on Decker Rd.
353	458	1 B	42-26	R. T. Chew	Duarte Rd. at Buena Vista St.
356	675	2	31-86	Office Force	Spadra office-Diamond Bar Rch. 5 mi. S.E. Pomona Blvd.
357	-	7	58-08	Operator	Power House #3-Upper San Fernando Res.

AUTOMATIC RAINGAGES

F C#	NAME OF STATION	SIZE	WATERSHED	REMARKS
4	Crags Co. Club	9"		
6	Topanga Rngr. Sta.	9	Topanga Cn.	
10	Bel Air	9	Stone Cn.	
15	Van Nuys Whse.	9	L.A.River	
21	Brant Rancho	9	L.A.River	
29	Granada	9	L.A.River	
33	Pacoima Dam	9	Pacoima	
41	Alta Canyada	9	Verdugo	
47	Clear Creek	12	Big Tujunga	
51	La Cienega	12	San Gabriel No. Fk.	
53	Colby Ranch	9	Big Tujunga	
54	Loomis Ranch	12	Big Tujunga	
56	Valley Forge		San Gabr. W. Fk.	Gage removed
57	Opids Camp	12	San Gabr. W. Fk.	
60	Hoegees Camp	9	Big Santa Anita	
65	Sierra Madre	9	Rio Hondo	
70	Dalton	Spcl.	San Gabriel	9" Fergusson formerly.
75	Edison Intake	9	San Gabriel	
80	Prairie Forks	9	San Gabriel	
83	Big Pines Co. Park	9	Desert	
85	Camp Baldy	12	San Antonio	
92	Pomona College	9	San Antonio	
107	Downey		Coastal Plain	Gage removed
130	Sandbergs	9	-	
137	Curson		Ballona	9" gage removed
150	Monrovia Falls	9	Sawpit	
158	Tanbark Flats	12	San Dimas	
159	Orchard Camp	9	Sierra Madre	
178	Azusa	9	San Gabriel	
210	Brand Park	9	L.A.River	
213	Hancock Park	9	Ballona	
235	Henniger Flats	9	Eaton Cn.	
257	Griffith Pk. Nursery	9	Ballona	
261	Acton	9	Santa Clara	
280	Flintridge F.S.	9	Arroyo Seco.	
303	Cal Tech.	9	Alhambra Wash	
334	San Gabr. Dam #2	9	San Gabr. W. Fk.	
338	Mt. Wilson	12	Various	
359	Poly Hi. School	9	Ballona	
363	Wilson Canyon	9	Pacoima	Recently Installed
364	Lower Haines	9	Verdugo	Recently Installed
365	Sister Elsie Peak	9	Big Tujunga etc.	Recently Installed

205	Puente S.C.E. Co. Marvin	San Jose Cr.	U.S.W.B. Gage	
137	Curson "	Ballona	"	"
347	Baldwin Park Exp.Sta."	San Gabriel	"	"

EVAPORATION RECORDS

SEASON 1931-32

This Season furnished complete records from 14 stations out of 23 stations which were in operation at the beginning of the Season. The incomplete records were principally due to freezing of the water in the pans, snow, and rain, causing the pans to overflow.

The Encino Reservoir and Baldwin Park Stations will furnish valuable comparative data at the end of another Season. It is not possible to obtain relations between evaporation from different types of pans with only three or five months records.

About half of the F. C. pans have been painted with aluminum paint. It is intended to complete this work as soon as possible. The difference in heat absorption between black and aluminum would influence the amount of evaporation, and as all government pans are made of galvanized iron, it was decided to conform as closely as possible.

The evaporation records for the Season 1931-32 appear in the following table:

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
Hydrographic Department

EVAPORATION RECORDS
IN INCHES 1931-32

No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	
22	Chatsworth Res.	7.475	5.245	3.686	4.095	3.302	5.900	7.235	7.615	8.410	10.100	10.350	7.355	80.768	
32	Newhall-L.A.C.For.	6.300	4.145	2.885	3.515	2.490	5.287	7.110	6.295	9.010	11.425	10.305	8.280	76.987	
33	Pacoima Dam	7.280	5.930	2.510	2.330	1.915	5.435	6.565	5.280	7.815	9.855	9.045	7.830	71.220	
46	Big Tujunga Dam #1	6.000	3.300	0.525	0.475	0.675	5.425	5.950	6.225	8.025	10.600	9.975	8.675	65.850	Inc
51	La Cienega	3.245	2.073	0.901	0.971	0.945	3.816	4.130	4.930	5.110	6.838	6.540	6.475	45.974	
57	Opid's Camp	2.136	1.375	1.775	frozen		1.822	2.310	4.300	5.368	7.940	7.680	5.450	41.216	Inc
62	Big Santa Anita D.	5.175	3.860	2.675	3.040	2.380	4.345	5.470	4.635	5.540	6.875	7.635	5.565	57.195	
75	Edison Intake	5.240	3.510	1.310	1.690	2.020	4.135	5.445	6.050	7.165	8.900	9.755	7.690	62.910	
82	Big Pines Park	6.245	2.585	f r o z e n			2.780	5.255	6.300	8.675	11.415	12.160	9.005	64.420	Inc
85	Camp Baldy	3.475	Inc.	Inc.	No record kept			1.485	4.780	6.250	9.280	9.160	7.610	INC	
89	San Dimas Dam	5.820	1.980	0.985	2.400	1.495	3.225	3.960	3.981	8.425	11.451	11.353	11.415	66.490	Inc
96	Puddingstone Dam	6.040	3.735	2.325	2.335	1.605	4.210	5.470	5.500	6.650	9.415	9.295	6.695	63.175	
128	Radium Hot Springs	2.890	2.887	0.385	0.690	No observer			Inc.					INC	
131	Tejon Rgr. Sta.	6.640	-	-	-	Removed 3/30/32								INC	
157	El Segundo	5.670	4.434	2.960	3.210	2.845	5.415	5.945	7.525	7.450	7.650	7.435	5.445	66.984	
223	Big Dalton Dam	7.220	5.085	3.025	3.210	2.710	6.020	7.195	7.150	8.410	11.025	11.825	8.855	81.840	
248	W. Saddle Peak	5.150	3.360	1.545	1.635	3.950	4.235	5.695	5.915	7.150	7.875	8.020	5.625	60.155	
261	Acton	6.810	4.325	2.185	2.636	1.945	5.885	6.925	7.795	10.180	13.375	13.980	10.935	86.976	
265	Puente Hills	4.720	3.220	1.845	1.155	0.805	2.530	5.580	4.875	5.785	6.765	6.900	5.340	49.520	
268	Torrance-S.C.E.Co.	5.170	2.320	1.220	1.160	1.470	4.240	6.160	6.660	6.965	7.645	7.600	5.580	56.190	
302	Cal Tech.	9.845	3.095	1.730	1.730	2.310	3.595	5.370	5.245	°1.812	8.188	8.350	5.790	57.060	Inc
305	Arroyo Sequis	7.405	5.270	2.755	3.848	3.595	5.155	6.200	6.270	6.995	7.310	7.405	5.715	67.923	Inc
321	Pine Cn. Pat. Sta.	6.395	3.840	1.425	1.775	1.000	6.700	8.700	9.350	11.515	16.300	15.525	12.425	94.950	Inc
351	Palmdale	7.345	4.600	3.110	2.865	2.095	6.505	8.110	10.666	12.695	16.610	17.140	13.025	104.766	
70	Dalton No.S.G.Cn.				Not Installed				6.880	8.020	9.720	9.670	7.585	INC	
298	Encino Res. F.C. Land Pan				" " "				8.400	9.542	10.830	13.000	7.900	INC	
	" " Lake Pan				" " "				5.496	7.632	9.984	10.044	6.864	INC	
347	Baldwin Park F.C.Pan				" " "						9.310	9.395	6.565	INC	
	" " U.S.W.B. Shallow Pan				" " "						8.30	8.02	5.64	INC	
	" " Deep 6' Dia.Pan				" " "						7.47	7.26	4.81	INC	

NOTE: All Evaporation Pans are F.C. 24" dia.pans sunk in ground to water level except where noted otherwise.

COMPARISON OF RAINFALL AND RUNOFF IN LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
FOR SEASON OF 1931 - 1932

Sta. No.	Stream and Location	Sq. Mi. in Water Shed	A. F. Runoff for Season	Runoff per Sq. Mi. Acre Feet	Inches Runoff at Gaging Station	Aver. Inches Rainfall on Watershed	% Runoff to Rainfall	Remarks
81	Alhambra Wash at Garvey Avenue Bridge	12.85	1,943	151.2	2.83	19.56	14.5	City and Valley Runoff
102	Alhambra East Wash at S.P.R.R.Main Line	6.95	1,012	145.6	2.73	19.56	13.9	City and Valley Runoff
103	Alhambra West Wash at S.P.R.R.Main Line	3.47	756	217.86	4.08	19.56	20.8	City and Valley Runoff
38	Ballona Creek at Centinella Blvd.	112.00	21,785	194.51	3.64	17.09	21.3	Runoff from hills Valley and City Sts
111	Big Tujunga Creek at Edison Road	66.93	10,254	153.20	2.87	28.81	9.9	Mountain Runoff
37	Compton Creek at Rosecrans Avenue	21.74	3,216	147.93	2.77	13.39	20.7	Street Runoff
41	Coyote Creek Below P. E. Bridge	110.00	2,690	24.45	0.46	15.85	2.9	Valley Runoff
62	Curson Canyon Above end of Curson Ave.	0.07	0	0	0	18.50	0	No flow recorded in 5 years.
53	Dume Creek at Roosevelt Bridge	8.76	726	82.87	1.55	29.42	5.3	Mountain Runoff
104	Eaton Wash at Sunset Avenue Bridge	19.00	946	49.78	0.93	25.16	3.7	Mountain and Valley Runoff
110	Fox Creek near Junction with Big Tujunga Creek	9.35	2,514	268.87	5.04	27.34	18.4	Mountain Runoff
65	Little Dalton Creek at Mouth of Canyon	3.28	449	136.89	2.57	31.62	8.1	Mountain Runoff, pipe line diverts water above sta.
19	Little Tujunga Creek at Foothill Blvd. Bridge	21.00	1,866	88.85	1.67	24.43	6.8	Mountain Drainage
5	Los Angeles River at Van Nuys Blvd. Br.	157.00	6,330	40.32	0.76	20.32	3.7	Mountain and Valley Runoff
124	Los Angeles River at Vineland Ave. Br.	400.00	12,828	32.07	0.60	20.32	2.9	Mountain and Valley Runoff-Mountain Runoff regulated.
57	Los Angeles River at Figueroa St. (Dayton Ave.) Br.	510.24	15,237	29.86	0.56	19.68	2.8	Mountain and Valley Runoff - part of Mountain runoff regulated.
34	Los Angeles River at Stewart & Gray Road Bridge	613.76	25,618	41.74	0.78	19.78	3.9	Mountain, Valley and street runoff part of mountain runoff regulated.
130	Malibu Creek at Crater Camp	103.00	14,665	142.37	2.67	25.12	10.6	Mountain Runoff - part of mountain runoff regulated.
112	Mill Creek above jct. with Big Tujunga Ck.	21.14	2,191	103.64	1.94	30.00	6.5	Mountain Runoff
46	Nigger Slough at Wilmington Ave.	66.50	4,029	60.58	1.13	14.50	7.8	Seepage & Industrial Waste Water-some street runoff.
82	Rubio Wash at Broadway Bridge	13.00	1,489	114.5	2.15	19.73	10.9	Mountain, Valley and Street runoff.
P2	San Gabriel R.E. Fk. P.W.D.Sta. above mouth of Cattle Cn.	58.20	53,411	917.7	17.21	(est) 40.00	43.0	Mountain Runoff
96	San Gabriel River, E. Fk. below mouth of Cattle Canyon	78.35	67,911	866.7	16.25	(low) 32.08	50.6	Mountain Runoff
97	San Gabriel River, W. Fk. 3½ Mi. above N. Fk.	48.97	26,422	539.6	10.12	40.09	25.2	Mountain Runoff
99	San Gabriel River, Bear Creek at Pasadena's Boy Scout Camp.	25.95	16,622	640.5	12.01	37.69	31.8	Mountain Runoff
98	San Gabriel Riv. North Fork at 2000 Ft. above Narrows	18.79	8,604	457.9	8.58	39.21	21.8	Mountain Runoff
P3	San Gabriel River W.Fk. P.W.D. Sta. at 2 miles above Forks	102.24	55,356	541.4	10.15	39.60	25.6	Mountain Runoff

COMPARISON OF RAINFALL AND RUNOFF IN LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
FOR SEASON OF 1931 - 1932

Sta. No.	Stream and Location	Sq.Mi. in Water Shed	A. F. Runoff for Season	Runoff per Sq.Mi. Acre Feet	Inches Runoff at Gaging Station	Aver. Inches Rainfall on Watershed	% Runoff to Rainfall	Remarks
28	San Gabriel River at Edison Intake	201.97	132,545	656.26	12.305	37.88	32.4	Mountain Runoff
48	San Jose Creek at Workman Mill Rd. Br.	85.18	4,029	47.30	0.887	19.70	4.5	Valley and hill runoff
92	Santa Clara River at Hwy. Bridge, 4 mi. W. of Saugus	355.30	4,276	12.03	0.226	18.92	1.2	Mountain Drainage
43	Sycamore Upper Storm Drain at Solway St. Glendale	2.67	415	155.43	2.914	20.71	14.1	Street and Hill runoff
44	Sycamore Lower Storm Drain - at Adams Square, Glendale.	6.19	611	98.71	1.851	19.30	9.6	Street and Hill runoff
54	Topanga Creek at Hwy. Br. 2 mi. above mouth	17.94	3,586	199.88	3.747	27.22	13.7	Mountain Runoff
9	Verdugo Storm Drain at Glen Oaks Blvd.Br. Glendale	22.50	713	31.68	0.594	27.72	2.1	Hill, Valley and Street Runoff
47	Walnut Creek at Covina Blvd. Bridge	99.14	2,818	28.42	0.533	20.36	2.6	Mountain, Hill and Valley Runoff Partly Controlled.
	U.S.G.S. STATIONS							
U1	Arroyo Seco, 3 miles above F. C. Dam	16.40	5,290	322.50	6.048	28.65	21.1	Mountain Runoff
U14	Big Rock Creek, 2 miles above Valyermo P.O.	23.25	15,700	675.26	12.661	25.00	50.6	Mountain Runoff
U4	Big Santa Anita Creek above F. C. Dam	10.50	4,010	381.90	7.16	37.93	18.8	Mountain Runoff
U11	Big Tujunga Creek at submerged Dam	106.00	17,900	168.86	3.17	31.77	9.9	Mountain Runoff Partly regulated
U2	Eaton Creek at Mt. Wilson Toll Rd.	6.50	1,230	189.23	3.55	31.31	11.3	Mountain Runoff
U12	Haines Canyon near Tujunga	1.20	29	24.16	0.45	23.99	1.9	Mountain Runoff
U3	Little Santa Anita Ck. above F. C. Dam	1.90	442	232.63	4.36	30.00	14.5	Mountain Runoff
U6	Rogers Creek above Mouth of Canyon	6.40	2,460	384.37	7.21	27.00	26.6	Mountain Runoff
U15	San Antonio Creek near Claremont	16.90	20,700	1224.85	22.97	45.29	50.7	Mountain Runoff
U8	San Gabriel River at Mouth of Canyon	214.00	129,000	602.80	11.30	36.55	30.9	Mountain Runoff

DAMS

Name of Dam	Drainage Area Sq.Mi. Above Dam	Inflow to dams Acre Feet	Runoff per Sq.Mi. Acre Feet	Inches Runoff at Dams	Aver. Inches Rainfall on Watershed	% Runoff to Rainfall	Remarks
Big Dalton	4.54	855.1	188.34	3.53	30.69	11.5	Mountain Runoff
Pacoima	27.77	8763.8	315.58	5.91	25.01	23.6	Mountain Runoff
San Dimas	15.92	2797.1	175.69	3.29	32.29	9.2'	Mountain Runoff
Santa Anita	10.82	3775.3	348.91	6.54	37.93	17.2	Mountain Runoff
Sawpit	3.27	751.0	229.66	4.30	35.01	12.3	Mountain Runoff
Big Tujunga	81.47	12981.7	159.34	2.98	26.97	11.0	Mountain Runoff
Live Oak	2.34	187.4	80.08	1.50	27.98	5.3	Mountain and Hill Runoff

Los Angeles County Flood Control District

HYDROGRAPHIC DEPARTMENT

RUNOFF REPORT

SEASON OF 1931 - 1932

The Hydrographic Department of the Los Angeles County Flood Control District was created in April 1927 by Mr. E. C. Eaton, Chief Engineer, with Francis H. Hay, as Chief Hydrographer.

Among other duties of this department are the collection and compilation of stream flow data in Los Angeles County, California.

Recorder and staff gage stations were located and established for the measurement of the flow of water in the streams. These stations have been added to so that on October 1, 1932 the District had 61 automatic water stage recorder stations in operation and cooperated in the operation of 17 other water stage recorder stations where continuous records were secured. The District also had 125 staff gage, weir or flume stations where measurements were made when possible.

During the past year several stations were moved to a more advantageous location and 10 new automatic water stage recorders were added.

The runoff during the year 1931-32 was slightly above normal but was greatly in excess of any previous year since the Hydrographic Department was created in 1927. During the year 6525 stream measurements were made. There were two major storms during the year, one on December 28, 1931, the other on February 8 and 9, 1932.

The Flood Control District received the active cooperation of the United States Geological Survey Water Resources Branch, Mr. H. D. McGlashan, District Engineer for California and Mr. F. C. Ebert, Engineer in Charge for California.

This work was under the direct supervision of F. J. Cornick.

The compilation was under the direction of W. T. Keifer.

Recorder Stations

Runoff Report 1931-1932

F.C.No.	Station	Location	Total Season Runoff A.F.	
81	Alhambra Wash	Garvey Ave. Bridge	1943	
102	Alhambra East Wash	S.P.R.R. Main Line	1012	
103	Alhambra West Wash	S.P.R.R. Main Line	756	
38	Ballona Creek	Centinella Blvd.	21785	
150	Benedict Canyon	Near Oakhurst St.	0	Inc.
21	B. Santa Anita Ck.	½ mi. below F.C. Dam	3883	
193	" " " Wash	Above Arrow Highway	0	Inc.
20	Big Tujunga Wash	Stonehurst Ave.	741	Inc.
105	Big Tujunga Wash,West.	Magnolia Ave.	78	
106	Big Tujunga East Wash	" "	4171	
111	Big Tujunga Creek	Edison Road	10254	
2	Brown Canyon	Devonshire Ave.	693	
186	Centinella Creek	Jefferson Blvd.	0	Inc.
37	Compton Creek	Rosecrans Ave.	3216	
41	Coyote Creek	Below P.E. Bridge	2690	
62	Curson Canyon	Above End of Curson Ave.	0	
53	Dume Creek	Roosevelt Hwy. Bridge	726	
104	Eaton Wash	Sunset Ave. Bridge	946	
110	Fox Creek	Near Jct. with Big Tujunga Creek	2514	
65	Little Dalton Ck.	Mouth of Canyon	449	
67	Little Santa Anita Ck.	¼ mi. below F.C. Dam	211	
19	Little Tujunga Ck.	Foothill Blvd. Bridge	1866	
L1	Little Rock Ck.	2 Mi. above P.L.R.I.D. Dam	16733	
31	Live Oak Creek	Near Mouth of Canyon	206	
5	Los Angeles River	Van Nuys Blvd. Bridge	6330	
124	Los Angeles River	Vineland Ave. Bridge	12828	
57	Los Angeles River	Figueroa St.(Dayton Ave.) Bridge	15237	
34	Los Angeles River	Stewart and Gray Rd.Brg.	25618	
180	Los Angeles River	State St. - Long Beach	50958	
130	Malibu Creek	Crater Camp	14665	
112	Mill Creek	Above Jct. With Big Tujunga Creek	2191	
22	Monrovia Creek	Above Jct. With Sawpit Creek	184	
195	Monrovia Storm Drain	Near Peck Road	0	Inc.
181	Montebello Storm "	Mines Ave.	1122	Inc.
46	Nigger Slough	Wilmington Ave.	4029	
16	Pacoima Wash	Parthenia St. Br.	485	
118	Pacoima Creek	Below Dam	8398	
40	Puddingstone Ck.	Below F.C. Dam	81	
192	Rio Hondo	Lower Azusa Rd. Br.	12707	Inc.
64	Rio Hondo	1000' Above Mission Br.	47564	

Recorder Stations

Runoff Report 1931-1932

F.C.No.	Station	Location	Total Season Runoff A.F.	
45	Rio Hondo	Stewart and Gray Rd. Br.	19923	
82	Rubio Wash	Broadway Bridge	1489	
83	Rio Hondo Slough	San Gabriel Blvd. Br.	12118	
151	San Antonio Creek	Mouth of Canyon	7801	
P2	San Gabriel R.E.Fk. P.W.D. Sta.	Above Mouth of Cattle Cn.	53411	
96	San Gabriel River E. Fk.	Below Mouth of Cattle Cn.	67911	
97	San Gabriel River W. Fk.	3½ mi. Above North Fk.	26422	
99	San Gabriel River Bear Creek	Pasadena's Boy Scout Camp	16622	
98	San Gabriel River N. Fk.	2000' Above Narrows	8604	
P3	San Gabriel River W.Fk. P.W.D. Sta.	2 mi. above Forks	55356	
28	San Gabriel River	Edison Intake	132,545	
100	San Gabriel Spreading Grounds	Mouth of Canyon	16231	
190	San Gabriel River	Foothill Blvd.	76217	Inc.
191	San Gabriel River	El Monte Blvd. Bridge	961	Inc.
63	San Gabriel River	Whittier Blvd. Bridge	13059	
42	San Gabriel River	Spring St. Bridge - Long Beach	6555	
48	San Jose Creek	Workman Mill Rd. Bridge	4029	
92	Santa Clara River	Hwy. Bridge 4 mi. W. Saugus	4276	
194	Sawpit Wash	Above Arrow Hwy.		Inc.
185	Sepulveda Creek	Charnock Road		Inc.
43	Sycamore Upper Storm Drain	Solway St. Glendale	415	
44	Sycamore L. Storm Drain	Adams Square - Glendale	611	
54	Topanga Creek	Hwy. Br. 2 mi. above Mouth	3586	
9	Verdugo Storm Dr.	Glen Oaks Blvd. Br. Glendale	713	
47	Walnut Creek Rising Water	Covina Blvd. Br. Whittier Narrows	2818 31133	

U.S.G.S. Stations

The Hydrographic Department Co-operates in the operation of these Stations.

Runoff Report 1931-1932

F.C.No.	Station	Location	Total Season Runoff A.F.
U 1	Arroyo Seco	33 mi. above F.C.Dam	5290
U 9	Big Dalton Ck.	Below F. C. Dam	785
U14	Big Rock Creek	2 mi. above Valyermo P.O.	15700
U 4	Big Santa Anita Ck.	Above F. C. Dam	4010
U11	Big Tujunga Creek	At submerged Dam	17900
U 2	Eaton Creek	At Mt. Wilson Toll Rd.	1230
U 7	Fish Creek	4000' above Mouth Cn.	
U12	Haines Canyon	Near Tujunga	29
U 3	Little Santa Anita Creek	Above F. C. Dam	442
U 6	Rogers Creek	Above Mouth of Canyon	2460
U15	San Antonio Ck.	Near Claremont	20700
U10	San Dimas Creek	Below F. C. Dam	2974
U 8	San Gabriel River	At Mouth of Canyon	139000
U 5	Sawpit Creek	¼ Mi. below F. C. Dam	1560

Name of Dam	Inflow to Dams Acre Feet
Big Dalton	855.1
Devil's Gate	2577.7
Pacoima	8763.8
Puddingstone	1515.4
San Dimas	2797.1
Santa Anita	3775.3
Sawpit	751.0
Big Tujunga	12981.7
Live Oak	187.4
Sierra Madre	350.0
Thompson Creek	76.0

F-81 R

ALHAMBRA WASH AT GARVEY AVENUE BRIDGE

Location
On the east end, north side of Garvey Avenue bridge, 150 feet west of San Gabriel Boulevard at Wilmar, Los Angeles, California.

Drainage Area
12.85 square miles.

Installed by
Los Angeles County Flood Control District, January, 1929.

Records Available
Stream measurements November 14, 1928 to January, 1929.
Recorder Records, January 1929 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
Stevens, Type L, 8 day recorder installed in Shelter house on corrugated iron stilling well attached to upstream east end of highway bridge. Vertical staff gage installed near stilling well.

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

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

Extremes of Discharge
1929-1930
Maximum-1868.20 c.f.s. March 14, 1930
Minimum-Dry most of the year.
1930-1931
Maximum-1530 c.f.s. February 3, 1931
Minimum-Dry most of year.
1931-1932
Maximum-1120.0 c.f.s. January 31, 1932
Minimum-Dry most of the year.

Diversions
None above gage

Regulation
None.

Accuracy
Good.

Operation
Located and constructed by the Los Angeles County Flood Control District and operated by the Los Angeles County Flood Control District, in co-operation with the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 164 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 81

Discharge measurements of ALHAMBRA WASH

at GARVEY AVENUE BRIDGE, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271 655
1	12/14	Harting - Laird	11.0	2.33	1.90	.05	4.44		.6		7		1/6	"
2	12/14	" "	30.	30.1	6.1	.89	188.96		.6		8	.18	1/3	"
3	12/15	" "	28.	41.4	6.2	1.12	254.88		.6		9	.08	1/3	"
4	12/28	" "	30.	17.1	6.4	.55	9.70		.6		10	.1	1/4	"
5	12/28	" "	30.	67.4	8.40	2.23	565.94		.6		9	.1	1/3	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 81

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

At GARVEY AVENUE BRIDGE for the Year Ending September 30, 19 32

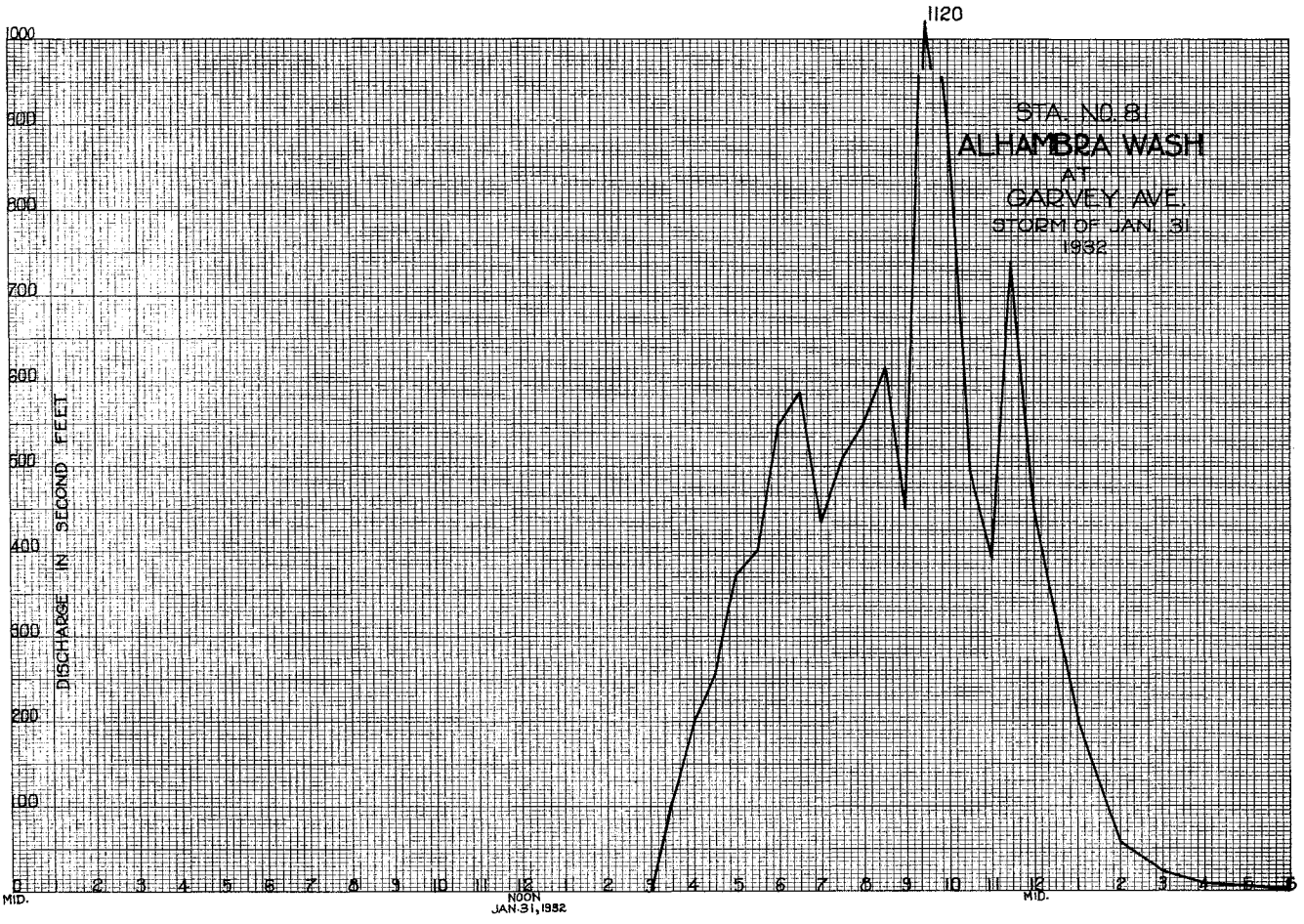
Drainage Area 12.85 Square Miles. [Harry Harting Observer.] Gage Read ______ Used rating table dated ______

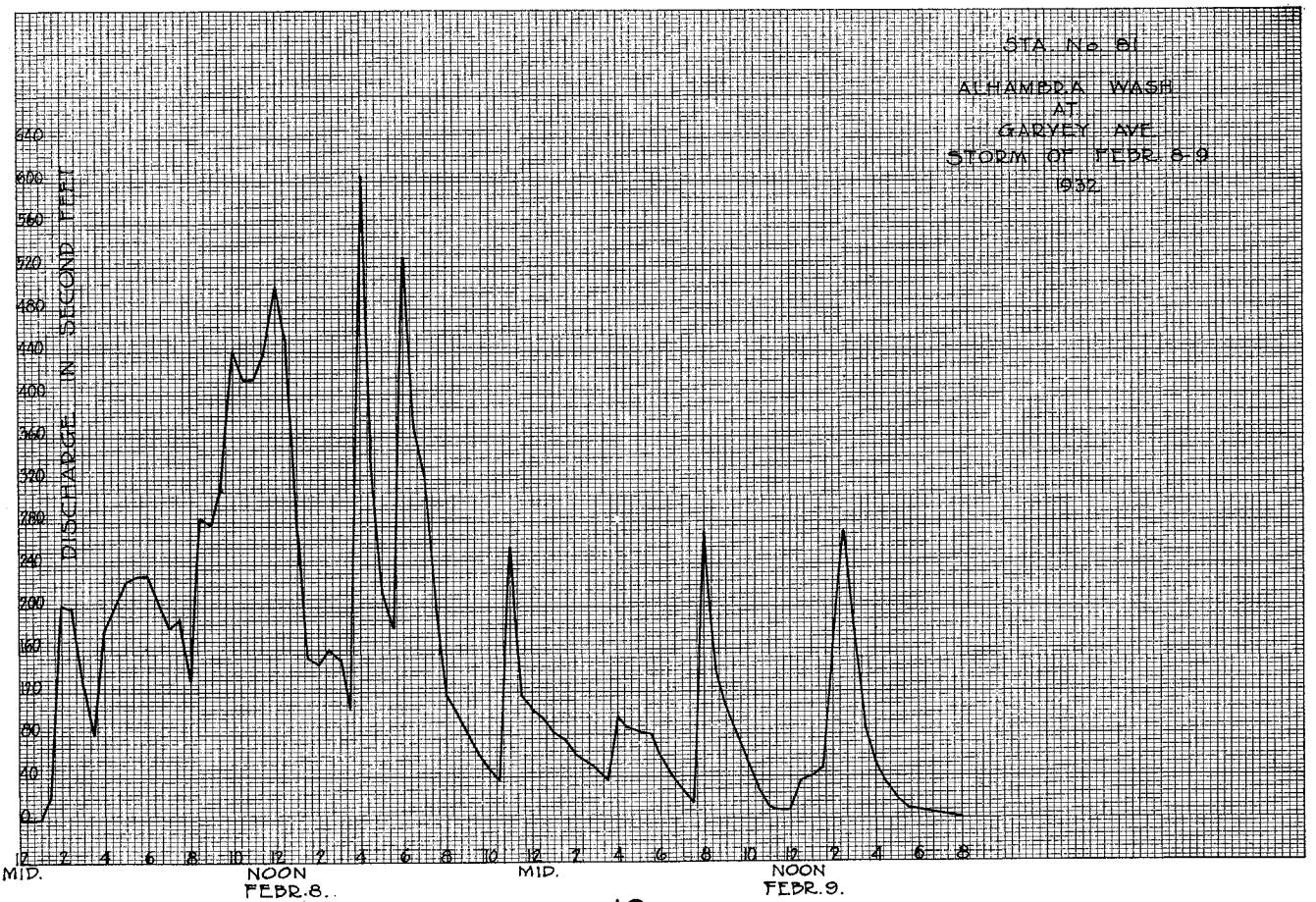
Maximum stage 3.50 feet at 9:30 AM on 1-31-32 Discharge 1120.0 second-feet.
Minimum stage 0.0 feet at ______ on 2-1932-10-1-32 Discharge 0.0 second-feet.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1								DRY	H	56.6														
2							H	2.86	.01	.9														
3						DRY																		
4										DRY														
5																								
6																								
7																								
8				DRY	H	29.6			H	220.0														
9					H	5.60		DRY	H	55.3														
10																								
11																								
12						DRY																		
13		DRY								DRY														
14					H	16.6						DRY		DRY		DRY		DRY		DRY		DRY		DRY
15			H	33.2			.01	.90																
16									H	46.4														
17						DRY			.02	1.80														
18				DRY					H	10.6														
19																								
20																								
21					H	5.60																		
22																								
23						DRY		DRY		DRY														
24																								
25					H	42.8																		
26						DRY																		
27			H	87.2																				
28					H	176.9																		
29				dry																				
30						DRY																		
31							H	186.4																
TOTAL,				120.4		277.1		190.2		391.6														
Mean Daily Discharge in Second-feet				4.01		8.94		6.13		13.50														
Second-feet per square mile																								
Run-off, depth in inches																								
Run-off in acre-feet				238.81		549.63		377.6		776.74														
Maximum Mean Daily Discharge in Second-feet				87.2		176.9		186.4		220.0		0.0												
Minimum Mean Daily Discharge in Second-feet				0.0		0.0		0.0		0.0		0.0												

PERIOD YEAR — Run-off in acre-feet: 1942.78

Quarter: First RL, Second RL, Third RL, Fourth HV — Computed, Checked, Date
Quarter: First RL, Second RL — Disch. applied, Disch. checked, Date
Quarter: First RL, Second RL — G. H. copied, G. H. checked, Date


STA. NO. 81
ALHAMBRA WASH
AT
GARVEY AVE.
STORM OF JAN. 31
1932
1120
DISCHARGE IN SECOND FEET
1000
900
800
700
600
500
400
300
200
100
0
MID.
NOON
JAN-31, 1932
MID.


STA. No. 61
ALHAMBRA WASH
AT
GARVEY AVE.
STORM OF FEBR. 8-9
1932
DISCHARGE IN SECOND FEET
640
600
560
520
480
440
400
360
320
280
240
200
160
120
80
40
0
MID.
NOON
FEBR. 8.
MID.
NOON
FEBR. 9.

F-102 R

ALHAMBRA EAST WASH AT S.P.R.R. MAIN LINE EAST

Location
On south side of Culvert where the Southern Pacific Railroad's Main Line East crosses Alhambra East Wash near Alhambra, California.

Drainage Area
6.85 square miles

Installed by
Los Angeles County Flood Control District on October 1, 1930

Records Available
October 1, 1930 to September 30, 1932 at office of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Stevens L type 8 day water stage recorder installed in small house on top of a corrugated iron pipe stilling well, attached to downstream wing wall of culvert on west side.

Discharge Measurements
Low water measurements made by wading.
High water measurements made from foot bridge at gage.

Channel and Control
Concrete channel with drop below gage
good control

Extremes of Discharge
1930-1931
Maximum-930 c.f.s. on April 26, 1931
Minimum-Dry most of year
1931-1932
Maximum- 625 c.f.s. Nov. 27, 1931
Minimum-Dry most of year

Diversions
None

Regulation
None

Accuracy
Fair

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

F.C. Dist. Form 106 III 12-32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F-C-102

Discharge measurements of East Alhambra Wash

XX XXXX Below S.P. R. R. Culvert, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Percent diff.	Method	Coef.	Meas. secs.	G.Ht. change Total	Time Hours	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.			
	1931													382
1	11/15	Lindsay	20.0	14.9	5.04	.68	75.1		.6		5	0.04	7/60	885
2	27	Burke & Lindsay	28.2	31.1	7.5	1.43	232.6		.6		7	.38	1/10	271
3	12/8	" & Donaldson	20.0	22.7	6.73	0.98	152.6		.6		6	0		637
4	14	Burke	19.	6.83	3.29	.42	22.45		.6		8	.05	1/3	"
5	14	" & Donaldson	20.	17.4	6.13	.82	106.9		.6		6	.10	1/6	"
6	28	"	20.	11.0	4.75	.63	52.4		.6		6	.13	5/12	"
7	28	"	24.5	34.5	10.2	1.89	351.1		.6		11	.22	1/3	"
	1932													
8	1/31	Burke & Hedge	25.	21.3	6.19	.91	131.2		.6		8	.15	.08	"
9	31	" & Donaldson	25.	25.5	7.90	1.23	201.6		.6		8	.10	1/6	"
10	2/8	Burke	20.	22.6	6.76	.96	152.5		.6		5	.10	5/12	"
11	8	" & Donaldson	25.	26.4	7.88	1.25	208.0		.6		9	0	1/4	"
12	8	"	25.	26.2	7.98	1.19	209.3		.6		7	.32	1/3	"

F.C. Dist.--Form 105--1000--9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of EAST ALHAMBRA WASH

At Near S.P.R.R. for the Year Ending September 30, 19

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 102

Drainage Area 6.85 Square Miles. [LINDSAY Observer.] Gage Read Used rating table dated 1931-1932

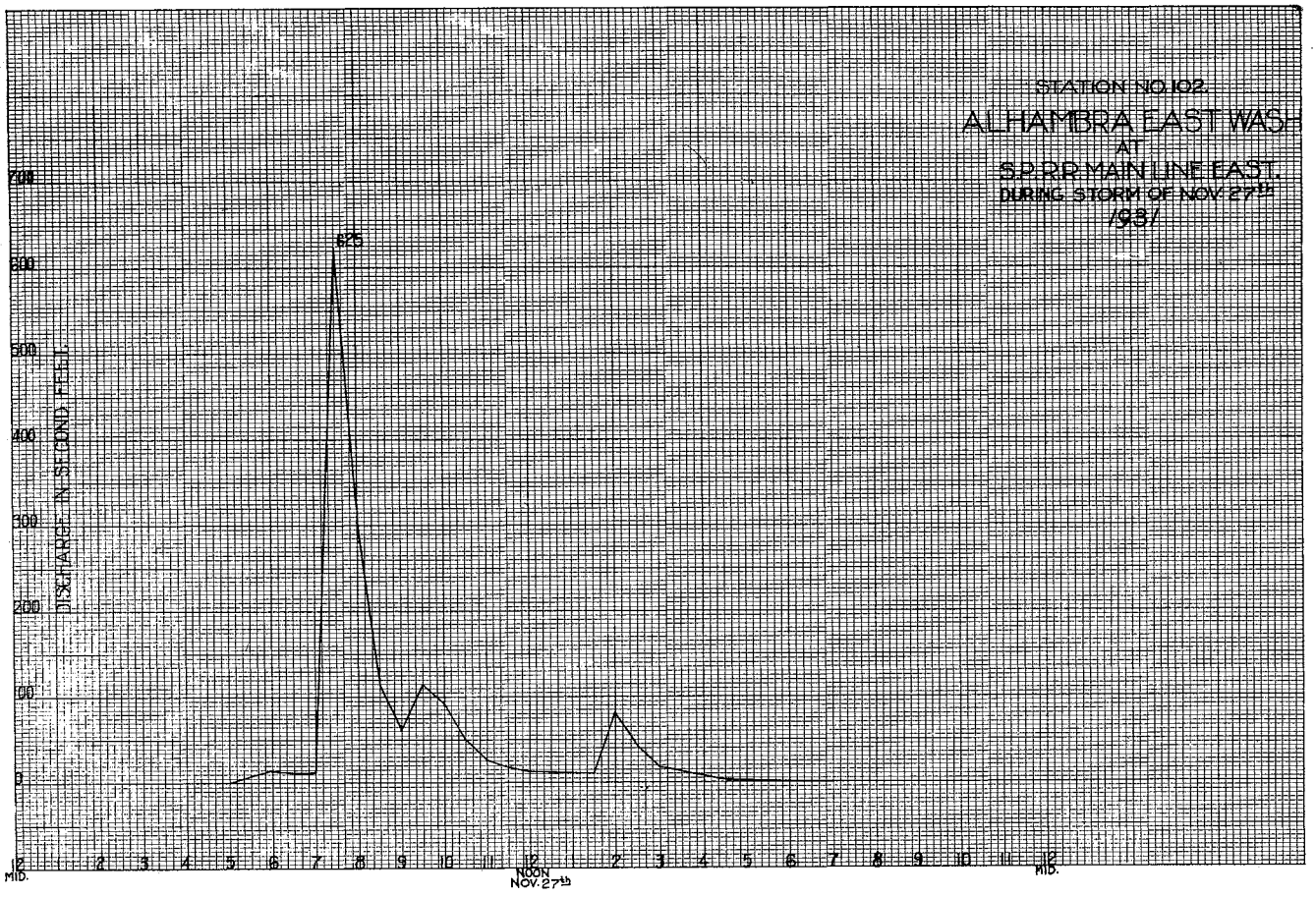
Maximum stage 2.50 feet at 7:30 A.M. on Nov. 27, 1931 Discharge 625.00 second-feet.
Minimum stage Dry feet at midnight on of year Discharge second-feet.

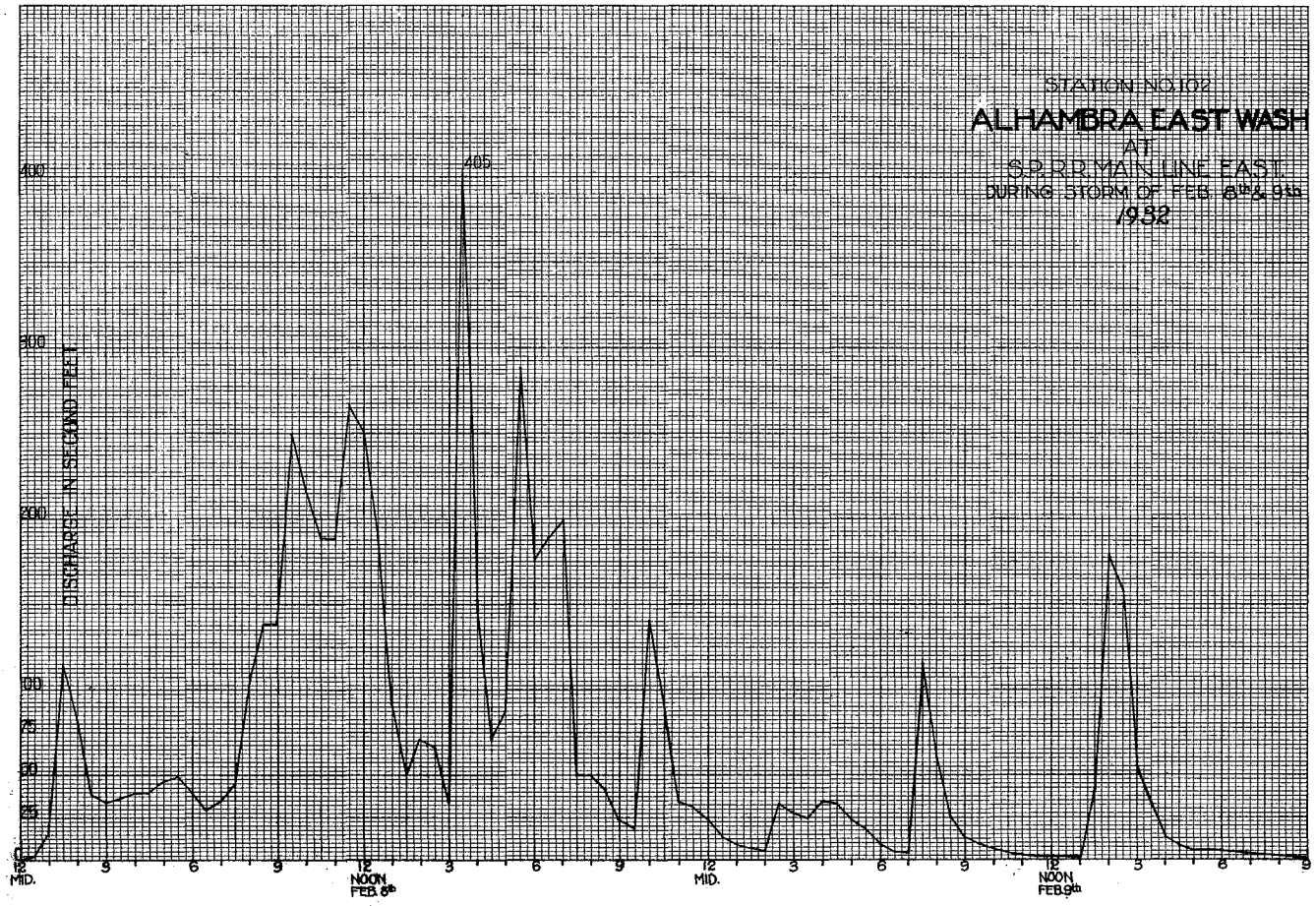
DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1								DRY	H	20.8		
2							H	.42	H	2.91		
3						DRY						
4										DRY		
5												
6									.01	.20		
7								DRY		DRY		
8	DRY		DRY		H	22.00			H	100.77		
9					H	2.52			H	21.44		
10					Dry							
11						.01	.20					
12						DRY						
13							.01	.20		DRY		
14					H	14.73		Dry				DRY
15			H	19.91			H	4.93				
16									H	25.21		
17									.04	.80		
18	.01	.20				DRY			H	6.21		
19												
20			DRY									
21					H	.58						
22								DRY				
23						DRY						
24	DRY									DRY		
25					H	39.51						
26												
27			H	34.86		DRY						
28					H	100.20						
29												
30			DRY			DRY						
31							H	91.75				
TOTAL		.20		54.77		179.74		97.52		178.20		
Mean Daily Discharge in Second-feet		.0065		1.83		5.70		2.99		6.14		
Second-feet per square mile		.0001		0.30		0.94		0.49		1.01		
Run-off, depth in inches												
Run-off in acre-feet		0.40		108.64		356.51		193.43		353.46		
Maximum Mean Daily Discharge in Second-feet		.20		34.86		100.20		91.75		100.77		
Minimum Mean Daily Discharge in Second-feet		0.0		0.0		0.0		0.0		0.0		

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1												
2												
3												
4												
5												
6												
7												
8												
9												
10	Removed Recorder April 10											
11												
12												
13												
14	DRY		DRY		DRY		DRY		DRY		DRY	
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

Computed R.H.L. 1/15/33
Checked R.H.L.
Ditch applied
Ditch checked
G. H. copied
G. H. checked

PERIOD YEAR 1012.44


STATION NO. 102.
ALHAMBRA EAST WASH
AT
S.P.R.R. MAIN LINE EAST.
DURING STORM OF NOV. 27th
1931
DISCHARGE IN SECOND FEET
625
700
600
500
400
300
200
100
0
12 MID.
NOON NOV. 27th
MID.


STATION NO. 102
ALHAMBRA EAST WASH
AT
S.P.R.R. MAIN LINE EAST.
DURING STORM OF FEB. 8th & 9th
1932
DISCHARGE IN SECOND FEET
405
400
300
200
100
75
50
25
0
12 MID.
NOON FEB. 8th
MID.
NOON FEB. 9th

F-103 R

ALHAMBRA WEST WASH AT S.P.R.R. MAIN LINE EAST

Location
On south side of culvert where the Southern Pacific Railroad Main Line East crosses Alhambra West Wash near Alhambra, California.

Drainage Area
3.5 square miles.

Installed by
The Los Angeles County Flood Control District October 1, 1930.

Records Available
From October 1, 1930 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
Stevens L type 8 day water stage recorder installed in small shelter house on top of a corrugated iron pipe stilling well on downstream side attached to westwing wall of culvert.

Discharge Measurements
Low water measurements made by wading
High water measurements made from foot bridge, at gage.

Channel and control
Concrete channel, good control, drop below gage.

Extremes of Discharge
1930-1931
Maximum-648.5 c.f.s. on April 26, 1931
Minimum-Dry most of year
1931-1932
Maximum-455 c.f.s. November 27, 1931
Minimum-Dry most of year.

Diversions
None

Regulations
None

Accuracy
Fair

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

F. C. Dist. Form 104 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 103

Discharge measurements of Alhambra West Wash

at S.P.R.R. Main Line, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating Percent diff.	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
1	11-15	Lindsay	16.0	19.6	5.59	.78	109.6		.6		4	.15	7/60	282 883
2	11-27	Burke-Lindsay	20.0	29.32	12.30	1.80	361.5		.6		6		1/2	271 637
3	12-8	" Donaldson	16.0	13.48	4.26	.54	57.4		.6		5		1/4	"
4	12-14	Burke	16.0	6.84	3.37	.41	23.0		.6		5	.10	1/3	"
5	12-14	"	16.0	15.40	5.17	.70	79.6		.6		5	.16	1/4	"
6	12-28	"	16.0	11.60	4.41	.47	51.1		.6		5	.05	1/3	"
7	12-28	"	22.5	24.28	10.18	1.39	247.2		.6		11	.28	1/2	"
8	12-28	"	22.5	19.86	8.89	1.26	176.61		.6		13	.38	"	"
9	1-31	Burke-Donaldson	22.0	19.81	9.81	1.20	194.3		.6		7		1/3	"
10	1-31	" Hedge	21.0	22.74	10.54	1.32	239.7		.6		8		1/6	"
11	2-8	Burke	16.0	20.72	5.02	.64	104.1		.6		4	.08	1/4	"
12	2-8	Burke-Donaldson	22.0	15.77	8.75	.85	138.0		.6		8	.10	1/5	"
13	2-8	Burke	16.0	14.16	4.43	.56	62.7		.6		5	.04	"	"
14	2-8	"	22.0	24.60	10.69	1.38	262.9		.6		7	.24	1/4	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 103

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of WEST ALHAMBRA WASH

At/Near S.P.R.R. for the Year Ending September 30, 1932

Drainage Area 3.47 Square Miles. [HARTING - BURKE Observer.] Gage Read CONTINUOUS Used rating table dated

Maximum stage 2.10 feet at ~~7:00 A.M.~~ on Nov. 27th, 1931 Discharge 455.0 second-feet.
Minimum stage 0.0 feet at Various on dates Discharge second-feet.

Day	Oct. Gage height	Oct. Discharge	Nov. Gage height	Nov. Discharge	Dec. Gage height	Dec. Discharge	Jan. Gage height	Jan. Discharge	Feb. Gage height	Feb. Discharge	Mar. Gage height	Mar. Discharge
1								Dry	H	11.8		
2								3.09	H	2.2		
3										Dry		
4				DRY		DRY				"		
5										"		
6									.02	.2		
7								DRY	.02	.2		
8					H	19.1			H	68.8		
9					.05	.6			H	9.3		
10						Dry						
11			.01	.10	.06	.80						
12			0	Dry		Dry	.02	.2		DRY		
13			0	"		Dry		Dry				
14		DRY	.005	.05	H	9.9		"				
15			H	14.10		8.0			H	.92		
16									H	19.4		
17									.05	.6		DRY
18						DRY			H	3.44		
19				DRY				DRY				
20												
21					H	.7						
22						Dry						
23						Dry				DRY		
24						"						
25					H	30.3						
26						Dry						
27			H	63.2		"						
28			Dry		H	79.8						
29				DRY		Dry						
30						"						
31					.10	1.8	H	62.9				
TOTAL,		.10		77.45		112.7		74.19		116.86		
Mean Daily Discharge in Second-feet		.003		2.58		3.64		2.39		4.03		
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		.20		153.62		223.54		147.16		1231.79		
Maximum Mean Daily Discharge in Second-feet		.10		63.2		79.8		62.9		68.8		
Minimum Mean Daily Discharge in Second-feet		0.0		0.0		0.0		0.0		0.0		

Day	April	May	June	July	August	September
10	Recorder					
11	Removed					
14	DRY	DRY	DRY	DRY	DRY	DRY

Period / Year: Run-off in acre-feet 756.31

Quarter: First R.L.; Second R.L.; Third R.H.L. & H.V. 1/9/33 — Computed / Checked / Date
Quarter: First R.L.; Second R.L. — Disch. applied / Disch. checked / Date
Quarter: First R.L.; Second R.L. — G. H. copied / G. H. checked / Date

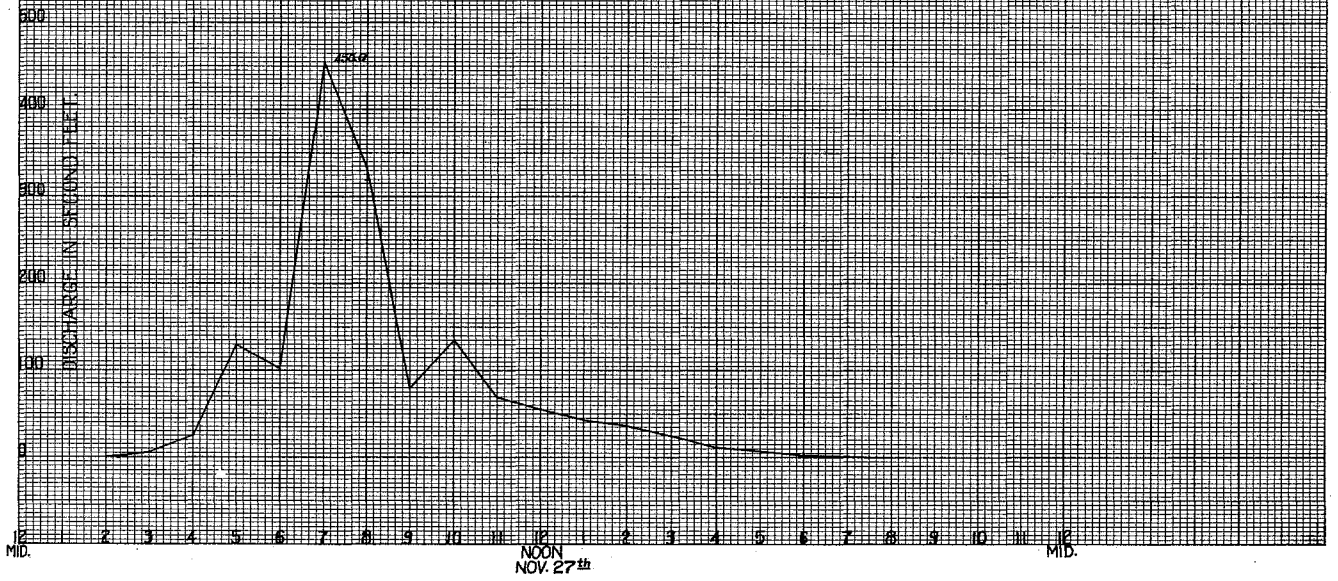
STATION NO. 103.

ALHAMBRA WEST WASH

AT

S.P.RR. MAIN LINE EAST.

DURING STORM OF NOV. 27th 1933.



STA. No. 103.

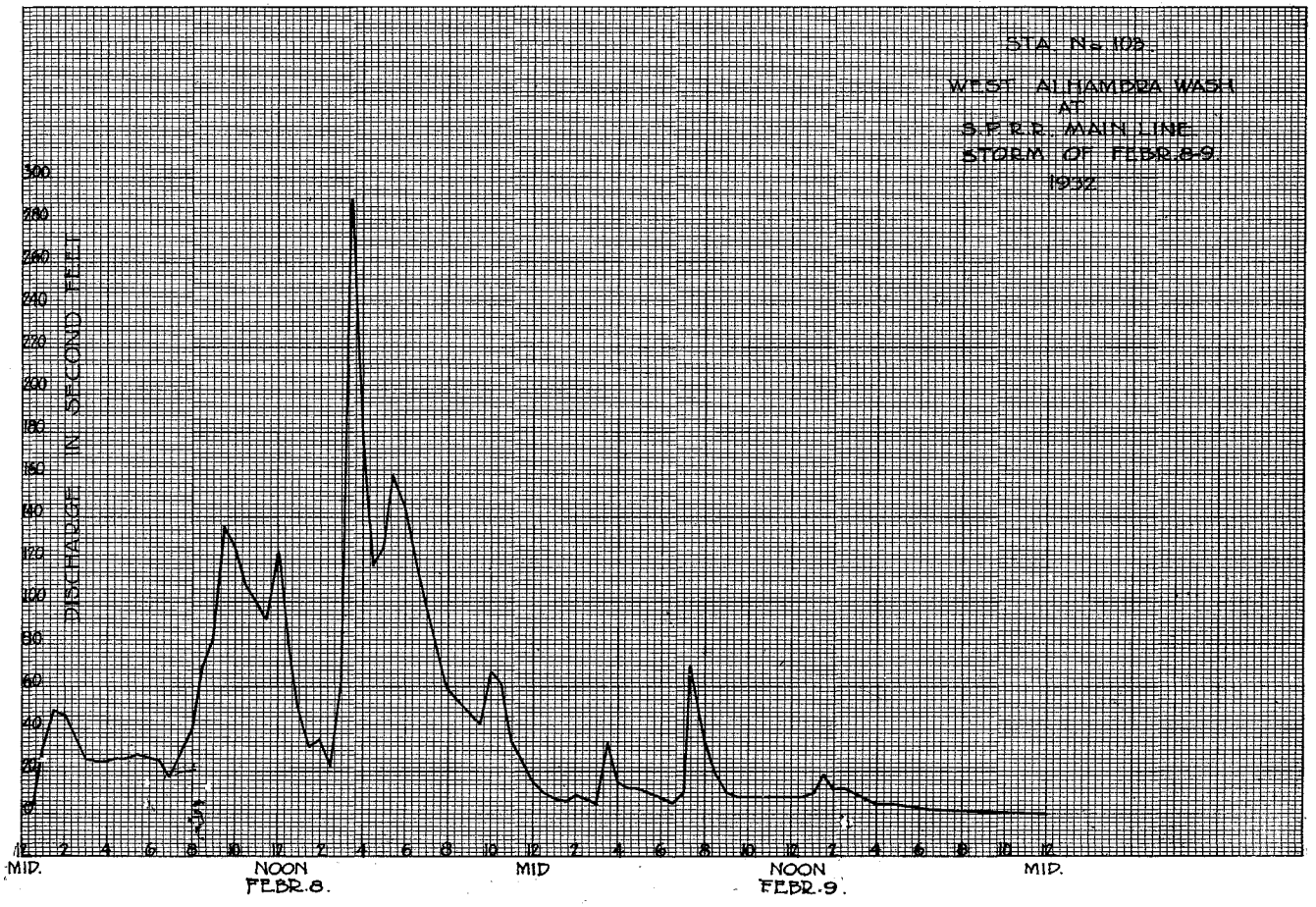
WEST ALHAMBRA WASH

AT

S.P.R.R. MAIN LINE.

STORM OF FEBR. 8-9.

1932



F-38 R

BALLONA CREEK AT CENTINELA BLVD. NEAR CULVER CITY

Location
On Highway Bridge over Ballona Creek at Centinela Boulevard about 2½ miles southwest of Culver City.

Drainage Area
112 square miles.

Installed by
Los Angeles County Flood Control District, February 27, 1928.

Records Available
February 27, 1928 to September 30, 1932 at Los Angeles County Flood Control District, Los Angeles, California.

Gage
An 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 southeast bank of stream.

Discharge Measurements
Low flows measured by wading near gage
High flows measured from cable car 200 feet above recorder gage.

Channel
Fine sand, silt and adobe.

Control
No control.

Extremes of Discharge
1927-1928
Maximum-1100 c.f.s. May 8, 1928
Minimum-Dry at various times during year
1928-1929
Maximum-4990 c.f.s. March 10, 1929
Minimum-Dry at various times during year.
1929-1930
Maximum-4463 c.f.s. January 11, 1930
Minimum-Dry at various times during year.
1930-1931
Maximum-6280 c.f.s. April 26, 1931
Minimum-Dry at various times during year.
1931-1932
Maximum-6130 c.f.s. Dec. 28, 1931
Minimum-Dry at various times during year.

F-38 R

Diversion
Gravel plant at Duquesne Street, and ranches divert small amounts of water.

Regulation
None.

Accuracy
Fair.

Operation
Located and constructed by Los Angeles County Flood Control District and operated with the assistance of the Los Angeles City Storm Drain Department and the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of BALLONA CREEK

at CREEK Centinela Blvd. Near Culver City, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10/30	Hardgrove				4.24	.45		Weir					
3	11/13	"	4.0.	.80	1.0	4.22	.83		.6		4		1/12	F.C. 7
4	11/15	Hardgrove - Case	61.	23.7	4.17	8.78	987.		.6		9	.55	2/5	F.C. 20
5	11/20	" - Meunier	4.0.	.70	1.17	4.58	.82		.6		4		1/12	F.C.
6	11/27	Ashley - Weinstock	65.	258	4.50	8.78	1159		.6		7	.75	1/2	F.C. 20
7	11/27	" "	60.	195	3.5	8.15	683		.6		8	.50	1/3	"
8	12/8	Hardgrove-Burright	60.	202	3.6	7.80	731		.6		8	.72	2/5	L.A. #1 City
9	8	Ashley - Weinstock	62.	275	4.43	8.90	1220		.6		7	.20	1/4	"
10	8	" "	62.	271	4.35	9.05	1180		.6		7	.10	1/6	"
11	8	" "	64.	303	4.95	9.45	1500		.6		7	.30	1/6	"
12	8	" "	64.	319	5.18	9.80	1650		.6		8	.40	1/4	"
13	8	" "	64.	320	5.13	10.0	1640		.6		7	.40	1/3	"
14	8	" "	64.	323	4.90	9.6	1580		.6		8	.40	1/4	"
15	8	" "	56.	379	5.64	10.5	2140		.6		7	1.00	2/5	"
16	8	Hardgrove-Burright	66.	332	4.65	10.4	1542		.6		9	.70	2/5	"
17	11	" "	60.	240	4.23	8.35	1021		.6		8	.90	2/5	"
18	11	" "	55.	282	4.04	8.87	1138		.6		13	.15	2/5	"
19	11	" "	55.	246	4.03	8.82	992		.6		9	.25	1/4	"
20	14	" "	62.	226	3.58	8.35	810		.6		12	.10	2/5	"
21	14	" "	61.	190	3.08	8.02	585		.6		12	.52	1/3	"
22	14	" "	61.	187	3.30	7.85	617		.6		12	.10	1/2	"
23	14	" "	61.	194	3.62	8.04	702		.6		12	.72	1/3	"
24	14	" "	61.	208	3.43	8.29	714		.6		9	.18	1/3	"
25	14	" "	61.	255	4.02	8.92	1026		.6		9	.85	3/10	"
26	14	" "	61.	274	4.17	9.30	1143		.6		9	.30	5/12	"
27	21	" "	63.	292	4.96	9.20	1448		.6		9	.70	1/5	"

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of BALLONA CREEK

at CREEK Centinela Blvd. near Culver City, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
28	12/21	Hardgrove-	64	280.	4.56	9.65	1278		.6		13	.30	1/4	L.A. #1 City
29	21	" Burfight	64	333	4.85	10.0	1615		.6		9	.29	1/3	"
30	21	" "	64	332	4.78	10.3	1587		.6		9	.35	3/10	"
31	25	" "	67	380	5.92	11.0	2250		.6		9	.30	1/2	"
32	25	" "	65	375	4.46	10.2	1675		.6		13	.60	2/5	"
33	25	" "	66	371	5.27	10.4	1975		.6		9	.70	1/6	"
34	25	" "	68	414	5.63	11.1	2330		.6		10	.40	1/5	"
35	25	" "	68	422	5.66	11.3	2390		.6		10	0	1/4	"
36	25	" "	68	378	6.16	11.0	2330		.6		10	.25	1/6	"
37	26	Hardgrove	19	10.6	1.52	4.88	16.2		.6		8	0	1/4	"
38	28	Hardgrove-Ashley	62	315	6.85	9.97	2160		.6		7	.05	1/6	"
39	28	Hardgrove-Weinstock	66	421	6.43	11.0	2710		.6		8	1.0	1/6	"
40	28	" "	66	453	8.61	12.0	3900		.6		8	1.05	1/5	"
41	28	" "	93	570	9.31	13.1	5300		.6		9	1.30	1/3	"
42	28	" "	110	681	7.86	14.6	5347		.6		12	.05	1/3	"
43	28	" "	115	836	6.69	14.4	5590		.6		12	.10	1/3	"
44	28	" "	125	776	7.28	14.3	5650		.6		12		5/12	"
45	31	Meunier	6.0	3.14	1.84	4.40	5.85		.6		6		1/6	271 588
	1932													
45a	1/2	Hardgrove	49	39.3	1.45	5.06	57.1		.6		11	.04	2/3	F.C. 20
46	8	Meunier	10	3.40	1.15	4.38	3.93		.6		5		1/12	271 588
47	9	Hardgrove	7	2.40	1.72	4.35	4.13		.6		7		1/6	282 588
48	15	Hardgrove-Burright	63	308	4.98	9.30	1536.		.6		9	.55	1/5	L.A. #1 City
49	15	" "	63	301	4.51	9.40	1357		.6		9	.29	1/4	"
50	15	" "	62.	285	4.84	8.96	1266		.6		12	.33	1/2	"
51	15	" "	61.	255	4.07	9.24	1038		.6		8	.12	1/4	"
52	15	" "	58	149	3.43	7.20	512.		.6		12	.40	1/4	"

F. C. Dist. Form 104 BB 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of BALLONA CREEK

at Centinela Blvd. Near Culver City, during the year ending September 30, 1932

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	
	1932													282
53	12/16	Hardgrove-Burright	11	4.98	1.49	4.45	7.43		.6		11	.01	1/6	891 #2
54	22	Hardgrove	3	.63	1.33	4.44	.84		.6		3		1/4	"
55	27	"	33	13.8	1.44	4.65	19.8		.6		11		1/4	"
56	1/29	"				4.17	0.14		Weir					
57	2/1	Hardgrove-Burright	60	231	3.70	8.4	855		.6		12	.70	1/2	L.A.#1 City
58	1	" "	59	199	3.29	7.95	654		.6		12	.30	1/4	"
59	5	Hardgrove	9	3.49	0.80	4.46	2.78		.6		8		1/4	282 891
61	8	" "	68	414	5.55	11.5	2296.		.6		10	.25	1/6	L.A.#1 City
62	8	" "	70	451	5.92	11.9	2672		.6		10	.30	2/5	"
63	8	Ashely-Weinstock	76	475	6.87	12.6	3264		.6		8	.05	1/5	"
64	8	" "	75	553	6.54	12.6	3614		.6		9	.10	1/4	"
65	8	" "	70	471	7.05	12.7	3321		.6		8	.10	1/4	"
66	8	" "	70	516	6.71	12.7	3464		.6		9	.10	3/10	"
67	8	" "	73	523	6.87	12.9	3593		.6		9	.30	3/10	"
68	8	" "	92	551	6.87	13.2	3790		.6		9	.20	"	"
69	8	" "	74	516	5.95	12.6	3066		.6		8	.70	"	"
70	8	" "	71	488	5.88	12.0	2866		.6		8	.60	1/5	"
70a	8	Hardgrove-Burright	65	328	4.16	10.2	1364		.6		13	.70	1/3	"
71	8	" "	64	332	3.57	9.57	1187		.6		9	.65	"	"
72	8	Ashley-Weinstock	62	280	4.05	9.20	1136		.6		12	.0	2/5	"
73	8	" "	65	389	5.41	10.7	2101		.6		7	.55	1/3	"
74	8	" "	67	425	5.10	11.0	2168		.6		7	.25	"	"
75	8	Hardgrove-Burright	67	430	5.15	11.0	2215		.6		7	.25	1/4	"
76	9	" "	60	248	4.20	8.95	1035		.6		12	.30	1/3	"
77	9	Hardgrove	61	274	5.00	9.32	1367		.6		9	.35	1/4	"
78	11	Hardgrove-Burright	30	11.5	1.55	5.09	17.9		.6		15	.02	"	"
79	16	" "	64	267	5.40	9.82	1440		.6		9	.15	3/10	282 91

F. C. Dist. Form 104 BB 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Discharge measurements of BALLONA CREEK

at Centinela Blvd. near Culver City, during the year ending September 30, 1932

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	
	1932													282
80	1/16	Hardgrove-Burright	64	290	5.66	10.2	1640		.6		13	.60	1/4	891
81	20	" "	15.5	7.72	1.35	5.40	10.4		.6		8	0	1/4	"
82	26	Hardgrove	14.0	4.80	1.06	5.24	5.09		.6		7	0	1/4	"
83	3/4	"	10.	4.54	1.05	5.20	4.34		.6		5	0	1/6	"
84	3/11	"	6.0	1.77	1.13	5.09	2.00		.6		6		1/6	"
85	18	"	3.0	.75	1.24	5.19	.93		.6		3		1/12	"
86	25	"	7.0	2.14	.92	5.04	1.97		.6		6		1/6	"
87	4/1	"	Estimate				3.0							
88	8	"	5.0	.99	1.24	4.99	1.25		.6		5		1/6	"
89	15	"		Dry										
90	22	"	4.0	.73	.93	5.06	.68		.6		4		1/5	"
91	5/14	"				-	.52		Weir					
92	21	"				-	.10		"					
93	28	"	4.0	.77	.91	4.99	.70		.6		4		1/4	282 891
94	6/4	"	5.0	1.61	1.37	5.06	2.21		.6		5		1/4	"
95	11	"				4.98	.41		Weir					
96	17	"				Dry								
97	25	"				"								
98	7/2	"	7.0	1.79	.79	5.04	1.42		.6		7		1/6	282 891
99	8	"				Dry								
100	9	"	5.0	1.02	.70	4.98	.71		.6		5		1/10	282 891
101	8/5	"	Estimate				.10							
102	19	"				Dry								
104	9/28	Keifer	65	263	4.01	8.1	1057		.6		8	.20	2/5	F.C. 18

F. C. Dist.—Form 105—1000—9-31

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

At Centinella Boulevard Near Culver City, for the Year Ending September 30, 1932

Drainage Area 112.0 Square Miles. (Hardgrove Observer.)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 38

Gage Read Continuous

Used rating table dated Oct. 1, 1931 to Sept. 30, 1932

Maximum stage 15.07 feet at 12:38 PM on Dec. 28, 1931 Discharge 6131.0 second-feet.
Minimum stage 0 feet at Various times during year second-feet.

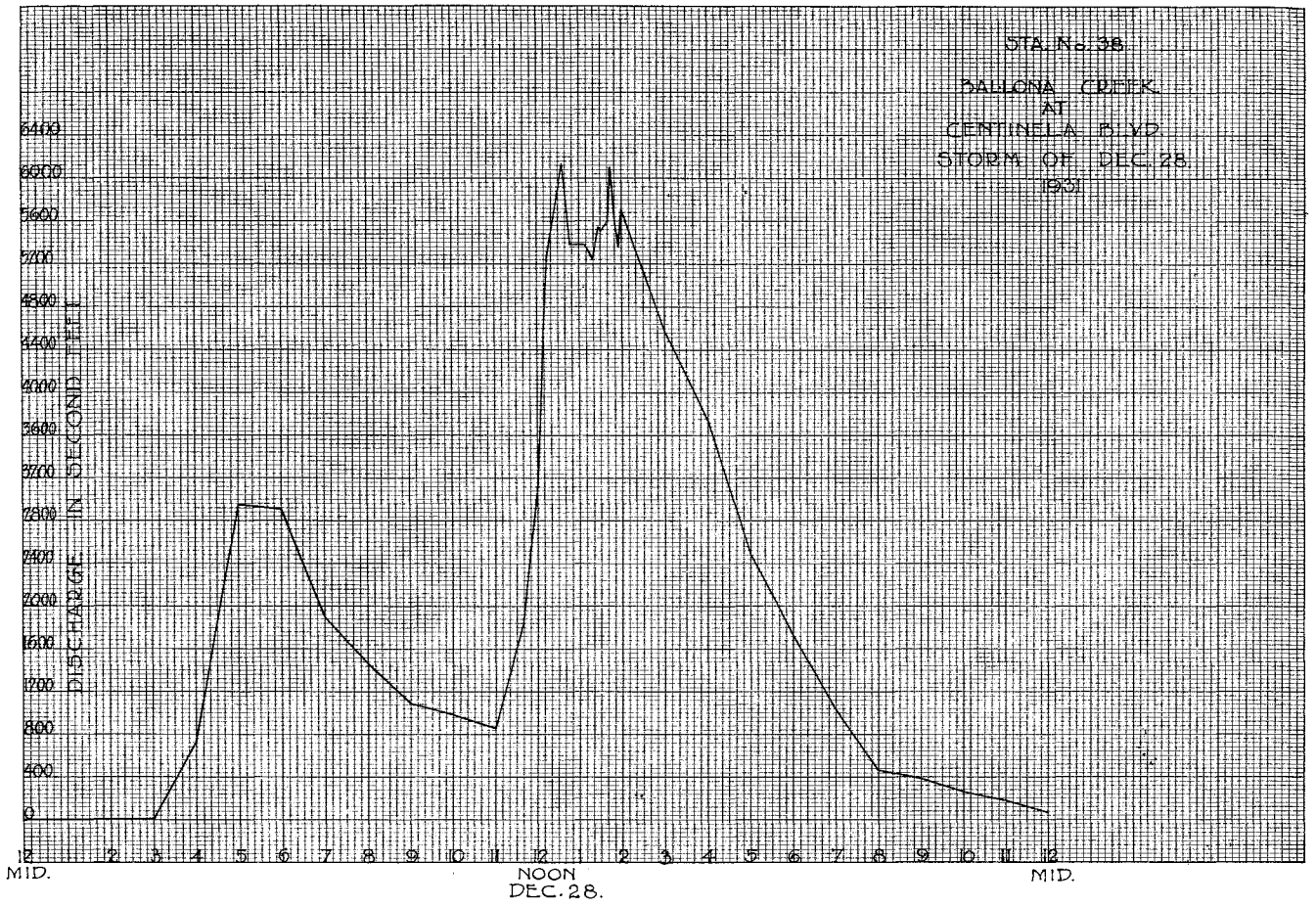
Adjustment curve used on gage heights.

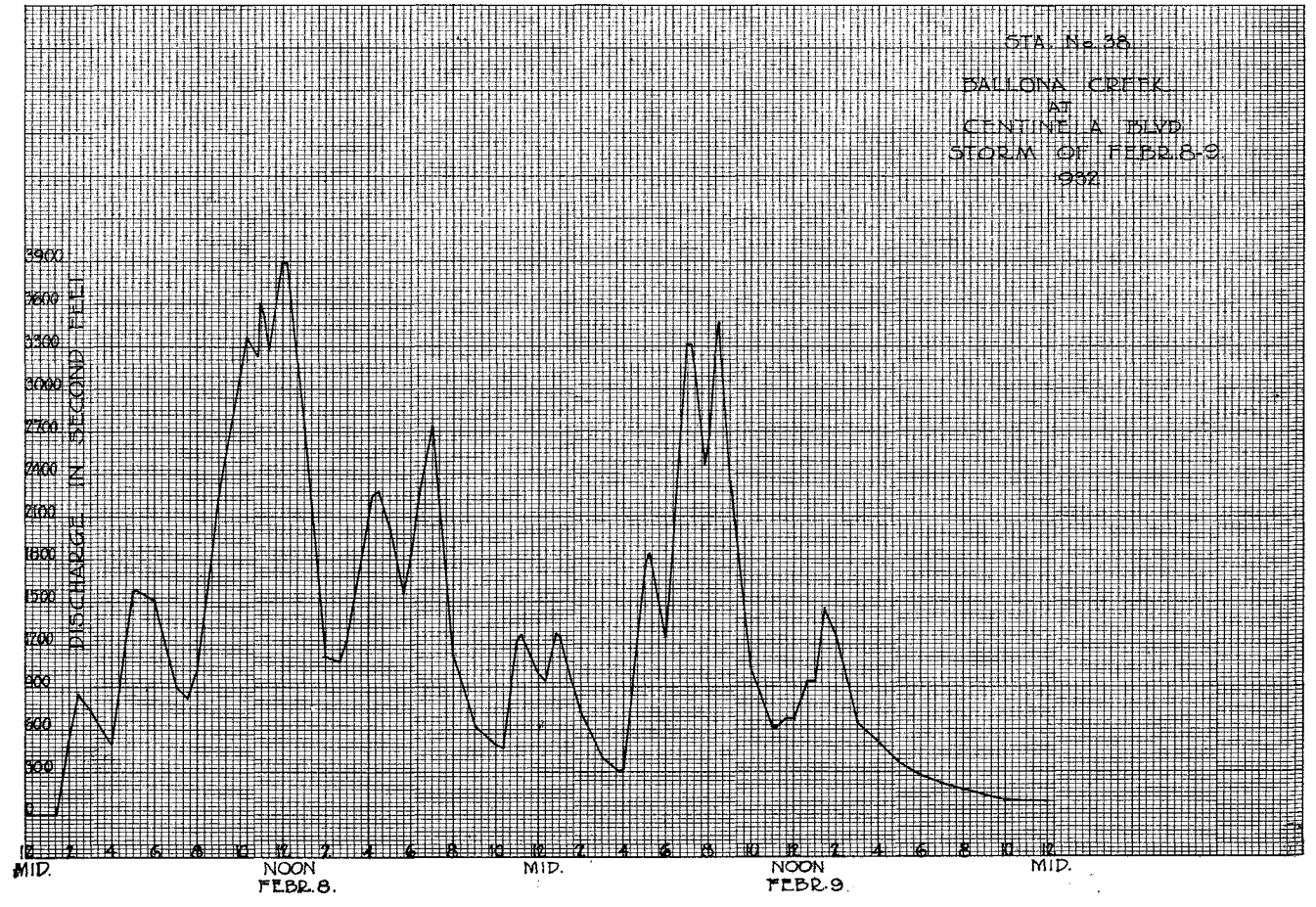
Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	4.17	.40	4.26	1.45	4.36	3.49	4.52	7.80	H	307.7	4.40	4.45
2	4.17	.40	4.18	.45	4.36	3.49	H	113.5	H	59.85	4.44	5.53
3	4.17	.40	4.23	1.00	4.36	3.49	4.43	5.26	4.93	21.78	4.39	4.23
4	4.15	.30	4.23	1.00	4.34	3.01	4.43	5.26	4.65	11.85	4.40	4.45
5	4.15	.30	4.24	1.15	4.36	3.49	4.42	4.99	4.32	2.53	4.40	4.45
6	4.08	.04	4.25	1.30	4.34	3.01	4.40	4.45	H	5.79	4.51	7.50
7	4.20	.55	4.32	2.53	4.32	2.53	4.40	4.45	4.79	16.47	4.49	6.93
8	4.22	.85	4.30	2.05	H	495.3	4.38	3.97	H	1540.4	4.46	6.12
9	4.20	.55	4.20	.55	5.23	46.50	4.44	5.53	H	932.3	4.36	3.49
10	4.25	1.30	4.18	.45	4.83	17.88	4.38	3.97	5.38	48.00	4.36	3.49
11	4.27	1.60	H	4.57	H	138.7	4.46	6.07	5.24	37.00	4.31	2.29
12	4.09	.05	4.20	.55	4.62	10.86	4.61	10.53	5.32	42.00	4.34	3.01
13	4.25	1.30	4.25	1.30	4.53	8.10	H	38.12	5.50	62.00	4.27	1.60
14	4.20	.55	4.24	1.15	H	392.0	4.38	3.97	H	114.6	4.30	2.05
15	4.20	.55	H	479.3	4.85	18.60	H	255.7	5.06	28.00	4.43	5.26
16	4.18	.45	4.67	12.51	4.72	14.16	4.56	9.00	H	634.7	4.30	2.05
17	4.17	.40	4.58	9.60	4.68	12.84	4.48	6.66	H	103.9	4.19	.50
18	4.37	3.73	4.46	6.12	4.68	12.84	4.43	5.26	H	68.08	4.16	.35
19	4.25	1.30	4.42	4.99	4.67	12.51	4.36	3.49	4.88	19.68	4.17	.40
20	4.40	4.45	4.29	1.90	4.67	12.51	4.33	2.77	4.62	10.88	4.17	.40
21	4.23	1.00	4.28	1.75	H	293.2	4.28	1.75	4.58	9.60	4.20	.55
22	4.25	1.30	4.21	.70	5.00	25.00	4.18	.45	4.52	7.80	4.23	1.00
23	4.18	.45	4.23	1.00	5.00	25.00	4.32	2.53	4.52	7.80	4.26	1.45
24	4.20	.55	4.33	2.77	5.00	25.00	4.36	3.49	4.49	6.93	4.29	1.90
25	4.31	2.29	4.54	8.40	H	640.1	4.45	5.80	4.48	6.66	4.40	4.45
26	4.33	2.77	4.67	12.51	4.75	15.15	4.54	8.40	4.41	4.72	4.42	4.99
27	4.23	1.00	H	417.8	4.64	11.52	4.83	17.88	4.42	4.99	4.39	4.21
28	4.20	.55	4.53	8.10	H	1778.	4.44	5.53	4.43	5.26	4.40	4.45
29	4.17	.40	4.46	6.12	5.51	63.30	4.25	1.30	4.44	5.53	4.31	2.29
30	4.24	1.15	4.38	3.97	4.59	9.90	4.35	3.25	-	-	4.37	3.73
31	4.20	.55	-	-	4.65	11.85	H	775.3	-	-	4.33	2.77
TOTAL,		31.48		1000.04		4113.33		1326.43		4126.76		100.34
Mean Daily Discharge in Second-feet		1.02		33.33		132.69		42.79		142.30		3.24
Second-feet per square mile		.009		.298		1.185		.382		1.271		.029
Run-off, depth in inches												
Run-off in acre-feet		62.42		1983.08		8156.73		2630.31		8183.37		198.97
Maximum Mean Daily Discharge in Second-feet		4.45		479.3		1778.0		775.3		1540.4		7.50
Minimum Mean Daily Discharge in Second-feet		.04		.45		2.53		.45		2.53		.35

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period Year
1	4.45	5.80	4.22	.85	4.06	.03	4.18	.45	4.22	.85	4.13	.20	
2	4.48	6.66	4.01	.01	4.08	.04	4.20	.55	4.07	.04	Dry	0	
3	4.38	3.97	4.07	.04	4.20	.55	4.10	.05	4.05	.03	4.04	.03	
4	4.33	2.77	4.01	.01	4.47	6.39	4.16	.35	4.05	.03	4.03	.02	
5	4.30	2.05	4.01	.01	4.33	2.77	4.14	.25	4.05	.03	4.01	.01	
6	4.32	2.53	4.07	.04	4.27	1.60	4.17	.40	4.11	.10	Dry	0	
7	4.29	1.90	4.22	.85	4.19	.50	4.11	.10	4.09	.05	"	0	
8	4.24	1.15	4.10	.05	4.14	.25	4.16	.35	4.05	.03	"	0	
9	4.29	1.90	4.07	.04	4.07	.04	4.12	.15	Dry	0	"	0	
10	4.24	1.15	4.08	.04	4.10	.05	4.18	.45	"	0	"	0	
11	4.27	1.60	4.11	.10	4.09	.05	4.08	.04	"	0	"	0	
12	4.30	2.05	4.08	.04	4.12	.15	4.04	.03	"	0	"	0	
13	4.31	2.29	4.11	.10	4.02	.02	Dry	0	"	0	"	0	
14	4.28	1.75	4.10	.05	4.03	.02	"	0	4.06	.03	"	0	
15	4.25	1.30	4.16	.35	4.05	.03	"	0	4.04	.03	"	0	
16	4.27	1.60	4.13	.20	4.17	.40	"	0	4.10	.05	"	0	
17	4.25	1.30	4.14	.25	Dry	0	4.04	.03	4.02	.01	"	0	
18	4.20	.55	4.12	.15	4.32	2.53	4.08	.04	4.04	.03	"	0	
19	4.26	1.45	4.15	.30	4.10	.05	4.32	2.53	Dry	0	"	0	
20	4.27	1.60	4.15	.30	Dry	0	4.05	.03	"	0	4.06	.03	
21	4.38	3.97	4.15	.30	4.06	.03	Dry	0	4.02	.02	Dry	0	
22	4.25	1.30	4.18	.45	4.01	.01	Dry	0	Dry	0	"	0	
23	4.25	1.30	4.01	.01	4.02	.02	4.35	3.25	"	0	"	0	
24	4.20	.55	4.08	.04	4.03	.02	4.12	.15	4.04	.03	"	0	
25	H	46.00	4.08	.04	4.08	.04	Dry	0	Dry	0	"	0	
26	H	28.09	4.11	.10	4.07	.04	Dry	0	"	0	"	0	
27	4.37	3.73	4.12	.15	4.01	.01	4.08	.04	"	0	"	0	
28	4.33	2.77	4.10	.05	4.03	.02	4.08	.04	"	0	"	0	
29	4.15	.30	4.12	.15	4.01	.01	4.03	.03	"	0	H	102.3	
30	4.07	.03	4.14	.25	4.40	4.45	4.02	.01	"	0	4.74	14.82	
31	-	-	4.07	.04	-	-	4.12	.15	4.17	.40	-	-	
TOTAL,		133.41		5.36		20.12		9.47		1.76		117.41	
Mean Daily Discharge in Second-feet		4.45		.17		.67		.31		.06		3.91	
Second-feet per square mile		.040		.002		.006		.003		.001		.035	
Run-off, depth in inches													
Run-off in acre-feet		264.55		10.63		39.90		18.78		3.49		232.82	21,785.05
Maximum Mean Daily Discharge in Second-feet		46.00		.85		6.39		3.25		.85		102.3	
Minimum Mean Daily Discharge in Second-feet		.03		.01		0		0		0		0	

Computed WTK; Checked O.E.S., H.A.V.; Date 11-16-32

Disch. applied; Disch. checked; Date; G. H. copied; G. H. checked; Date


STA. No. 38
BALLONA CREEK
AT
CENTINELA BLVD.
STORM OF DEC. 28
1931
DISCHARGE IN SECOND FEET
6400
6000
5600
5200
4800
4400
4000
3600
3200
2800
2400
2000
1600
1200
800
400
0
12 2 3 4 5 6 7 8 9 10 11 12 2 3 4 5 6 7 8 9 10 11 12
MID.
NOON
DEC. 28.
MID.


STA. No. 38
BALLONA CREEK
AT
CENTINELA BLVD.
STORM OF FEBR. 8-9
1932
DISCHARGE IN SECOND FEET
3900
3600
3300
3000
2700
2400
2100
1800
1500
1200
900
600
300
0
12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
MID.
NOON
FEBR. 8.
MID.
NOON
FEBR. 9.
MID.

F-21 R

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, Los Angeles County California.

Drainage Area
11 square miles.

Installed by
Los Angeles County Flood Control District, August, 1927.

Records Available
August 19, 1927-September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
An continuous water stage recorder located in rubble concrete house on east bank of stream between gaging bridge and weir. Staff gage on stilling well.

Discharge Measurements
Low water flows made by wading near gage. High water measurements made from gaging bridge 15 feet above gage.

Channel and Control
Channel-sand, rock and gravel.
Control-35' rubble-concrete control with 24" cippoletti weir 12" deep, located 18' below recorder house.

Extremes of Discharge
1927-1928
Maximum-16 c.f.s. February 5, 1928
Minimum-.02 c.f.s. January 26-30, 1928.
1928-1929
Maximum-10. c.f.s. September 11, 1928
Minimum-.19 c.f.s. January 26, 1929

F-21 R

Extremes of Discharge Cont'd.
1929-1930
Maximum-3.62 c.f.s. April 12, 1930
Minimum-.20 c.f.s. at various times during year.
1930-1931
Maximum-8.90 c.f.s. February 20, 1931
Minimum-.16 c.f.s. April 5, 1931.
1931-1932
Maximum-111.80 c.f.s. December 28, 1931
Minimum-0.34 c.f.s. February 2, 1932

Diversion
None above gage, Irrigation canal diverts 300' below gage.

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

Accuracy
Good.

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

Discharge measurements of Big Santa Anita Creek

at ½ mi. Below F. C. Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-2	Lindsay	4.3	.76	1.36	.64	1.02		.6		7		1/6	282 683
2	10-9	"	4.8	1.18	1.64	.76	1.94		.6		8		"	"
3	10-16	"	4.4	1.02	1.49	.70	1.46		.6		7		"	"
4	10-23	"	4.5	1.04	1.51	.71	1.57		.6		7		"	"
5	10-30	"	4.5	.89	1.51	.69	1.34		.6		7		"	"
6	11-6	"	4.5	.94	1.40	.69	1.32		.6		7		"	"
7	11-13	"	4.7	1.08	1.57	.72	1.70		.6		8		"	"
8	11-20	"	4.7	1.06	1.58	.72	1.68		.6		8		1/4	"
9	11-30	"	4.8	.95	1.53	.74	1.61		.6		7		1/6	"
10	12-4	Lindsay-Cole	4.7	.97	1.72	.74	1.67		.6		7		1/7	"
11	12-10	Lindsay	4.9	.98	1.82	.67	1.78		.6		7		1/6	"
12	12-23	"	4.5	1.04	1.67	.69	1.74		.6		8		1/6	"
13	12-30	Harting-Laird	9.5	9.70	2.52	1.62	24.40		.6		10		1/5	271 655
14	1932 1-5	Lindsay	8.6	5.65	1.55	1.25	5.66		.6		9		1/4	282 683
15	1-8	Lindsay-Harting	8.2	3.30	1.42	1.25	4.72		.6		8		1/5	"
16	1-15	Lindsay	8.2	2.61	1.08	1.16	2.81		.6		8		1/4	"
17	1-21	"	7.9	2.19	1.00	1.10	2.18		.6		8		1/4	"
18	1-28	"	8.2	2.51	1.11	1.20	2.79		.6		8		1/6	"
19	2-5	Harting	18.2	16.48	2.15	1.66	35.22		.6		12		1/3	271 655
20	2-12	Cole	17.0	22.55	4.27	2.08	90.65		.6		9		1/2	282 683
21	2-17	Lindsay	15.7	16.34	2.34	1.71	38.25		.6		8		1/6	"
22	2-19	"	15.2	15.45	2.34	1.69	36.65		.6		10		1/4	"
23	2-27	"	11.0	7.05	.67	1.06	4.72		.6		8		1/6	"
24	3-3	"	11.3	7.67	.60	1.04	4.60		.6		8		"	"
25	3-10	"	11.5	7.54	.68	1.04	5.13		.6		11		1/4	"
26	3-10	Ash	7.7	6.89	.75	1.04	4.67		.6		8		"	662
27	3-18	Lindsay	10.6	6.98	.71	1.02	4.87		.6		8		"	282 683
28	3-26	"	10.8	6.76	.62	1.04	4.23		.6		7		1/6	"

Discharge measurements of Big Santa Anita Creek

at ½ mi. Above F. C. Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	4-2	Lindsay	9.8	6.72	.66	1.04	4.41		.6		7		1/6	282 683
30	4-8	"	10.0	6.73	.61	1.04	4.08		.6		7		"	"
31	4-15	"	10.0	6.76	.69	1.02	4.64		.6		10		1/4	"
32	4-22	"	4.6	2.36	.66	.71	1.55		.6		5		1/10	"
33	4-28	"	2.3	1.16	1.49	.70	1.73		.6		4		1/12	"
34	5-5	"	2.2	1.09	1.65	.71	1.80		.6		4		"	"
35	5-12	"	2.2	1.10	1.63	.70	1.79		.6		4		"	"
36	5-19	"	2.2	1.13	1.42	.71	1.61		.6		4		"	"
37	5-27	"	2.2	1.27	1.93	.78	2.48		.6		4		1/10	"
38	6-10	"	2.2	1.21	1.89	.76	2.29		.6		4		1/12	"
39	6-17	"	4.0	1.61	1.14	.76	1.84		.6		4		1/6	"
40	6-24	"	4.0	1.59	1.19	.75	1.90		.6		4		1/12	"
41	7-8	"	4.1	1.45	1.44	.76	2.09		.6		6		1/7	"
42	7-8	"	4.0	1.59	1.17	.76	1.86		.6		5		1/12	"
43	7-15	"	4.1	1.55	1.55	.75	2.07		.6		4		"	"
44	7-15	"	4.0	1.62	1.16	.75	1.87		.6		4		"	"
45	7-22	"	4.0	1.86	1.44	.85	2.67		.6		4		"	"
46	7-29	"	5.0	1.94	1.29	.85	2.50		.6		5		1/6	"
47	8-5	"	5.0	1.96	1.42	.85	2.78		.6		5		1/12	"
48	8-12	"	5.0	1.88	1.32	.85	2.48		.6		5		1/6	"
49	8-19	Brewster	4.0	1.95	1.73	.85	3.37		.6		4		1/6	271 666
50	8-26	"	4.0	2.09	1.58	.85	3.30		.6		4		"	"
51	8-26	"	5.0	1.94	1.32	.85	2.56		.6		5		1/12	"
52	9-2	"	4.0	1.82	1.80	.85	3.28		.6		4		1/6	"
53	9-2	"	5.0	2.00	1.29	.85	2.58		.6		5		1/10	"
54	9-8	Lindsay	5.2	1.94	1.27	.85	2.47		.6		5		1/12	282 683
55	9-16	"	5.3	1.96	1.38	.85	2.71		.6		5		"	"
56	9-23	"	5.2	1.94	1.31	.84	2.57		.6		5		"	"
57	9-30	"	5.5	2.01	1.27	.85	2.55		.6		5		1/10	"

F.C. Dist.—Form 105 --1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 21

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of BIG SANTA ANITA CREEK

Below Flood Control Dam **for the Year Ending September 30, 19**32

Drainage Area 11.05 Square Miles. [R. Lindsay Observer.] Gage Read Continuous Used rating table dated 10-1-31 to 9-30-32

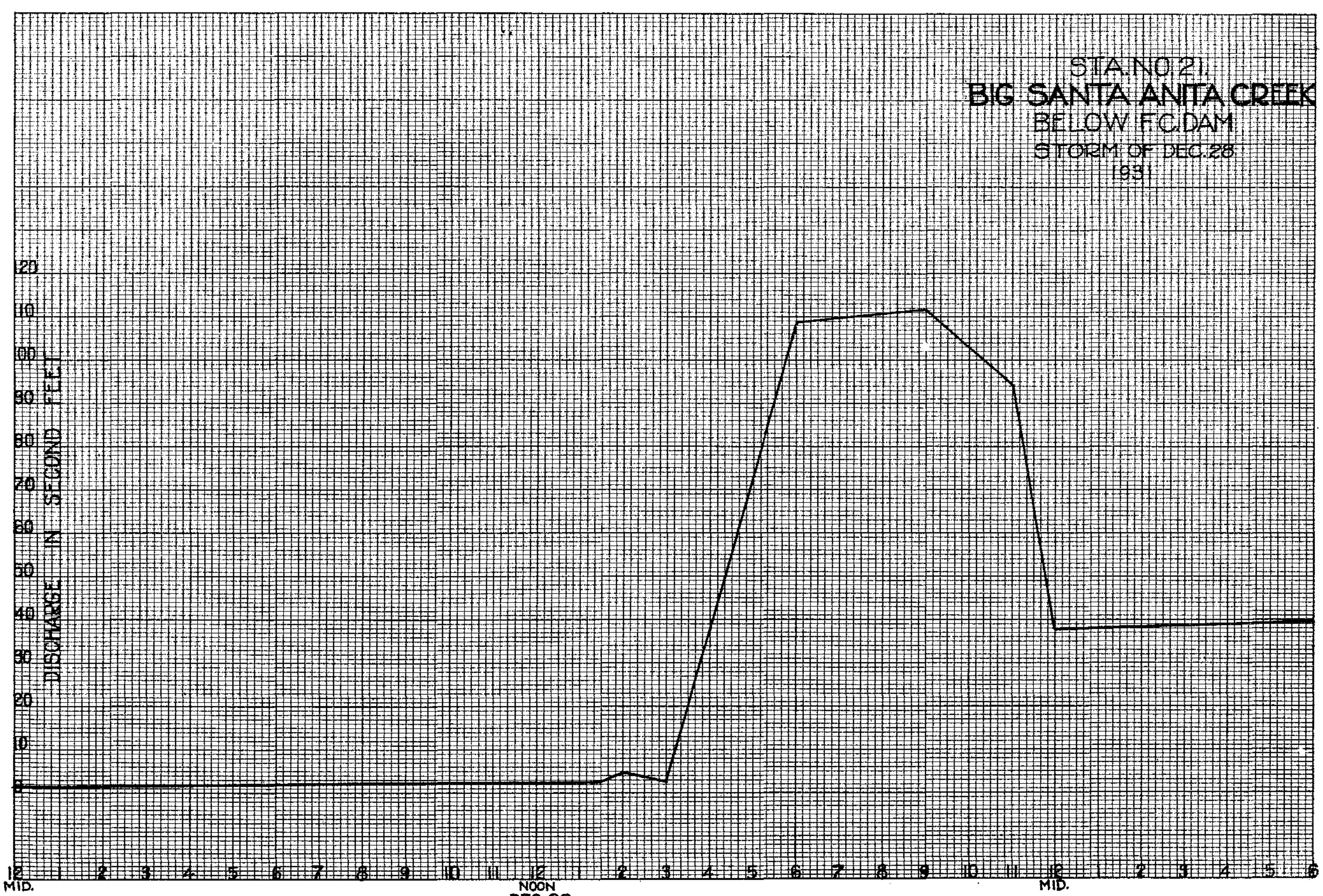
Maximum stage 2.21 feet at 9:00 PM on Dec. 28, 1931 Discharge 111.80 second-feet.
Minimum stage .55 feet at ... on 2-3-32 Discharge .34 second-feet.

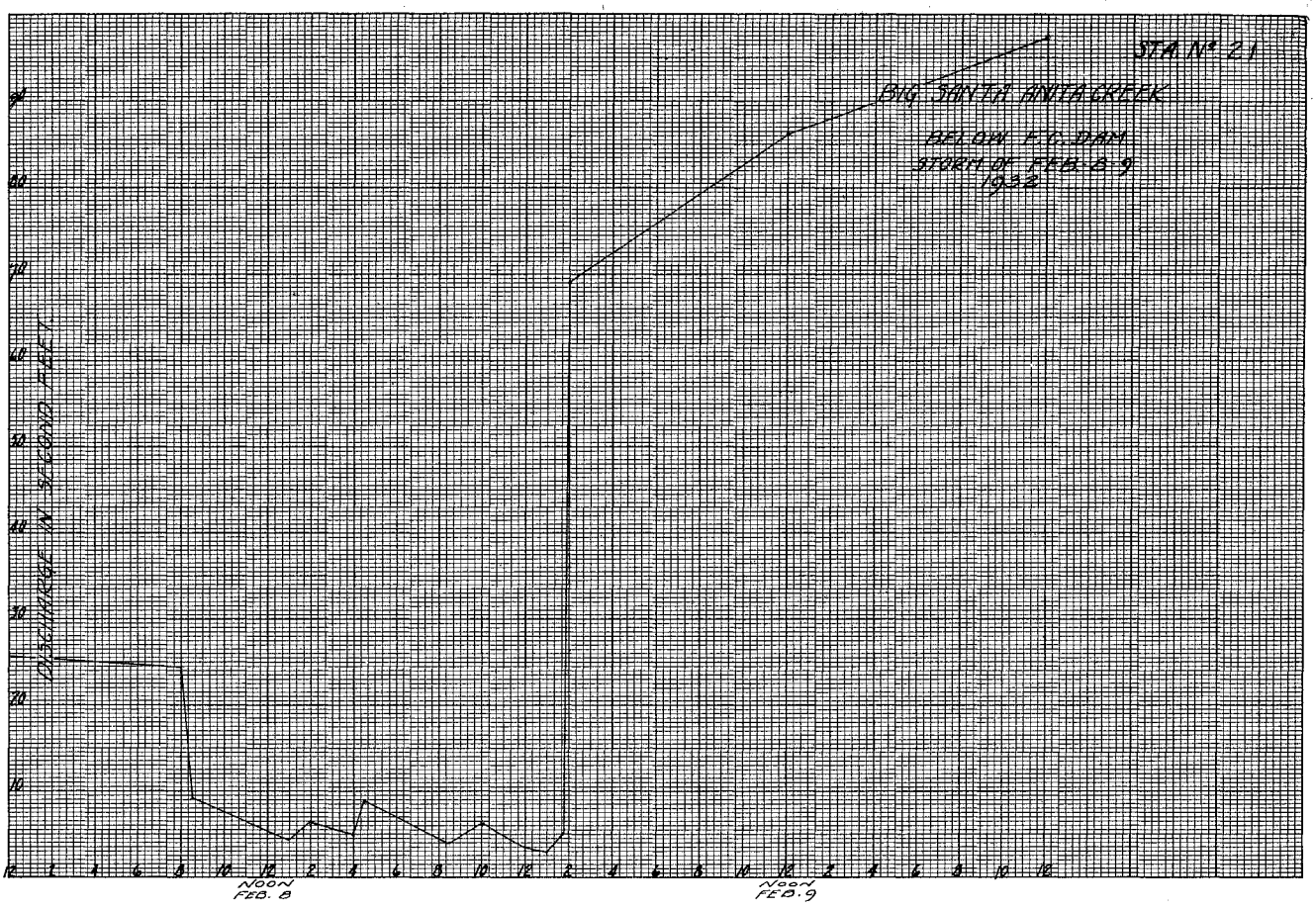
Interpolated

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	#	.70	.58	.58	.57	.50	1.39	15.61	.63	0.98	1.01	5.20
2	#	.60	.58	.58	.56	.42	1.32	13.02	.57	.50	.99	4.85
3	.57	0.50	.57	.50	.57	.50	1.23	10.20	.55	.34	.98	4.68
4	.60	.74	.57	.50	.57	.50	1.10	6.96	H	49.44	.99	4.85
5	.60	.74	.57	.50	.57	.50	1.03	5.57	H	61.97	1.00	5.02
6	.60	.74	.57	.50	.57	.50	1.01	5.20	1.64	31.20	.99	4.85
7	.56	.42	.57	.50	.56	.42	1.01	5.20	1.59	27.20	1.00	5.02
8	.60	.74	.58	.58	.58	.58	.97	4.52	H	12.60	1.00	5.02
9	.59	.66	.58	.58	.60	.74	.91	3.65	H	78.87	1.00	5.02
10	.58	.58	.58	.58	H	1.17	.89	3.39	2.09	92.60	1.03	5.57
11	.57	.50	.59	.66	.73	1.78	.86	3.02	2.10	94.20	1.00	5.02
12	.57	.50	.60	.74	.73	1.78	.85	2.91	2.07	89.40	.99	4.85
13	.56	.42	.60	.74	.73	1.78	.90	3.52	H	76.77	.99	4.85
14	.56	.42	.60	.74	.74	1.86	.85	2.91	1.70	36.80	1.00	5.02
15	.56	.42	.61	.82	.74	1.86	.85	2.91	1.71	37.90	1.00	5.02
16	.56	.42	.60	.74	.74	1.86	.88	3.26	1.71	37.90	1.01	5.20
17	.57	.50	.59	.66	.74	1.86	.83	2.70	1.73	40.20	1.02	5.38
18	.60	.74	.59	.66	.74	1.86	.82	2.60	1.70	36.80	1.00	5.02
19	.59	.66	.59	.66	.74	1.86	.81	2.50	1.70	36.80	1.00	5.02
20	.58	.58	.60	.74	.74	1.86	.80	2.40	1.66	33.00	1.00	5.02
21	.58	.58	.60	.74	.74	1.86	.78	2.22	1.69	35.80	.98	4.68
22	.57	.50	.59	.66	.74	1.86	.79	2.31	1.66	33.00	.97	4.52
23	.58	.58	.59	.66	.73	1.78	.79	2.31	1.63	30.40	.96	4.36
24	.58	.58	.64	1.06	.72	1.70	.80	2.40	1.58	26.40	.96	4.36
25	.58	.58	.71	1.62	.72	1.70	.81	2.50	H	18.95	.95	4.21
26	.58	.58	.71	1.62	.70	1.54	.78	2.22	1.02	5.38	.95	4.21
27	.58	.58	.66	1.22	.71	1.62	.77	2.13	.99	4.85	.95	4.21
28	.57	.50	.61	.82	H	33.14	.78	2.22	.98	4.68	.96	4.36
29	.57	.50	.59	.66	1.76	43.80	.78	2.22	1.00	5.02	.96	4.36
30	.58	.58	.57	.50	H	27.46	.69	1.46	-	-	.96	4.36
31	.58	.58	-	-	1.47	19.30	.59	.66	-	-	.97	4.52
TOTAL,		17.72		22.12		159.93		124.72		1039.95		148.63
Mean Daily Discharge in Second-feet		0.572		0.737		5.160		4.023		35.860		4.795
Second-feet per square mile		0.0517		0.0667		0.4670		0.3650		3.2453		0.4339
Run-off, depth in inches		0.060		0.074		0.5383		0.4198		3.500		0.5002
Run-off in acre-feet		35.148		43.875		317.221		247.382		2062.741		294.808
Maximum Mean Daily Discharge in Second-feet		0.74		1.62		43.80		15.61		94.20		5.57
Minimum Mean Daily Discharge in Second-feet		0.42		.50		.42		.66		.34		4.21

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	YEAR
1	.97	4.52	.72	1.70	.83	2.70	.74	1.86	.81	2.50	.82	2.60	
2	.97	4.52	.72	1.70	.83	2.70	.74	1.86	.81	2.50	.82	2.60	
3	.97	4.52	.72	1.70	.82	2.60	.75	1.95	.81	2.50	.82	2.60	
4	.95	4.21	.72	1.70	.82	2.60	.75	1.95	.81	2.50	.82	2.60	
5	.95	4.21	.73	1.78	.82	2.60	.74	1.86	.81	2.50	.82	2.60	
6	.95	4.21	.73	1.78	.81	2.50	.74	1.86	.81	2.50	.81	2.50	
7	.94	4.06	.73	1.78	.80	2.40	.74	1.86	.81	2.50	.81	2.50	
8	.94	4.06	.73	1.78	.79	2.31	.74	1.86	.81	2.50	.81	2.50	
9	.95	4.21	.73	1.78	.79	2.31	.74	1.86	.81	2.50	.81	2.50	
10	.96	4.36	.73	1.78	.79	2.31	.73	1.78	.81	2.50	.81	2.50	
11	.97	4.52	.73	1.78	.79	2.31	.73	1.78	.81	2.50	.82	2.60	
12	.96	4.36	.73	1.78	.78	2.22	.74	1.86	.81	2.50	.82	2.60	
13	.96	4.36	.73	1.78	.78	2.22	.74	1.86	.81	2.50	.82	2.60	
14	.97	4.52	.72	1.70	.76	2.04	.74	1.86	.81	2.50	.82	2.60	
15	.96	4.36	.73	1.78	.75	1.95	.74	1.86	.81	2.50	.83	2.70	
16	1.02	5.38	.72	1.70	.75	1.95	.74	1.86	.81	2.50	.83	2.70	
17	1.06	6.14	.72	1.70	.74	1.86	.74	1.86	.81	2.50	.83	2.70	
18	.99	4.85	.72	1.70	.70	1.54	.75	1.95	.82	2.60	.83	2.70	
19	H	3.00	.71	1.62	.67	1.30	.79	2.31	.82	2.60	.83	2.70	
20	.69	1.46	.71	1.62	.66	1.22	.83	2.70	.82	2.60	.81	2.50	
21	.70	1.54	.71	1.62	.67	1.30	.83	2.70	.82	2.60	.80	2.40	
22	.70	1.54	.72	1.70	.70	1.54	.83	2.70	.82	2.60	.80	2.40	
23	.71	1.62	.72	1.70	.72	1.70	.84	2.80	.82	2.60	.81	2.50	
24	.71	1.62	.73	1.78	.7[illegible]	1.78	.83	2.70	.82	2.60	.80	2.40	
25	.72	1.70	.74	1.86	.74	1.86	.83	2.70	.82	2.60	.80	2.40	
26	.71	1.62	.79	2.31	.74	1.86	.83	2.70	.82	2.60	.80	2.40	
27	.72	1.70	.81	2.50	.74	1.86	.82	2.60	.82	2.60	.80	2.40	
28	.72	1.70	.81	2.50	.74	1.86	.82	2.60	.82	2.60	.79	2.31	
29	.72	1.70	.82	2.60	.74	1.86	.81	2.50	.82	2.60	.80	2.40	
30	.72	1.70	.82	2.60	.75	1.95	.81	2.50	.82	2.60	.81	2.50	
31	-		.82	2.60			.81	2.50	.82	2.60			
TOTAL,		102,27		58.41		61.21		67.60		78.90		76.01	1,957.47
Mean Daily Discharge in Second-feet		3.408		1.88		2.04		2.18		2.54		2.53	
Second-feet per square mile		.308		.77		.18		0.20		0.23		0.23	
Run-off, depth in inches													
Run-off in acre-feet		203.0		115.65		121.41		134.25		156.60		150.90	3,882.99
Maximum Mean Daily Discharge in Second-feet		6.14		2.60		2.70		2.80		2.60		2.70	94.20
Minimum Mean Daily Discharge in Second-feet		1.46		1.62		1.22		1.78		2.50		2.31	0.34

Quarter	Computed	Checked	Date	Disch. applied	Disch. checked	Date	G. H. copied	G. H. checked	Date
First	CES	RHL	5/10/32	RHL	CES	5/9/32	CES	RHL	5/9/32
Second	CES	RHL	5/10/32	RHL	CES	5/9/32	CES	RHL	5/9/32
Third	RL	RHL	1/4/33	RL	RHL	-1/4/33	RL	RHL	1/4/33
Fourth	RL	RHL	1/4/33	RL	RHL	-1/4/33	RL	RHL	1/4/33





F-20 R

BIG TUJUNGA WASH AT STONEHURST AVENUE
(MULHOLLAND STREET)

Location
Where Stonehurst Avenue (Formerly Mulholland Street) crosses Big Tujunga Wash about 3 miles S.E. of San Fernando, Los Angeles County, Calif.

Drainage Area
148 square miles.

Installed by
Los Angeles County Flood Control District Station established January 1931. Recorder placed April 29, 1932.

Records Available
Intermittant stream measurements January 1931 to April 1932. Recorder Records April 29, 1932 to September 30, 1932 at the offices of the Los Angeles County Flood Control District. Los Angeles, California.

Gage
Rational vertical water stage recorder installed in shelter house on top of corrugated iron pipe stilling well fastened to downstream end of pier near center of bridge.

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

Channel and Control
Channel is wide and composed of sand and gravel with a training channel dug down the center.
No control.

Extremes of Discharge
1931-1932
Maximum-Not determined
Minimum-Dry first part of year.

Regulation
The Los Angeles County Flood Control District's Big Tujunga Dam No. 1 situated about14 miles above the station controls part of the mountain runoff.

F-20 R

Diversions
Several irrigation companies divert low flow above the gage.

Accuracy
Fair.

Operation
Station located and constructed by the Los Angeles County Flood Control District and operated by the Los Angeles County Flood Control District in conjunction with the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 (8) 12-31

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 20

Discharge measurements of BIG TUJUNGA WASH AT STONEHURST AVENUE

at (MULHOLLAND STREET BRIDGE) Near, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. nos.	G. Ht. change Total	Time Hours	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.			F.C.
1	12/25	Luce & Lovelace	17.5	7.52	2.14		16.12		.6		9		1/6	13
2	26	Luce & Lovelace	6.4	1.90	0.85		1.61		.6		7		"	"
	1932													
3	1/22	Luce	14.9	6.85	2.08		14.23		.6		9		"	"
4	29	"	10.0	1.29	0.50		.64		.6		7		1/12	"
5	29	" Waddicor	4.0	1.22	0.62		0.76		.6		9		1/6	F.C. 27
6	31	Luce & Lovelace Turner	14.8	4.65	3.26	6.89	15.15		.6		9	.01	"	13
7	2/1	Lude, Waddicor & /	24.0	41.1	7.65	7.2	314.9		.6		6		"	F.C. 27
8	1	" " "	23.7	32.2	7.75	7.4	249.9		.6		10		"	"
9	1	" "	22.8	16.5	3.34	7.40	55.36		.6		11		1/4	F.C. 13
10	2	Waddicor - Turner	24.5	15.9	3.99		63.52		.6		10		1/6	27
11	3	Waddicor	22.5	12.1	3.74		45.33		.6		11		1/6	F.C. 27
12	8	Waddicor & Turner	24.0	17.1	4.32		73.58		.6		10		"	"
13	8	Luce & Waddicor	33.3	66.2	11.7	4.30	775.9		.6		9		1/2	"
14	9	" Waddicor-Turn.	31.0	108.	12.6	4.70	1363.		.6		5		1/8	F.C. 25
15	11	Luce & Waddicor	31.0	90.2	10.7		971.7		.6		6		1/4	"
16	12	" "	31.5	77.2	8.23	4.00	634.9		.6		9		1/3	F.C. 27
17	16	" "	35.0	62.8	7.34	3.40	462.0		.6		9		1/6	F.C. 25
18	17	" "	35.0	58.5	8.32	3.46	486.5		.6		15		1/4	27
19	18	" " & Bissell	35.0	52.2	7.32	3.35	384.8		.6		9		1/3	25
20	26	Luce & Lindsey	12.0	5.91	2.74	6.66	16.22		.6		12		1/6	F.C. 13
21	3/4	Waddicor	2.0	.23	.96		.22		.6		4		1/6	F.C. 27
22	4	"	9.0	3.34	1.02	6.40	3.39		.6		5		1/8	"
23	11	"	5.80	1.97	1.78	6.35	3.51		.6		6		"	"
24	18	Luce	9.2	3.38	1.53	6.43	5.17		.6		9		"	F.C. 13
25	25	" Lindsey	7.0	2.17	1.92		4.17		.6		7		1/12	"
26	4/1	Luce	5.50	1.37	1.60		2.20		.6		6		"	"

F. C. Dist. Form 104 (8) 12-31

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 20

Discharge measurements of BIG TUJUNGA WASH AT STONEHURST AVENUE

at (MULHOLLAND STREET BRIDGE) Near, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. nos.	G. Ht. change Total	Time Hours	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.			
27	4/8	Luce	5.0	.87	.92		.80		.6		7		1/6	F.C. 13
28	21	Luce & Waddicor	15.2	5.33	1.61		8.64		.6		9		"	"
29	30	Luce & Luce	Two Channels				8.15		.6		17		1/4	"
30	5/13	"	7.0	2.46	1.56	1.78	3.82		.6		10		1/6	"
31	13	"	5.2	1.50	0.73		1.09		.6		6		1/12	"
32	20	"	4.5	.82	0.59	1.54	.48		.6		9	.01	1/6	"
33	26	"	6.3	1.49	.85	1.64	1.26		.6		10	.01	"	"
34	6/3	"	11.5	3.63	.98	1.80	3.59		.6		15		1/4	"
5	11	"	4.5	1.51	1.16	1.66	1.75		.6		6		1/12	"
36	25	"	4.5	.94	.88	1.56	.83		.6		5		"	"
37	30	"	4.5	1.51	1.30	1.68	1.97		.6		6		"	"
38	7/8	"	5.0	2.03	2.04	1.80	4.15		.6		7		"	"
39	15	"	5.0	2.52	2.62	1.84	6.62		.6		7		1/6	"
40	22	"	5.0	2.92	2.60	1.92	7.58		.6		7		1/12	"
41	22	"	6.0	1.69	.63	1.92	1.06		.6		5		"	"
42	29	"	5.0	2.61	2.48		6.47		.6		6		"	"
43	29	"	4.0	.96	.85		.81		.6		5		"	"
44	8/5	"	5.0	1.83	1.71	1.76	3.23		.6		7		"	"
45	12	"	3.0	.78	.67	1.52	.52		.6		5		"	"
46	19	"	5.0	1.29	.92	1.59	1.19		.6		6		"	"
47	26	"	5.0	1.08	.76	1.57	.83		.6		6		"	"
48	9/2	"	5.0	1.20	.88	1.58	1.05		.6		6		"	262
49	7	C. E. Bollinger	4.4	.97	0.76	1.56	.74		.6		7		"	556 271
50	15	"	4.6	1.31	1.03	1.58	1.35		.6		7		1/6	650 "
51	22	"	4.2	1.18	.97	1.56	1.14		.6		5		"	"

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of BIG TUJUNGA WASH

At Near STONEHURST AVE (MULHOLLAND) for the Year Ending September 30, 1932

Drainage Area 148 Square Miles. [LUCE Observer.]

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F20R

Gage Read CONTINUOUS Used rating table dated

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1									M	315			1	M	2.2	1.87	9.00	1.67	1.85	1.56	.74	1.75	3.10	1.59	1.00	1
2									M	63.5			2			1.87	9.00	1.72	3.60	1.56	.74	1.74	3.10	1.60	1.10	2
3									M	45.3			3			1.87	9.00	1.75	3.10	1.56	.74	1.73	2.75	1.60	1.10	3
4											M	3.4	4			1.87	9.00	1.69	2.15	1.56	.74	1.72	2.60	1.59	1.00	4
5													5			1.87	9.00	1.69	2.15	1.56	.74	1.70	2.30	1.59	1.00	5
6													6			1.86	7.50	1.63	1.40	1.55	.67	1.67	1.85	1.58	.90	6
7													7			1.85	6.75	1.61	1.20	1.84	6.00	1.64	1.50	1.56	.74	7
8									M	73.6			8	M	0.80	1.84	6.00	1.58	.90	1.84	6.00	1.61	1.20	1.57	.82	8
9									M	776.0			9			1.83	5.55	1.63	1.40	1.79	4.05	1.58	.90	1.58	.90	9
10									M	1364.			10			1.82	5.10	1.64	1.50	1.79	4.05	1.55	.67	1.59	1.00	10
11									M	972.	M	3.5	11			1.81	4.70	1.67	1.85	1.80	4.30	1.53	.54	1.61	1.20	11
12									M	635.			12			1.80	4.30	1.59	1.00	1.81	4.70	1.52	.48	1.61	1.20	12
13													13			1.79	4.05	1.55	.67	1.82	5.10	1.53	.54	1.61	1.20	13
14													14			1.78	3.80	1.49	.33	1.83	5.55	1.55	.67	1.62	1.30	14
15													15			1.78	3.80	1.49	.33	1.83	5.55	1.56	.74	1.62	1.30	15
16									M	462.0			16			1.78	3.80	1.50	.38	1.83	5.55	1.57	.82	1.62	1.30	16
17									M	486.5			17			1.79	4.05	1.56	.74	1.83	5.55	1.59	1.00	1.61	1.20	17
18									M	384.9	M	5.2	18			1.79	4.05	1.56	.74	1.83	5.55	1.59	1.00	1.61	1.20	18
19													19			1.79	4.05	1.56	.74	1.83	5.55	1.59	1.00	1.61	1.10	19
20													20			1.75	3.10	1.56	.74	1.83	5.55	1.59	1.00	1.60	1.10	20
21													21	M	8.6	1.74	2.90	1.55	.67	1.84	6.00	1.57	.82	1.60	1.10	21
22							M	14.2					22			1.68	2.00	1.55	.67	1.84	6.00	1.57	.82	1.60	1.10	22
23													23			1.65	1.60	1.55	.67	1.83	5.55	1.56	.74	1.60	1.10	23
24													24			1.63	1.40	1.55	.67	1.83	5.55	1.56	.74	1.60	1.10	24
25					M	16.1					M	4.2	25			1.61	1.20	1.55	.67	1.83	5.55	1.56	.74	1.60	1.10	25
26			M	1.61					M	16.2			26			1.61	1.20	1.55	.67	1.83	5.55	1.56	.74	1.60	1.10	26
27													27			1.62	1.30	1.56	.74	1.83	5.55	1.56	.74	1.60	1.10	27
28													28			1.63	1.40	1.56	.74	1.83	5.55	1.56	.74	1.60	1.10	28
29							M	0.64					29	1.87	8.25	1.64	1.50	1.56	.74	1.84	6.00	1.56	.74	1.60	1.10	29
30									-	-			30	1.87	8.25	1.64	1.50	1.56	.74	1.84	6.00	1.56	.74	1.60	1.10	30
31							M	15.1	-	-			31	-	-	1.69	2.15	-	-	1.84	6.00	1.56	.74	-	-	31
TOTAL																131.25		32.75		140.72		36.06		32.66		373.44
Mean Daily Discharge in Second-feet																4.23		1.09		4.54		1.16		1.09		
Second-feet per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet																260.33		64.96		279.12		71.51		64.76		740.70 Inc.
Maximum Mean Daily Discharge in Second-feet																8.25		3.10		6.00		3.10				
Minimum Mean Daily Discharge in Second-feet																1.20		0.33		0.67		0.54		.74		

Maximum stage ... feet at ... DETERMINED on ... Discharge ... second-feet.
Minimum stage ... Dry ... feet at ... First ... Discharge ... second-feet.
Adjustment curve used on gage heights, gage installed April 29, 1931 ... for part of year

13

F-105 R

BIG TUJUNGA WEST WASH AT MAGNOLIA BOULEVARD BRIDGE

Location
On wooden highway bridge where Magnolia Boulevard crosses Big Tujunga West Wash, 2 miles west of North Hollywood, Los Angeles County, California.

Drainage Area
106.25 square miles.

Installed by
The Los Angeles County Flood Control District, August 1930.

Records Available
August 1930 to September 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
Stevens type L 8 day water stage recorder, installed in shelter house on top of a corrugated iron stilling well attached to bridge pier on upstream side.

Discharge Measurements
Low flows measured by wading
High flows measured from bridge at Magnolia Boulevard or from bridge at Chandler Boulevard a short distance above.

Channel and Control
Channel is sandy and wide and shallow.
No control.

Extremes of Discharge
1930-1931
No appreciable flow during year 1930-1931
1931-1932
Maximum-46. c.f.s. December 28, 1931
Minimum-Dry most of year.

Diversions
None

F-105 R

Regulation
Water from the mountains flowing into this stream regulated by the Los Angeles County Flood Control District's Big Tujunga Dam #1. No regulation for valley water.

Accuracy
Poor

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

Discharge measurements of BIG TUJUNGA WEST WASH

at ~~NEAR~~ MAGNOLIA BOULEVARD BRIDGE, during the year ending September 30, 1932

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.)	Marked	Corr.	Meas. acc. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1931													
1	12/25	Rupert	2.9	.62	.40	4.89	.25		.6		6		1/3	271 647
2	2/8	Rupert°Guptill	30.2	12.60	3.30	5.41	41.60		.6		13	.02	"	"
3	2/8	Rupert	14.5	4.32	.98	4.70	4.21		.6		7		"	"
4	2/9	Rupert-Guptill	28.5	11.5	2.90	5.34	32.88		.6		13	.04	1/4	"
5	2/9	" "	2.9	.50	.56	4.97	.28		16		5		1/6	271 647
6	2/12	"		Dry										
7	2/16	" "	25.7	7.06	1.88	5.24	13.24		.6		10		1/4	271 647

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of BIG TUJUNGA - WEST WASH

At ~~NEAR~~ Magnolia Boulevard Bridge for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 105

Drainage Area 106.25 Square Miles. [Bollinger Observer.] Gage Read Continuous Used rating table dated

Maximum stage 5.43 feet at 6 PM on Dec. 28, 1931 Discharge 46. second-feet.
Minimum stage Dry feet on Dry most of year Discharge second-feet.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1						Dry		Dry		Dry		
2						"				"		
3						"				"		
4						"				"		
5						"				"		
6						Dry		Dry		Dry		
7										"		
8									H	5.04		
9									H	2.78		
10									5.15	10.0		
11						Dry		Dry	5.18	12.4		
12										Dry		
13										"		
14		DRY		DRY						"		DRY
15										"		
16								Dry	H	2.52		
17									H	0.94		
18						DRY				Dry		
19												
20												
21												
22												
23								DRY		DRY		
24												
25					4.97	0.25						
26						Dry						
27						"						
28					H	5.62						
29						Dry						
30						"						
31						"						
TOTAL,		0		0		5.87		0		33.68		0
Mean Daily Discharge in Second-feet		0		0		0.19		0		1.16		0
Second-feet per square mile		0		0		0.001		0		0.007		0
Run-off, depth in inches												
Run-off in acre-feet		0		0		11.65		0		66.80		0
Maximum Mean Daily Discharge in Second-feet						5.62				12.4		
Minimum Mean Daily Discharge in Second-feet						0				0		

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14		DRY		DRY		DRY		DRY		DRY		DRY
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

Fourth / Third / Second / First Quarter — Computed — Checked — Date — WTK — RHH

Fourth / Third / Second / First Quarter — Ditch. applied — Ditch. checked — Date

Fourth / Third / Second / First Quarter — G. H. copied — G. H. checked — Date

PERIOD YEAR 78.45

F-106 R

BIG TUJUNGA EAST WASH AT MAGNOLIA BOULEVARD

Location
On wooden highway bridge where Magnolia Blvd. crosses Big Tujunga East Wash, North Hollywood, Los Angeles County, California.

Drainage Area
166.25 square miles.

Installed by
The Los Angeles County Flood Control District, August 1930.

Records Available
August, 1930 to September 30, 1932 at the office of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
Stevens Type L 8 day water stage recorder installed in small house on top of a corrugated iron pipe stilling well attached to center of bridge on downstream side.

Discharge measurements
Low water measurements made by wading.
High water measurements made from bridge.

Channel and Control
Channel is shifting sand.
No control.

Extremes of Discharge
1930-1931
Maximum-56.1 c.f.s. February 3, 1931
Minimum-Dry most of year
1931-1932
Maximum-1375 c.f.s. Feb. 9, 1932
Minimum- Dry most of the year

Diversions
None

Regulations
Water from the mountains flowing into this stream regulated by Los Angeles County Flood Control District's Big Tujunga Dam No. 1. No regulation for valley water.

F-106 R

Accuracy
Poor

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

Discharge measurements of BIG TUJUNGA EAST WASH

at MAGNOLIA BOULEVARD, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1931													
1	12/25	Rupert	3.3	1.17	.46	4.84	0.54		.6		7		1/4	271 647
2	26	Luce-Lovelace	8.0	3.00	1.39		4.16		.6		8		1/6	F013
3	28	Rupert-Gilmore	14.5	11.8	4.81	5.25	56.6		.6			.10	1/2	271 647
	1932													
4	1/31	Rupert	2.8	.82	.55	3.86	0.45		.6		6		1/4	646
5	2/2	Rupert-Guptill	16.8	3.21	1.41	4.38	4.52		.6		17	.02	1/3	647
6	8	" "	14.5	2.89	1.13	4.02	3.26		.6		7	.01	1/4	"
7	8	" "	15.5	5.54	2.79	4.47	15.46		.6		9	.02	1/4	"
8	9	" "	44.0	152	5.68	5.78	863.1		.6		10	.04	3/4	"
8A	9	Luce-Waddicor	49.3	36.3	4.46	4.85	161.7		.6		11		1/4	"
9	10	Rupert & Guptill	Two Channels			5.15	203		.6		31		1	"
9A	10	Luce-Lovelace	5.59	31.4	4.32	5.15	135.6		.6		11		1/6	F013
10	12	Rupert	Two Channels			5.18	212.5		.6		28		1/2	271 647
11	16	Rupert-Guptill	35.5	20.3	3.99	5.30	80.8		.6		19		1/2	"
11A	16	Waddicor-Bissell	34.5	14.8	3.38	5.10	50.10		.6		13		1/4	F027
11B	17	" "	34.4	17.0	3.70	5.16	62.91		.6		11		1/6	"
12	18	Rupert	3.8	1.66	2.27	5.08	3.77		.6		4		1/4	271 647

F.C. Dist. -Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 106

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of BIG TUJUNGA EAST WASH

At MAGNOLIA BOULEVARD BRIDGE for the Year Ending September 30, 1932

Drainage Area 166.25 Square Miles. [Bollinger Observer.]

Gage Read Continuous

Used rating table dated

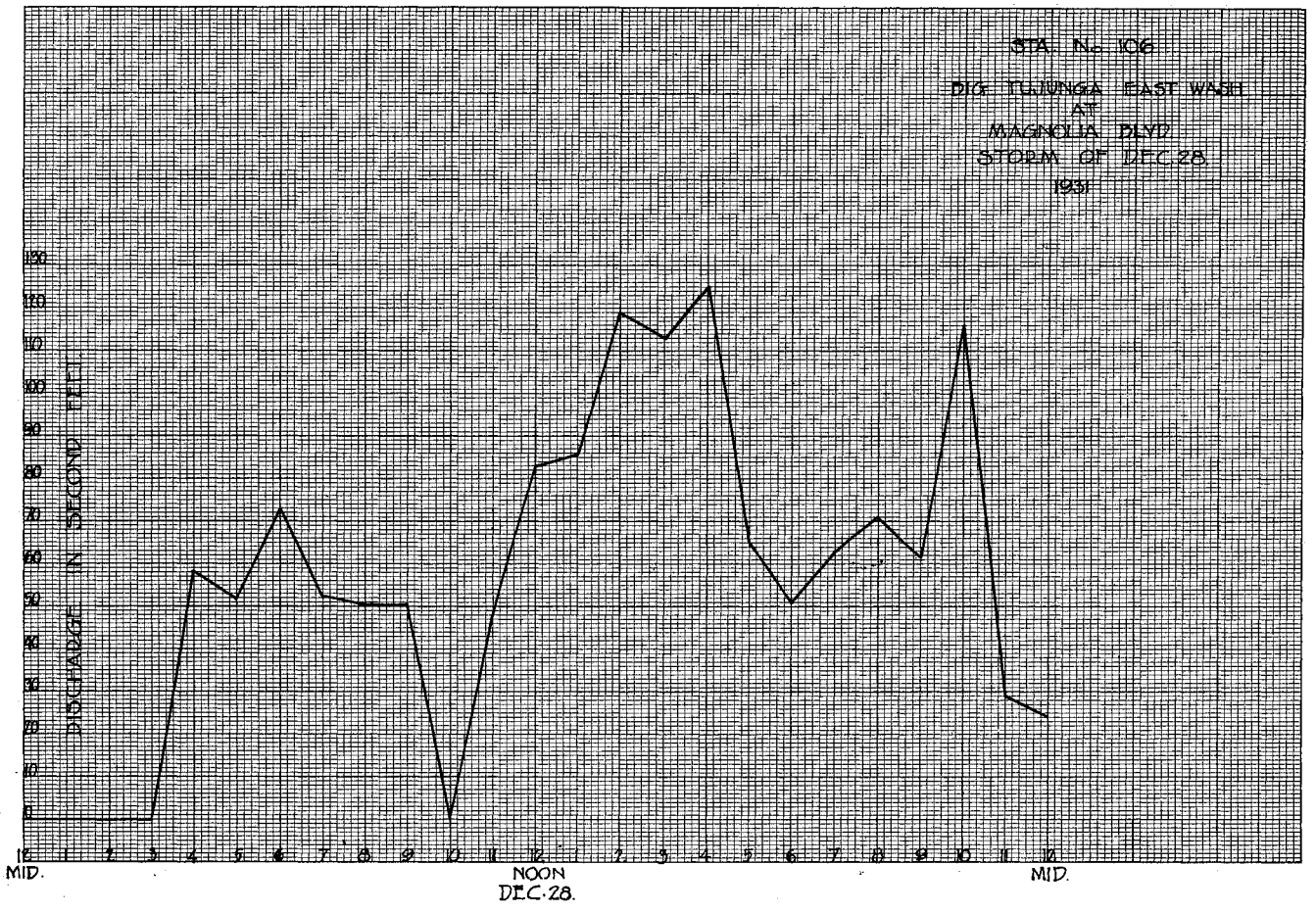
Maximum stage 6.10 feet at 4 AM on February 9 Discharge 1375 second-feet.
Minimum stage 0.00 feet at Most of on the year Discharge 0.00 second-feet.

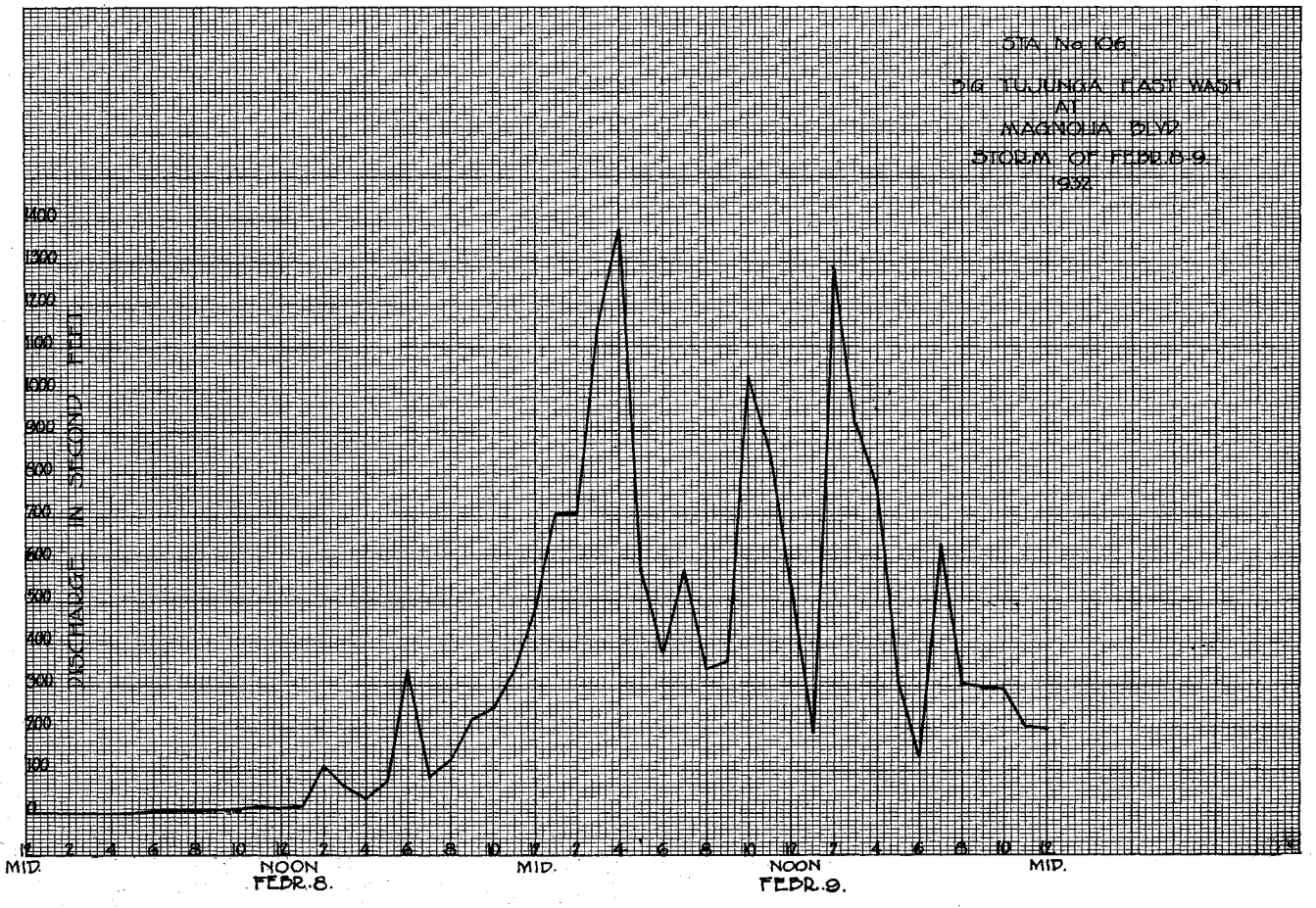
Correction curve and Rating table used for discharges

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1									H	8.45		
2									H	2.80		
3										0		
4										dry		
5												
6												
7												
8									H	81.26		
9									H	590.75		
10									5.13	190.00		
11									5.10	178.00		
12									5.18	211.20		
13									5.15	198.00		
14									5.30	270.00		
15									5.23	235.0		
16		DRY		DRY		DRY		DRY	4.06	5.30		DRY
17									4.59	46.60		
18									0	0		
19										0		
20												
21												
22												
23												
24												
25					4.12	7.30				DRY		
26					4.31	18.03						
27					0	0						
28					H	56.40						
29						0						
30						0						
31						0	H	3.94				
TOTAL,		0		0		81.73		3.94		2017.36		0
Mean Daily Discharge in Second-feet		0		0		2.64		.13		69.56		0
Second-feet per square mile		0		0		.017		.0008		0.45		0
Run-off, depth in inches												
Run-off in acre-feet		0		0		162.11		7.82		4001.43		0
Maximum Mean Daily Discharge in Second-feet		0		0		56.40		3.94		590.75		0
Minimum Mean Daily Discharge in Second-feet		0		0		0.00		0.00		0.00		0

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15		DRY		DRY		DRY		DRY		DRY			
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
TOTAL,		0		0		0		0		0		0	2103.03
Mean Daily Discharge in Second-feet													
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet													4171.36
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

Fourth Third Second First Quarter — Computed J.S.L. Checked Date 1/17/33
Fourth Third Second First Quarter — Disch. applied, Disch. checked, Date
Fourth Third Second First Quarter — G. H. copied, G. H. checked, Date


STA. No. 106
DIG. TUJUNGA EAST WASH
AT
MAGNOLIA BLVD.
STORM OF DEC. 28.
1931
DISCHARGE IN SECOND FEET
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
MID.
NOON
DEC. 28.
MID.


STA. No. 106
DIG. TUJUNGA EAST WASH
AT
MAGNOLIA BLVD.
STORM OF FEBR. 8-9.
1932
DISCHARGE IN SECOND FEET
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
MID.
NOON
FEBR. 8.
MID.
NOON
FEBR. 9.
MID.

F-111 R

BIG TUJUNGA CREEK AT EDISON ROAD CROSSING

Location
On Big Tujunga Creek about 25' above where the Edison Road crosses the creek and 4 miles above Big Tujunga Dam No. 1.

Drainage Area
67 square miles.

Installed by
Los Angeles County Flood Control District, November 11, 1930.

Records Available
November 11, 1930 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
An continuous water stage recorder installed in galvanized iron shelter house on north side of stream. Stilling well is of corrugated iron pipe.

Discharge Measurements
Low water measurements made by wading near station.
High water measurements made from cable car at station.

Channel and Control
Channel is gravel and boulders.
No control.

Extremes of Discharge
1930-1931
Maximum-216.2 c.f.s. on February 5, 1931
Minimum-Dry at various times during year.
1931-1932
Maximum-3910 c.f.s. on February 8, 1932
Minimum-Dry at various times during year.

Diversions
None

F-111 R

Regulation
None

Accuracy
Fair

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

C. Dist. Form 104 HR 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 111

Discharge measurements of Big Tujunga Creek

at / near Edison Road Crossing, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-10	Irwin	1.2	.27	.80	5.00	.22		.6		3		1/6	FC 24
2	10-20	"	2.5	.19	.42	5.02	.06		.6		5		"	"
3	10-21	"	1.2	.21	.52	5.04	.11		.6		3		"	"
4	11-11	"	1.5	.45	.86	4.98	.39		.6		3		1/4	"
5	11-15	"	6.0	2.36	1.22	5.28	2.87		.6		6		"	"
6	11-20	Irwin-Browne	3.5	.69	.55	5.06	.38		.6		7		1/2	"
7	11-27	" "	8.5	4.64	.95	5.50	4.42		.6		8		"	"
8	12-4	Moon	5.5	1.38	.63	5.18	.87		.6		5		1/4	FC 19
9	12-8	"	9.0	3.55	1.00	5.41	3.61		.6		6		"	"
10	12-8	"	10.0	4.10	.98	5.46	4.02		.6		6		"	"
11	12-11	"	7.0	2.05	.84	5.32	1.73		.6		6		"	"
12	12-15	" Ash	5.0	1.71	.71	5.28	1.22		.6		6		"	"
13	12-18	"	7.0	2.00	.80	5.20	1.62		.6		6		"	"
14	12-21	" "	8.5	3.12	.88	5.24	2.75		.6		7		"	"
15	12-22	" "	10.0	3.60	.89	5.30	3.16		.6		8		"	"
16	12-25	Ash	43.0	33.20	.60	5.76	20.97		.6		9		"	"
17	12-26	"	43.0	28.20	.45	5.60	12.77		.6		8		"	"
18	12-28	Moon-Ash	40.0	18.32	.85	5.39	15.79		.6		4		"	"
19	12-28	" "	21.0	11.50	1.25	5.40	14.47		.6		9		"	"
20	12-28	" "	34.0	17.60	1.00	5.49	18.20		.6		9		"	"
21	12-28	Moon	44.0	34.70	1.32	5.81	45.74		.6		11		1/3	"
22	12-28	Moon-Ash	58.0	49.40	1.50	5.99	75.88		.6		11		"	"
23	12-28	" "	58.0	55.80	2.14	6.15	119.50		.6		11		"	"
24	12-28	" "	62.0	73.05	3.49	6.47	255.10		.6		12		1/4	"
25	12-28	" "	43.0	64.40	4.58	6.50	294.92		.6		9		1/2	"
26	12-29	" "	51.0	33.20	2.00	5.82	66.10		.6		10		1/4	"
27	1932 1-4	" "	10.0	5.26	5.30	5.30	8.11		.6		9		"	"
28	1-12	Moon	8.5	3.45	1.23	5.22	4.44		.6		8		"	"
29	1-14	Moon	8.5	2.98	1.22	5.21	3.64		.6		8		1/4	FC 19
30	1-20	"	9.0	3.40	1.24	5.21	4.23		.6		9		"	"
31	1-21	"	9.0	2.86	1.22	5.20	3.48		.6		8		"	"
32	1-29	"	8.5	2.77	1.06	5.18	2.93		.6		8		"	"
33	1-31	"	37.0	25.50	1.61	5.68	41.27		.6		9		"	"
34	1-31	"	39.0	24.55	1.86	5.70	45.74		.6		9		1/3	"
35	2-1	"	43.0	29.40	1.74	5.71	51.34		.6		10		"	"
36	2-1	"	43.0	27.65	1.52	5.67	42.02		.6		10		"	"
37	2-1	"	45.0	29.45	1.70	5.70	50.29		.6		10		"	"
38	2-1	"	45.0	32.10	1.87	5.76	60.21		.6		10		"	"
39	2-1	"	47.0	37.10	2.20	5.86	81.90		.6		11		"	"
40	2-2	"	44.0	27.65	1.49	5.65	41.13		.6		10		"	"
41	2-5	"	17.5	9.85	1.64	5.47	15.95		.6		10		"	"
42	2-8	"	46.0	66.40	4.93	6.49	317.3		.6		9		3/4	"
43	2-8	"	43.0	76.05	6.26	6.65	476.7		.6		9		1/2	"
44	2-8	"	45.0	112.0	6.49	6.95	727.0		.6		9		"	"
45	2-8	"	45.0	120.0	6.66	7.04	799.5		.6		9		"	"
46	2-8	"	45.0	129.0	7.51	7.30	922.0		.6		9		"	"
47	2-9	"	47.0	151.0	6.64	6.00	1003.		.6		9		"	"
48	2-9	"	47.0	158.2	6.71	6.05	1060.		.6		9		"	"
49	2-9	"	47.0	151.0	6.90	5.94	1044.		.6		9		"	"
50	2-9	"	47.0	165.2	7.06	6.07	1166.		.6		9		"	"
51	2-10	"	40.0	85.0	2.27	5.05	192.7		.6		6		"	"
52	2-11	"	40.0	85.0	2.57	4.65	218.3		.6		6		1/3	"
53	2-18	"	24.0	39.8	1.16	3.84	45.93		.6		12		1/4	"
54	2-19	"	24.0	38.5	1.19	3.84	45.82		.6		12		"	"
55	2-26	"	24.0	25.1	2.67	4.55	66.98		.6		12		"	"
56	3-2	"	25.0	20.2	2.40	4.72	48.35		.6		11		"	"
57	3-10	Moon	22.0	13.65	1.83	4.45	25.01		.6		11		1/4	19
58	3-11	"	22.5	13.50	1.88	4.45	25.37		.6		11		"	"
59	3-14	Irwin-Frederick	18.0	14.70	1.45	4.42	21.32		.6		18		2/3	89 32
60	3-17	Moon	20.5	10.96	1.69	4.38	18.57		.6		10		1/4	FC 19
61	3-18	"	21.0	10.85	1.62	4.38	17.62		.6		11		"	"
62	3-24	"	18.0	8.74	1.53	4.27	13.35		.6		10		"	"
63	3-31	"	17.0	7.35	1.37	4.22	10.16		.6		9		"	"
64	4-8	"	12.0	5.95	1.36	4.22	8.10		.6		9		"	"
65	4-9	"	12.0	5.95	1.39	4.23	8.28		.6		9		"	"
66	4-16	"	12.0	5.70	1.36	4.21	7.74		.6		12		"	"
67	4-22	"	12.0	5.48	1.30	4.21	7.15		.6		9		"	"
68	4-29	"	12.0	5.48	1.36	4.24	7.46		.6		8		"	"
69	5-6	"	12.0	5.30	1.33	4.19	7.06		.6		8		"	"
70	5-13	"	12.0	4.64	1.06	4.14	4.90		.6		8		"	"
71	5-20	Irwin	10.0	5.06	.86	4.11	4.38		.6		10		1/6	FC 2
72	6-3	"	10.0	4.19	.91	4.13	3.80		.6		10		1/3	"
73	6-10	Irwin-Frederick	7.5	3.90		4.08	2.16		.6		8		1/4	89 32
74	6-17	Irwin	5.0	3.66	.47	4.06	1.71		.6		5		1/2	FC 2
75	7-1	"				4.34	1.00		Weir					
76	7-8	"	1.3	.15	.80	4.28	.12		.6		3		1/6	"
77	7-15	"	1.5	.18		4.32	.06		.6		3			"
78	7-22	"				4.16	.02		Weir					

P.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of BIG TUJUNGA CREEK

At or Near EDISON ROAD CROSSING for the Year Ending September 30, 1932

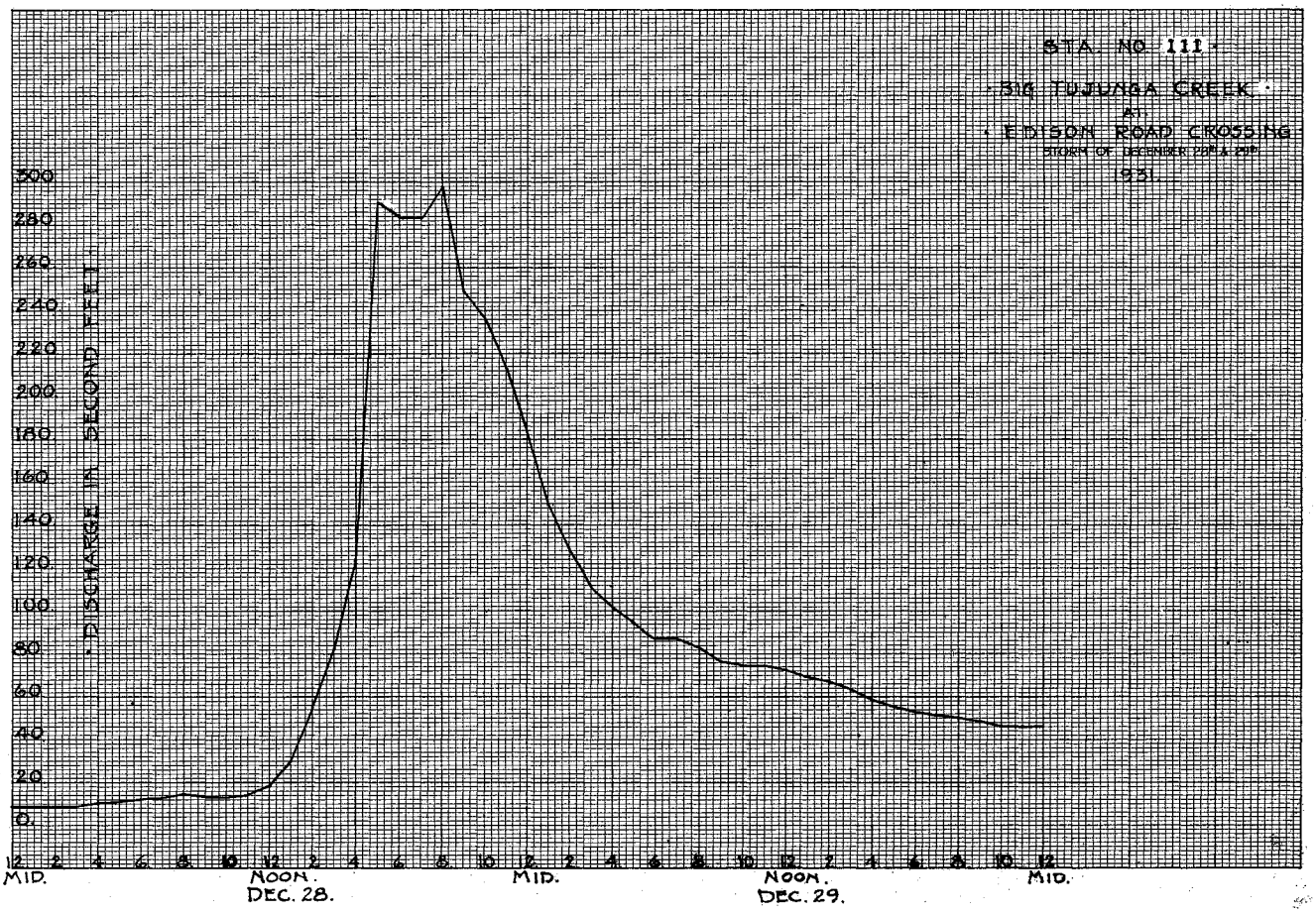
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

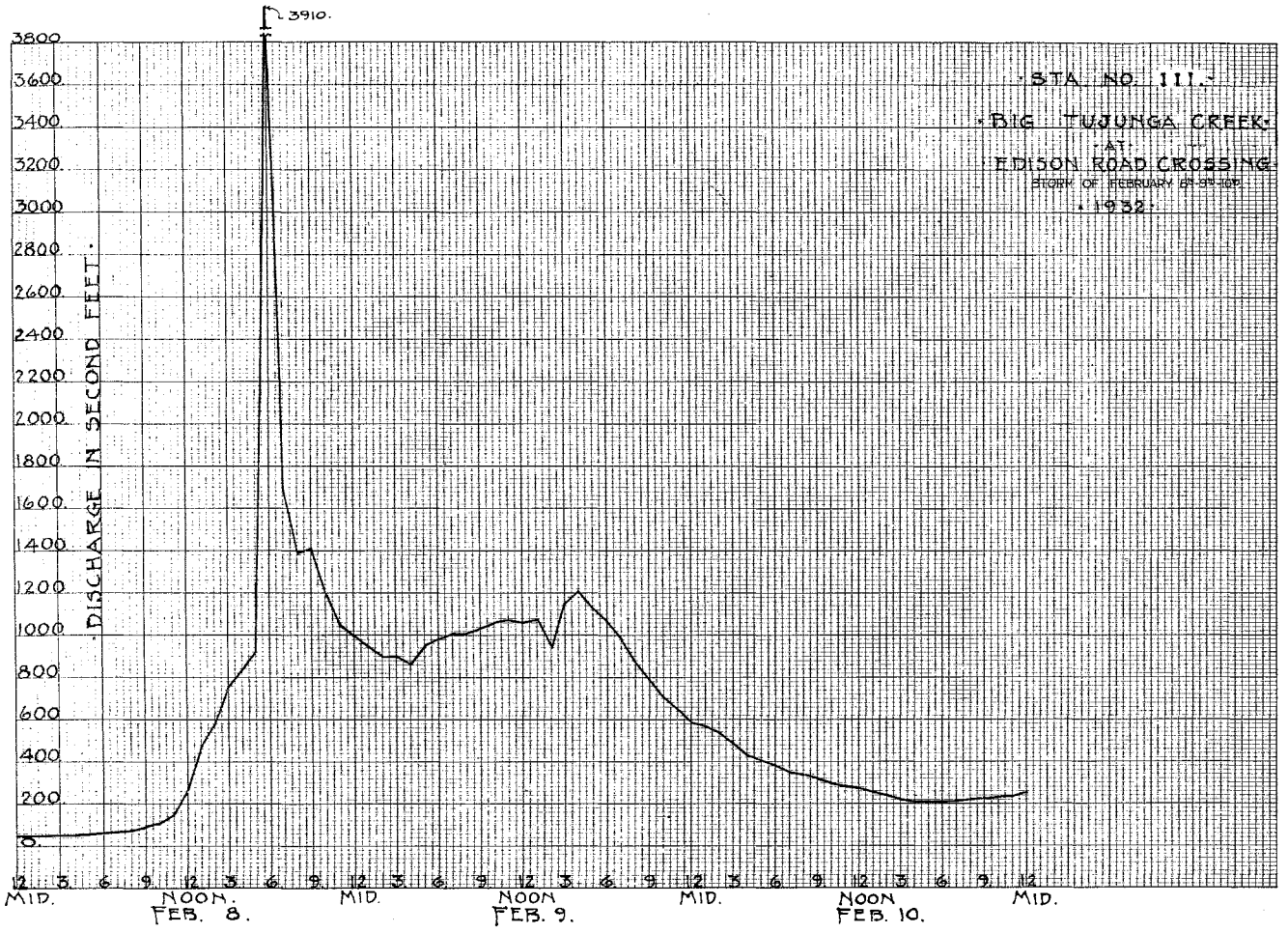
File No. 111

Drainage Area 67.2 Square Miles. [J. Lawrence Irwin Observer.] Gage Read Continuous Used rating table dated Nos. 1, 2, 3, 2+3A, 4, 5

Hydrograph on 2-8-32 Discharge 3910.00 second-feet
Maximum stage 7.30 feet at 6 PM Discharge Dry second-feet
Minimum stage feet at Several times during year
Adjustment curve used on gage heights.

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			4.98	.14	5.19	1.54	5.42	11.50	H	63.12	4.83	60.74	1	4.25	91.5	4.16	5.20	4.05	3.00	3.89	.95					1
2			4.98	.14	5.16	1.28	5.40	10.50	5.72	51.60	4.72	48.94	2	4.24	8.52	4.15	5.00	4.05	3.00	3.90	1.00					2
3			4.98	.14	5.14	1.12	5.35	8.55	5.54	22.80	4.70	46.80	3	4.22	7.26	4.16	5.20	4.22	7.26	3.90	1.00					3
4			4.98	.14	5.11	.90	5.31	6.99	5.51	19.20	4.64	40.92	4	4.22	7.26	4.16	5.20	4.19	5.80	3.86	.80					4
5			4.97	.11	5.13	1.05	5.27	5.67	5.47	15.60	4.60	37.00	5	4.24	8.52	4.17	5.40	4.16	5.20	3.84	.70					5
6			4.94	.04	5.15	1.20	5.26	5.36	5.43	12.40	4.57	34.24	6	4.25	9.15	4.18	5.60	4.10	4.00	3.80	.50					6
7		DRY	4.93	.03	5.16	1.28	5.26	5.36	5.59	28.80	4.56	33.32	7	4.23	7.89	4.19	5.80	4.10	4.00	3.78	.40					7
8			4.94	.04	H	2.08	5.25	5.05	H	680.4	4.54	31.48	8	4.23	7.89	4.19	5.80	4.06	3.20	3.76	.30					8
9			4.94	.04	5.39	3.37	5.24	4.74	H	954.4	4.51	28.72	9	4.23	7.89	4.18	5.60	4.05	3.00		.30					9
10	5.00	.20	4.95	.05	5.26	2.16	5.23	4.43	H	320.5	4.47	25.14	10	4.22	7.26	4.16	5.20	4.03	2.60		.26					10
11	4.94	.04	5.00	.20	5.20	1.62	5.23	4.43	4.79	276.0	4.45	23.50	11	4.21	6.63	4.15	5.00	4.01	2.20		.22					11
12			5.05	.48	5.22	1.80	5.22	4.12	4.52	181.0	4.44	22.68	12	4.21	6.63	4.14	4.80	4.00	2.00		.18					12
13			5.10	.82	5.24	1.98	5.23	4.43	4.41	148.0	4.43	21.86	13	4.20	6.00	4.14	4.80	4.00	2.00		.14					13
14			5.10	.82	5.27	2.26	5.22	4.12	4.30	120.0	4.41	20.22	14	4.20	6.00	4.13	4.60	3.99	1.90		.10					14
15		DRY	H	2.50	5.26	2.16	5.21	3.81	4.18	96.0	4.40	19.40	15	4.20	6.00	4.12	4.40	4.00	2.00		.06					15
16			5.17	1.37	5.22	1.80	5.21	3.81	4.06	72.0	4.40	19.40	16	4.20	6.00	4.12	4.40	4.00	2.00	Interpolated from weekly gage heights.	.06	DRY		DRY		16
17			5.09	.75	5.18	1.45	5.17	2.90	3.94	51.0	4.39	18.69	17	4.19	5.80	4.11	4.20	4.00	2.00		.05					17
18			5.06	.56	5.21	1.71	5.22	4.12	3.84	37.2	4.37	17.27	18	4.19	5.80	4.10	4.00	4.00	2.00		.04					18
19	4.94	.04	5.04	.42	5.21	1.71	5.22	4.12	3.82	34.60	4.36	16.56	19	4.19	5.80	4.10	4.00	3.99	1.90		.03					19
20	4.95	.05	5.03	.37	5.23	1.05	5.21	3.81	3.86	39.80	4.35	15.85	20	4.19	5.80	4.10	4.00	3.97	1.70		.02					20
21	4.95	.05	5.04	.42	5.30	2.54	5.20	3.50	3.96	54.00	4.34	15.14	21	4.21	6.63	4.09	3.80	3.96	1.60		.01					21
22	4.97	.11	5.05	.48	5.34	2.92	5.19	3.30	4.07	74.00	4.34	15.14	22	4.21	6.63	4.08	3.60	3.96	1.60							22
23	4.99	.17	5.06	.56	5.30	6.60	5.19	3.30	H	45.40	4.33	14.43	23	4.21	6.63	4.08	3.60	3.95	1.50							23
24	4.99	.17	5.07	.62	5.20	3.50	5.19	3.30	4.62	38.96	4.32	13.72	24	4.20	6.00	4.08	3.60	3.93	1.30							24
25	5.00	.20	5.08	.68	H	9.69	5.18	3.10	4.74	51.08	4.32	13.72	25	4.20	6.00	4.07	3.40	3.93	1.30							25
26	5.00	.20	5.10	.82	5.34	8.16	5.17	2.90	4.96	74.84	4.31	13.01	26	4.24	8.52	4.07	3.40	3.92	1.20		DRY					26
27	5.02	.31	H	3.35	5.40	10.50	5.18	3.10	5.00	79.20	4.30	12.30	27	4.24	8.52	4.07	3.40	3.91	1.10							27
28	5.01	.26	5.30	2.54	H	99.59	5.17	2.90	5.00	79.20	4.28	11.04	28	4.22	7.26	4.07	3.40	3.90	1.00							28
29	5.02	.31	5.25	2.07	H	78.04	5.19	2.90	4.90	68.30	4.27	10.41	29	4.19	5.80	4.06	3.20	3.89	.95							29
30	4.99	.17	5.22	1.80	5.66	29.00	5.18	3.10	–	–	4.26	9.78	30	4.17	5.40	4.06	3.20	3.89	.95							30
31	4.99	.17	–	–	5.54	18.20	Hydro	9.64	–	–	4.26	9.78	31	–	–	4.06	3.20	–	–							31
TOTAL		2.45		22.50		302.26		148.86		3799.48		721.20			208.64		136.00		73.26		7.12		Dry		Dry	
Mean Daily Discharge in Second-feet		.08		0.75		9.75		4.80		131.02		23.26			6.95		4.39		2.44		.23		"		"	
Second-feet per square mile		.0011		.0112		.1457		.0717		1.9576		.3474			.1038											
Run-off, depth in inches		.0013		.0125		.1680		.0827		2.1108		.4008			.1159											
Run-off in acre-feet		4.86		44.63		599.53		295.26		7536.27		1430.50			413.84		269.76		145.31		14.12		Dry		Dry	10,254.08
Maximum Mean Daily Discharge in Second-feet		.31		3.35		99.59		11.50		964.40		60.74			9.15		5.80		7.26		1.00		"		"	
Minimum Mean Daily Discharge in Second-feet		Dry		.03		.90		2.90		12.40		9.78			5.40		3.20		.95		Dry		"		"	





F-2 R

BROWN CANYON CREEK AT DEVONSHIRE AVENUE,
CHATSWORTH

Location
On downstream end of culvert for Brown Canyon Creek at Devonshire Avenue near town of Chatsworth, Los Angeles County, California.

Drainage Area
14.3 square miles.

Installed by
Los Angeles County Flood Control District,
December 11, 1928

Records Available
December 11, 1928-Sept. 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Staff gage on concrete wall at southwest corner of structure. Rational recorder installed in small house on top of corrugated iron stilling well on downstream end of culvert.

Discharge Measurements
Low flow measurements made by wading
High flows made by measuring from top of bridge.

Channel and Control
Channel at lower end of culvert has a sandy bottom, 3 sections concrete culvert 120 feet long, with concrete floor in culvert.

Extremes of Discharge
No flow 1929-1930.
1930-1931
Maximum-7.70 c.f.s. on April 26, 1931
Minimum-Dry at various times of year.
1931-1932
Maximum-152 c.f.s. Feb. 9, 1932
Minimum-Dry at various times during year.

Regulation
Three small dams in mountains regulate runoff.

Accuracy
Good

F-2 R

Operation
Station located and constructed by the Los Angeles County Flood Control District and operated by Los Angeles County Flood Control District in conjunction with the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 DH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 2

Discharge measurements of Brown Canyon Creek

at ~~CREEK~~ Devonshire Avenue--Chatsworth, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	11-a	Waddicor	4.3	1.21	1.16		1.41		.6		5		1/6	FC 13
2	1932 2-2	Luce-Loveless	6.0	2.98	1.93	.15	5.55		.6		7		1/12	" FC
3	2-8	Waddicor-Hansen	34.5	16.93	3.14	.32	53.24		.6		17		1/2	27
4	2-9	" -Turner	36.0	14.42	5.06	.50	73.36		.6		12		1/12	"
5	2-11	Waddicor	7.0	.62	.90	.02	.56		.6		7		"	" FC
6	2-16	Luce - Bissell	6.5	2.64	.92	.04	2.36		.6		7		"	13

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of BROWN CANYON CREEK

At DEVONSHIRE AVENUE BRIDGE for the Year Ending September 30, 1932

CHATSWORTH

Drainage Area 14.3 Square Miles. [J. W. LUCE Observer.]

Gage Read Continuously Used rating table dated 1931 - 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 2

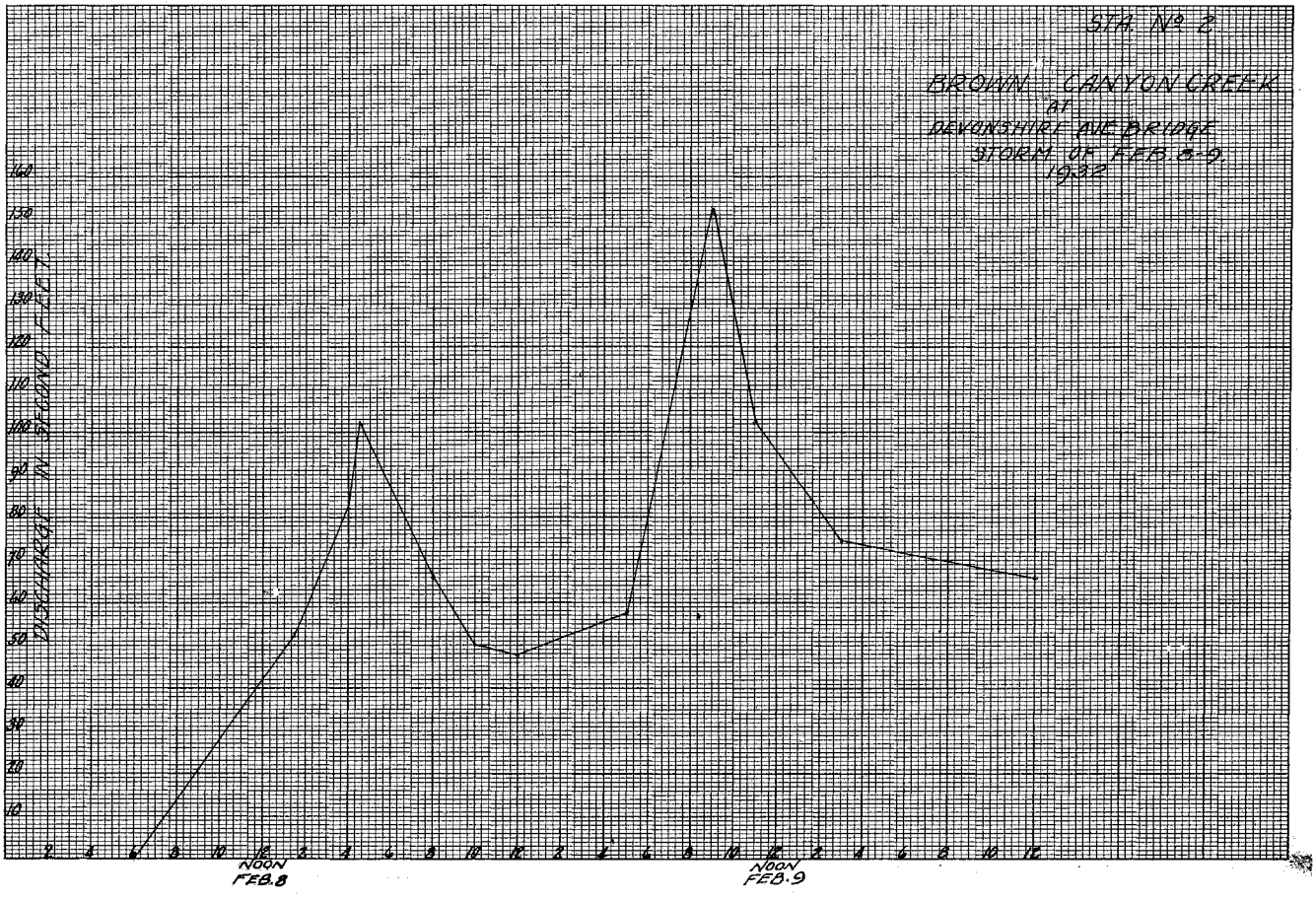
Maximum stage 0.69 feet at 9:00 AM on February 9, Discharge 152.30 second-feet.
Minimum stage feet at on Discharge second-feet.
Dry at various times during the year
Adjustments have been applied to all gage heights.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	Dry		0.07	1.40	0.01	0.02	0.03	0.12	0.22	21.60		
2	"	DRY	0.07	1.40	0.01	0.02	0.00		0.07	1.40		
3	"		0.07	1.40	0.00		0.00		0.06	0.80		
4	0.01	0.02	0.10	4.40	0.00	DRY	0.00		0.02	0.06		
5	0.03	0.12	0.10	4.40	0.00		0.00		0.01	0.02		
6	0.04	0.20	0.08	2.20	0.00				0.01	0.02		
7	0.02	0.06	0.10	4.40	0.00				0.01	0.02		
8	Dry		0.10	4.40	0.05	0.40	DRY	DRY	H	36.63		DRY
9	"	DRY	0.10	4.40	0.08	2.20			H	80.22		
10	"		0.12	7.00	0.03	0.12			0.09	3.20		
11	"		0.12	7.00	0.00				0.06	0.80		
12	"		0.10	4.40	0.00	DRY			0.06	0.80		
13	H	0.24	0.08	2.20	0.00		DRY		0.06	0.80	DRY	
14	0.07	1.40	0.11	5.70	0.03	0.12			0.07	1.40		
15	0.02	0.06	0.11	5.70	0.04	0.20			0.06	0.80		
16	0.00		0.10	4.40	0.00		H	17.97	0.07	1.40		
17	0.00	DRY	0.07	1.40	0.00	DRY	0.17	13.90	0.10	4.40	0.04	0.20
18	0.00		0.12	7.00	0.00		0.13	8.30	0.09	3.20	0.02	0.06
19	0.06	0.80	0.10	4.40	0.00		0.10	4.40	0.08	2.20		
20	0.10	4.40	0.09	3.20	0.00		0.07	1.40	0.08	2.20		
21	0.06	0.80	0.07	1.40	0.04	0.20	0.03	0.12	0.08	2.20		
22	0.02	0.06	0.06	0.80	0.06	0.80	0.00		0.09	3.20		
23	0.00	Dry	0.04	0.20	0.04	0.20	0.00		0.12	7.00	DRY	DRY
24	0.10	4.40	0.03	0.12	0.00		0.00	DRY	0.12	7.00		
25	0.09	3.20	0.02	0.06	0.00	DRY	0.00		0.06	0.80		
26	0.10	4.40	0.02	0.06	0.00		0.00					
27	0.10	4.40	0.04	0.20	0.00		0.00			DRY		
28	0.06	0.80	0.02	0.06	H	4.68	0.00		DRY			
29	0.06	0.80	0.01	0.02	0.06	0.80	0.00					
30	Dry	Dry	0.01	0.02	0.02	0.06	0.00					
31	0.06	0.80	-	-	0.02	0.06	0.04	0.20				
TOTAL		26.96		83.74		9.88		46.41		182.17		0.26
Mean Daily Discharge in Second-feet		0.870		2.791		0.319		1.498		6.282		0.008
Second-feet per square mile		0.061		0.195		0.022		0.105		0.439		0.001
Run-off, depth in inches		0.070		0.218		0.026		0.121		0.474		0.001
Run-off in acre-feet		53.48		166.10		19.60		92.05		361.33		0.52
Maximum Mean Daily Discharge in Second-feet		4.40		7.00		4.68		17.97		80.22		0.20
Minimum Mean Daily Discharge in Second-feet		0.00		0.02		0.00		0.00		0.00		0.00

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14		DRY		DRY		DRY		DRY		DRY		DRY
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27										Recorder		
28										removed		
29										Aug. 27,		
30										1932.		
31												
TOTAL		0		0		0		0		0		0
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												

DAY	Quarter	First	Second	Third	Fourth
1		CES	CES	CES	CES
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

Quarter: First CES, Second CES, Third CES, Fourth CES
Computed: CES — Checked: HAY — Date: 9/1/32
Quarter: First CES, Second CES, Third CES, Fourth CES
Disch. applied: CES — Disch. checked: — Date: 9/1/32
Quarter: First CES, Second CES, Third CES, Fourth CES
G. H. copied: CES — G. H. checked: — Date: 9/1/32
PERIOD YEAR



KEUFFEL & ESSER CO., N.Y. NO. 358-31
12 x 18 to the inch.

F-37 R

COMPTON CREEK AT ROSECRANS AVENUE, COMPTON

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

Drainage Area
21.7 square miles.

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

Records Available
January 22, 1928 to September 30, 1932 at Los Angeles County Flood Control District, Los Angeles, California.

Gage
Au continuous water stage recorder in small house on top of corrugated iron pipe stilling well attached to east wing wall of bridge, downstream side. 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
1928-1929
Maximum-324 c.f.s. March 10, 1929
Minimum-Dry at various times during year
1929-1930
Maximum-580 c.f.s. March 14, 1930
Minimum-Dry at various times during year
1930-1931
Maximum-678.5 c.f.s. April 26, 1931
Minimum-Dry at 12 noon, September 21, 1931.
1931-1932
Maximum-757 c.f.s. Jan. 31, 1932
Minimum-Dry at various times during year

Diversions
None.

Regulation
None

Accuracy
Good

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

Discharge measurements of Compton Creek,

at Rosecrans Avenue, Compton, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-2	Seal	7.0	2.64	.87	.38	2.27		.6		8		1/5	282 962 FC 23
2	10-9	"	6.9	2.48	.73	.34	1.82		.6		7		1/6	"
3	10-16	"	3.0	.44	.52	.18	.23		.6		4		1/20	"
4	10-30	"	7.0	1.98	.49	.27	.98		.6		8	.01	1/7	"
5	11-6	"	7.3	1.73	.38	.22	.65		.6		7		1/10	"
6	11-13	"	2.8	.38	.50	.14	.19		.6		5		1/6	"
7	11-27	"	36.5	59.48	2.56	2.41	152.6		.6		13	.14	1/4	271 640 FC 12
8	12-4	"	2.7	.24	.54	.14	.13		.6		4		1/10	"
9	12-8	"	39.0	71.45	2.33	2.49	166.38		.6		14	.06	1/4	"
10	12-8	"	42.0	90.45	3.64	3.31	329.3		.6		11	.34	1/2	"
11	12-11	"	40.0	72.25	2.12	2.44	152.87		.6		13	.12	1/3	"
12	12-14	Seal-Fergus	40.0	71.85	2.35	2.51	168.7		.6		11	.06	1/5	"
13	12-18	Seal	3.0	.35	.60	.13	.21		.6		4		1/10	"
14	12-21	"	39.0	71.70	2.25	2.47	161.3		.6		13	.10	1/6	"
15	12-28	"	40.0	76.75	3.53	2.85	271.3		.6		13	.18	1/4	"
16	1932 1-2	"	10.4	4.11	1.40	.59	5.75		.6		9	.02	1/5	"
17	1-8	Seal-Cooper	7.0	2.11	.73	.29	1.55		.6		9		1/4	"
18	1-15	" "	39.0	59.81	2.47	2.42	147.7		.6		15	.05	1/5	"
19	1-22	Cooper	6.9	2.09	.65	.24	1.35		.6		8		1/6	282 962 FC 23
20	1-26	"	7.0	2.28	.71	.25	1.63		.6		9		1/5	FC 23
21	1-29	"	7.0	2.26	.69	.25	1.55		.6		8		1/3	"
22	1-31	Cooper-Seal	43.0	115.9	3.65	3.78	423.8		.6		19	.24	2/3	"
23	2-1	Seal-Cooper	10.5	6.29	1.46	.79	9.17		.6		11	.01	1/5	"
24	2-5	Cooper	7.1	2.37	.73	.26	1.74		.6		8		1/4	FC 12
25	2-8	Slaughter	38.0	52.82	2.80	2.23	147.8		.6		17	.05	2/5	FC 23
26	2-16	Slaughter-Cooper	36.8	40.34	1.61	1.82	64.92		.6		13.	.09	1/2	"
27	2-18	Cooper	41.0	102.4	3.32	3.40	309.84		.6		13	.51	2/3	"
28	2-19	"	7.7	3.45	1.10	.45	3.81		.6		8		1/4	"
29	2-26	Cooper	7.1	2.39	.60	.27	1.44		.6		8		1/4	FC 23
30	3-4	"	7.1	2.26	.56	.25	1.27		.6		8		1/3	FC 12
31	3-11	"	7.1	2.10	.54	.24	1.14		.6		8		1/3	"
32	3-25	"	7.1	1.91	.37	.19	.71		.6		8	.01	1/4	"
33	4-1	"	7.1	2.04	.48	.20	.97		.6		8	.01	1/6	"
34	4-8	"	1.7	.28	.75	.11	.21		.6		3		1/4	FC 23
35	4-15		1.3	.18	.39	.16	.07		.6		3		1/20	-
36	4-29	Seal	.13	.17	.47	.14	.08		.6		3		1/6	-
37	9-22	Jordan-Slaughter	2.1	1.01	.27	.03	.27		.6		4		1/12	FC 5
38	9-29	Slaughter	3.1	.42	.71	.06	.30		.6		4		1/6	FC 6

F.C. Dist. Form 105—1000—9-31

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

At Rosecrans Avenue, Compton for the Year Ending September 30, 1932

Drainage Area 21.7 Square Miles. [Seal, Rupert, Hardgrove Observer.]

Gage Read Continuous

Used rating table dated 10/1/31 - 11/27/31; 11/27/31 - 10/1/32

Maximum stage 5.32 feet at 11 PM on Jan. 31, 1932 Discharge 755.8 second-feet.
Minimum stage 0 feet at at various times of year Discharge second-feet.
Adjustment curve used on gage heights

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	.28	1.16	.41	2.56	.26	1.55	.14	.47	H	76.7	.25	1.45
2	.27	1.08	.36	1.96	.23	1.25	H	25.9	1.00	18.1	.22	1.16
3	.28	1.16	.29	1.25	.17	.71	.15	.55	.25	1.45	.25	1.45
4	.14	.23	.29	1.25	.14	.47	.14	.47	.23	1.25	.24	1.36
5	.15	.28	.29	1.25	.11	.23	.22	1.16	.25	1.45	.22	1.16
6	.32	1.52	.30	1.34	.06	0	.24	1.36	.22	1.16	.14	.47
7	.28	1.16	.30	1.34	.11	.23	.24	1.36	.33	2.30	.17	.73
8	.28	1.16	.33	1.62	H	79.0	.24	1.36	H	225.5	.25	1.45
9	.28	1.16	.27	1.08	H	19.7	.22	1.16	H	51.0	.27	1.65
10	.27	1.08	.20	.57	.20	.98	.09	.07	.42	3.34	.26	1.55
11	.13	.18	H	4.86	H	20.0	.08	0	.24	1.36	.23	1.27
12	.13	.19	.23	.77	.16	.63	.25	1.45	.22	1.16	.22	1.16
13	.28	1.16	.16	.34	.12	.31	H	12.2	H	2.24	.14	.47
14	.27	1.08	.14	.23	H	72.5	.26	1.55	H	22.1	.16	.64
15	.24	.84	H	42.2	H	5.3	H	58.02	H	6.39	.24	1.36
16	.20	.57	.08	0	.21	1.07	.32	2.17	H	87.2	.28	1.77
17	.11	.10	.04	0	.19	.90	.12	.31	.75	8.36	.20	.98
18	.10	.06	.06	0	.13	.39	.12	.31	H	33.2	.22	1.16
19	.10	.06	.06	0	.08	0	.25	1.45	.41	3.22	.15	.55
20	.10	.06	.07	0	.04	0	.25	1.45	.25	1.45	.09	.07
21	.10	.06	.13	.18	H	48.3	.25	1.45	.16	.64	.13	.39
22	.11	.10	.25	.92	.19	.90	.22	1.16	.13	.39	.21	1.07
23	.09	.03	.27	1.08	.09	.07	.22	1.16	.17	.73	.22	1.16
24	.11	.10	.17	.39	.08	0	.08	0	.21	1.07	.22	1.16
25	.17	.40	.10	.06	H	78.8	.02	0	.19	.89	.20	.98
26	.18	.45	.10	.06	.25	1.45	.24	1.36	.24	1.36	.18	.80
27	.20	.57	H	45.0	.12	.31	.35	2.50	.24	1.36	.11	.23
28	.23	.77	.26	1.55	H	248.2	.25	1.45	.16	.64	.15	.55
29	.25	.92	.13	.39	H	7.19	.24	1.36	.15	.55	.20	.98
30	.28	1.16	.14	.47	.18	.81	.26	1.55	-	-	.22	1.16
31	.34	1.73	-	-	.11	.23	H	134.0	-	-	.19	.89
TOTAL,		20.58		112.72		591.98		258.76		556.56		31.23
Mean Daily Discharge in Second-feet		.66		3.76		19.08		8.35		19.19		1.01
Second-feet per square mile		.0304		0.173		0.879		0.385		0.884		0.047
Run-off, depth in inches												
Run-off in acre-feet		40.81		223.52		1173.20		513.25		1103.94		61.93
Maximum Mean Daily Discharge in Second-feet		1.73		45.00		248.2		134.00		225.50		1.77
Minimum Mean Daily Discharge in Second-feet		.03		0		0		0		.39		.07

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period Year
1	.17	.73	Dry	0	3hrs .37	.34							
2	.18	.80	"	0	.33	2.30							
3	.10	.15	12hrs .28	.84	12 hrs .28	.89							
4	.12	.31	8 hrs .18	.27									
5	.17	.73											
6	.10	.15											
7	.11	.23											
8	.09	.08											
9	.11	.23											
10	.10	.15											
11	Dry	0											
12	.18	.80											
13	.22	1.16											
14	.12	.31		DRY		DRY		DRY		DRY		DRY	
15	.18	.80											
16	.19	.89											
17	.12	.31			H	.73							
18	Dry	0			.15	.55							
19	.30	1.97			.16	.64							
20	.27	1.67			.10	.15							
21	.36	2.62											
22	.27	1.67									H	.03	
23	.22	1.16									H	.23	
24	.11	.23										Dry	
25	.22	1.16										"	
26	H	13.4										"	
27	.36	2.62	5 hrs			DRY					H	.01	
28	.30	1.97	.38	.60								Dry	
29	.22	1.16	.28	1.77							H	.05	
30	.24	1.36	.25	1.45							H	.60	
31	-	-	Dry	0							-	-	
TOTAL,		38.82		4.93		5.60		0		0		.92	
Mean Daily Discharge in Second-feet		1.29		.16		.19		0		0		.03	
Second-feet per square mile		0.059		0.007		0.009		0		0		0	
Run-off, depth in inches													
Run-off in acre-feet		76.98		9.78		11.10		0		0		1.82	3216.33
Maximum Mean Daily Discharge in Second-feet		13.40		1.77		2.30		0		0		.60	
Minimum Mean Daily Discharge in Second-feet		0		0		0		0		0		0	

Quarter — Computed: First MR, Second MR, Third MR; Checked: R. H. L; Date: June 22, 1932
Quarter — Disch. applied: First MR, Second MR, Third MR; Disch. checked: R. H. L; Date: June 30, 1932
Quarter — G. H. copied: First MR, Second MR, Third MR; G. H. checked; Date: June 20, 1932

STATION NO. 37

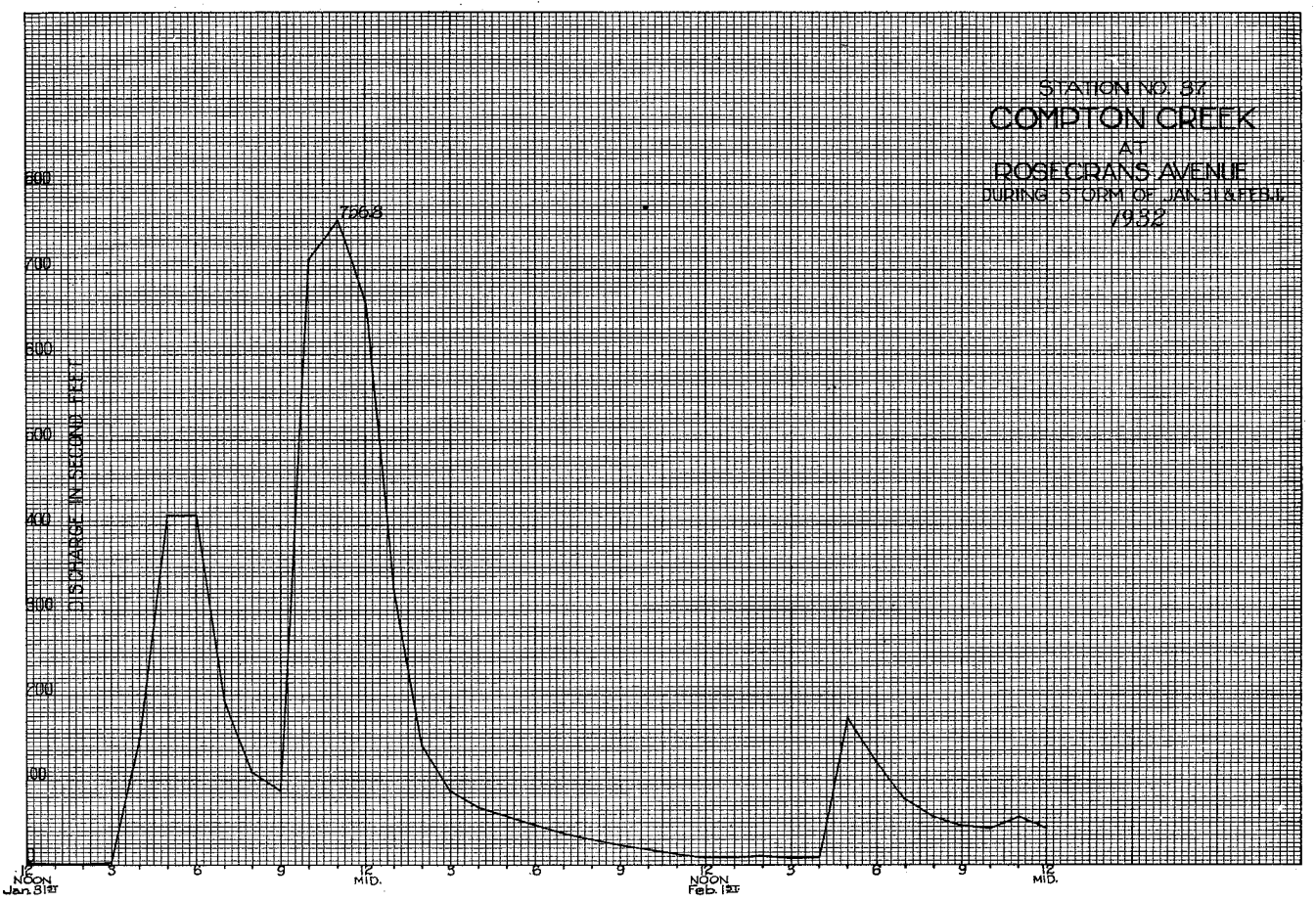
COMPTON CREEK

AT

ROSECRANS AVENUE

DURING STORM OF JAN. 31 & FEB. 1

1932



STA. No. 37

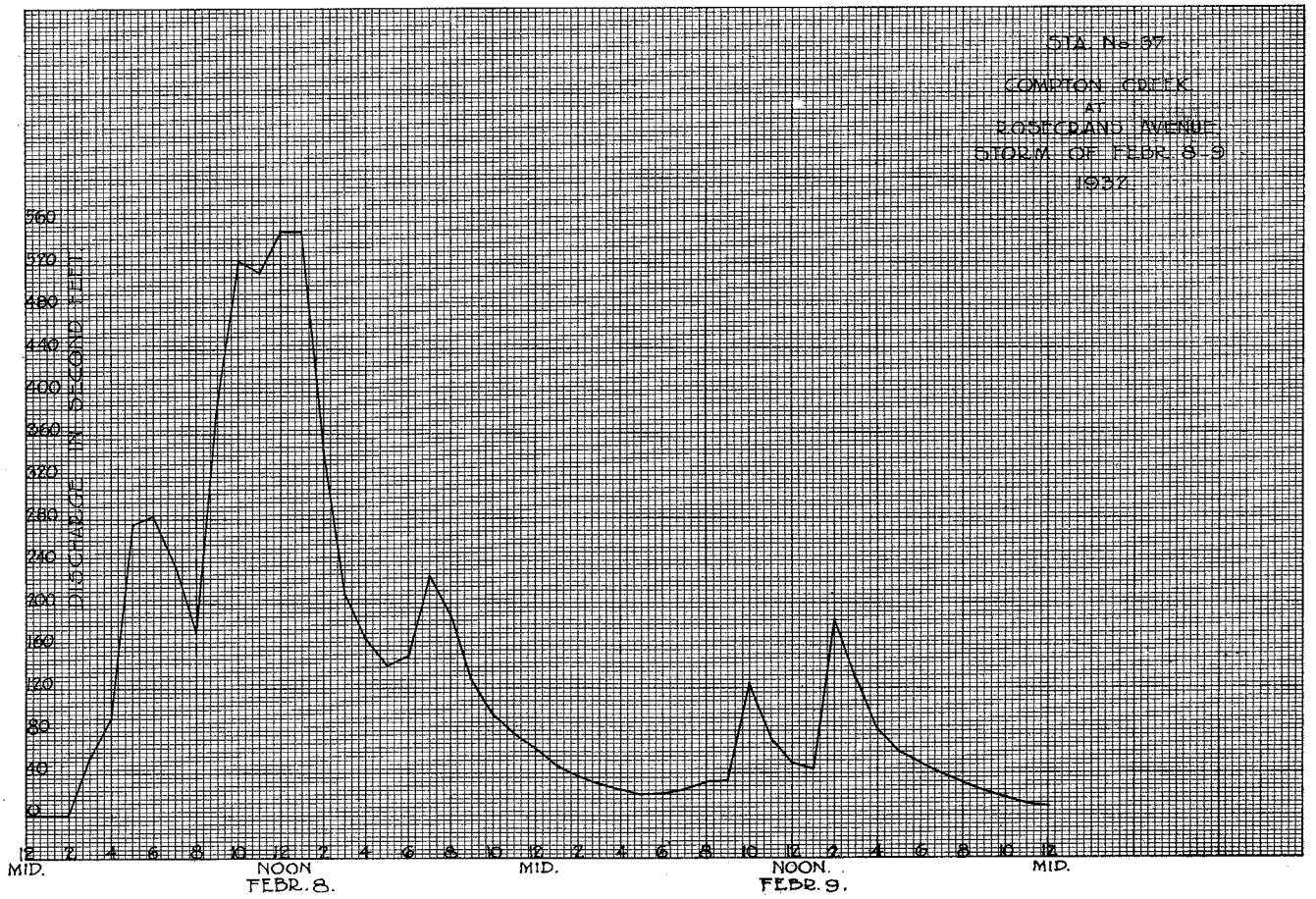
COMPTON CREEK

AT

ROSECRANS AVENUE

STORM OF FEBR. 8-9

1932



F-41 R

COYOTE CREEK BELOW P.E. BRIDGE NEAR ARTESIA

Location
100 feet south of Pacific Electric Railroad Trestle on the east bank of the creek, 2.5 miles from Artesia, Los Angeles County, Calif.

Drainage Area
110 square miles.

Installed by
Los Angeles County Flood Control District, December 1st, 1928 Recorder Installed.

Records Available
December 1, 1928 to September 30, 1932 at Los Angeles County Flood Control District, Los Angeles, California.

Gage
Rational, 7 day recorder inclosed in shelter house on top of corrugated iron stilling well. Staff gage connected to stilling well.

Discharge Measurements
High measurements are made from P.E.R.R. Trestle. Low Measurements are made by wading.

Channel and Control
Channel is clay grown up with tules. No control.

Extremes of Discharge
1929-1930
Maximum-91 c.f.s. January 15, 1930.
Minimum-Dry at various times during year.
1930-1931
Maximum-217.67 c.f.s. February 5, 1931,
Minimum-Dry at various times during year.
1931-1932
Maximum- 799 c.f.s. Feb. 9, 1932
Minimum- Dry various times of year

F-41 R

Diversion
None

Regulation
None

Accuracy
Poor

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

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 41

Discharge measurements of Coyote Creek

Below P.E. Bridge near Artesia, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1931													
1	12-29	Seal-Fergus	95.0	504.1	1.00	9.24	504.1		.6		12	.12	3/4	FC 12
2	12-29	Jordan	54.8	281.7	.40	6.98	113.5		.6		13	.16	5/6	FC 5
3	2-2	Cooper	70.0	112.6	.16	4.04	18.1		.6		11	.04	2/3	FC 12
4	2-9	Jordan	78.0	455.8	1.06	9.06	482.6		.6		15		1/2	FC 5
5	2-9	Slaughter-Seal	85.0	502.3	.91	8.86	459.3		.6		17	.12	5/6	FC 12
6	2-10			172.6	.27	5.62	48.4		.6		10		1/2	FC 5
7	2-17	Slaughter-Cooper	60.0	155.7	.45	5.89	70.3		.6		12	.05	1/3	FC 23
8	5-20	Hardgrove				4.13	.5		Weir					

F.C. Dist. Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 41

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of COYOTE CREEK BELOW P.E. BRIDGE

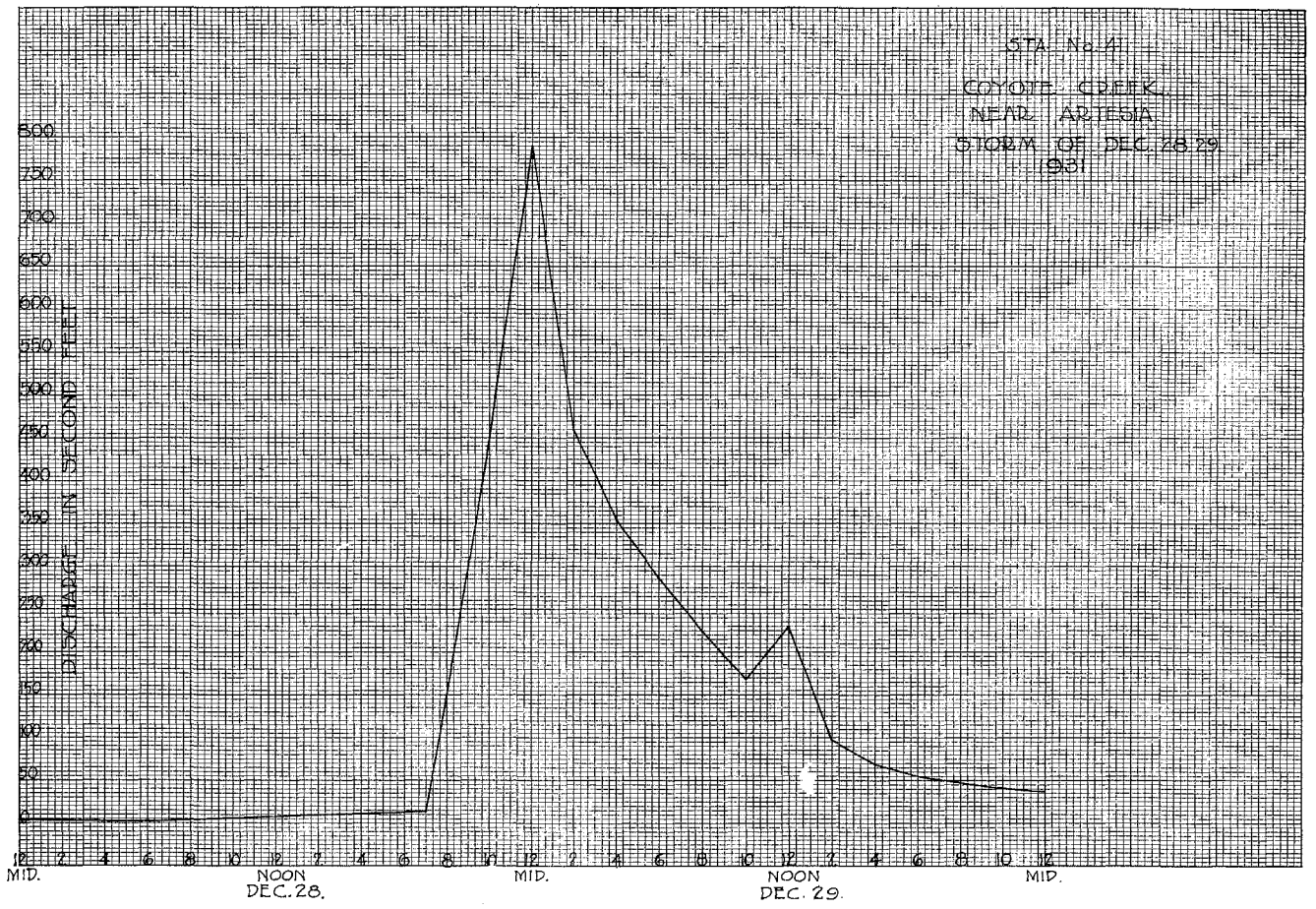
XX Near Artesia for the Year Ending September 30, 1932

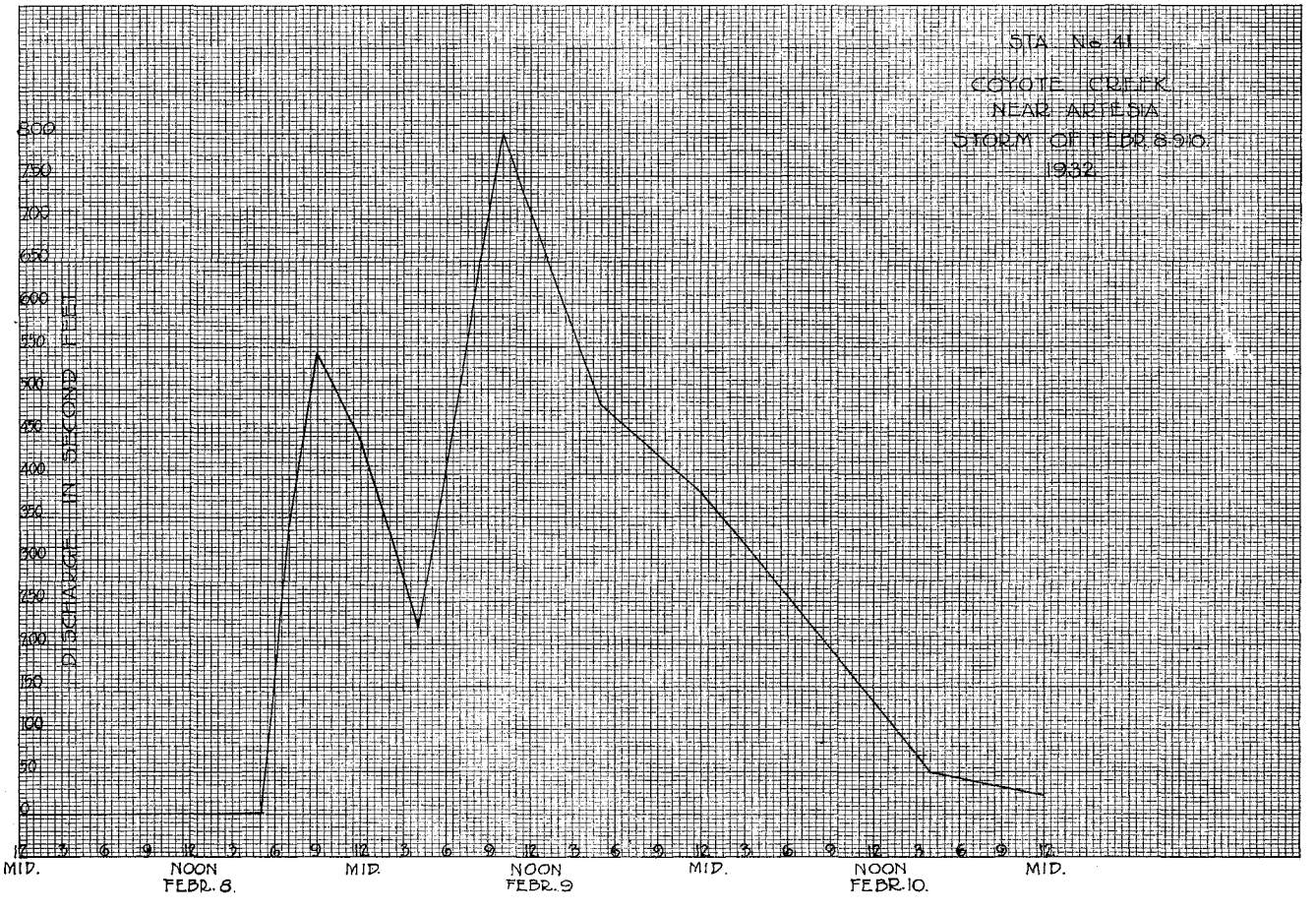
Drainage Area 110.0 Square Miles. [Seal, Cooper & Jordan Observer.] Gage Read Continuously Used rating table dated 10/1/31 - 9/30/32

Maximum stage 10.02 feet at 10 AM. on Feb. 9, 1932 Discharge 799.40 second-feet.
Minimum stage Dry feet at Various on times during year Discharge second-feet.

DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1							2.52	1.94	H	10.21	2.30	.80
2							2.19	.27	H	23.74	2.30	.80
3						DRY	2.31	.85	H	9.65	2.29	.75
4							2.53	2.01	H	4.16	2.28	.70
5							2.26	.60	2.28	.70	2.28	.70
6					2.17	.21	2.20	.30	2.21	.35	2.27	.65
7					2.22	.40	2.20	.30	2.20	.30	2.27	.65
8		DRY		DRY	2.20	.30	2.19	.27	H	113.37	2.27	.65
9					2.34	1.00	2.18	.24	H	495.65	2.26	.60
10					2.23	.45	2.19	.27	H	155.86	2.26	.60
11					2.18	.24	2.18	.24	H	11.12	2.26	.60
12					2.14	.12	2.15	.15	H	2.46	2.24	.50
13					2.08	- 0	2.13	.09	2.30	.80	2.24	.50
14					2.09	- 0	2.14	.12	2.25	.55	2.23	.45
15					2.18	.24	2.12	.06	2.23	.45	2.21	.35
16					2.20	.30	H	4.39	H	37.06	2.20	.30
17					2.41	1.35	2.54	2.08	H	50.42	2.20	.30
18					2.22	.40	2.24	.50	H	29.55	2.20	.30
19					2.15	.15	2.22	.40	H	17.91	2.20	.30
20					2.12	.06	2.20	.30	H	9.46	2.21	.35
21					2.21	.35	2.21	.35	H	3.86	2.19	.27
22					2.23	.45	2.19	.27	2.61	2.57	2.16	.18
23					2.24	.50	2.17	.21	2.50	1.80	2.16	.18
24					2.25	.55	2.14	.12	2.45	1.55	2.15	.15
25					2.31	.85	2.14	.12	2.40	1.30	2.15	.15
26					2.37	1.15	2.14	.12	2.34	1.00	2.11	.03
27					2.83	4.11	2.15	.15	2.34	1.00	2.06	0
28					H	84.42	2.15	.15	2.33	.95	2.12	.06
29					H	204.10	2.17	.21	2.32	.90	2.09	0
30					4.28	21.48	2.17	.21	-	-	2.03	0
31					3.32	8.24	2.18	.24	-	-	2.13	.09
TOTAL,						331.42		17.53		988.70		11.96
Mean Daily Discharge in Second-feet						10.7		.57		34.09		.39
Second-feet per square mile						.0971		.0052		.310		.0035
Run-off, depth in inches												
Run-off in acre-feet						657.37		34.77		1961.09		23.72
Maximum Mean Daily Discharge in Second-feet						204.10		4.39		495.65		.80
Minimum Mean Daily Discharge in Second-feet						.06		.06		.30		.03

DAY	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period Year
1	2.18	.24											
2	2.16	.18											
3	2.11	.03											
4	2.07	0											
5	2.12	.06		Dry									
6	2.15	.15											
7	2.14	.12											
8	2.13	.09											
9													
10			2.12	.06									
11			2.18	.24									
12			2.22	.40									
13		Dry	2.26	.60									
14			2.26	.60		Dry		DRY		DRY		DRY	
15			2.27	.65									
16			2.25	.55									
17	2.15	.15	2.19	.27									
18	2.18	.24	2.13	.09									
19	2.15	.15	2.09	0									
20	2.16	.18	2.22	.40									
21	2.12	.06	2.24	.50									
22			2.24	.50									
23			2.13	.09									
24				0									
25													
26		Dry											
27				Dry									
28													
29													
30													
31	-	-											
TOTAL,		1.65		4.95									
Mean Daily Discharge in Second-feet		.06		.16									
Second-feet per square mile		.00055		.0015									
Run-off, depth in inches													
Run-off in acre-feet		3.27		9.82									2690.04
Maximum Mean Daily Discharge in Second-feet		.24		.65									
Minimum Mean Daily Discharge in Second-feet		.03		.06									


STA. No. 41
COYOTE CREEK,
NEAR ARTESIA.
STORM OF DEC. 28-29
1931
DISCHARGE IN SECOND FEET
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
MID.
NOON
DEC. 28.
MID.
NOON
DEC. 29.
MID.


STA. No. 41
COYOTE CREEK,
NEAR ARTESIA.
STORM OF FEBR. 8-9-10.
1932
DISCHARGE IN SECOND FEET
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12
MID.
NOON
FEBR. 8.
MID.
NOON
FEBR. 9
MID.
NOON
FEBR. 10.
MID.

F-62 R

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.
February 14, 1928.

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

Records Available
February 14, 1928 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Discharge Measurements
None

Channel and Control
Channel in decomposed granite. Weir control.

Extremes of Discharge
No flow since recorder installed.

Diversion
None

Regulation
None

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

F-53 R

DUME CREEK (ZUMA) AT ROOSEVELT HIGHWAY BRIDGE

Location
On Roosevelt Highway Bridge, near Dume Point about 1/4 mile from Pacific Ocean, 20 miles west of Santa Monica, Los Angeles County California.

Drainage Area
8.76 square miles.

Installed by
Los Angeles County Flood Control District
January 15, 1930.

Records Available
January 15, 1930 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
An continuous water stage recorder installed in house on top of galvanized iron pipe stilling well on downstream side of bridge.

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

Channel and Control
Sand and gravel. No control.

Extremes of Discharge
1929-1930
Maximum-426.0 c.f.s. on January 15, 1930
Minimum-Dry most of year.
1930-1931
Maximum-205 c.f.s. February 4, 1931
Minimum-Dry most of year
1931-1932
Maximum-425.0 c.f.s. Dec. 28, 1931
Minimum-Dry most of year.

Diversions
None

Regulation
None

Accuracy
Fair

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

F-53 R

Accuracy
Fair

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

F. C. Dist. Form 104 6M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 53

Discharge measurements of Dume Creek

at Roosevelt Highway Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating: Percent diff.	Method	Coef.	Meas. secs.	G. Ht. change: Total	Time: Hours	Meter No.
	1931		Feet	Sq. ft.	Ft. per sec.	Feet	Sec. ft.				No.			
1	12-28	Meunier-Girovard	4.5	1.53	1.20	1.93	1.8		Float		1			
2	12-28	" "	46.0	103.0	4.12	3.50	425.0		Float		1			
	1932													
3	1-31	" "	15.0	22.5	5.65	2.00	127.0		"		1			
4	2-2	" "	9.7	5.68	1.43	.31	8.2		.6		8		1/4	271 588
5	2-8	" "	14.0	14.70	3.89	1.20	57.1		.6		6		1/6	"
6	2-9	" "	15.0	17.50	3.60	1.20	63.2		Float		2			
7	2-12	Meunier	7.8	3.46	1.65	.50	5.72		.6		6		1/4	"
8	2-16	Meunier-Girovard	4.0	2.4	1.70	.30	4.08		Float		1			
9	2-18	Meunier	1.0	.15	1.00	.10	.15		Float		1			

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

At Roosevelt Highway Bridge for the Year Ending September 30, 19 32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

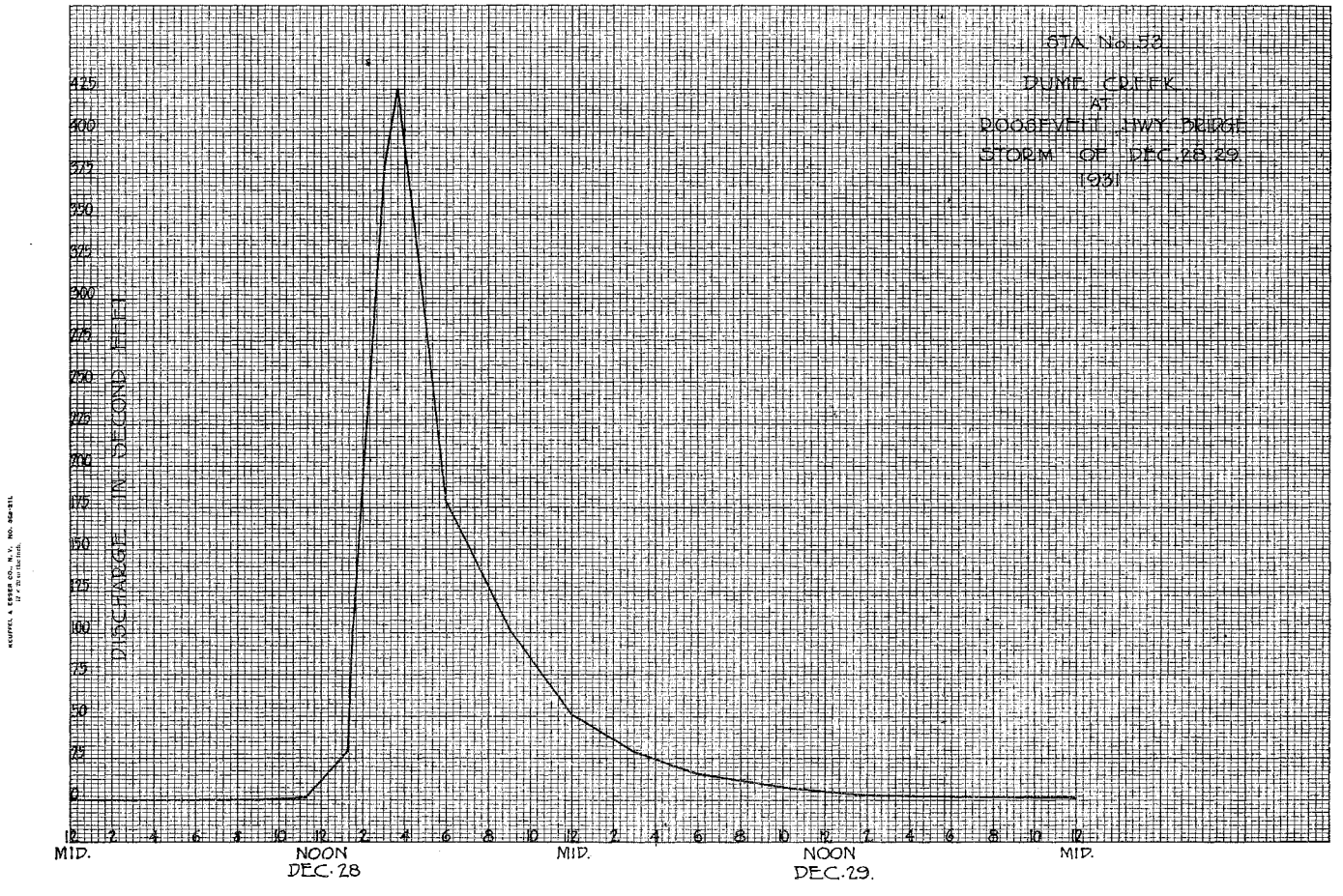
File No. 53

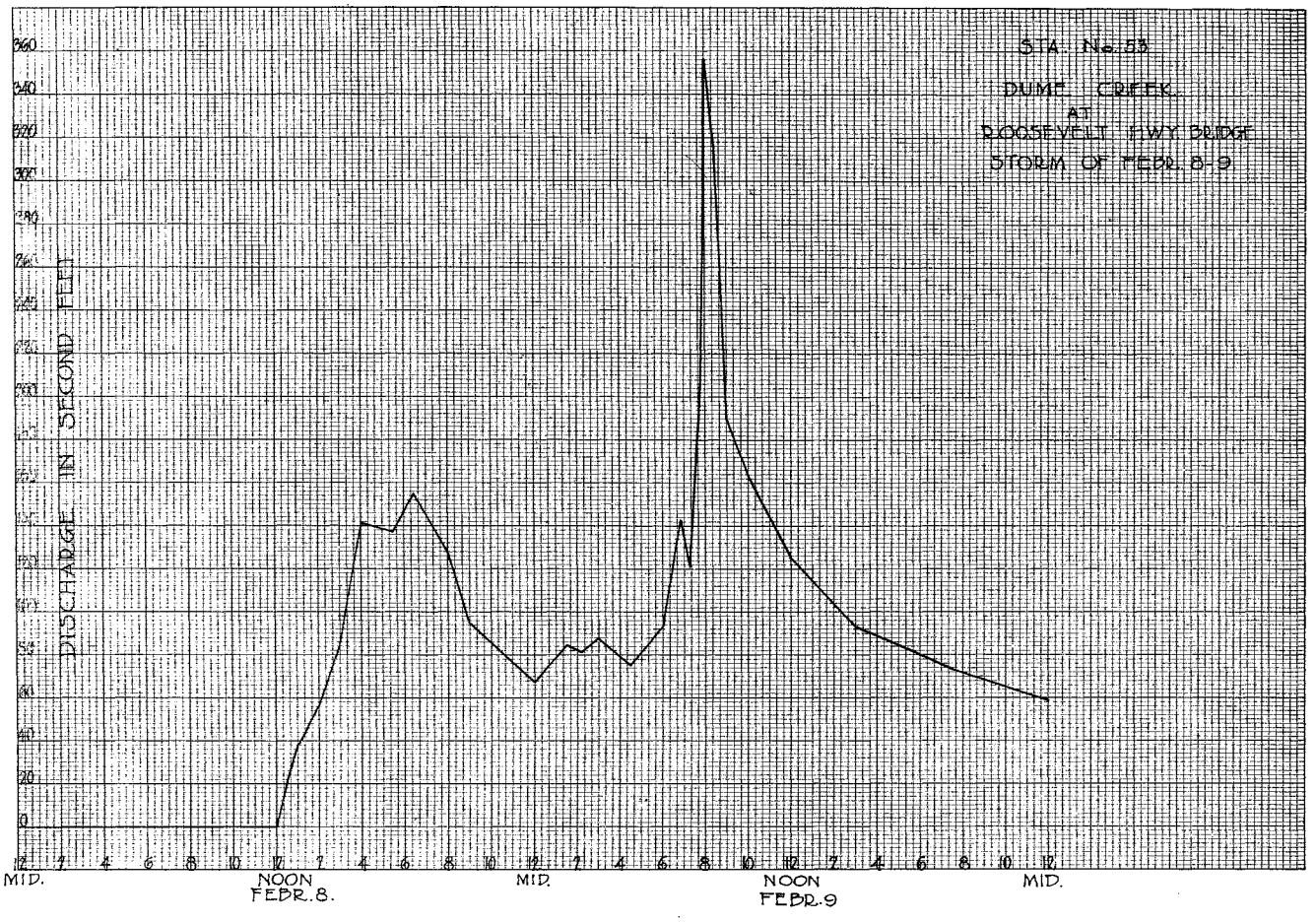
Drainage Area 8.76 Square Miles. [G. H. Meunier Observer.] Gage Read Continuously Used rating table dated 1931-1932

Maximum stage 3.50 feet at 3:40 P.M. on December 28 Discharge 425.00 second-feet.
Minimum stage Dry most of the year. feet at on Discharge second-feet.
Adjustments have been applied to all gage heights.

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									H	27.44			1													1
2									0.56	9.24			2													2
3									0.29	2.46			3													3
4									0.02	0.02			4													4
5									Dry				5													5
6									"				6													6
7									"				7													7
8									H	48.62			8													8
9									H	94.37			9													9
10									1.08	34.92			10													10
11									0.70	14.60			11													11
12									0.45	5.83			12													12
13									0.43	5.32			13													13
14	DRY		DRY		DRY		DRY		0.41	4.85	DRY		14	DRY		DRY		DRY		DRY		DRY		DRY		14
15									0.39	4.41			15													15
16									0.36	3.79			16													16
17									0.25	1.78			17													17
18									0.11	0.18			18													18
19									0.07	0.07			19													19
20									0.03	0.03			20													20
21									0.02	0.02			21													21
22									0.01	0.01			22													22
23									0.01	0.01			23													23
24									0.01	0.01			24													24
25									Dry				25													25
26					Dry		Dry						26													26
27					"		"						27													27
28					H	84.86	"						28													28
29					H	11.78	"						29													29
30					0.18	0.78	"						30													30
31					0.02	0.02	H	10.63					31													31
TOTAL	0.00		0.00		97.44		10.63		257.98		0.00															
Mean Daily Discharge in Second-feet	0.00		0.00		3.143		0.343		8.896		0.00															
Second-feet per square mile	0.00		0.00		0.358		0.039		1.016		0.00															
Run-off, depth in inches	0.00		0.00		0.414		0.045		1.095		0.00															
Run-off in acre-feet	0.00		0.00		193.27		21.08		511.70		0.00														726.05	
Maximum Mean Daily Discharge in Second-feet	0.00		0.00		84.86		10.63		94.37		0.00															
Minimum Mean Daily Discharge in Second-feet	0.00		0.00		0.00		0.00		0.00		0.00															

Computed H.A.T. 7/7/32
Checked OES OES 7/7/32
Date
Disch. applied OES OES 7/7/32
Disch. checked
Date
G. H. applied OES OES 7/7/32
G. H. checked
Date
PERIOD YEAR





F-104 R

EATON WASH AT SUNSET AVENUE BRIDGE

Location
On the west end of the upstream side of bridge where Sunset Avenue (formerly known as Ellis Lane) crosses Eaton Wash near El Monte, Los Angeles County, Calif.

Drainage Area
16.4 square miles

Installed by
The Los Angeles County Flood Control District December 28, 1930.

Records Available
From December 28, 1930 to September 30, 1932 at Los Angeles County Flood Control District's office, Los Angeles, California.

Gage
Stevens L type 8 day water stage recorder installed in small shelter house on top of a corrugated iron pipe stilling well at downstream side of bridge.

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

Channel and Control
Channel - shifting sand
control - none

Extremes of Discharge
1930-1931
Maximum-359 c.f.s. on April 26, 1931
Minimum-Dry most of year.
1931-1932
Maximum-183.5 c.f.s. on February 8, 1932
Minimum-Dry most of year.

Diversions
None

Regulation
None

Accuracy
Poor

F-104 R

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

NOTE:
This station was established at Sunset Avenue (formerly Ellis Lane) September 1930, due to bridge construction was moved to Broadway bridge on December 28, 1930. On November 10, 1931 it was moved back to Sunset Avenue.

F. C. Dist. Form 104 (M) 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.104

Discharge measurements of Eaton Wash

at Sunset Ave. Bridge, during the year ending September 30, 1932

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	282 883
	1931													
1	11/27	Lindsay & Burke	17.5	5.30	4.39	2.08	23.33	.6			8	.03	1/12	
2	12/14	R. Lindsay	9.8	4.73	2.77	1.24	13.11	.6			9	.04	1/6	"
3	21	Lindsay & Vande Goot	7.0	1.02	1.12	1.12	1.14	.6			7	0	"	" 271
4	28	Harting & Laird	14.0	9.18	2.67	1.30	24.54	.6			1	0	1/6	655
5	28	R.Lindsay & Cole	13.7	8.17	4.27	1.24	34.81	.6			7	0	1/6	282 883
6	28	" "	23.5	19.4	6.93	2.00	134.3	.6			7	0	"	"
	1932													
7	1/31	Harting & Laird	19.0	4.09	2.62	1.75	10.68	.6				0	1/4	271 655
8	31	Lindsay & Cole	23.0	16.6	5.75	2.15	95.3	.6				0		F.C. 21
9	2/2	" "	15.0	2.81	2.27	1.70	6.38	.6			9	0	1/6	282 883
10	9	Harting & Laird	27.0	15.8	5.92	2.40	93.70	.6				0	1/4	271655
11	10	Jordan & Stoner	28.0	10.0	4.05	2.88	40.8	.6			11	0	5/12	271656
12	11	Harting & Laird	23.5	6.50	3.21	2.70	20.85	.6				0	1/4	271655

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 104

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

At SUNSET AVENUE BRIDGE for the Year Ending September 30, 1932

Drainage Area 18.4 Square Miles. [Lindsay Observer.] Gage Read ______ Used rating table dated 10-1-31 to 9-30-32

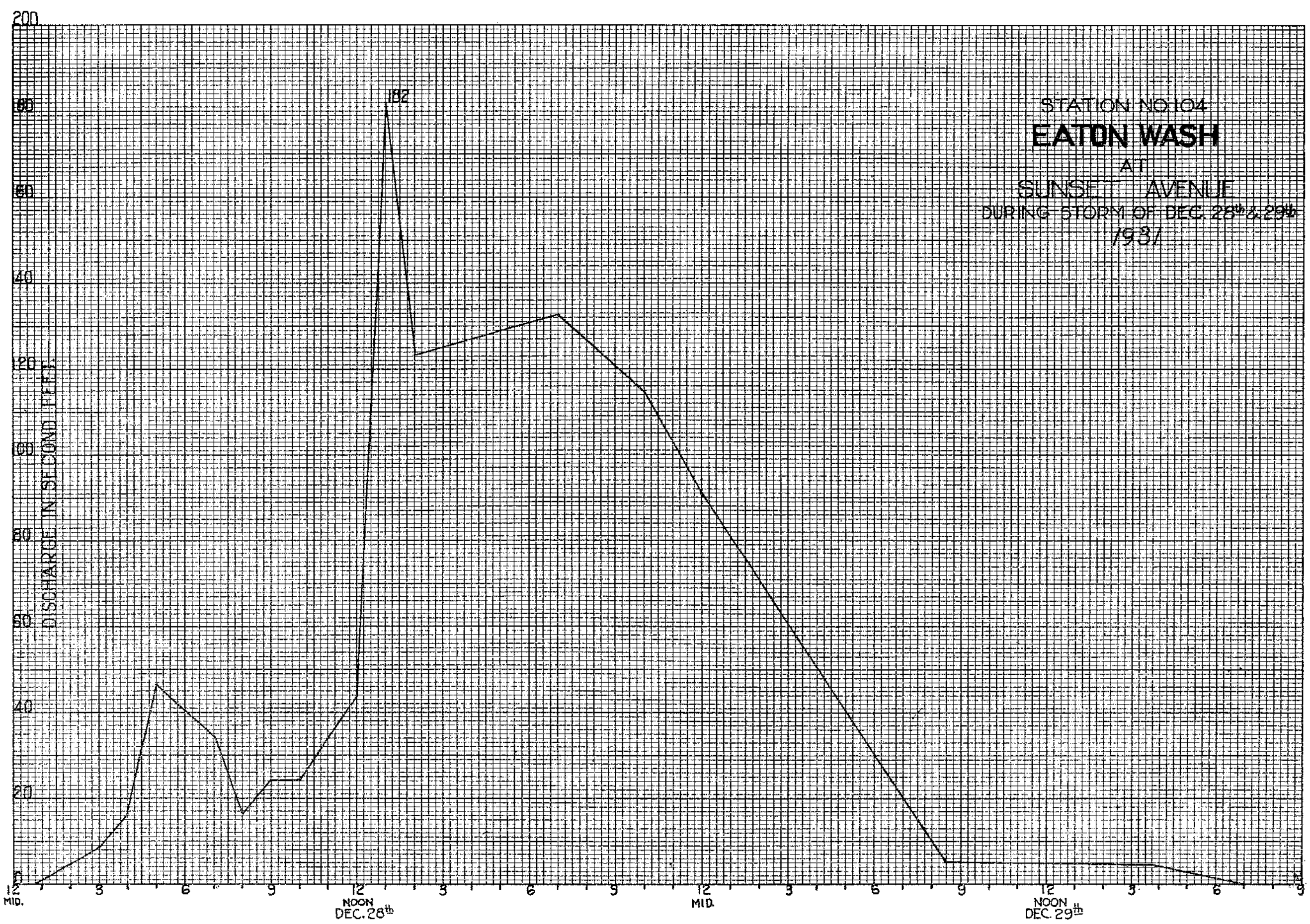
Maximum stage 2.61 feet at 6 PM on Feb. 8, 1932 Discharge 183.5 second-feet.
Minimum stage Dry ~~XXXX~~ Most of ~~XX~~ year Discharge ______ second-feet.

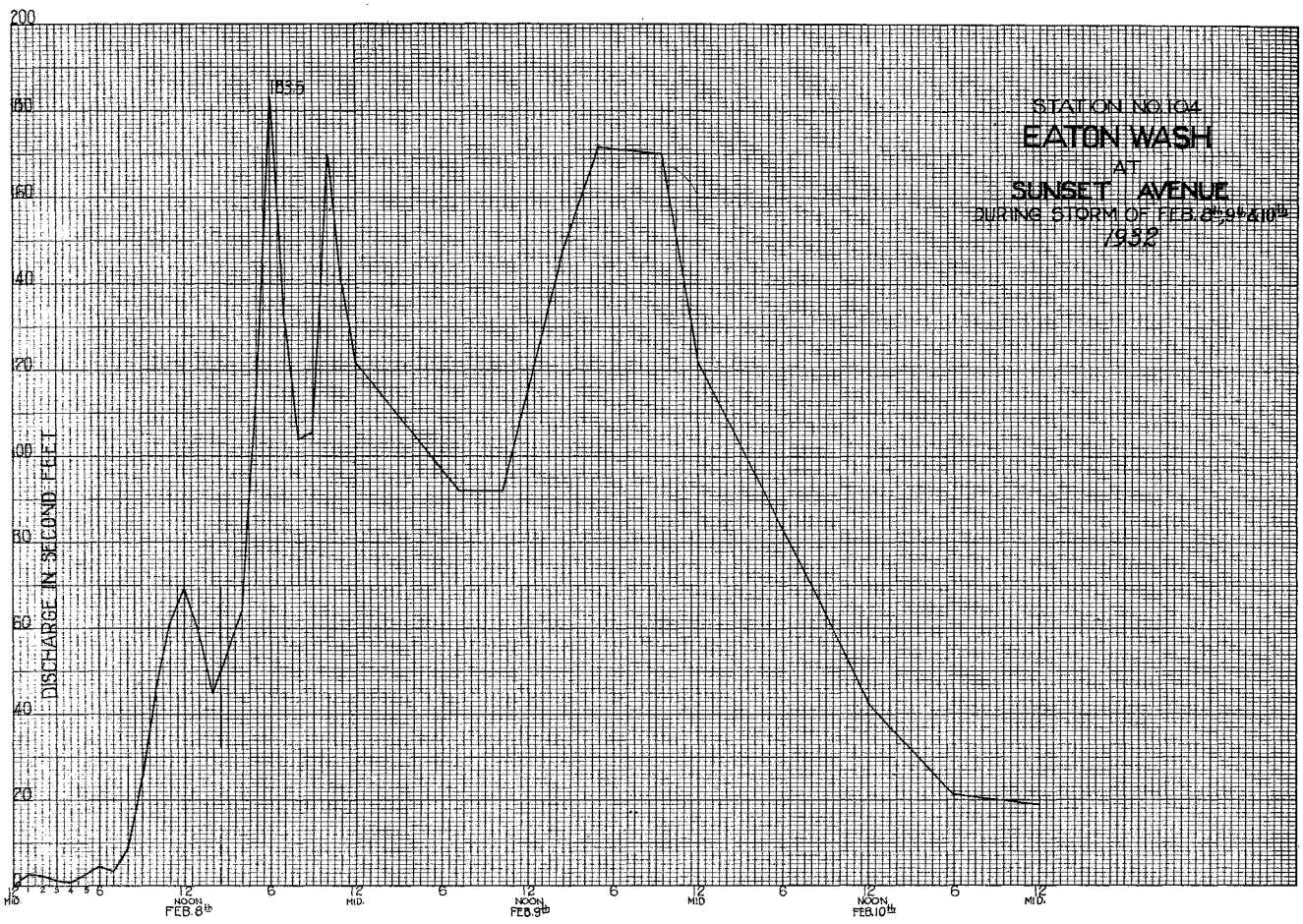
DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1							H	0.1	H	31.0		
2							H	1.8	H	4.7		
3												
4												
5										DRY		
6												
7			DRY		DRY			DRY				
8									H	59.5		
9									H	128.9		
10									H	54.5		
11									1.38	16.8		
12							H	0.1	H	8.1		
13	DRY						H	0.3	H	0.3		
14			H	2.8	H	4.9	Dry		H	0.00		
15			H	10.6			H	.08	Dry	Dry		
16									H	5.0		
17						DRY			H	.1		
18									H	.3		
19			DRY									
20												
21					1.01	0.2						
22						Dry						
23						"	DRY		DRY			DRY
24						"						
25					1.23	7.7						
26												
27			H	7.3		DRY						
28			1.02	0.4	H	72.7						
29					H	18.7						
30				DRY	Dry	Dry						
31					H	0.3	H	38.9				

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1–13												
14		DRY		DRY		DRY		DRY		DRY		DRY
15–31												

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	PERIOD YEAR
TOTAL,	Dry	21.1	104.5	42.0	309.2	Dry	dry	Dry	Dry	Dry	Dry	Dry	
Mean Daily Discharge in Second-feet	0.0	.70	3.37	1.35	9.97	0.0							
Second-feet per square mile	0.0	.03	.15	.06	.46	0.0							
Run-off, depth in inches	0.0	.036	.178	.071	.527	0.0							
Run-off in acre-feet	0.0	41.9	207.9	83.1	613.3	0.0							945.60
Maximum Mean Daily Discharge in Second-feet	0.0	10.6	72.7	38.9	128.9	0.0							
Minimum Mean Daily Discharge in Second-feet	0.0	0.0	0.0	0.0	0.0	0.0							

Quarter	First	Second	Third	Fourth
Computed	CES	CES		
Checked	RL	RL		
Date	5/16/32			
Disch. applied	CES	CES		
Disch. checked	RL	RL		
Date	5/16/32			
G. H. copied	CES	CES		
G. H. checked	RL	RL		
Date	5/16/32			





F-110 R

FOX CREEK
ABOVE JUNCTION WITH BIG TUJUNGA CK.

Location
On Fox Creek, a Tributary to Big Tujunga Creek 1/2 mile above junction with Big Tujunga Creek, about 500 feet above lower falls.

Drainage Area
9.35 square miles

Installed by
The Los Angeles County Flood Control District November 5, 1930.

Records Available
October 1, 1930 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California

Gage
Au continuous water stage recorder installed in shelter house. Stilling well is corrugated iron pipe.

Discharge Measurements
Low water measurements made by wading near station, and V notch weir.
High water measurements made from cable car 50' below gage.

Channel and Control
Channel is gravel and boulders
Bed rock control.

Extremes of Discharge
1930-1931
Maximum-6.90 c.f.s. on February 4, 1931
Minimum-.04 c.f.s. at various times during year.
1931-1932
Maximum-400 c.f.s. on Feb. 8, 1932
Minimum-0.02 c.f.s. Oct. 1, 1931

Diversions
None

Regulation
None

Accuracy
Good

F-110 R

Operation
Located and installed by the Los Angeles County Flood Control District and operated by the Los Angeles County Flood Control District in conjunction with the U.S.G.S. Water Resources Branch

F. C. Dist. Form 184 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 110

Discharge measurements of Fox Creek, Above

Junction with Big Tujunga Creek, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
1	10/11	Irwin				0.62	.04		Weir					
2	10/21	"				0.63	.06		"					
3	11/11	"				0.68	.22		"					
4	11/15	"	1.5	.30	1.10	0.72	.33		6		3		1/4	F.C. 24
5	11/20	Irwin - Brown	1.4	.22	.32	0.67	.08		.6		3	.02	1/3	F.C. 24
6	11/27	" "	1.5	.60	1.76	0.83	1.06		.6		3	.04	1/6	"
7	12/7	Moon				0.67	.07		Weir					
8	12/9	"				0.70	.16		"					
9	12/26	Ash				0.75	.37		"					
10	12/29	Ash - Moon	6.0	3.13	1.09	0.97	3.41		.6		7	0	1/4	F.C. 19
	1932													
11	1/4	Moon	2.0	.52	1.00	0.80	.50		.6		4		1/6	"
12	1/14	"	2.0	.43	.93	0.77	.40		.6		4		1/4	"
12A	1/21	"	1.9	.42	.90	0.76	.38		.6		4		1/6	"
13	1/29	"	2.0	.45	.91	0.76	.41		.6		4		1/6	"
14	2/2	"	11.	5.95	2.06	1.12	12.3		.6		6		1/4	"
15	2/5	"	8.0	3.40	1.50	1.03	5.13		.6		7		1/4	"
16	2/10	"	21.	19.1	3.13	1.55	60.0		.6		9		1/3	"
17	2/19	"	11.	6.25	1.71	1.15	10.7		.6		10		1/4	"
18	2/25	"	11.	6.20	1.82	1.17	11.2		.6		7		1/4	"
19	3/3	"	11.	5.35	1.53	1.08	8.20		.6		9		1/4	"
20	3/11	"	9.5	4.21	1.30	1.05	5.48		.6		9		1/4	"
21	3/18	"	9.0	3.40	1.17	1.02	3.97		.6		9		1/4	"
22	3/24	"	8.0	2.96	1.09	0.98	3.24		.6		8		1/4	"
23	3/31	"	8.0	2.85	1.00	0.95	2.86		.6		8		1/6	"
24	4/8	"	7.5	2.26	.91	0.92	2.06		.6		8		1/4	"
25	4/14	"	7.0	1.70	1.00	0.89	1.75		.6		7		1/6	"

F. C. Dist. Form 184 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 110

Discharge measurements of Fox Creek, Above

Junction with Big Tujunga Creek, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1932													
26	4/21	Moon	7.0	1.70	0.98	0.90	1.67		.6		7		1/6	F.C. 19
27	4/29	"	7.0	1.85	0.90	0.90	1.67		.6		7		1/6	"
28	5/6	"	7.0	1.90	1.10	0.89	2.05		.6		7		1/6	"
29	5/20	Irwin	4.2	1.34	0.50	0.85	0.65		.6		5		1/4	FC #2
30	5/24	"				0.84	0.60		weir					
31	5/24	"				0.80	0.41		"					
32	6/3	"				0.84	0.60		"					
33	6/10	"				0.82	0.53		"					
34	6/17	"				0.80	0.48		"					
35	7/1	"				0.76	0.31		"					
36	7/8	"				0.71	0.18		"					
37	7/15	"				0.71	0.18		"					
38	7/22	"				0.72	0.18		"					
39	7/29	"				0.70	0.18		"					
40	8/4	"				0.68	0.15		"					
41	8/11	"				0.70	0.18		"					
42	8/18	"				0.68	0.15		"					
43	8/26	"				0.64	0.08		"					
44	9/15	"				0.62	0.06		"					
45	9/28	"				0.65	0.10		"					

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of FOX CREEK, ABOVE

Junct. BIG TUJUNGA CREEK for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 110

Drainage Area 9.35 Square Miles. [J. L. IRWIN-T. E. MOON Observer.] Gage Read Continuous Used rating table dated

Maximum stage 2.58 feet at 8:00 PM on 2-8-32 Discharge 400.00 second-feet.

Minimum stage 0.58 feet at on 10-1-31 to 10-3-31 Discharge 0.02 second-feet.

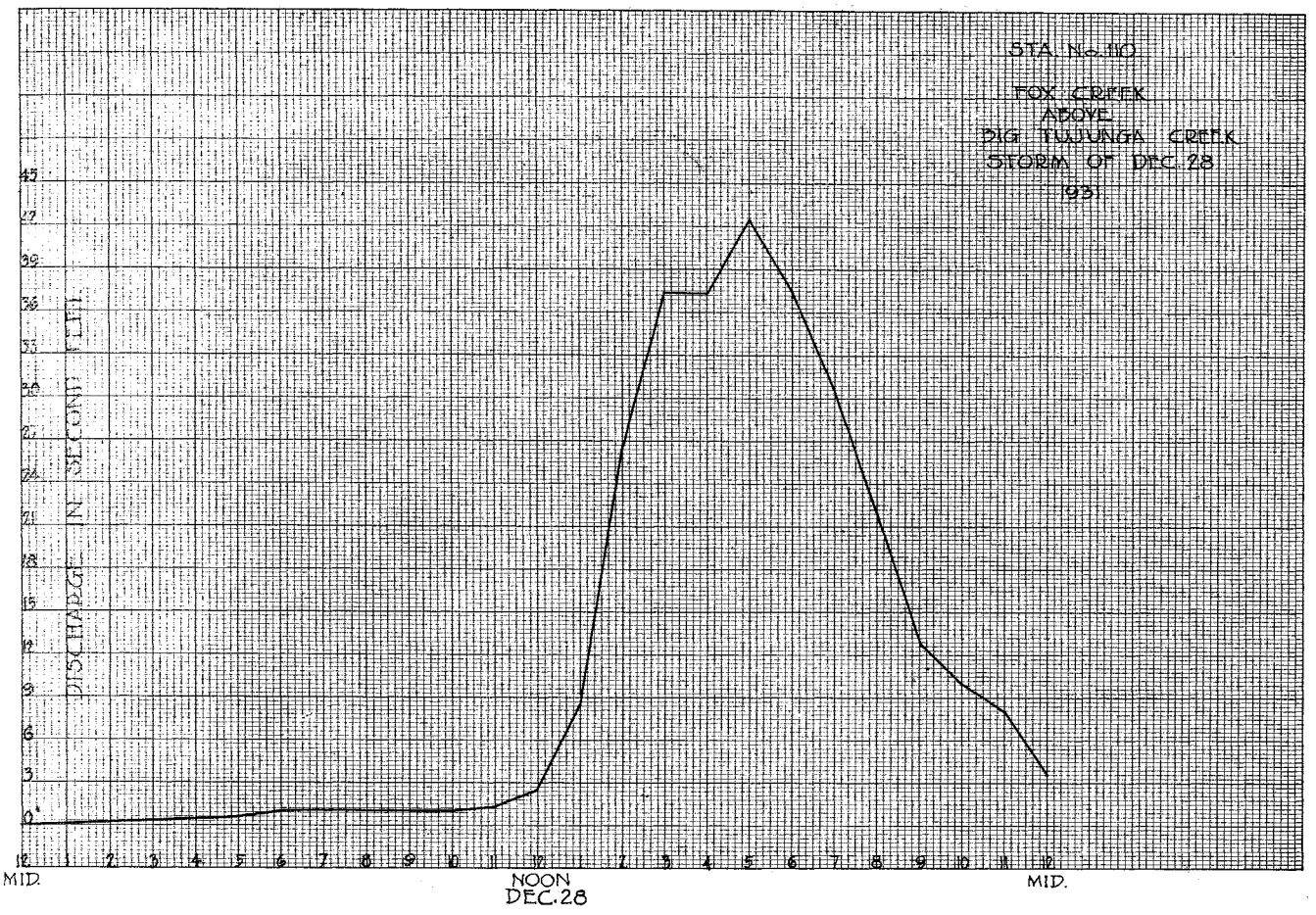
Adjustment Curve used on gage heights

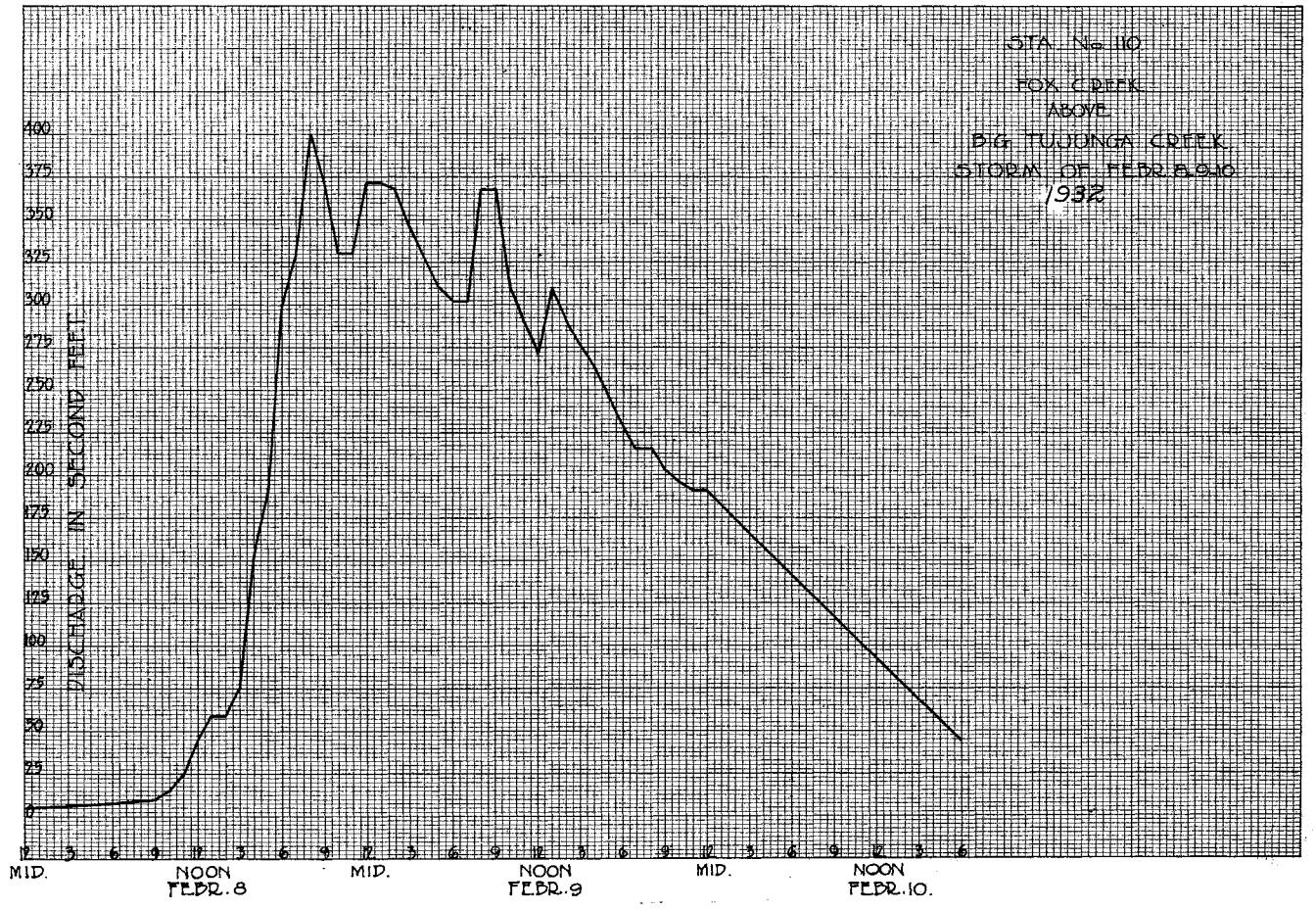
DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	DAY
1	.58	.02	.66	.12	.71	.23	.82	.90	H	21.75	1.13	9.57	1
2	.58	.02	.65	.10	.70	.18	.82	.90	1.23	15.94	1.11	8.62	2
3	.58	.02	.65	.10	.69	.16	.82	.90	1.10	8.14	1.09	7.74	3
4	.60	.03	.67	.14	.66	.12	.79	.63	1.07	6.95	1.09	7.74	4
5	.60	.03	.67	.14	.66	.12	.77	.53	1.03	5.37	1.08	7.35	5
6	.61	.04	.67	.14	.67	.14	.76	.48	1.02	4.97	1.06	6.56	6
7	.61	.04	.67	.14	.66	.12	.76	.48	1.00	4.18	1.06	6.56	7
8	.62	.06	.67	.14	.67	.14	.75	.43	H	122.17	1.05	6.16	8
9	.62	.06	.69	.16	.68	.15	.76	.48	H	285.15	1.03	5.37	9
10	.62	.06	.69	.16	.71	.23	.76	.48	1.55	61.00	1.03	5.37	10
11	.62	.06	.70	.18	.71	.23	.76	.48	1.52	55.00	1.03	5.37	11
12	.63	.08	.70	.18	.72	.28	.76	.48	1.52	55.00	1.03	5.37	12
13	.63	.08	.70	.18	.71	.23	.76	.48	1.52	55.00	1.03	5.37	13
14	.63	.08	.71	.23	.70	.18	.76	.48	1.43	39.10	1.02	4.97	14
15	.63	.08	H	.50	.72	.28	.76	.48	1.36	29.20	1.02	4.97	15
16	.63	.08	.69	.16	.71	.23	.75	.43	1.29	21.99	1.02	4.97	16
17	.63	.08	.68	.15	.70	.18	.76	.48	1.22	14.94	1.00	4.18	17
18	.63	.08	.70	.18	.69	.16	.76	.48	1.15	10.53	1.00	4.18	18
19	.61	.04	.70	.18	.68	.15	.76	.48	1.15	10.53	.99	3.94	19
20	.60	.03	.67	.14	.68	.15	.76	.48	1.13	9.57	.99	3.94	20
21	.61	.04	.68	.15	.66	.12	.75	.43	1.13	9.57	.99	3.94	21
22	.61	.04	.70	.18	.66	.12	.75	.43	1.13	9.57	.99	3.94	22
23	.61	.04	.69	.16	.66	.12	.75	.43	1.14	11.05	.98	3.70	23
24	.61	.04	.72	.28	.66	.12	.75	.43	1.15	10.53	.97	3.46	24
25	.61	.04	.71	.23	H	.71	.75	.43	1.15	10.53	.97	3.46	25
26	.61	.04	.70	.18	.75	.43	.76	.48	1.15	10.53	.97	3.46	26
27	.61	.04	H	.57	.73	.33	.76	.48	1.16	11.01	.96	3.22	27
28	.61	.04	.74	.38	H	12.01	.76	.48	1.18	12.12	.97	3.46	28
29	.62	.06	.72	.28	.97	3.46	.76	.48	1.16	11.01	.96	3.22	29
30	.63	.08	.72	.28	.89	1.67	.76	.48	-	-	.96	3.22	30
31	.65	.10	-	-	.84	1.12	H	3.91	-	-	.95	2.98	31
TOTAL,		1.63		6.11		23.87		19.42		932.40		156.36	
Mean Daily Discharge in Second-feet		.05		.20		.77		.63		32.15		5.04	
Second-feet per square mile		.005		.022		.085		.07		3.57		.56	
Run-off, depth in inches													
Run-off in acre-feet		3.23		12.12		47.35		38.52		1849.42		310.14	
Maximum Mean Daily Discharge in Second-feet		.10		.57		12.01		3.91		285.15		9.57	
Minimum Mean Daily Discharge in Second-feet		.02		.10		.12		.43		4.18		2.98	

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY	PERIOD YEAR
1	.95	2.98	.90	1.78	.78	.58	.73	.33	.68	.15	.66	.12	1	
2	.96	3.22	.90	1.78	.78	.58	.72	.28	.68	.15	.65	.10	2	
3	.95	2.98	.91	2.02	.78	.58	.72	.28	.68	.15	.65	.10	3	
4	.95	2.98	.91	2.02	.79	.63	.71	.23	.67	.14	.65	.10	4	
5	.94	2.74	.91	2.02	.79	.63	.72	.28	.67	.14	.65	.10	5	
6	.94	2.74	.91	2.02	.79	.63	.72	.28	.67	.14	.64	.09	6	
7	.94	2.74	.90	1.78	.80	.75	.72	.28	.67	.14	.64	.09	7	
8	.93	2.50	.88	1.56	.80	.75	.72	.28	.66	.12	.64	.09	8	
9	.92	2.26	.87	1.45	.80	.75	.72	.28	.66	.12	.64	.09	9	
10	.91	2.02	.86	1.34	.79	.63	.72	.28	.67	.14	.64	.09	10	
11	.91	2.02	.86	1.34	.76	.48	.72	.28	.68	.15	.64	.09	11	
12	.92	2.26	.85	1.23	.75	.43	.72	.28	.68	.15	.64	.09	12	
13	.92	2.26	.85	1.23	.76	.48	.72	.28	.68	.15	.63	.08	13	
14	.91	2.02	.84	1.12	.76	.48	.72	.28	.68	.15	.63	.08	14	
15	.91	2.02	.83	1.01	.75	.43	.71	.28	.68	.15	.62	.06	15	
16	.90	1.78	.82	.90	.74	.38	.72	.28	.68	.15	.62	.06	16	
17	.88	1.56	.82	.90	.76	.48	.72	.28	.67	.14	.62	.06	17	
18	.87	1.45	.81	.79	.76	.48	.72	.28	.67	.14	.65	.10	18	
19	.87	1.45	.81	.79	.75	.43	.72	.28	.66	.12	.65	.10	19	
20	.88	1.56	.80	.75	.75	.43	.72	.28	.66	.12	.66	.12	20	
21	.89	1.67	.79	.63	.75	.43	.72	.28	.66	.12	.65	.10	21	
22	.89	1.67	.80	.75	.74	.38	.71	.23	.66	.12	.65	.10	22	
23	.89	1.67	.79	.63	.74	.38	.72	.28	.65	.10	.65	.10	23	
24	.88	1.56	.80	.75	.74	.38	.72	.28	.65	.10	.64	.09	24	
25	.89	1.67	.80	.75	.74	.38	.70	.18	.65	.10	.64	.09	25	
26	.91	2.02	.79	.63	.73	.33	.69	.16	.64	.09	.65	.10	26	
27	.90	1.78	.79	.63	.73	.33	.69	.16	.65	.10	.65	.10	27	
28	.90	1.78	.78	.58	.73	.33	.69	.16	.67	.14	.65	.10	28	
29	.91	2.02	.78	.58	.73	.33	.69	.16	.67	.14	.65	.10	29	
30	.91	2.02	.78	.58	.73	.33	.68	.15	.67	.14	.65	.10	30	
31	-	-	.78	.58	-	-	.68	.15	.66	.12	-	-	31	
TOTAL,		63.40		34.92		14.61		7.74		4.08		2.79		
Mean Daily Discharge in Second-feet		2.11		1.13		.49		.25		.13		.09		
Second-feet per square mile		.23		.13		.05		.03		.01		.01		
Run-off, depth in inches														
Run-off in acre-feet		125.75		69.26		28.99		15.35		8.09		5.53		2513.75
Maximum Mean Daily Discharge in Second-feet		3.22		2.02		.75		.33		.15		.12		
Minimum Mean Daily Discharge in Second-feet		1.45		.58		.33		.15		.09		.06		

Quarter	Fourth	Third	Second	First
Computed	JLI WTK	JLI JLI	JLI	JLI
	JLI	JLI	JLI	JLI
Disch. applied	JLI	JLI	JLI	JLI

Checked / Date; Disch. checked / Date; G. H. copied / G. H. checked / Date


STA. No. 110
FOX CREEK
ABOVE
BIG TUJUNGA CREEK
STORM OF DEC 28
1931
DISCHARGE IN SECOND FEET
0
3
6
9
12
15
18
21
24
27
30
33
36
39
42
45
MID.
NOON
DEC. 28
MID.


STA. No. 110
FOX CREEK
ABOVE
BIG TUJUNGA CREEK
STORM OF FEBR. 8, 9, 10
1932
DISCHARGE IN SECOND FEET
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
375
400
MID.
NOON
FEBR. 8
MID.
NOON
FEBR. 9
MID.
NOON
FEBR. 10.

F-65 R

LITTLE DALTON CREEK AT MOUTH OF CANYON

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

Drainage Area
: 3.3 square miles

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

Records Available
: January 28, 1929 to September 30, 1932 at Los Angeles County Flood Control District offices, Los Angeles, California.

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

Discharge Measurements
: High water measurements made from foot bridge at recorder house. Low water measurements made by wading near gage.

Channel and Control
: Channel - rocky bottom and sides. Flow controlled by 16' Cippoletti weir. Crest of 10' Cippoletti weir = 0.00 on staff gage.

Extremes of Discharge
1929-1930
: Maximum-28.0 c.f.s. on May 3, 1930.
: Minimum-dry at various times during year.

1930-1931
: Maximum-6.34 c.f.s. April 26, 1931
: Minimum-Dry at various times during year.

1931-1932
: Maximum-72.23 c.f.s. on Jan. 31, 1932
: Minimum-Dry most of year.

F-65 R

Diversions
: Small pipe line diversion above station.

Regulation
: None

Accuracy
: Good

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

Discharge measurements of LITTLE DALTON CREEK

at MOUTH OF CANYON, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1931													271
1	11/15	Brewster	2.0	.19	1.11	0.08	0.21		.6		2	0	1/12	666
2	11/27	"	5.0	1.10	2.39	0.32	2.63		.6		5	0	1/6	"
3	12/9	"	5.0	1.47	2.62	0.35	3.85		.6		5	0	"	"
4	12/11	"				0.20	0.20		Est					
5	12/28	" & Lee	5.0	1.14	3.47	.34	3.96		.6		5	0	"	"
6	12/28	" "	6.0	4.40	5.68	.66	24.98		.6		6	0	"	"
	1932													
7	1/2	"				0.18	2.00		Est					
8	1/8	"	1.0	.19	1.05	0.08	.20		.6		2	0	1/10	"
9	1/15	"	1.0	.22	1.27	0.08	.28		.6		2	0	1/12	"
10	1/22	"	1.0	.14	.71	0.06	.10		.6		2	0	"	"
11	1/29	"	1.0	.13	.85	0.06	.11		.6		2	0	"	"
12	2/2	" & Lee	5.0	1.76	2.94	0.28	5.17		.6		5	0	1/6	"
13	2/5	"	3.0	1.12	1.44	0.16	1.61		.6		3	0	"	"
14	2/8	"	6.0	3.00	3.59	0.41	10.7		.6		6	0	1/10	"
15	2/8	"	6.0	4.48	4.38	0.50	19.6		.6		6	0	1/6	"
16	2/9	" & Lee	6.0	4.90	4.89	0.60	23.9		.6		6	0	"	"
17	2/16	" "	5.0	2.60	2.39	0.34	6.21		.6		5	0	"	"
18	2/18	"	5.0	2.94	1.83	0.32	5.37		.6		5	0	"	"
19	2/19	"	5.0	2.94	2.14	0.32	6.30		.6		5	0	"	"
20	2/26	"	4.0	1.91	1.25	0.22	2.39		.6		4	0	"	"
21	3/4	"	4.0	1.75	1.09	0.18	1.90		.6		4	0	"	"
22	3/11	"	5.0	1.59	.65	0.15	1.03		.6		5	0	1/10	"
23	3/18	"	2.0	.61	.46	0.08	.28		.6		2	0	1/6	"
24	3/25	"	1.0	.12	.42	0.03	.05		.6		2	0	1/12	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 65

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LITTLE DALTON CREEK

At MOUTH OF CANYON for the Year Ending September 30, 1932

Drainage Area 3.3 Square Miles. [C. L. BREWSTER Observer.] Gage Read Continuous Used rating table dated 1931 - 1932

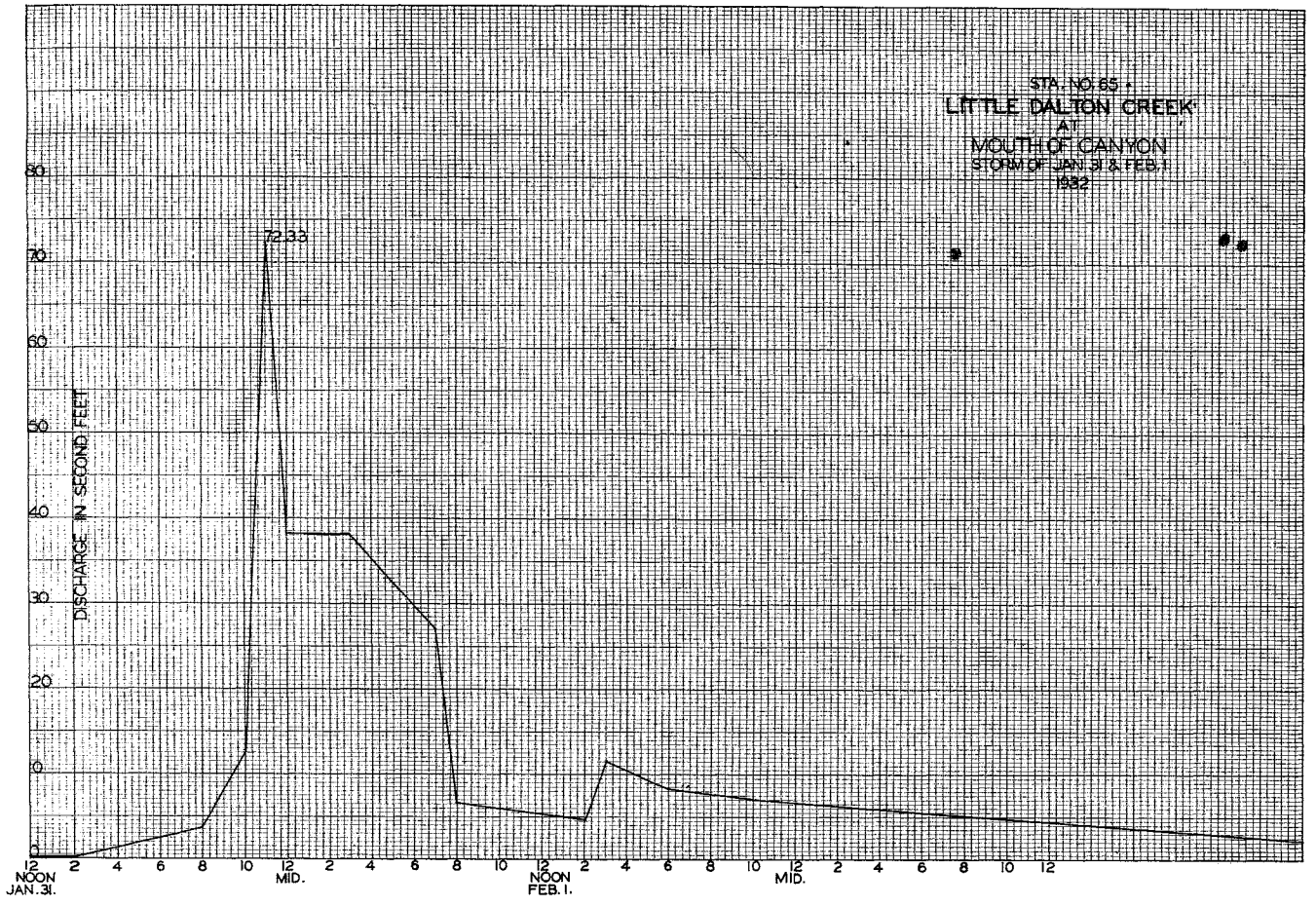
Maximum stage 1.07 feet at 11.00 PM on January 31 1932 Discharge 72.33 second-feet.
Minimum stage 0 feet at Various on times of year Discharge second-feet.
Adjustments have been applied to all gage heights

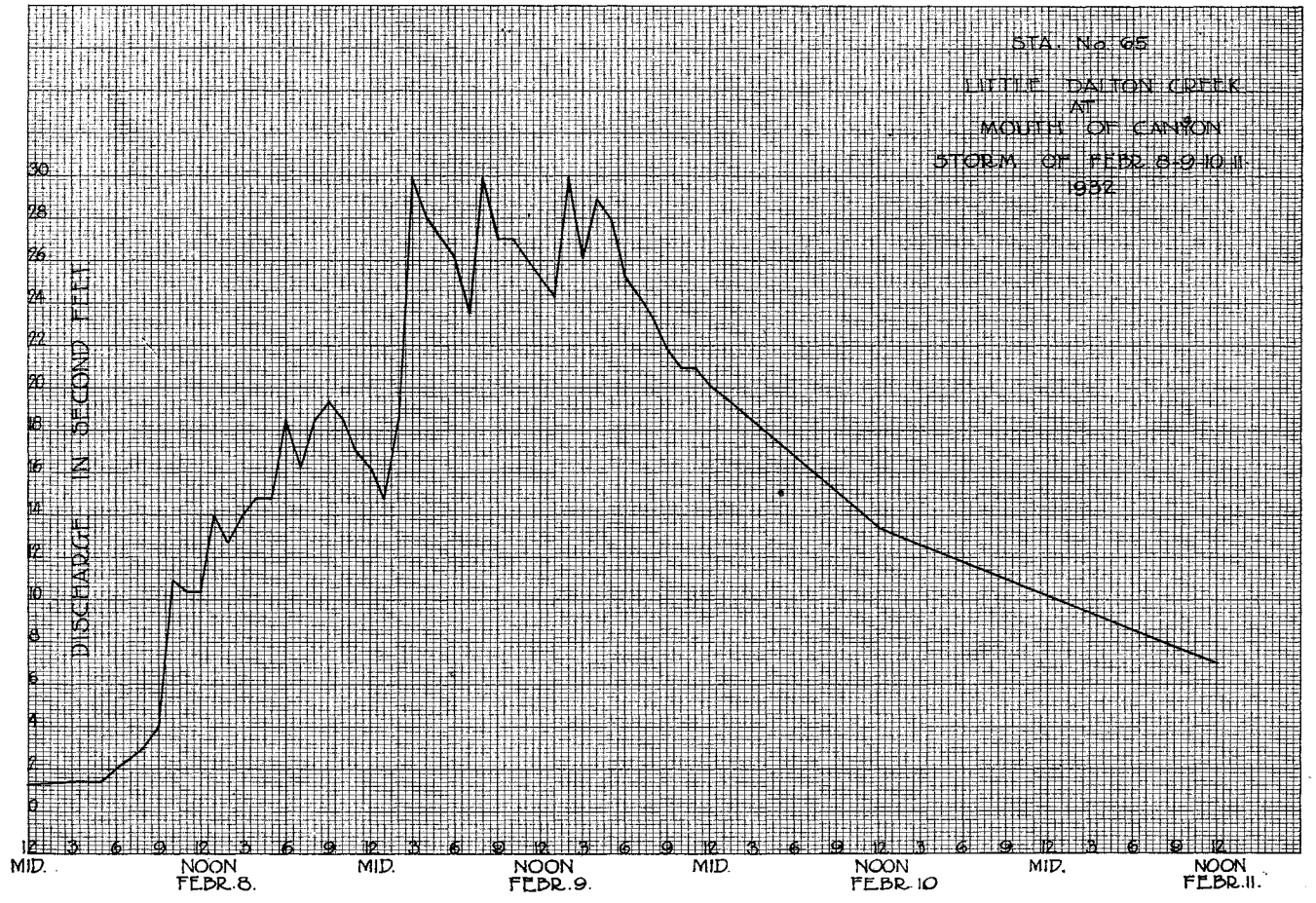
DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1							0.11	0.57	H	14.32	0.21	2.23
2							0.17	1.44	0.30	5.04	0.20	2.01
3						DRY	0.11	0.57	0.25	3.30	0.20	2.01
4							0.08	0.29	0.20	2.01	0.19	1.81
5							0.08	0.29	0.18	1.61	0.19	1.81
6							0.08	0.29	0.17	1.44	0.19	1.81
7				DRY			0.08	0.29	0.17	1.44	0.18	1.61
8					H	0.90	0.07	0.22	H	9.89	0.15	1.11
9					H	2.00	0.07	0.22	H	24.80	0.15	1.11
10					H	0.35	0.07	0.22	0.47	13.40	0.15	1.11
11			Dry		H	0.02	0.07	0.22	0.35	7.09	0.15	1.11
12			Dry			0	0.08	0.29	0.34	6.66	0.15	1.11
13			Dry			0	0.08	0.29	0.33	6.24	0.15	1.11
14		DRY	Dry		0.03	0.04	0.08	0.29	0.32	5.83	0.15	1.11
15			0.01	0.01	0.11	0.57	0.08	0.29	0.31	5.43	0.10	0.46
16					0.10	0.46	0.08	0.29	0.32	5.83	0.08	0.29
17					0.10	0.46	0.07	0.22	0.31	5.43	0.08	0.29
18					0.02	0.02	0.07	0.22	0.31	5.43	0.08	0.29
19							0.06	0.16	0.32	5.83	0.00	0.00
20				DRY			0.06	0.16	0.31	5.43	0.00	0.00
21							0.05	0.11	0.30	5.04	0.00	0.00
22						DRY	0.05	0.11	0.29	4.66	0.00	0.00
23							0.05	0.11	0.23	2.73	0.00	0.00
24							0.05	0.11	0.23	2.73	0.00	0.00
25					0.10	0.46	0.05	0.11	0.22	2.47	0.02	0.02
26					0.13	0.82	0.05	0.11	0.22	2.47	0.01	0.01
27			H	0.38	0.13	0.82	0.05	0.11	0.22	2.47	0.00	0.00
28				0	H	13.75	0.05	0.11	0.22	2.47	0.00	0.00
29				0	0.29	4.66	0.05	0.11	0.22	2.47	0.00	0.00
30				0	0.12	0.69	0.06	0.16	-	-	0.00	0.60
31			-	-	0.09	0.37	H	5.24	-	-	0.00	0.00

DAY	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1–13												
14		DRY		DRY		DRY		DRY		DRY		DRY
15–31												

	October	November	December	January	February	March	April	May	June	July	August	September	Period Year
TOTAL	0	0.39	26.39	13.22	163.96	22.42	0	0	0	0	0	0	
Mean Daily Discharge in Second-feet	0	0.013	0.851	0.426	5.654	0.723	0	0	0	0	0	0	
Second-feet per square mile	0	0.004	0.259	0.130	1.724	0.220	0	0	0	0	0	0	
Run-off, depth in inches	0	0.004	0.299	0.150	1.859	0.254	0	0	0	0	0	0	
Run-off in acre-feet	0	0.77	52.34	26.22	325.21	44.47	0	0	0	0	0	0	449.01
Maximum Mean Daily Discharge in Second-feet	0	0.38	13.75	5.24	24.80	2.23	0	0	0	0	0	0	
Minimum Mean Daily Discharge in Second-feet	0	0.00	0.00	0.11	1.44	0.00	0	0	0	0	0	0	

Quarter		Computed	Checked	Date
First	Third	CES	CES	7/12/32
	Second	CES		
	First	CES		
Second	Third	CES		7/12/32
	Second	CES		
	First	CES		
Third	Third	CES		7/12/32
	Second	CES		
	First	CES		


STA. NO 65
LITTLE DALTON CREEK
AT
MOUTH OF CANYON
STORM OF JAN 31 & FEB. 1
1932
72.33
DISCHARGE IN SECOND FEET
80
70
60
50
40
30
20
10
0
12 NOON JAN. 31.
2 4 6 8 10
12 MID.
2 4 6 8 10
12 NOON FEB. 1.
2 4 6 8 10
12 MID.
2 4 6 8 10 12


STA. No 65
LITTLE DALTON CREEK
AT
MOUTH OF CANYON
STORM OF FEBR. 8-9-10-11
1932
DISCHARGE IN SECOND FEET
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
12 MID.
3 6 9 12
NOON FEBR. 8.
3 6 9 12
MID.
3 6 9 12
NOON FEBR. 9.
3 6 9 12
MID.
3 6 9 12
NOON FEBR. 10
3 6 9 12
MID.
3 6 9 12
NOON FEBR. 11.

F-67 R

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, California.

Drainage Area
2.5 square miles.

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

Records Available
January 28, 1929 to September 30, 1932 offices of Los Angeles County Flood Control District, Los Angeles, California. U.S.G.S. records of flow at U.S.G.S. Station above dam from July 31,1916 to date, at offices of U.S.G.S. Water Resources Branch, Los Angeles, California.

Gage
Stevens L type 8 day water stage recorder installed in shelter house on stilling well at upper end of swimming pool, on east side of creek. 2' Cippoletti weir, 6" deep, control built on old wall, length 22' at crest, 2½' wide and 50" deep, vertical staff gage attached to stilling well of recorder house.

Discharge Measurements
High water flows measured from bridge near gage. Low water flows, measured by wading in channel above gage.

Channel and Control
Channel - concrete at gage. Check dams have been constructed about every 50 feet above the swimming pool. Control 2' Cippoletti weir, 6" deep in a concrete control 22' long at crest, 2½' wide and 50" deep;

Extremes of Discharge
1929-1930
Maximum-2.45 c.f.s. March 15, 1930
Minimum-Dry at various times during year.
1930-1931
Maximum-8.90 c.f.s. April 26, 1931
Minimum-Dry at various times during year.
1931-1932
Maximum- 38.10 c.f.s. Feb. 9, 1932
Minimum- Dry most of year.

F-67 R

Diversions
Water diverted above flood control dam by Sierra Madre Water Department.

Regulation
Flow regulated by Los Angeles County Flood Control Dam 1/4 mile above recorder.

Accuracy
Good.

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

F. C. Dist. Form 154 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 67

Discharge measurements of Little Santa Anita Creek

at or near ¼ mi. below Sierra Madre Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	282
1	2-1	Lindsay-Cole	5.0	2.25	1.71	.25	3.85	.6			5		1/8	883
2	2-8	Lindsay-Cole	5.5	2.54	1.64	.58	4.16	.6			5		1/6	"
3	2-10	Lindsay	9.2	5.72	3.31	.85	18.96	.6			9		1/6	"
4	2-12	Cole	4.8	2.54	1.93	.60	4.90	.6			5		1/4	"
5	2-16	Lindsay-Cole	3.2	1.44	1.48	.46	2.13	.6			3		1/15	"
6	2-19	Lindsay	3.1	1.29	1.20	.35	1.55	.6			3		1/12	"
7	2-25	"	7.4	.77	.45	.19	.35	.6			4		"	"

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LITTLE SANTA ANITA CREEK

At or Near Below Flood Control Dam for the Year Ending September 30, 19 32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 67

Drainage Area 2.49 Square Miles. [LINDSAY Observer.] Gage Read Used rating table dated Oct. 1, 1931 to Sept. 30, 1932

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1									H	7.40	.13	0.16
2									.45	2.00	.12	0.14
3									.31	.72	.10	0.10
4									.23	.39	.09	0.09
5									.19	.28	.09	0.09
6									.17	.24	.08	0.08
7									.14	.18	.08	0.08
8		WATER IN SWIMMING POOL							H	7.67	.06	0.06
9								DRY	H	20.70	.06	0.06
10									.85	18.76	.05	0.05
11									.76	11.80	.04	0.04
12									.63	5.80	.04	0.04
13									.60	4.91	.03	0.03
14									.55	3.69	.03	0.03
15							H	0.04	.43	1.74	.02	0.02
16		DRY							.50	2.74	.01	0.01
17				DRY		DRY			.46	2.14	.00	
18									.44	1.87	.00	
19									.41	1.50		
20									.36	1.01		
21									.31	0.72		
22									.28	0.58		
23								DRY	.29	0.62		DRY
24									.28	0.58		
25									.22	0.36		
26									.19	0.28		
27									.15	0.20		
28					H	4.13			.14	0.18		
29					H	0.24			.13	0.16		
30					.05	0.05			-	-		
31					Dry	0.00	H	0.70	-	-		
TOTAL,		.944		0.00		4.42		0.74		99.22		1.08
Mean Daily Discharge in Second-feet						0.143				3.421		0.035
Second-feet per square mile						.057				1.374		.014
Run-off, depth in inches						.066				1.482		.016
Run-off in acre-feet		1.87		0		8.76		1.48		196.80		2.14
Maximum Mean Daily Discharge in Second-feet						4.13				20.70		0.16
Minimum Mean Daily Discharge in Second-feet						0.00				0.16		0.00

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14		DRY		DRY		DRY		DRY		DRY		DRY
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26	.02	.02										
27												
28			Filled Pool									
29		DRY										
30												
31												
TOTAL,		0.02										
Mean Daily Discharge in Second-feet												
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		.04										211.09
Maximum Mean Daily Discharge in Second-feet												
Minimum Mean Daily Discharge in Second-feet												

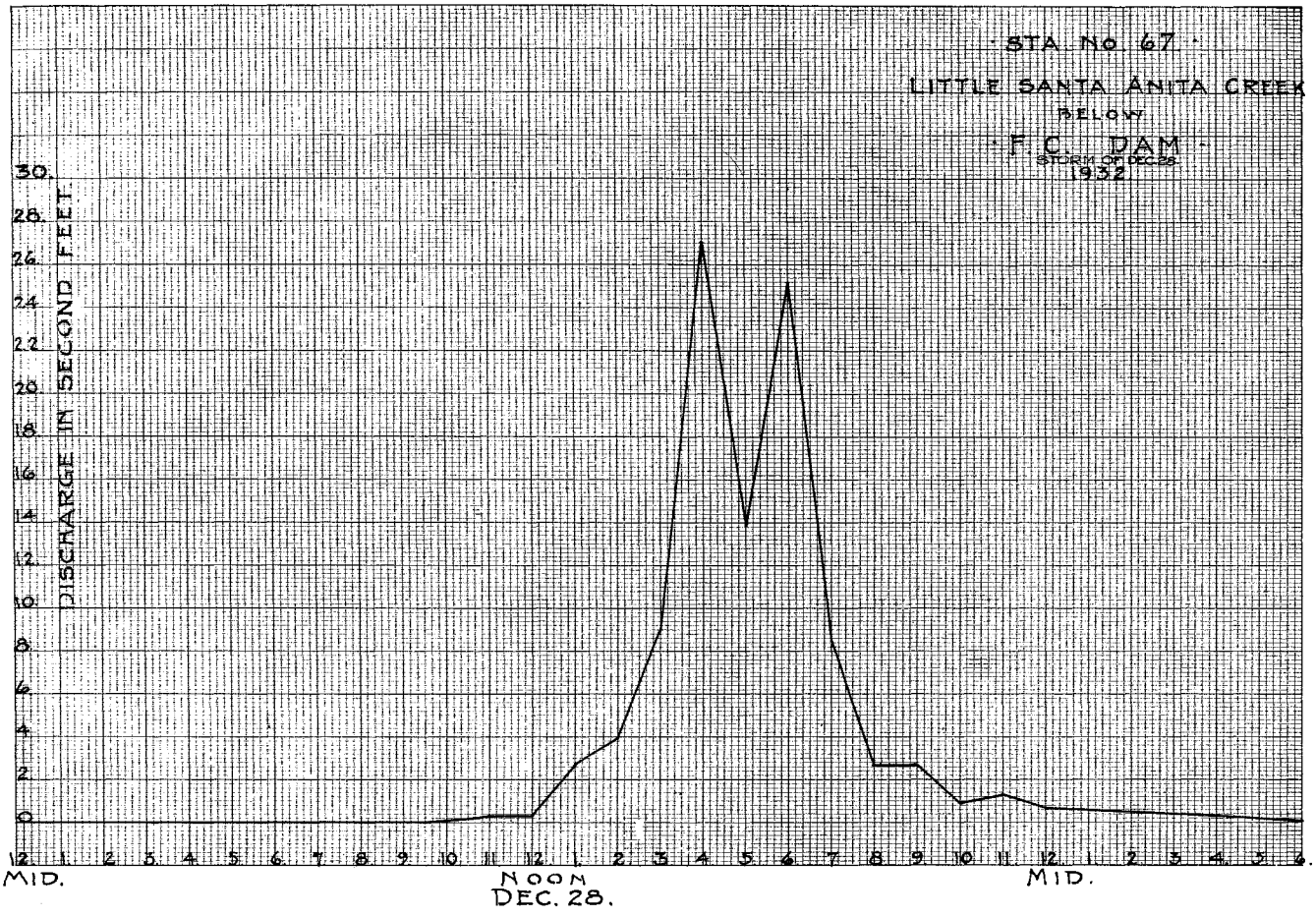
Maximum stage 1.05 feet at 2:30 PM on Feb. 9, 1932 Discharge 38.10
Minimum stage Dry feet at Most on of Year Discharge

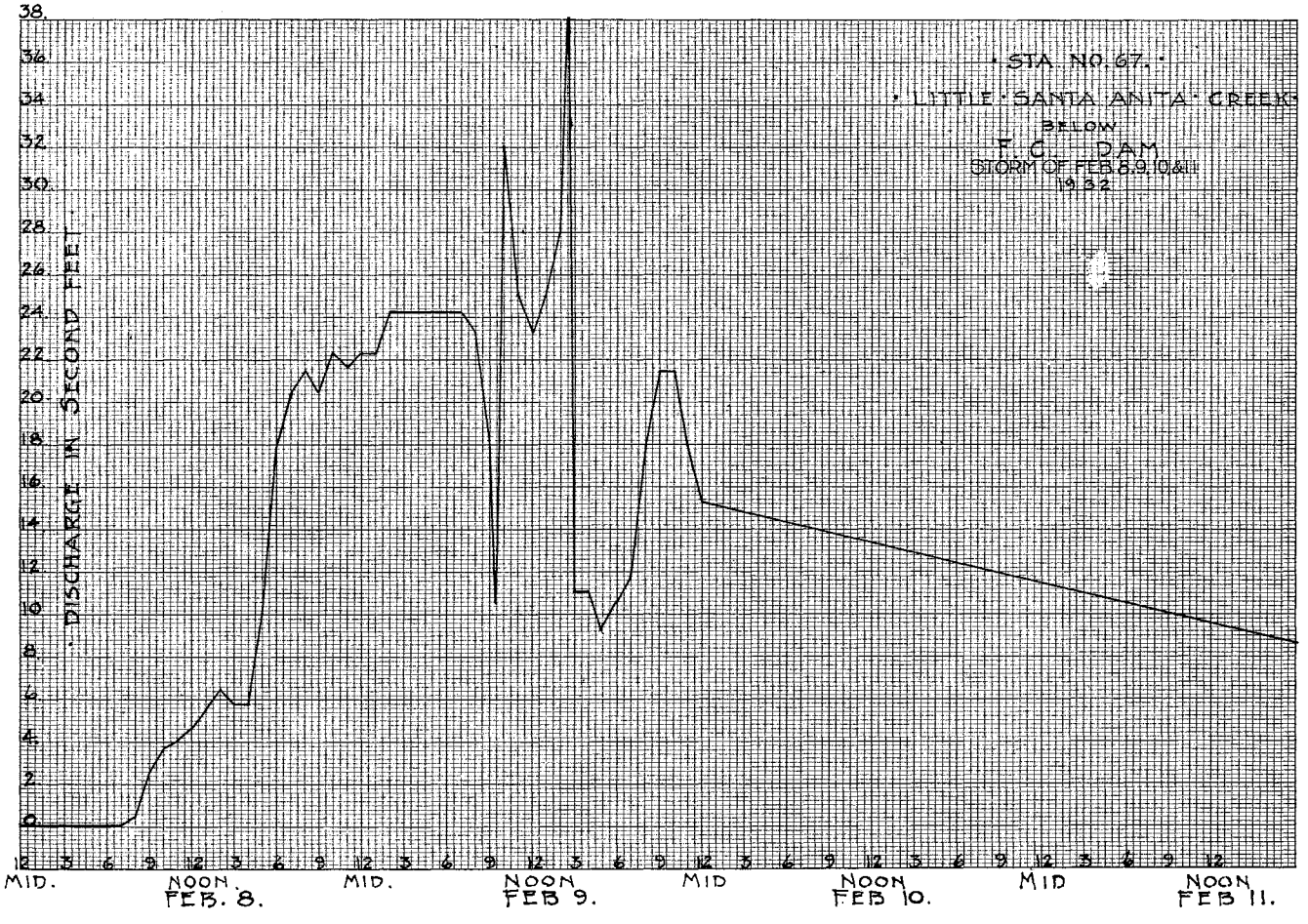
Fourth RL
Third
Second OES OES RL
First OES RL 5/30/32
Quarter Computed Checked Date

Fourth RL
Third RL
Second OES RL RL
First OES RL RL 5/30/32
Quarter Ditch applied Ditch checked Date

Fourth RL
Third RL
Second OES OES RL
First OES RL RL 5/30/32
Quarter G. H. copied G. H. checked Date

PERIOD YEAR


STA NO 67
LITTLE SANTA ANITA CREEK
BELOW
F. C. DAM
STORM OF DEC 28
1932
DISCHARGE IN SECOND FEET
30.
28.
26.
24.
22.
20.
18.
16.
14.
12.
10.
8.
6.
4.
2.
0
12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6.
MID.
NOON
MID.
DEC. 28.


STA NO 67.
LITTLE SANTA ANITA CREEK
BELOW
F. C. DAM
STORM OF FEB 8, 9, 10 & 11
1932
DISCHARGE IN SECOND FEET
38.
36.
34.
32.
30.
28.
26.
24.
22.
20.
18.
16.
14.
12.
10.
8.
6.
4.
2.
0
12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12
MID.
NOON.
FEB. 8.
MID.
NOON
FEB 9.
MID
NOON
FEB 10.
MID
NOON
FEB 11.

F-19 R

LITTLE TUJUNGA CREEK FOOTHILL BOULEVARD BRIDGE

Location
On bridge across Little Tujunga Creek at Foothill Boulevard, 4 miles east of San Fernando, Los Angeles County, California.

Drainage Area
21.0 square miles.

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

Records Available
December 26, 1928 to September 30, 1932 at Los Angeles County Flood Control District, Los Angeles, California.

Gage
Staff gage at downstream end of south face of third concrete pier from east end of bridge. Rational 7 day water stage recorder installed in shelter house on top of corrugated iron pipe stilling well at downstream end of bridge.

Discharge Measurements
High water measurements 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.
1930-1931
Maximum-30 c.f.s. February 4, 1931
Minimum-Dry most of year.
1931-1932
Maximum-659.5 c.f.s. on Feb. 9, 1932
Minimum-Dry most of the year

Diversions
None

Regulation
None

Accuracy
Only fair due to scouring during high flows.

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

Dist. Form 104 LM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 19

Discharge measurements of LITTLE TUJUNGA CREEK

at FOOTHILL BOULEVARD BRIDGE, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1931													
1	11/27	Luce-Waddicor					Est. 15							
2	12/25	" "	Two Channels			3.65	60.44		.6		14		1/4	F.C. 13
3	25	" Lovelace	Two Channels			3.56	6.71		.6		14	.01	1/3	"
4	28	" "	50.5	24.15	.61	3.90	148.0		.6		11		1/3	"
	1932													
5	1/31	Luce	14.5	2.66	3.36	3.70	8.94		.6		7		1/6	"
6	31	"	12.0	2.96	3.04	3.70	9.00		.6		6		1/12	"
7	31	Luce-Lovelace	Two Channels				54.15		.6		13		1/4	"
8	31	" "	Two Channels				60.58		.6		13		1/4	"
9	2/2	" "	19.2	5.06	3.37	3.73	17.07		.6		9	.02	1/6	"
11	3	" Lovelace	22.7	15.26	3.47	3.92	53.14		.6		9		1/6	"
12	3	Luce	9.9	2.21	3.64	3.74	8.04		.6		8		"	"
13	8	Luce-Waddicor	79.0	75.64	5.93	4.73	448.8		.6		16	.05	1/4	FC 27
14	9	" "	22.3	31.98	7.40	3.30	236.6		.6		10		1/6	25
15	2/10	" "	22.9	11.73	4.97	1.72	58.34		.6		8		1/6	13
16	11	" "	23.7	9.15	5.51	1.90	50.52		.6		9		1/6	25
17	16	" "	21.2	6.13	4.10	2.90	25.11		.6		9		1/6	13
18	19	Waddicor	24.0	3.56	2.03	2.76	7.21		.6		10		1/6	27
19	26	Luce & Lindsey	3.0	.36	1.83	3.54	.66		.6		4		1/12	13
20	11	Waddicor	4.0	.25	1.56	2.56	.39		.6		4	.05	"	27
21	3/18	Luce	7.0	13.80	1.10	4.05	1.52		.6		8	.02	"	13
22	25	Luce-Lindsey	3.5	.62	1.41	3.68	.87		.6		5		"	"
23	4/1	Luce	1.7	.40	.90	4.00	.36		.6		4		"	"
24	8	Luce	Venturi			4.00	.05		.6					
25	26	"	3.5	.57	1.21	4.34	.72		.6		6		"	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F-19 R

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LITTLE TUJUNGA CREEK

At FOOTHILL BLVD. BRIDGE for the Year Ending September 30, 1932

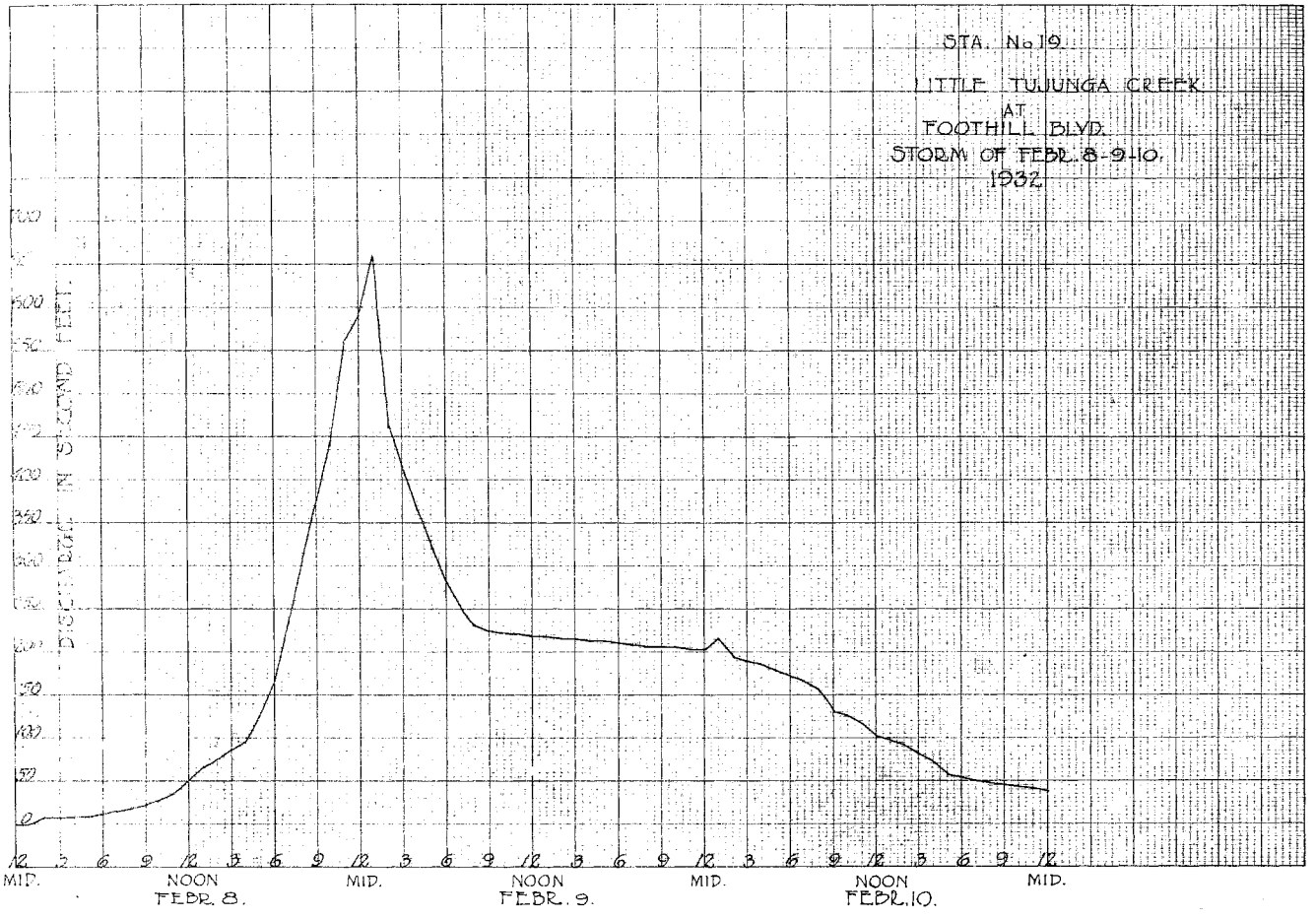
Drainage Area 21.00 Square Miles. [John W. Luce Observer.] Gage Read Continuous Used rating table dated

Maximum stage 5.21 feet at 1:00 A.M. on Feb. 9, 1932 Discharge 659.5 second-feet.
Minimum stage Dry feet at most of year Discharge second-feet.
adjustment curve used on gage heights

DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1									2.63	20.0	1.55	.50
2									2.55	17.5	1.55	.50
3									2.07	7.40	1.55	.50
4									2.11	8.20	1.55	.50
5										0	1.55	.50
6										0	1.54	.40
7										0	1.54	.40
8				DRY					H	139.0	1.54	.40
9									H	274.0	1.54	.40
10									H	114.0	1.54	.40
11									H	34.7	1.54	.40
12									H	37.2	1.55	.50
13									H	35.4	1.56	.60
14									H	35.3	1.58	.80
15			H	1.40					2.76	24.9	1.60	1.00
16									2.77	25.3	1.61	1.10
17									2.50	16.2	1.61	1.10
18		DRY		DRY		DRY		DRY	2.27	11.4	1.64	1.40
19									2.06	7.2	1.65	1.50
20									1.92	4.4	1.60	1.00
21									1.90	4.0	1.59	.90
22									1.95	5.0	1.58	.80
23									1.87	3.7	1.58	.80
24									1.77	2.7	1.58	.80
25					H	13.0			1.70	2.0	1.58	0.80
26						Dry			1.55	0.5	1.57	.70
27						Dry			1.55	.50	1.56	.60
28					H	40.0			1.55	.50	1.56	.60
29						Dry			1.55	.50	1.55	.50
30						Dry		0	–	–	1.55	.50
31					H	16.1	2.45	15.0	–	–	1.55	.50
TOTAL,		0		1.40		69.1		15.0		831.5		21.40
Mean Daily Discharge in Second-feet		Dry		.05		2.23		0.50		28.67		.69
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		0		2.78		137.02		29.75		1648.86		42.44
Maximum Mean Daily Discharge in Second-feet		0		1.40		40.0		15.0		274.0		1.50
Minimum Mean Daily Discharge in Second-feet		0		0		0		0		0		0

DAY	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period Year
1	1.54	0.40											
2	1.54	.40											
3	1.53	.30											
4	1.52	.20											
5	1.51	.10											
6	1.51	.10											
7	1.51	.10											
8	1.51	0.10											
9		Dry											
10													
11													
12													
13													
14													
15													
16													
17													
18		DRY		DRY		DRY		DRY		DRY		DRY	
19													
20													
21													
22													
23													
24													
25													
26													
27	1.57	.70											
28		Dry											
29													
30													
31													
TOTAL,		2.40		0		0		0		0		0	
Mean Daily Discharge in Second-feet		.08		0		0		0		0		0	
Second-feet per square mile													
Run-off, depth in inches													1865.61
Run-off in acre-feet		4.76		0		0		0		0		0	
Maximum Mean Daily Discharge in Second-feet		0.70											
Minimum Mean Daily Discharge in Second-feet		0		0		0		0		0		0	

Fourth / Third / Second / First Quarter — Computed WTK, Checked WTK, Date; Disch. applied, Disch. checked, Date; G. H. copied, G. H. checked, Date



L-1 R

LITTLE ROCK CREEK 2 MILES ABOVE DAM

Location
2 miles above Little Rock Palmdale Irrigation District's Dam a out 1000' a ove junction of Little Rock and Cantiego Creeks.

Drainage Area
49.6 square miles

Installed by
Little Rock, Palmdale Irrigation District
September, 1930.

Records Available
October 1, 1930 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Stevens type A-30 continuous water stage recorder installed in large shelter house. Iron Pipe stilling well.

Discharge Measurements
Low water measurements by wading
High water measurements from suspension bridge 10' below gage

Channel and Control
Channel gravel and boulders
Rubble concrete control with notch for low flows.

Extremes of Discharge
1930-1931
Maximum- 430 c.f.s. April 26, 1931
Minimum- Dry at various times of year
1931-1932
Maximum-2300'± February 8, 1932
Minimum-Dry at various times of year

Diversions
None

Regulation
None

Accuracy
Good

Operation
Located and installed by Little Rock Palmdale Irrigation District. Operated by Little Rock Palmdale Irrigation District in conjunction with the Los Angeles County Flood Control District and the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 PM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. L 1.

Discharge measurements of Little Rock Creek

at 2 miles above Little Rock Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-29	Luce-Waddicor-T.	32.0	35.85	1.60	1.64	57.19		.6		17		¼	13
2	12-29	" " Turner	31.9	35.84	1.80	1.63	64.50		.6		12		¼	13
	1932													
3	1-2	Luce	8.0	4.20	3.21	.72	13.47		.6		7		1/12	13
4	1-9	"	8.0	3.38	1.98	.51	6.98		.6		9		1/6	13
5	1-33	"	8.0	2.63	1.85	.44	4.87		.6		9		1/12	13
6	3-3	" -Waddicor	40.5	42.22	2.17	1.80	91.54		.6		20		¼	13
7	3-3	" "	40.5	41.47	3.31	1.79	91.72		.6		15		1/6	13
8	3-15	" " Lindsey	44.0	30.61	1.77	1.55	54.19		.6		17		1/6	13
9	3-15	" " "	44.0	32.06	1.87	1.55	60.0		.6		13		1/6	13
10	4-14	" Waddicor	41.0	28.81	1.92	1.54	52.33		.6		17		1/6	13
11	4-14	" "	40.0	29.74	1.66	1.54	49.39		.6		17		1/6	13
12	4-20	" "	42.5	27.68	1.80	1.47	44.42		.6		16		1/6	13
13	4-20	" "	42.7	27.52	1.05	1.47	43.24		.6		17		1/6	13
14	5-5	Luce	9.0	8.72	2.84	1.00	24.99		.6		10		1/6	13
15	5-5	"	9.0	8.69	3.10	1.01	26.97		.6		10		1/6	13

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LITTLE ROCK CREEK

XXX 2 Miles above Little Rock
XXX Irrigation District's Dam

for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

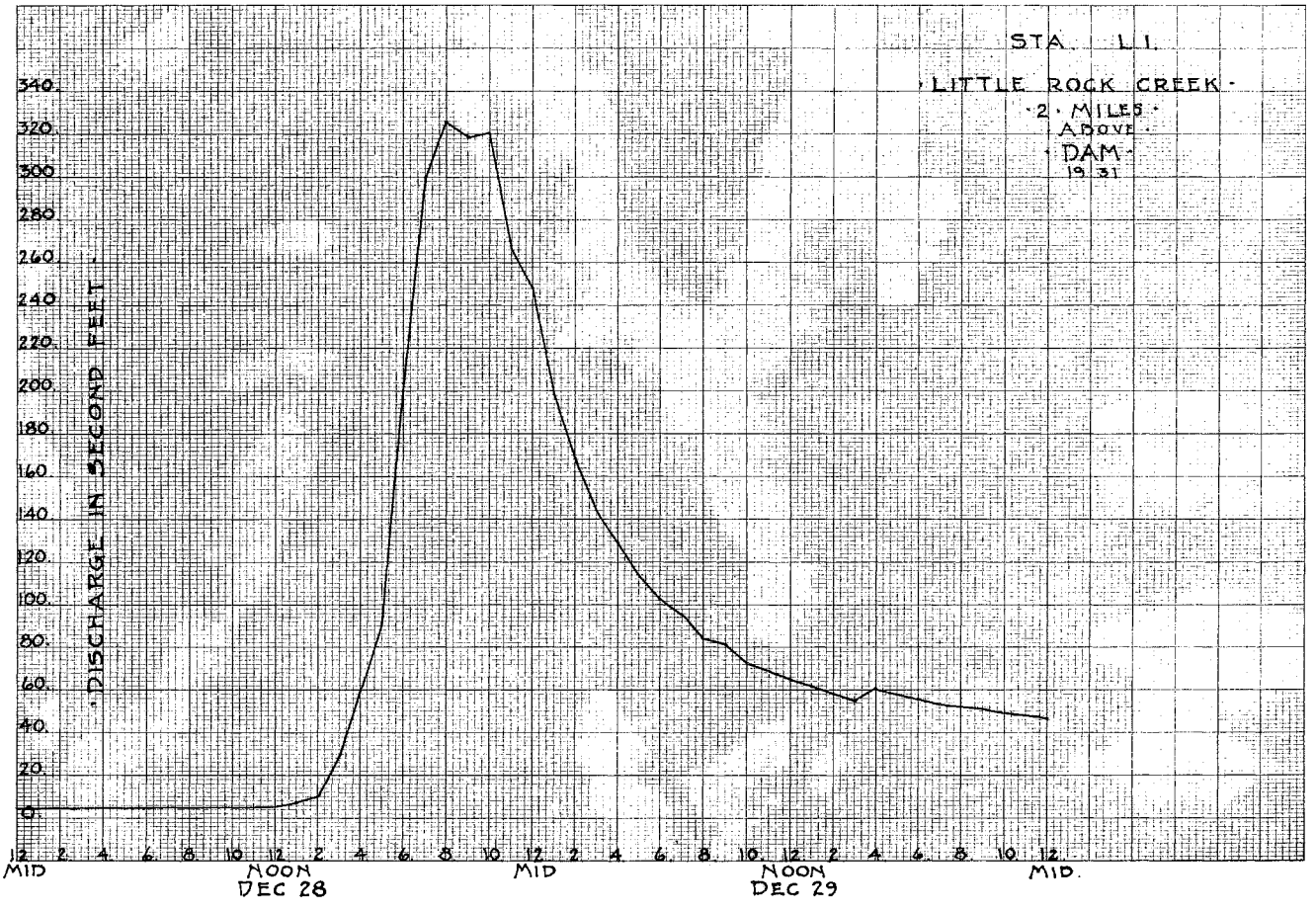
File No. L-1

Drainage Area 49. Square Miles. (Luce Observer.) Gage Read Continuous Used rating table dated 10-1-31 to 9-30-32

Discharge 22004 second-feet.
Discharge second-feet.
Maximum stage 0 feet at 10 P.M. on Feb. 5 of year
Minimum stage 0 feet at Various times of year
+ computed from inflow of Dam

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1						0	.76	15.90	.63	11.40	1.92	104.8	1	1.70	70.0	1.08	28.70	.62	11.10	.30	3.00		2.00			1
2					.09	.34	.69	13.20	.60	10.50	1.87	95.90	2	1.69	68.9	1.13	31.00	.61	10.80	.29	2.80		2.00			2
3					.11	.48	.63	11.40	.52	8.10	1.84	90.80	3	1.68	67.8	1.13	31.00	.67	12.60	.28	2.60		2.00			3
4					.13	.66	.57	9.60	.49	7.20	1.80	84.00	4	1.66	65.6	1.09	29.10	.65	12.00	.27	2.45		2.00			4
5					.14	.76	.53	8.40	.47	6.60	1.74	75.60	5	1.66	65.6	1.01	25.90	.62	11.10	.26	2.30		2.00			5
6					.14	.76	.50	7.50	.55	9.00	1.74	75.60	6	1.61	60.1	.99	25.10	.60	10.50		2.15	Est.	2.00			6
7					.15	.88	.47	6.60	H	42.00	1.75	77.00	7	1.56	55.4	.98	24.70	.57	9.60	Est.	2.00		1.85			7
8					.16	1.00	.46	6.30	H	479.0	1.75	77.00	8	1.54	53.8	.96	23.90	.54	8.70		2.00		1.70			8
9					.30	3.00	.46	6.30	H	830.0	1.70	70.00	9	1.51	51.7	.95	23.50	.51	7.80		2.00		1.55			9
10					.29	2.80	.46	6.30	H	323.4	1.71	71.40	10	1.54	53.8	.97	24.30	.48	6.90		2.00		1.40			10
11					.21	1.61	.46	6.30	2.10	144.0	1.65	64.50	11	1.57	56.3	1.00	25.50	.47	6.60	Est.	2.00		1.25			11
12					.19	1.36	.49	7.20	1.87	96.90	1.65	64.50	12	1.58	57.2	1.01	25.90	.47	6.60		2.00		1.10			12
13					.17	1.12	.53	8.40	1.76	78.40	1.62	61.20	13	1.62	61.2	1.01	25.90	.47	6.60		2.00		.95			13
14		DRY		DRY	.18	1.24	.48	6.90	1.67	65.70	1.64	63.40	14	1.63	62.3	1.01	25.90	.46	6.30		2.00		.80			14
15					.17	1.12	.49	7.20	1.57	56.30	1.60	59.00	15	1.52	61.2	.99	25.10	.46	6.30		2.00		.65		Dry	15
16					.18	1.24	.46	6.30	1.52	52.40	1.57	56.30	16	1.60	59.0	.96	23.90	.46	6.30		2.00		.50			16
17					.17	1.12	.43	5.60	1.46	48.60	1.60	59.00	17	1.57	56.3	.91	21.90	.46	6.30		2.00		.35			17
18					.18	1.24	.46	6.30	1.42	46.20	1.67	66.70	18	1.54	53.8	.88	20.70	.45	6.00		2.00		.20			18
19					.21	1.61	.44	5.80	1.33	41.00	1.74	75.60	19	1.55	54.5	.86	19.90	.44	5.80		2.00		.05			19
20					.32	3.40	.44	5.80	1.35	42.00	1.80	84.00	20	1.58	57.2	.82	18.30	.44	5.80		2.00		Est. Dry			20
21					.45	6.00	.44	5.80	1.40	45.00	1.70	70.00	21	1.46	48.6	.81	17.90	.41	5.20		2.00					21
22					.65	12.00	.42	5.40	1.45	48.00	1.62	61.20	22	1.29	39.0	.79	17.10	.40	5.00		2.00					22
23					.50	7.50	.43	5.60	1.58	57.20	1.58	57.20	23	1.21	35.0	.77	16.30	.39	4.80		2.00					23
24					.42	5.40	.36	4.20	1.63	62.30	1.62	61.20	24	1.17	33.0	.75	15.50	.37	4.40		2.00					24
25					.43	5.60	.42	5.40	1.72	72.80	1.70	70.00	25	1.17	33.0	.73	14.70	.37	4.40		2.00					25
26					.55	9.00	.41	5.20	1.82	87.40	1.69	68.90	26	1.17	33.0	.72	14.30	.36	4.20		2.00					26
27					.45	6.00	.41	5.20	1.93	106.7	1.69	68.90	27	1.11	29.9	.71	13.80	.35	4.00		2.00					27
28					H	87.60	.37	4.40	1.98	116.5	1.69	68.90	28	1.10	29.5	.69	13.20	.34	3.80		2.00					28
29					H	86.70	.38	4.60	1.97	114.5	1.69	68.90	29	1.07	28.3	.68	12.90	.33	3.60		2.00					29
30					1.19	34.00	.39	4.80	-	-	1.66	65.60	30	1.07	28.3	.65	12.60	.31	3.20		2.00					30
31					.86	19.90	.42	5.40	-	-	1.65	64.50	31	-	-	.64	11.70	-	-		2.00		-			31
TOTAL		0		0		305.44		213.30		3233.20		2201.60			1,223.30		669.60		206.30		65.30		24.35		Inc.	
Mean Daily Discharge in Second-feet						9.85		6.88		111.10		71.02			50.98		21.28		6.88		2.11		.79			
Second-feet per square mile						.20		.14		2.56		1.45			1.04		.43		.14		.04		.02			
Run-off, depth in inches																									Inc.	
Run-off in acre-feet						605.71		422.97		6411.44		4365.77			3032.60		1307.99		409.09		129.49		48.29		18,733.35	
Maximum Mean Daily Discharge in Second-feet						87.60		15.90		830.00		104.80			70.00		31.00		12.60		3.00		2.00			
Minimum Mean Daily Discharge in Second-feet						.34		4.20		6.60		57.20			28.30		11.70		3.20		2.00		.05			

Computed: T. Kelfer
Checked: H.A. Vander Poot



F-31 R

LIVE OAK CREEK NEAR MOUTH OF CANYON

Location
Near mouth of canyon about 1/2 mile below Los Angeles County Flood Control District's Dam, about 3 miles northeast of La Verne, Los Angeles County, California.

Drainage Area
2.57 square miles

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

Records Available
January 4, 1928 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California.

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 made by wading at gage.
High flows made 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, 1929-1930 or 1930-1931
1931-1932
Maximum-21.86 c.f.s. Feb. 8, 1932
Minimum-Dry most of year

Diversions
None above gage.

F-31 R

Regulation
Flow regulated by Los Angeles County Flood Control District's Dam.

Accuracy
Good.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 31

Discharge measurements of LIVE OAK

at near MOUTH OF CANYON, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271
1	12/28	Brewster & Lee	10.0	6.90	2.46	1.40	17.0		.6		5		1/6	666
	1932													
3	2/8	Brewster &J.A.L.	8.0	3.85	2.62	1.12	10.0		.6		8	.04	1/10	"
4	9	" "	3.0	0.58	2.38	0.48	1.38		.6		3	0	"	"
6	13	"	5.0	1.48	1.83	0.60	2.71		.6		5		1/6	"
7	16	" "	6.0	2.16	2.05	0.80	4.43		.6		6		"	"
8	17	"	6.0	2.45	2.26	0.94	5.54		.6		6		"	"
10	27	"	0.8	.09	.89	0.08	0.08		.6		1		1/12	"
14	4/2	"	5.0	2.92	1.51	0.64	4.43		.6		5		1/6	"
15	9	"	5.0	2.09	1.30	0.52	2.71		.6		5		"	"
16	16	"	5.0	1.68	.92	0.38	1.55		.6		5		"	"
17	23	"	3.0	1.05	1.06	0.29	1.11		.6		3		"	"
18	29	Turner					.154		Flume				1/4	

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LIVE OAK CREEK

Near MOUTH OF CANYON for the Year Ending September 30, 19 32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

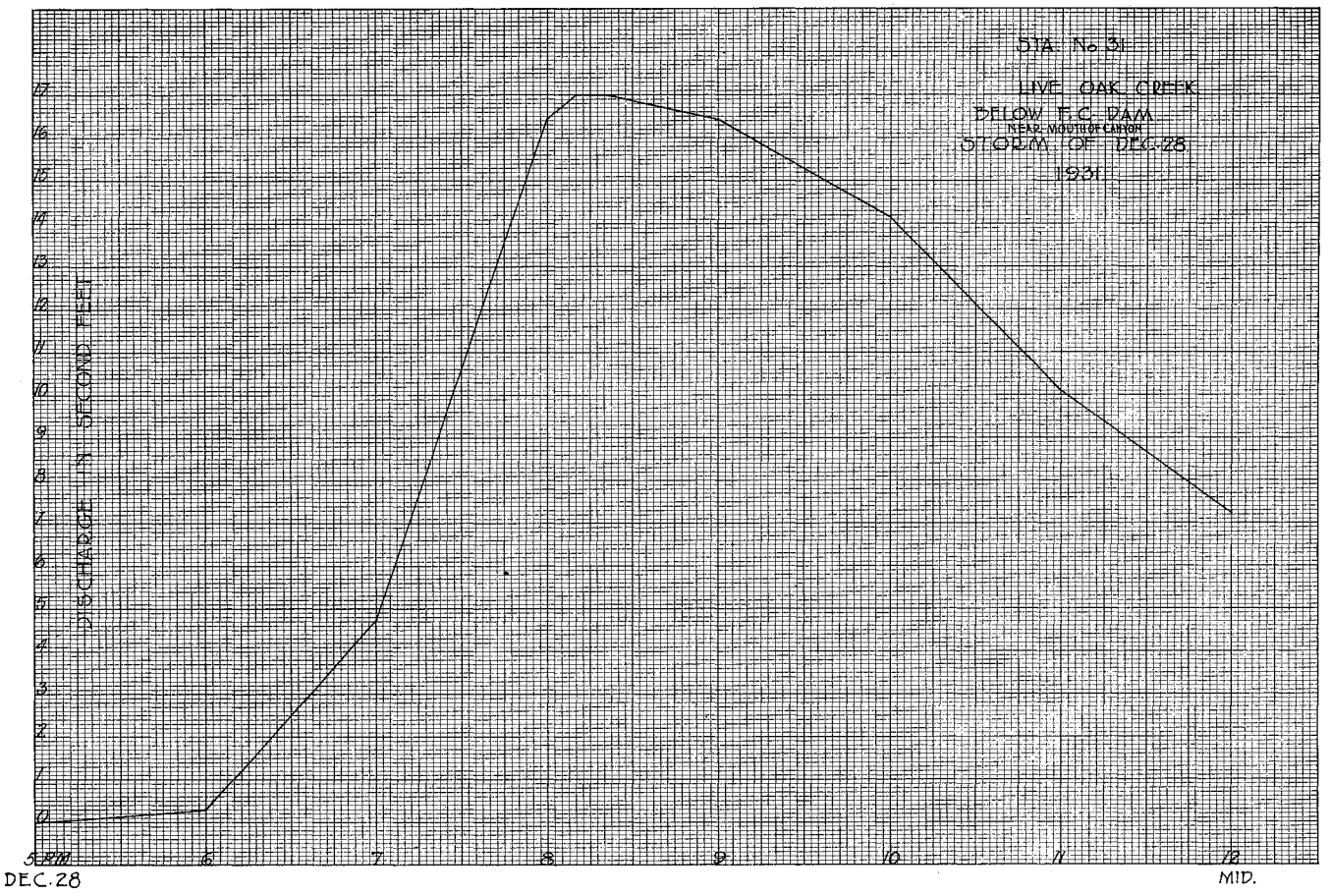
File No. 31

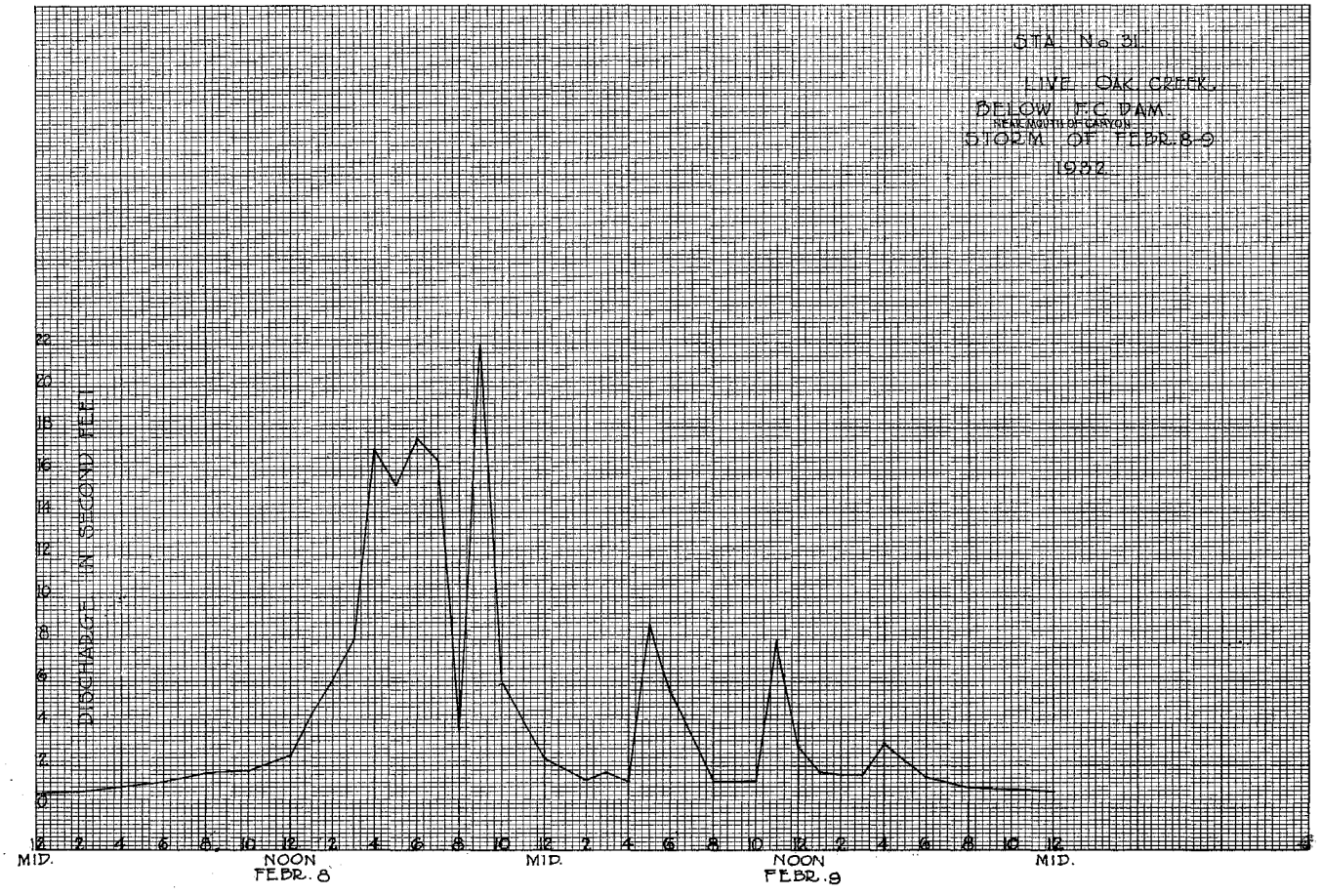
Drainage Area 2.57 Square Miles. [Brewater Observer.] Gage Read Used rating table dated 10-29-27

Maximum stage 1.56 feet at 9:00 PM on Feb. 8, 1932 Discharge 21.86 second-feet.
Minimum stage 0.00 feet at on Discharge Dry 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									H	0.63	0.07	.07	1	H	0.56		Dry								1
2									H	1.16	.07	.07	2	H	3.20		"								2
3									0.30	.48	.06	.06	3	0.56	1.90	0.02	0.02								3
4									.27	.39	.05	.05	4	.53	1.69	0.02	0.02								4
5									.26	.36	.04	.04	5	.53	1.69										5
6									.23	.27	.04	.04	6	.50	1.48										6
7									.25	.33	.03	.03	7	.46	1.24										7
8									H	5.78	.03	.03	8	.57	1.97										8
9									H	2.36	.03	.03	9	.58	2.04										9
10									H	.43	.04	.04	10	.50	1.48										10
11									H	.04	.02	.02	11	.48	1.36										11
12									H	4.15	.02	.02	12	.49	1.42										12
13									H	3.98	.02	.02	13	.52	1.62										13
14	DRY		DRY		DRY		DRY		H	4.01	.03	.03	14	.51	1.55										14
15									H	7.18	.04	.04	15	.50	1.48										15
16									H	6.14		Dry	16	.49	1.42										16
17									H	4.87	.01	.01	17	.49	1.42	DRY		DRY		DRY		DRY		DRY	17
18									H	4.79			18	.49	1.42										18
19									H	3.69			19	.48	1.36										19
20									.72	3.30			20	.47	1.30										20
21									.69	3.00			21	.48	1.36										21
22									.60	2.20			22	.46	1.24										22
23									.45	1.18			23	.43	1.06										23
24									.28	.42		DRY	24	.41	.95										24
25									.14	.14			25	.35	.68										25
26									.11	.11			26	.25	.33										26
27									.08	.08			27	.25	.33										27
28					H	2.75			.08	.08			28	.24	.30										28
29					H	1.01			.08	.08			29	.17	.17										29
30						Dry			-	-			30	.08	.08										30
31						"			-	-			31	-	-										31
TOTAL,					3.76				61.63		0.60			38.10		0.04									
Mean Daily Discharge in Second-feet					.12				2.13		.02			1.27		.001									
Second-feet per square mile					0.046				0.829		0.008			0.494		0.0									
Run-off, depth in inches																									
Run-off in acre-feet					7.46				122.24		1.19			75.57		.08									206.54
Maximum Mean Daily Discharge in Second-feet					2.75				7.18		.07			3.20		.02									
Minimum Mean Daily Discharge in Second-feet					.00				.04		.00			.08		.00									

Quarter: First Second Third Fourth — Computed CLB — Checked R.H.L. 1/6/33
Quarter: First Second Third Fourth — Computed — Checked R.H.L. 1/6/33
Quarter: First Second Third Fourth — Disch. applied — Disch. checked R.H.L. 1/6/33
Quarter: First Second Third Fourth — G. H. applied — G. H. checked — Date
PERIOD YEAR


STA. No. 31
LIVE OAK CREEK
BELOW F.C. DAM
NEAR MOUTH OF CANYON
STORM OF DEC. 28
1931
DISCHARGE IN SECOND FEET
DEC. 28
MID.


STA. No. 31
LIVE OAK CREEK
BELOW F.C. DAM
NEAR MOUTH OF CANYON
STORM OF FEBR. 8-9
1932
DISCHARGE IN SECOND FEET
MID.
NOON
FEBR. 8
MID.
NOON
FEBR. 9
MID.

F - 5 R

LOS ANGELES RIVER AT VAN NUYS BOULEVARD BRIDGE

Location
On Downstream side of highway bridge crossing Los Angeles River at Van Nuys Boulevard about 2 miles south of Van Nuys, Los Angeles County, California.

Drainage Area
157. square miles.

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

Records Available
December 19, 1928 to September 30, 1932 at Los Angeles County Flood Control District offices, Los Angeles, California.

Gage
Staff gage installed on south side at downstream end of pier of bridge. Rational recorder installed in small house on top of corrugated iron stilling well at downstream end of pier.

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

Channel and Control
Channel bed and banks are of silt and adobe. No artificial control. Bridge is in two spans.

Extremes of Discharge
1928-1929
Maximum-127. c.f.s. April 4, 1929
Minimum-.13 c.f.s. September 30, 1929
1929-1930
Maximum-389 c.f.s. March 15, 1931
Minimum-Dry September 19 and 20, 1930
1930-1931
Maximum-1295 c.f.s. February 4, 1931
Minimum-.06 c.f.s. August 27, 1931
1931-1932
Maximum-2000 c.f.s. Feb. 8, 1932
Minimum-0.160 c.f.s. Noon Aug. 6, 1931

F. C. Dist. Form 104 DH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Discharge measurements of Los Angeles River

at Van Nuys Blvd. Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Correction rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.ft.	ft. per sec.	Feet	Sec.ft.	Percent diff.			No.	Total	Hours	
1	10-2	Bollinger	1.0	.15	.60	1.73	.09	.6			2		1/12	FC 11
2	10-9	"	1.0	.16	.57	1.74	.09	.6			2		"	271 FC 11
3	10-16	"	1.0	.17	.47	1.74	.08	.6			2		"	FC 10
4	10-23	"	1.0	.16	.75	1.76	.12	.6			2		"	FC 10
5	10-30	"	1.0	.15	.53	1.75	.08	.6			2		"	FC 10
6	11-6	"	1.0	.19	.53	1.75	.10	.6			2		"	FC 10
7	11-13	"	1.0	.17	.47	1.75	.08	.6			2		"	FC 10
8	11-15	Bollinger-Rupert	3.9	1.94	2.61	2.37	5.06	.6			7		1/6	FC 10
9	11-20	Bollinger	1.0	.19	.74	1.73	.14	.6			2		1/12	FC 10
10	11-27	Rupert-Gilmore	17.8	20.11	2.73	4.15	54.90	.6			13	.1	1/2	271 647
11	12-4	Bollinger	1.7	.29	.69	1.77	.20	.6			3		1/12	FC 10
12	12-11	Bollinger-Cron	2.0	.54	.81	1.88	.44	.6			4		1/4	FC 10
13	12-14	Rupert	17.6	18.85	2.64	4.08	49.61	.6			13	.05	1/2	271 646
14	12-18	Bollinger-Moore	1.8	.36	.81	1.82	.29	.6			3		1/12	FC 10
15	12-28	Rupert-Gilmore	56.0	72.50	3.63	5.43	263.9	.6			10	.06	1/2	271 647
16	12-28	" "	63.7	194.1	4.06	8.23	787.4	.6			13	.14	2/3	271 647
17	12-30	" Hedge	4.8	4.67	.40	2.16	1.86	.6			10		1/3	271 647
18	1932 1-8	Bollinger-Moore	1.5	.43	1.00	1.87	.45	.6			3		1/12	FC 10
19	1-15	Rupert-Guptill	6.0	9.50	1.65	2.82	15.70	.6			6	.04	1/6	271 647
20	1-15	Bollinger-Moore	4.5	2.92	3.10	2.52	9.05	.6			8		1/6	FC 10
21	1-22	" "	1.7	.58	.88	1.91	.51	.6			3		1/12	FC 10
22	1-29	" "	2.0	.51	.73	1.91	.43	.6			4		"	FC 10
23	2-1	Rupert	17.5	20.20	2.72	4.11	54.91	.6			6	.04	1/2	271 647
24	2-2	Bollinger-Moore	17.5	27.60	.32	3.42	8.72	.6			6		1/3	271 650
25	2-5	" "	2.8	1.00	1.20	1.98	1.20	.6			5		1/12	FC 10
26	2-8	Rupert-Guptill	78.7	319.1	4.57	10.3	1457.	.6			16	.35	1/2	271 647
27	2-9	" "	69.7	238.0	3.72	8.63	885.1	.6			9	.1	1	271 647
28	2-10	" "	26.2	26.08	2.65	4.18	69.00	.6			11	.04	1/2	271 647

F-5 R

Diversions
None above gage.

Regulation
None

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

F. C. Dist. Form 104 DH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Discharge measurements of Los Angeles River

at Van Nuys Blvd. Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Correction rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.ft.	ft. per sec.	Feet	Sec.ft.	Percent diff.			No.	Total	Hours	
29	2-12	Rupert	5.1	3.14	2.10	2.48	6.63	.6			6		1/4	271 647
30	2-16	Rupert-Guptill	32.0	75.8	4.09	4.91	310.60	.6			8	.10	5/6	"
31	2-19	Bollinger-Moore	2.8	1.98	1.84	2.06	3.65	.6			5		1/6	FC 10
32	2-26	Rupert-Bollinger	4.1	1.04	1.44	1.81	1.50	.6			8		1/4	271 647
33	3-4	Bollinger-Moore	2.8	1.34	.87	1.75	1.17	.6			5		1/12	FC 10
34	3-11	" "	2.40	1.06	1.07	1.76	1.13	.6			4		"	"
35	3-18	" "	2.7	1.07	1.28	1.74	1.37	.6			6		1/6	"
36	3-25	" "	3.0	1.08	1.17	1.77	1.27	.6			6		1/12	"
37	4-1	Bollinger	2.9	.88	1.25	1.74	1.08	.6			5		"	"
38	4-8	"	3.0	1.07	1.46	1.79	1.56	.6			6		"	"
39	4-15	"	3.0	.96	1.13	1.77	1.08	.6			5		"	"
40	4-22	"	2.7	.68	1.06	1.70	.72	.6			5		"	"
41	4-27	"	2.7	.69	.65	1.65	.45	.6			5		1/6	"
42	5-6	"	2.6	.58	.88	1.66	.51	.6			5		1/12	"
43	5-13	"	2.7	.56	.73	1.62	.41	.6			5		"	"
44	5-20	"	1.9	.31	.58	1.60	.18	.6			3		"	"
45	5-27	"	2.5	.55	.71	1.60	.39	.6			4		"	"
46	6-3	"	2.6	.49	.63	1.58	.31	.6			5		"	"
47	6-10	"	2.5	.42	.74	1.56	.31	.6			4		1/6	"
48	6-17	"	2.5	.42	.69	1.56	.29	.6			4		"	"
49	6-24	"	2.0	.50	.90	1.57	.45	Float			4		1/12	
50	7-1	"	2.3	.46	.80	1.55	.37	Float			4		"	
51	7-15	"	1.7	.23	1.13	1.55	.26	"			3		"	
52	7-21	Lucs	2.3	.30	.73	1.54	.21	.6			4		"	FC 15
53	7-28	"	3.0	.42	.68	1.54	.29	.6			5		"	"
54	8-5	Bollinger	2.8	.42	1.00	1.55	.42	Float			5		"	
55	8-12	"	2.5	.22	1.09	1.46	.24	"			5		"	
56	8-19	"	2.5	.28	.71	1.46	.20	"			4		"	
57	8-26	Bollinger	2.0	.19	.90	1.44	.17	Float			4		1/12	
58	9-2	"	4.4	1.47	1.13	1.66	1.66	.6			6		1/6	FC 10
59	9-8	"	2.5	.30	1.00	1.43	.30	Float			4		1/12	
60	9-16	"	1.8	.22	.91	1.44	.20	Float			3		"	
61	9-23	"	1.8	.28	.96	1.43	.27	"			4		"	
62	9-30	"	2.1	.46	.80	1.47	.37	"			4		"	

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 5

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LOS ANGELES RIVER

At VAN NUYS BLVD. BRIDGE for the Year Ending September 30, 1932.

Drainage Area 157.06 Square Miles. [C. E. BOLLINGER Observer.] Gage Read Continuous Used rating table dated

Maximum stage 11.89 feet at 6 PM on Feb. 8, 1932 Discharge [illegible] second-feet.
Minimum stage 1.44 feet at Noon on Aug. 26 Discharge 0.16 second-feet.
Adjustments used on Gage Heights

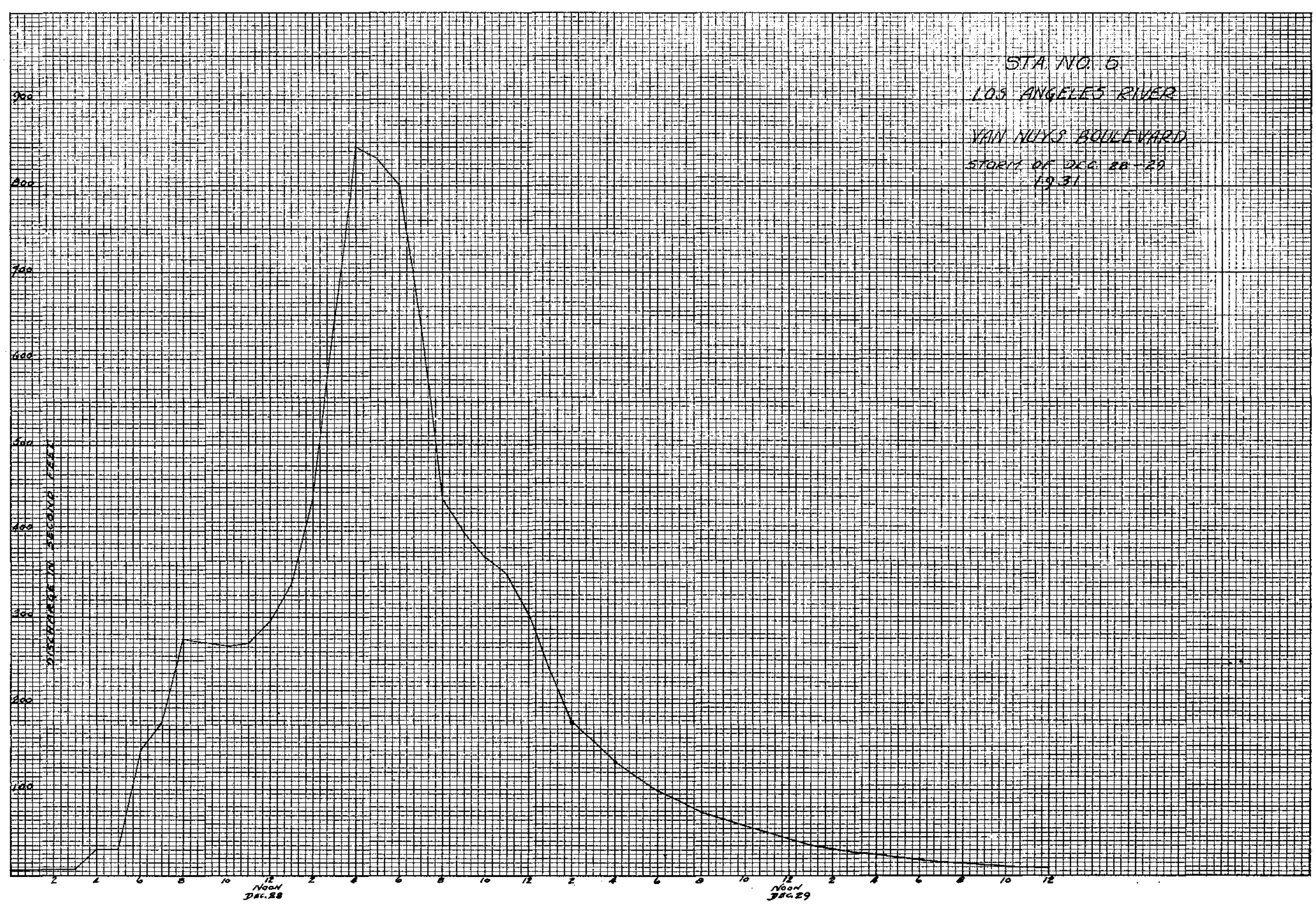
DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	1.73	0.13	1.70	0.08	1.77	0.21	1.89	0.60	H	66.04	2.02	1.34
2	1.71	0.10	1.71	0.10	1.77	0.21	H	24.12	H	14.17	2.00	1.20
3	1.71	0.10	1.77	0.21	1.77	0.21	2.15	2.35	2.00	1.20	2.00	1.20
4	1.71	0.10	1.85	0.42	1.77	0.21	1.93	0.80	2.00	1.20	1.99	1.14
5	1.71	0.10	1.74	0.15	1.74	0.15	1.89	0.60	2.01	1.27	1.99	1.14
6	1.70	0.08	1.71	0.10	1.73	0.13	1.90	0.65	2.06	1.62	1.99	1.14
7	1.70	0.08	1.71	0.10	1.73	0.13	1.87	0.50	2.03	1.41	1.99	1.14
8	1.71	0.10	1.71	0.10	2.46	6.28	1.85	0.42	H	826.44	1.98	1.08
9	1.71	0.10	1.71	0.10	2.49	6.82	1.85	0.42	H	763.13	1.98	1.08
10	1.71	0.10	1.71	0.10	1.97	1.02	1.85	0.42	3.87	65.90	1.98	1.08
11	1.71	0.10	1.73	0.13	1.86	0.46	1.85	0.42	3.27	33.80	1.98	1.08
12	1.71	0.10	1.71	0.10	1.83	0.35	1.86	0.46	2.51	7.22	1.97	1.02
13	1.70	0.08	1.70	0.08	1.84	0.38	1.92	0.75	2.35	4.55	1.97	1.02
14	1.70	0.08	1.71	0.10	H	32.39	1.88	0.55	2.28	3.66	1.99	1.14
15	1.70	0.08	H	15.32	2.45	6.10	H	3.12	2.23	3.10	1.99	1.14
16	1.70	0.08	1.85	0.42	1.80	0.28	2.05	1.55	H	201.54	1.98	1.08
17	1.70	0.08	1.75	0.17	1.76	0.19	1.91	0.70	H	164.71	1.99	1.14
18	1.70	0.08	1.75	0.17	1.81	0.30	1.90	0.65	2.80	15.20	2.02	1.34
19	1.70	0.08	1.73	0.13	1.85	0.42	1.90	0.65	2.37	4.83	2.02	1.34
20	1.72	0.11	1.73	0.13	1.88	0.55	1.89	0.60	2.17	2.53	1.99	1.14
21	1.74	0.15	1.79	0.26	H	15.88	1.89	0.60	2.12	2.08	1.97	1.02
22	1.76	0.19	1.80	0.28	2.27	3.54	1.87	0.50	2.10	1.90	1.93	0.80
23	1.72	0.11	1.77	0.21	2.03	1.41	1.87	0.50	2.19	2.71	1.96	0.96
24	1.72	0.11	1.82	0.32	2.01	1.27	1.86	0.46	2.20	2.80	2.01	1.27
25	1.72	0.11	1.88	0.55	H	149.4	1.86	0.46	2.07	1.69	2.00	1.20
26	1.73	0.13	1.92	0.75	2.89	18.3	1.86	0.46	2.03	1.41	2.01	1.27
27	1.77	0.21	H	22.37	2.48	6.64	1.86	0.46	2.02	1.34	1.98	1.08
28	1.76	0.19	2.14	2.26	H	338.6	1.85	0.42	2.03	1.41	1.98	1.08
29	1.75	0.17	1.80	0.28	H	70.03	1.85	0.42	2.02	1.34	1.97	1.02
30	1.70	0.08	1.76	0.19	2.19	2.71	1.89	0.60	–	–	1.97	1.02
31	1.70	0.08	–	–	1.93	0.80	H	115.13	–	–	1.98	1.08
TOTAL,		3.39		45.68		665.48		160.34		2200.25		34.78
Mean Daily Discharge in Second-feet		0.1094		1.523		21.48		5.172		75.870		1.1219
Second-feet per square mile		.000696		.009697		.1367		.03293		.48051		.0071431
Run-off, depth in inches		.000803		.01082		.15780		.03796		.5213		.008236
Run-off in acre-feet		6.724		90.605		1319.980		318.029		4364.196		68.985
Maximum Mean Daily Discharge in Second-feet		0.21		22.37		338.63		115.13		825.49		1.34
Minimum Mean Daily Discharge in Second-feet		0.08		0.08		0.13		0.42		1.20		0.80

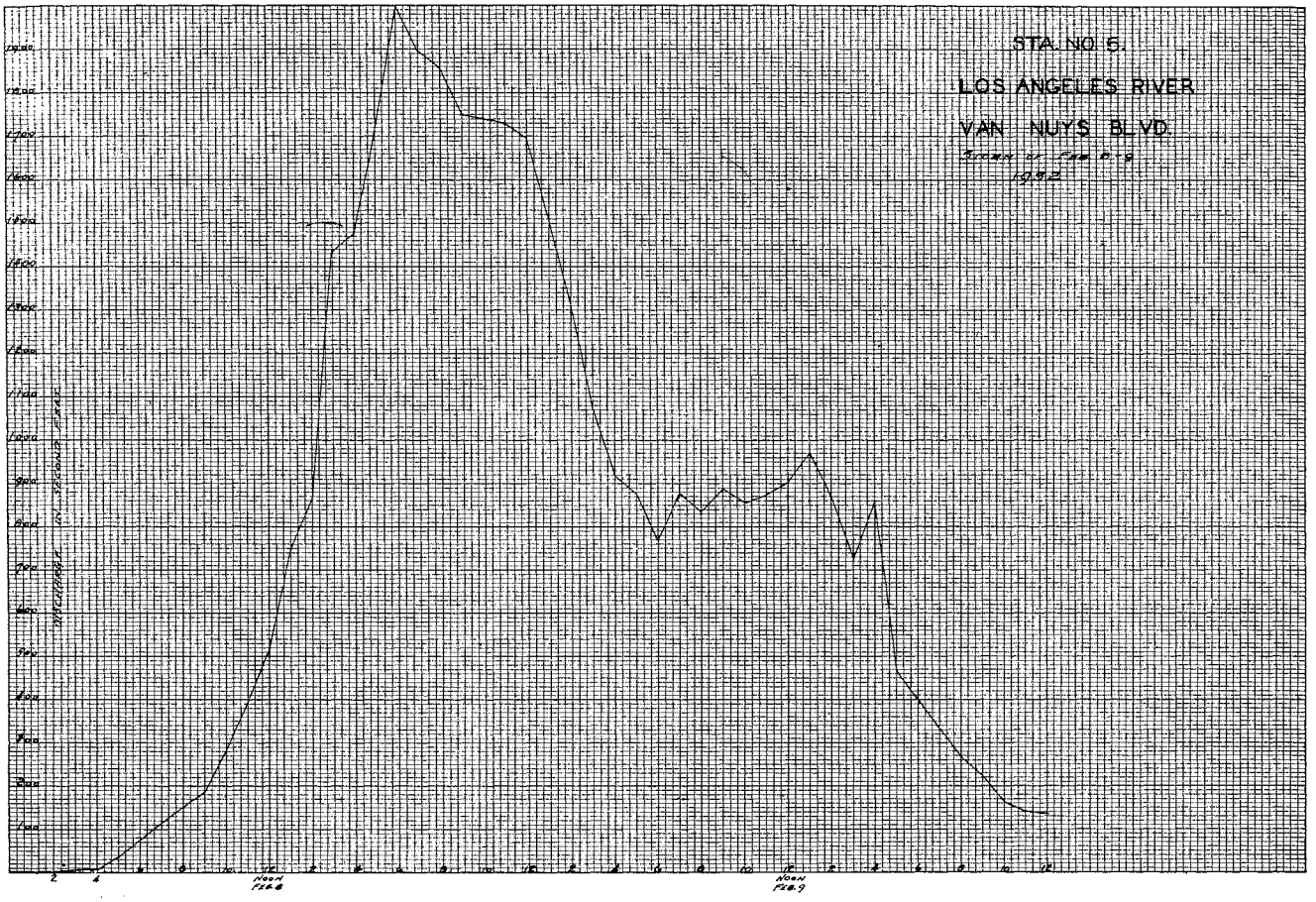
DAY	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period / Year
1	1.74	1.10	1.65	.58	1.72	.97	1.55	.28	1.56	.29	1.74	1.10	
2	1.79	1.41	1.71	.91	1.59	.34	1.53	.25	1.56	.29	1.75	1.16	
3	1.70	0.85	1.65	.58	1.58	.32	1.53	.25	1.62	.44	1.75	1.16	
4	1.73	1.04	1.71	.91	1.59	.34	1.53	.25	1.61	.40	1.63	.49	
5	1.71	.91	1.72	.97	1.60	.35	1.53	.25	1.59	.34	1.55	.28	
6	1.76	1.22	1.62	.44	1.61	.40	1.53	.25	1.59	.34	1.53	.25	
7	1.70	.85	1.64	.53	1.55	.28	1.55	.28	1.60	.35	1.58	.32	
8	1.68	.72	1.64	.53	1.55	.28	1.55	.28	1.61	.40	1.56	.29	
9	1.70	.85	1.65	.58	1.55	.28	1.56	.29	1.59	.34	1.59	.34	
10	1.69	.78	1.66	.63	1.56	.29	1.57	.31	1.56	.29	1.58	.32	
11	1.69	.78	1.64	.53	1.55	.28	1.55	.88	1.54	.26	1.55	.28	
12	1.70	.85	1.62	.44	1.55	.28	1.57	.31	1.51	.23	1.53	.25	
13	1.70	.85	1.62	.44	1.54	.26	1.58	.32	1.52	.24	1.52	.24	
14	1.70	.85	1.62	.44	1.55	.28	1.56	.29	1.50	.22	1.51	.23	
15	1.75	1.16	1.63	.49	1.56	.29	1.57	.31	1.51	.23	1.50	.22	
16	1.66	.63	1.66	.63	1.56	.29	1.55	.28	1.51	.23	1.49	.21	
17	1.67	.67	1.60	.35	1.64	.53	1.55	.28	1.51	.23	1.50	.22	
18	1.68	.72	1.60	.35	1.64	.53	1.58	.32	1.49	.21	1.51	.23	
19	1.69	.78	1.59	.34	1.62	.44	1.57	.31	1.49	.21	1.52	.24	
20	1.69	.78	1.60	.35	1.61	.40	1.56	.29	1.49	.21	1.53	.25	
21	1.70	.85	1.61	.40	1.62	.44	1.54	.26	1.48	.20	1.61	.40	
22	1.70	.85	1.62	.44	1.62	.44	1.56	.29	1.49	.21	1.55	.28	
23	1.67	.67	1.66	.63	1.59	.34	1.55	.28	1.47	.19	1.55	.28	
24	1.67	.67	1.60	.35	1.56	.29	1.55	.28	1.47	.19	1.55	.28	
25	1.70	.85	1.60	.35	1.55	.28	1.57	.31	1.45	.17	1.55	.28	
26	1.82	1.60	1.59	.34	1.55	.28	1.55	.28	1.45	.17	1.55	.28	
27	1.68	.72	1.58	.32	1.57	.31	1.55	.28	1.53	.25	1.55	.28	
28	1.66	.63	1.55	.28	1.56	.29	1.54	.26	1.57	.31	1.58	.32	
29	1.67	.67	1.54	.26	1.55	.28	1.55	.28	1.59	.34	1.55	.28	
30	1.64	.53	1.53	.25	1.55	.28	1.54	.26	1.70	.85	1.59	.34	
31	–		1.56	.29		–	1.53	.25	1.72	.97	–	–	
TOTAL,		25.84		15.46		10.66		8.71		9.52		11.10	3191.21
Mean Daily Discharge in Second-feet		0.86		0.50		0.36		0.28		.31		.37	
Second-feet per square mile		.00547		.00318		.00228		.00178		.00197		.00235	
Run-off, depth in inches		.00063		.00366		.00254		.00205		.00224		.00263	6329.74
Run-off in acre-feet		51.25		30.66		21.14		17.28		18.88		22.01	
Maximum Mean Daily Discharge in Second-feet		1.60		.97		.97		.32		.97		1.16	
Minimum Mean Daily Discharge in Second-feet		.53		.25		.28		.25		.17		.21	

Quarter	Computed	Checked	Date
Fourth	WTK		
Third	R. H. L.		
Second	CES		
First	CES		

Quarter	Disch. applied	Disch. checked	Date
Fourth			
Third			
Second	CES		
First	CES		

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





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

F-124 R

LOS ANGELES RIVER AT VINELAND AVENUE BRIDGE

Location
On highway bridge across Los Angeles River at Vineland Avenue, near Universal City, California.

Drainage Area
400± square miles.

Records Available
December 29, 1930 to September 30, 1932 and Records from January 22, 1926 to September 30, 1930 taken at Universal City near Lankershim Boulevard. Records are available at Los Angeles County Flood Control District's office.

Gage
Rational, 7 day water stage recorder in small house on top of corrugated iron stilling well fastened to bridge pier downstream side of bridge.

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

Channel and Control
Channel, sand and gravel
No control

Extremes of Discharge
1930-1931
Maximum-1236.60 c.f.s. on February 4, 1931
Minimum-.06 c.f.s. on July 1, 1931
1931-1932
Maximum-1633 c.f.s. February 5, 1932
Minimum-0.06 on November 30, Dec. 1, 1931

Diversions
None

Regulation
Low flow regulated by cutflow from Los Angeles City Power House at Diaz Avenue.
High flows regulated by Los Angeles County Flood Control Dams in mountains.

Discharge measurements of Los Angeles River

at Vineland Avenue Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Percent diff.	Method	Conf.	Meas. nos.	G.Ht. change Total	Time Hours	
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.			
1	10-2	Bollinger	4.7	1.63	.89	2.87	1.45	.6			6		1/6	"
2	10-9	"	6.2	1.94	1.07	2.92	2.08	.6			8		"	"
3	10-16	"	4.8	1.53	.87	2.83	1.33	.6			7		1/4	271/650
4	10-23	"	5.	1.41	.97	2.85	1.37	.6			7		1/6	
5	10-30	"	5.2	1.51	.89	2.87	1.35	.6			8		"	"
6	11-6	"	5.5	1.50	.92	2.87	1.38	.6			6		"	"
7	11-13	"	5.5	1.69	.97	2.88	1.64	.6			10		"	"
8	11-15	Bollinger-Rupert	41.7	16.89	1.31	3.68	22.05	.6			22	.05	1/2	"
9	11-20	Bollinger	5.5	1.82	.91	2.88	1.66	.6			7		1/6	"
10	11-27	Rupert-Gilmore	50.0	31.62	1.23	3.95	38.93	.6			18	.10	1/2	271/647
11	11-27	" "	29.0	40.30	2.08	4.50	83.70	.6			16		1/3	"
12A	12-4	Bollinger	5.9	1.68	.96	2.81	1.62	.6			7		1/6	271/650
12B	12-11	" Gron	6.7	2.09	1.06	2.83	2.21	.6			7		"	"
13	12-14	Rupert	46.0	27.30	1.16	3.40	31.67	.6			18	.06	1/2	271/647
15	12-18	Bollinger-Moore	8.8	2.48	.89	2.85	2.22	.6			8		1/6	271/650
16	12-23	" "	5.4	2.49	1.19	2.85	2.96	.6			9		"	"
17	12-28	Rupert-Gilmore	65.0	28.2	3.72	6.00	476.50	.6			15	.28	11/3	271/647
18	12-30	" Hedge	14.3	5.34	1.37	3.57	7.30	.6			11		1/4	"
19	1-8 1932	Bollinger-Moore	27.2	16.10	2.08	3.84	33.53	.6			18		1/2	271/650
20	1-15	Rupert-Guptill	15.0	11.33	2.50	3.61	28.31	.6			12	.04	1/4	271/647
21	1-15	Bollinger-Moore	16.5	12.80	2.36	3.72	30.10	.6			14		1/3	271/650
22	1-22	" "	6.7	2.04	1.16	2.92	2.37	.6			7		1/4	"
23	1-29	" "	5.2	1.78	1.18	2.90	2.09	.6			8		1/6	"
24	1-31	Rupert	31.0	20.60	1.15	3.41	23.75	.6			15	.03	1/2	271/646
25	2-1	"	35.0	24.70	2.19	5.19	142.00	.6			11	.06	"	"
26	2-2	Rupert-Guptill	44.5	27.85	1.79	4.26	49.89	.6			17	.01	"	"
27	2-5	Bollinger-Moore	10.5	3.90	1.01	3.30	3.93	.6			10		1/6	271/650
28	2-8	Rupert-Guptill	59.0	21.4	6.37	6.05	773.82	.6			15	.36	1/6	271/647

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 124

Discharge measurements of Los Angeles River

at Vineland Avenue Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.	Total	Hours	
29	2-9	Rupert-Guptill	60.0	191.8	6.77	6.81	1298.5		.6		13	.07	1/3	271 647
30	2-10	" "	49.3	42.4	2.64	3.88	111.97		.6		19	.04	1/2	"
31	2-12	Rupert	45.0	28.6	1.76	3.70	50.4		.6		16	.01	"	"
32	2-16	Rupert-Guptill	63.0	74.9	3.44	4.42	257.6		.6		14	.08	"	"
33	2-19	Bollinger-Moore	33.5	16.5	1.71	3.65	28.35		.6		20		1/6	271 650
34	2-26	Rupert-Bollinger	16.0	15.7	1.87	3.64	29.30		.6		9		1/3	271 647
35	3-4	Bollinger-Moore	7.2	2.5	1.57	3.37	3.94		.6		8		"	271 650
36	3-11	" "	7.7	3.5	1.47	3.40	5.19		.6		9		1/6	"
37	3-18	" "	6.2	3.0	1.49	3.40	4.50		.6		7		"	"
38	3-25	" "	6.5	3.0	1.16	3.38	3.49		.6		7		"	"
39	4-1	Bollinger	5.3	2.7	1.64	3.39	4.48		.6		7		"	"
40	4-8	"	5.4	2.6	1.56	3.40	4.08		.6		8		"	"
41	4-15	"	5.7	2.9	1.27	3.39	3.70		.6		8		"	"
42	4-22	"	6.4	3.2	1.28	3.40	4.03		.6		11		"	"
43	4-29	"	6.8	2.8	1.21	3.40	3.40		.6		10		"	"
44	5-6	"	7.0	2.5	1.22	3.39	3.37		.6		8		"	"
45	5-13	"	7.0	3.2	1.07	3.35	3.56		.6		9		"	"
46	5-20	"	5.2	2.6	1.28	3.38	3.29		.6		9		"	"
47	5-27	"	5.0	3.0	1.02	3.38	3.05		.6		9		"	"
48	6-3	"	6.3	2.1	1.14	3.36	2.36		.6		7		"	"
49	6-10	"	7.9	2.3	.92	3.33	2.08		.6		10		"	"
50	6-17	"	7.5	2.6	.94	3.37	2.47		.6		8		"	"
51	6-24	"	5.5	1.3	.75	3.26	.98		.6		6		"	"
52	7-1	"	10.8	2.8	.84	3.37	2.34		.6		11		"	"
53	7-15	"	7.4	1.8	.79	3.33	1.41		.6		8		"	"
54	7-21	Idce	5.5	1.6	.94	3.32	1.51		.6		7		1/12	FC 13
55	7-28	"	6.5	2.9	1.03	3.35	2.98		.6		7		"	"
56	8-5	Bollinger	5.0	1.8	.87	3.33	1.61		.6		8		1/6	271 650

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 124

Discharge measurements of Los Angeles River

at Vineland Avenue Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.	Total	Hours	
57	8-12	Bollinger	8.0	2.33	.71	3.34	1.65		.6		9		1/6	271 650
58	8-19	"	6.3	2.05	.79	3.26	1.62		.6		7		"	"
59	8-26	"	6.5	1.59	.88	3.28	1.41		.6		8		"	"
60	9-2	"	18.4	15.53	1.52	4.11	23.70		.6		12		1/3	"
61	9-8	"	23.7	19.63	1.34	4.05	26.19		.6		13		"	"
62	9-16	"	22.5	16.91	1.58	4.01	26.88		.6		14		1/6	"
63	9-23	"	22.8	14.70	1.38	3.98	20.35		.6		14		1/3	"
64	9-30	"	22.0	13.70	1.76	4.01	24.10		.6		15		1/3	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 124

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LOS ANGELES RIVER

At VINELAND AVENUE BRIDGE for the Year Ending September 30, 1932

Drainage Area 400± Square Miles. [C. E. Bollinger Observer.]

Gage Read Continuous

Used rating table dated Oct. 1, 1931 to June 1, 1932

Maximum stage 7.13 feet at 4 PM on Feb. 8th Discharge 1633 second-feet

Minimum stage 3.06 feet at all day on Nov. 30 & Dec. 1st Discharge 0.6 second-feet

Discharge curve and rating table used with G.H. corrections

\+ Interpolated values

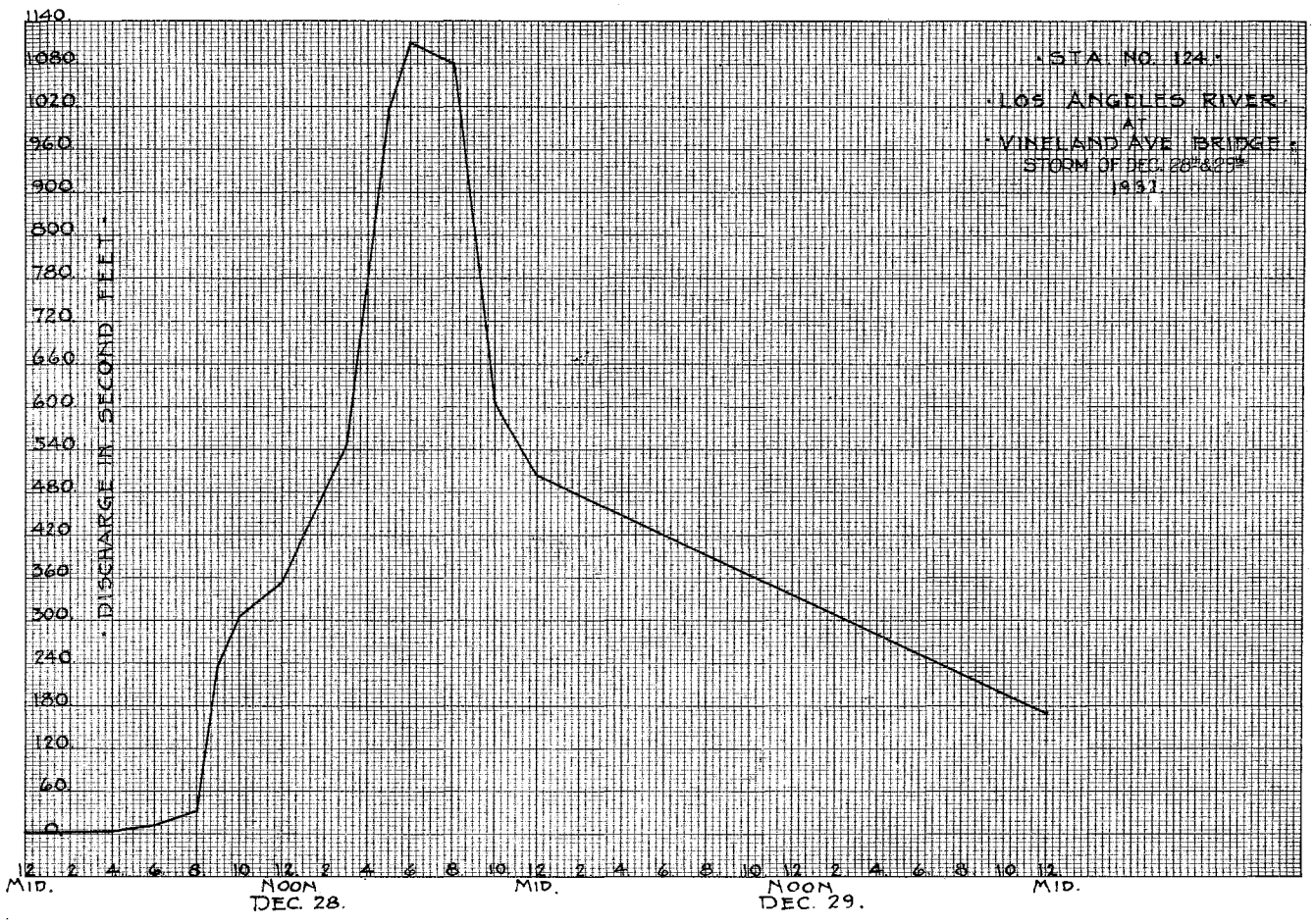
DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1		+ 6.6	3.14	1.4	3.06	0.6	3.28	4.4	H	203.3	3.35	6.6
2		+ 1.5	3.14	1.4	3.10	1.0	H	35.8	H	73.7	3.32	5.6
3		+ 1.5	3.14	1.4	3.15	1.5	3.39	8.2	3.91	37.9	3.30	5.0
4		+ 1.5	3.15	1.5	3.16	1.6	3.31	5.3	3.81	30.9	3.26	3.8
5		+ 1.5	3.20	2.4	3.16	1.6	+3.28	4.4	3.44	10.2	3.29	4.7
6		+ 1.5	3.14	1.4	3.16	1.6	+3.25	3.5	3.39	8.2	3.30	5.0
7	3.15	1.5	3.13	1.3	3.17	1.7	H	11.0	3.46	11.0	3.30	5.0
8	3.13	1.3	3.13	1.3	H	13.5	3.85	33.7	H	749.0	3.32	5.6
9	3.14	1.4	3.13	1.3	H	19.7	3.76	27.6	H	998.5	3.30	5.0
10	3.15	1.5	3.14	1.4	3.24	3.2	3.63	19.8	H	164.6	3.32	5.6
11	3.16	1.6	3.15	1.5	3.21	2.6	3.64	20.4	4.26	68.8	3.30	5.0
12	3.14	1.4	3.15	1.5	3.19	2.2	3.65	21.0	4.07	49.8	3.28	4.4
13	3.15	1.5	3.16	1.6	3.19	2.2	3.66	21.6	+4.04	47.4	3.27	4.1
14	3.13	1.3	3.16	1.6	H	109.1	3.68	22.8	+4.00	44.2	3.29	4.7
15	3.14	1.4	H	21.6	H	8.8	3.80	30.2	+3.95	40.7	3.27	4.1
16	3.12	1.2	H	3.4	3.36	7.0	3.72	25.2	H	167.0	3.27	4.1
17	3.16	1.6	3.14	1.4	H	21.8	3.71	24.6	H	164.5	3.24	3.2
18	3.15	1.5	3.16	1.6	3.21	2.6	3.73	25.8	4.05	48.2	3.28	4.4
19	3.15	1.5	3.16	1.6	3.20	2.4	3.75	27.0	3.78	28.8	3.28	4.4
20	3.14	1.4	3.16	1.6	3.21	2.6	H	26.9	3.77	28.2	3.28	4.4
21	3.14	1.4	3.16	1.6	H	43.8	H	17.1	3.76	27.6	3.29	4.7
22	3.14	1.4	3.17	1.8	3.40	8.6	3.26	3.8	3.75	27.0	3.29	4.7
23	3.14	1.4	3.16	1.6	3.27	4.1	3.19	2.2	3.74	26.4	3.27	4.1
24	3.14	1.4	3.17	1.8	3.23	3.0	3.19	2.2	3.63	19.8	3.28	4.4
25	3.14	1.4	3.17	1.8	H	298.0	3.19	2.2	3.62	19.2	3.27	4.1
26	3.13	1.3	3.17	1.8	H	38.6	3.18	2.0	3.77	28.2	3.26	3.8
27	3.13	1.3	H	33.6	3.42	9.4	3.18	2.0	3.66	21.6	3.26	3.8
28	3.15	1.5	3.28	4.4	H	418.0	3.18	2.0	3.53	14.5	3.25	3.5
29	3.14	1.4	3.09	0.9	4.73	141.5	3.18	2.0	3.37	7.4	3.26	3.8
30	3.14	1.4	3.06	0.6	3.45	10.6	3.18	2.0	-	-	3.27	4.1
31	3.14	1.4	-	-	3.27	4.1	H	95.4	-	-	3.27	4.1
TOTAL,		49.5		102.1		1187.00		532.1		3166.6		139.8
Mean Daily Discharge in Second-feet		1.60		3.40		38.30		17.16		109.19		4.51
Second-feet per square mile		.0040		.0085		.0956		.0429		.2730		.0113
Run-off, depth in inches		.00461		.00954		.1104		.0493		.2960		.0131
Run-off in acre-feet		98.2		202.5		2354.4		1055.4		6281.0		277.3
Maximum Mean Daily Discharge in Second-feet		+ 6.6		33.6		418.0		95.4		998.5		6.6
Minimum Mean Daily Discharge in Second-feet		1.2		0.6		0.6		2.0		7.4		3.5

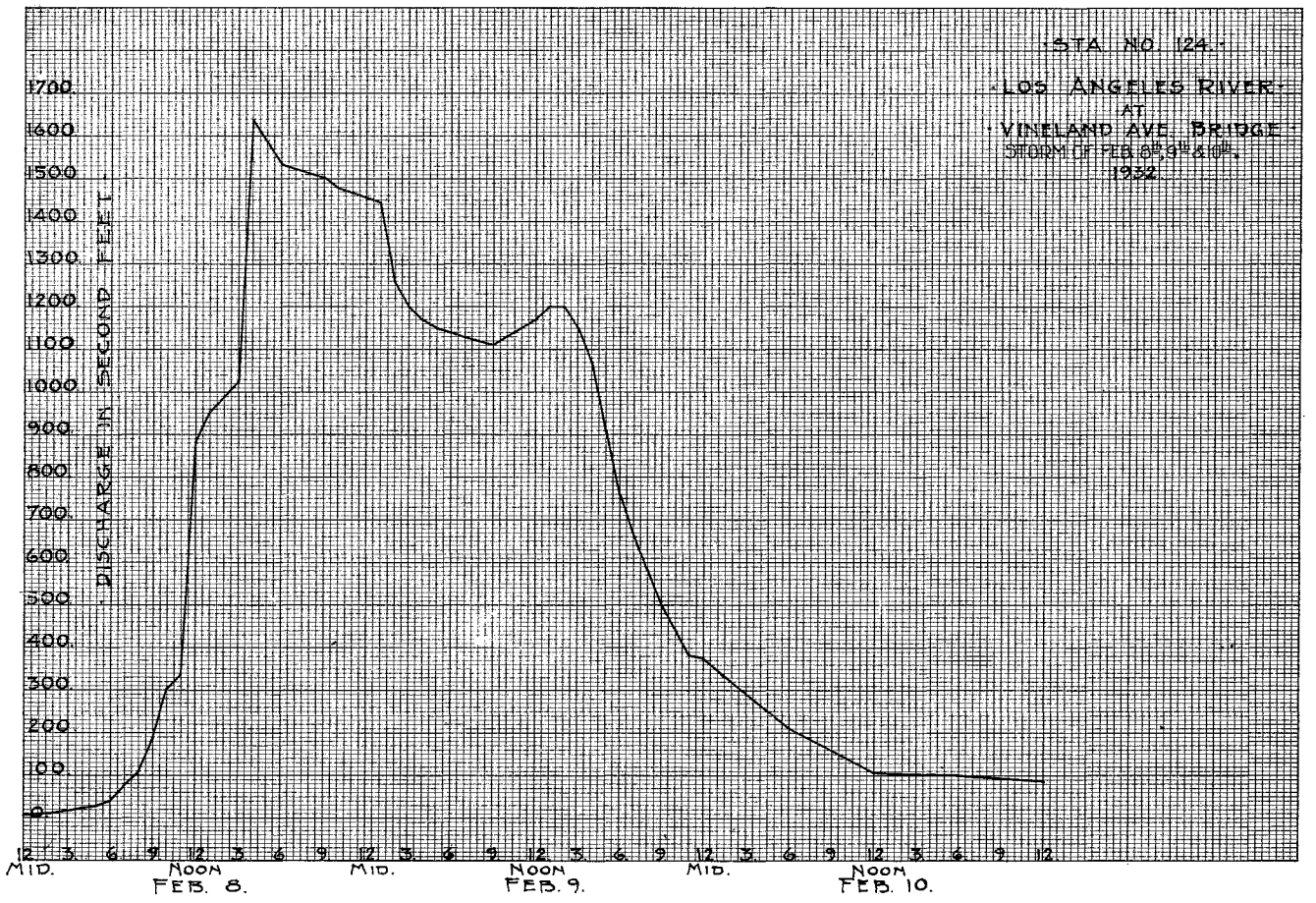
DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1	3.27	4.1	3.23	3.0	3.23	3.00	3.13	1.30	3.19	2.20	3.75	27.0	
2	3.27	4.1	3.24	3.2	3.24	3.20	3.16	1.60	3.20	2.40	3.70	24.0	
3	3.27	4.1	3.25	3.5	3.20	2.40	3.17	1.80	3.17	1.80	3.74	26.4	
4	3.27	4.1	3.25	3.5	3.19	2.20	3.17	1.80	3.15	1.50	3.74	26.4	
5	3.27	4.1	3.25	3.5	3.17	1.80	3.17	1.80	3.13	1.30	3.73	25.8	
6	3.28	4.4	3.25	3.5	3.14	1.40	3.17	1.80	3.13	1.30	3.74	26.4	
7	3.27	4.1	3.25	3.5	3.11	1.10	3.17	1.80	3.16	1.60	3.73	25.8	
8	3.27	4.1	3.25	3.5	3.09	.90	3.18	2.00	3.18	2.00	3.74	26.4	
9	3.27	4.1	3.26	3.8	3.07	.70	3.19	2.20	3.15	1.50	3.74	26.4	
10	3.24	3.2	3.24	3.2	3.08	.80	3.19	2.20	3.13	1.30	3.73	25.8	
11	3.24	3.2	3.25	3.5	3.09	.90	3.19	2.20	3.12	1.20	3.72	25.2	
12	3.25	3.5	3.25	3.5	3.10	1.00	3.21	2.60	3.12	1.20	3.71	24.6	
13	3.24	3.2	3.25	3.5	3.11	1.10	3.16	1.60	3.14	1.40	3.72	25.2	
14	3.25	3.5	3.24	3.2	3.13	1.30	3.18	2.00	3.13	1.30	3.72	25.2	
15	3.26	3.8	3.24	3.2	3.16	1.60	3.20	2.40	3.15	1.50	3.74	26.4	
16	3.24	3.2	3.21	2.6	3.18	2.00	3.18	2.00	3.17	1.80	3.75	27.0	
17	3.26	3.8	3.22	2.8	3.19	2.20	3.20	2.40	3.16	1.60	3.73	25.8	
18	3.24	3.2	3.21	2.6	3.19	2.20	3.19	2.20	3.20	2.40	3.72	25.2	
19	3.24	3.2	3.22	2.8	3.12	1.20	3.18	2.00	3.20	2.40	3.71	24.6	
20	3.25	3.5	3.20	2.4	3.11	1.10	3.22	2.80	3.14	1.40	3.83	32.3	
21	3.25	3.5	3.22	2.8	3.11	1.10	3.18	2.00	3.14	1.40	3.73	25.8	
22	3.26	3.8	3.22	2.8	3.12	1.20	3.15	1.50	3.14	1.40	3.77	28.2	
23	3.25	3.5	3.26	3.8	3.13	1.30	3.17	1.80	3.14	1.40	3.71	24.6	
24	3.22	2.8	3.27	4.1	3.12	1.20	3.19	2.20	3.12	1.20	3.73	25.8	
25	3.24	3.2	3.26	3.8	3.14	1.40	3.22	2.80	3.11	1.10	3.75	27.0	
26	3.29	4.7	3.23	3.0	3.15	1.50	3.18	2.00	3.11	1.10	3.78	28.8	
27	3.24	3.2	3.22	2.8	3.15	1.50	3.22	2.80	3.27	4.10	3.75	27.0	
28	3.24	3.2	3.23	3.0	3.13	1.30	3.21	2.60	3.89	36.50	3.77	28.2	
29	3.25	3.5	3.22	2.8	3.14	1.40	3.21	2.60	3.89	36.50	3.75	27.0	
30	3.25	3.5	3.21	2.6	3.12	1.20	3.19	2.20	3.82	31.60	3.79	29.5	
31	-	-	3.23	3.0	-	-	3.18	2.00	3.78	28.8	-		
TOTAL,		109.4		98.8		45.80		65.00		178.20		793.8	
Mean Daily Discharge in Second-feet		3.65		3.2		1.51		2.10		5.75		26.46	
Second-feet per square mile		.0091		.008		.004		.0052		.0144		.0661	
Run-off, depth in inches		.0102		.0092		.004		.006		.013		.071	
Run-off in acre-feet		217.0		196.0		89.7		128.93		353.5		1574.5	12,828.43
Maximum Mean Daily Discharge in Second-feet		4.7		4.1		3.20		2.80		36.50		32.3	
Minimum Mean Daily Discharge in Second-feet		2.8		2.4		.70		1.30		1.10		24.0	

Quarter	G. H. copied	Computed	Checked	Date
First	CEB	CEB	J.S.L.	1/23/33
Second	CES	CES		
Third	CEB	CEB		
Fourth	CEB	CEB		

Quarter	Disch. applied	Disch. checked	Date
First	CES		5/26/32
Second	CES		
Third			
Fourth			

Quarter	G. H. copied	G. H. checked	Date
First	CEB		5/26/32
Second	CEB		
Third			
Fourth			


STA. NO. 124.
LOS ANGELES RIVER.
AT
VINELAND AVE. BRIDGE.
STORM OF DEC. 28th & 29th
1931
DISCHARGE IN SECOND FEET.
1140
1080
1020
960
900
840
780
720
660
600
540
480
420
360
300
240
180
120
60
0
12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
MID.
NOON
DEC. 28.
MID.
NOON
DEC. 29.
MID.


STA. NO. 124.
LOS ANGELES RIVER.
AT
VINELAND AVE. BRIDGE.
STORM OF FEB. 8th, 9th & 10th,
1932
DISCHARGE IN SECOND FEET.
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12
MID.
NOON
FEB. 8.
MID.
NOON
FEB. 9.
MID.
NOON
FEB. 10.

F-57 R

LOS ANGELES RIVER AT FIGUEROA STREET (DAYTON AVENUE) BRIDGE

Location
On west abutment of Figueroa Street (Formerly Dayton Avenue) Bridge across Los Angeles River at Los Angeles, California.

Drainage Area
510 square miles.

Installed by
Los Angeles County Flood Control District, December 1929.

Records Available
December 1929 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Au continuous water stage recorder in shelter house on top of corrugated iron pipe stilling well fastened to west abutment of bridge. Staff gage on stilling well.

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

Channel and Control
Sand and silt. No control.

Extremes of Discharge
1929-1930 -
Maximum-500 c.f.s. on March 15, 1930.
Minimum-Dry at various times of year
1930-1931
Maximum-4535 c.f.s. on February 4, 1931
Minimum-Dry at various times of year
1931-1932
Maximum-3023 c.f.s. on February 8, 1932
Minimum-Dry at various times during year.

Diversions
Underflow diverted by L.A.W.D. near Griffith Park.

F. C. Dist. Form 104 HM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C. 57

Discharge measurements of Los Angeles River, At Figueroa Street Bridge
Formerly
at Dayton Avenue Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271
1	10/31	Bollinger	1.0	0.13	.31	0.87	0.04		.6		2	0	1/12	650
2	11/15	Bollinger &Rupert	28.3	10.6	1.21	1.82	12.84		.6		17	.12	1/3	"
4	27	" & Bergman	83.0	86.7	2.45	3.00	212.3		.6		14	.05	1/2	"
5	27	" "	60.0	73.1	2.56	2.68	186.9		.6		15		1/2	"
6	27	" "	42.5	38.2	2.59	2.46	98.78		.6		13	.12	1/4	"
7	12/8	" & Witt	3.4	2.49	.51	1.33	1.27		.6		7	0	1/4	"
8	8	" "	4.5	3.38	1.64	1.53	5.53		.6		7	.11	1/6	"
9	8	" "	40.0	35.9	2.68	2.53	96.38		.6		13	.30	1/3	"
10	8	" "	40.0	44.0	2.60	2.75	114.6		.6		11	.10	1/4	"
11	8	" "	85.0	71.6	2.42	2.84	173.8		.6		16	.33	1/4	"
12	11	" & Cron	16.4	5.80	1.48	1.38	8.57		.6		9	.09	1/6	"
13	14	" "	5.0	3.60	1.08	1.05	3.89		.6		6	.12	1/6	"
14	14	" "	6.0	4.09	1.01	1.10	4.14		.6		7	0	1/6	"
15	14	" "	24.9	20.3	2.09	1.85	42.8		.6		13	.06	1/4	"
16	14	" "	29.2	18.1	2.25	1.87	40.9		.6		15	.10	1/3	"
17	21	" "	23.0	25.9	2.09	1.97	54.3		.6		12	.17	1/3	"
18	21	" "	20.0	24.8	1.75	1.82	42.4		.6		12	.11	1/4	"
19	21	" "	27.5	21.1	1.81	1.84	38.2		.6		15	.07	1/3	"
20	21	" "	28.0	20.6	1.82	1.82	37.5		.6		14	.06	1/3	"
21	25	" & Moore	74.0	74.0	4.67	2.88	347.0		.6		12	.36	1/3	"
22	25	" & Witt	79.0	63.0	4.11	2.66	259.0		.6		11	.05	1/3	"
23	25	" & Moore	79.0	63.2	3.04	2.62	191.7		.6		14	.02	1/3	"
24	25	" "	85.0	97.5	4.18	3.28	408.0		.6		17	.04	1/3	"
25	28	" & Bergman	79.0	83.3	3.65	3.15	304.4		.6		17	.10	1/2	"
26	28	" & Cron	32.5	19.0	2.88	2.36	54.7		.6		11	.01	1/6	"
27	28	" "	43.0	25.5	3.15	2.41	77.19		.6		16	.13	1/4	"
28	28	" "	91.0	98.0	3.94	3.62	386.0		.6		15	1.16	1/4	"

F-57 R

Regulation
No regulation of valley runoff. Los Angeles County Flood Control Dams on tributaries regulate Mountain runoff.

Accuracy
Fair

Operation
Located and constructed by the Los Angeles County Flood Control District and operated by Los Angeles County Flood Control District in conjunction with the U.S.G.S. Water Resources Branch and City of Los Angeles Water Department.

F. C. Dist. Form 104 HM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C. 57

Discharge measurements of Los Angeles River, At Figueroa Street Bridge
Formerly
at Dayton Avenue Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271
29	12/28	Bollinger & Cron	95.	239.	4.20	4.87	1125.		.6		18	.	1-½	650
	1932													
30	1/15	Bollinger &Moore	46.	29.4	3.16		93.0		.6		17		1/3	"
31	27	Bollinger	2.5	0.46	.35	1.28	.39				5		1/6	Float
32	29	"				1.30	.24							Pipe
33	31	" "	55.	86.9	3.98	3.28	346.0		.6		10	.15	1/2	271 650
34	31	" "	93.	166.	5.63	4.35	947.0		.6		17	.03	5/10	"
35	31	" "	92.	167.	5.64	4.48	942.0		.6		19	.31	"	"
36	31	" "	95.	173.	5.33	4.73	937.0		.6		17	.10	2/3	"
37	2/1	" "	90.	89.2	5.14	3.58	457.0		.6		17	.15	1/2	"
38	1	" "	85.	80.0	5.10	3.48	409.0		.6		17	.04	1/2	"
39	1	" "	85.	75.0	3.41	3.24	256.0		.6		16	.07	1/4	"
40	1	" "	50.	34.5	3.84	2.52	132.5		.6		17	.03	1/3	"
41	2	" "	40.	15.0	2.13	2.00	32.4		.6		14	0	1/4	"
42	8	" "	56.	39.6	3.68	2.66	146.0		.6		13	.02	1/2	"
43	8	" "	85.	97.0	4.45	3.61	430.0		.6		17	.39	1/2	"
44	8	" "	88.	109	5.26	4.09	573.0		.6		19	.38	2/3	"
45	8	" "	92.	173.	5.94	4.66	1029.		.6		18	.30	5/10	"
46	8	" "	102.	211.	5.82	5.23	1227.		.6		20	.55	1½	"
47	8	" "	105	342.	7.91	7.20	2712.		.6		14	.0	2½	"
48	9	" "	130	343	8.53	6.30	2926.		.6		16	0	1½	"
49	11	" "	66.	35.4	3.59	2.94	127.1		.6		27	.02	1/2	"
50	16	" "	135	129.	5.00	3.61	644.0		.6		23	.10	3/4	"
51	16	" "	121	91.0	4.65	3.39	423.0		.6		17	.03	1/2	"
52	17	" "	60.	39.0	4.27	2.94	165.9		.6		22	.03	1/3	"
53	18	" "	59.	26.1	2.39	2.76	62.4		.6		25	.04	1/2	"
54	19	" "	23.	5.52	1.31	2.61	7.25		.6		10	0	1/6	"
55	3/11	Bollinger & Moore	2.5	0.53	.74	2.40	0.39		.6		5	0	1/6	650
58	4/29	"	2.6	.41	.95	2.4	.39				5	0	1/12	Float
59	5/6	"	2.3	.42	.74	2.34	.31				5	0	1/6	"
60	13	"	3.7	.51	.86	2.35	.44				7	0	"	"
61	21	"	3.1	.43	1.0	.35	.43				7	0	"	"
62	27	"	3.2	.49	.98	2.35	.48				7	0	"	"
64	6/3	"	13.8	2.04	.87	2.39	1.76		.6		10	.0	1/4	271
63	3	"	3.5	.49		2.38	.31				6	0	1/12	Float
65	10	"	2.7	.22	1.09	2.34	.24				5	0	1/6	"
66	16	"	2.3	.26	.69	2.30	.18				0	0	1/12	"
67	23	"	2.1	.17	.59	2.29	.10				5	0	1/12	"
68	30	"	2.6	.22	.64	2.31	.14				5	0	1/12	"
69	7/7	"	2.7	.21	.52	2.29	.11				5	0	1/12	"
70	14	"	2.4	.19	.58	2.28	.11				5	0	1/6	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 57

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LOS ANGELES RIVER At Figueroa Street Bridge, Formerly At DAYTON AVENUE BRIDGE for the Year Ending September 30, 1932

Drainage Area 510.24 Square Miles. [C. E. BOLLINGER Observer.] Gage Read CONTINUOUS Used rating table dated 10-1-32 to 2-18-32, 2-18-32 T 9-30-32

Maximum stage 6.75 feet at 9:30 PM on Feb. 8, 1932 Discharge 3023 second-feet.
Minimum stage Dry feet at at various times during year Discharge second-feet.
Adjustment Curve used on gage heights

DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1				0.01		.06	+	0.30	H	295.5	2.33	.22
2				0.01		.07	1.72	26.60	H	61.68	2.35	.28
3			+	.01	+	.06	+	0.15	Est.	.25	2.35	.28
4				.01		.05	+	0.25	+	.13	2.35	.28
5				.01		.05	+	0.50	Est.	.01	2.35	.28
6				.01	+	.05	+	.75	+	.01	2.35	.28
7				.01		.05	+	1.00	+	.01	2.34	.24
8			+	.01	H	29.57	+	1.25	H	1218.9	2.35	.28
9				.01	1.18	1.47	+	1.50	H	2517.1	2.35	.28
10			Dry	.00	Dry	.00	+	0.10	3.76	627.2	2.37	.35
11			Dry	.00	H	3.57	+	.05	2.37	124.6	2.37	.35
12				.00	+	.05	+	.05	2.40	130.0	2.36	.32
13				.00	+	.05	+	.05	2.40	130.0	2.35	.28
14		DRY	Dry	.00	H	34.78	+	.05	2.70	196.0	2.34	.24
15			H	30.83	1.22	2.23	H	16.78	2.75	210.0	2.34	.24
16			+	.01	+	.08	+	0.10	H	456.8	2.33	.22
17				.01		.08	+	.08	H	267.2	2.32	.19
18			+	.02	+	.08	+	.08	2.06	71.4	2.31	.17
19				.02	+	.08	+	.03	2.44	.64	2.34	.24
20				.02	+	.08	+	.01	2.60	7.25	2.34	.24
21				.02	H	11.36	+	.01	2.60	7.25	2.33	.22
22				.02	+	.02	+	.01	2.50	.90	2.32	.19
23			+	.02		.02	+	.02	2.50	.90	2.38	.39
24	+	.03		.02		.02	+	.02	2.52	2.27	2.35	.28
25	+	.04		.02	H	210.6	+	.02	2.35	.28	2.36	.32
26	+	.04		.02	H	20.10	+	.02	2.50	.90	2.36	.32
27	+	.04	H	52.00	1.08	.24	+	.39	2.45	.68	2.35	.28
28	+	.03	+	.05	H	477.5	+	.31	2.40	.47	2.35	.28
29	+	.03	+	.08	H	188.6	+	.24	2.45	.68	2.35	.28
30	+	.04	+	.10	+	0.30	+	.24	–	–	2.34	.24
31	+	.03	–	–	+	0.30	H	205.6	–	–	2.31	.17
TOTAL		.28		83.35		981.57		256.56		6329.11		8.23
Mean Daily Discharge in Second-feet		.01				31.66		8.28		217.93		.265
Second-feet per square mile		.000020		.00494		.06205		.016		.426		.00052
Run-off, depth in inches												
Run-off in acre-feet		0.56		165.28		1946.45		508.76		12,550.62		16.32
Maximum Mean Daily Discharge in Second-feet		.04		52.00		477.50		205.6		2517.1		.39
Minimum Mean Daily Discharge in Second-feet		0		0		0		.01		.01		.17

DAY	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	DAY
1	2.31	.17	2.41+	.51	2.34	.24	2.29	.12	2.19				1
2	2.33	.22	2.40+	.47	2.35	.28	2.28	.09	2.16				2
3	2.35	.28	2.38+	.39	2.35	.28	2.27	.07	2.16				3
4	2.34	.24	2.37+	.35	2.33	.22	2.28	.09	2.23				4
5	2.35	.28	2.35	.28	2.33	.22	2.28	.09	2.19				5
6	2.34	.24	2.34	.24	2.33	.22	2.27	.07	2.20				6
7	2.30	.14	2.35	.28	2.34	.24	2.29	.12	2.25				7
8	2.33	.22	2.33	.22	2.33	.22	2.28	.09	2.21				8
9	2.34	.24	2.33	.22	2.33	.22	2.28	.09	Dry				9
10	2.32	.19	2.30	.14	2.35	.28	2.29	.12	2.27				10
11	2.31	.17	2.30	.14	2.33	.22	2.28	.09	2.26				11
12	2.31	.17	2.30	.14	2.32	.19	2.28	.09	2.21				12
13	2.30	.14	2.35	.28	2.32	.19	2.25	.01	Dry				13
14	2.30	.14	2.35	.28	2.32	.19	2.25	.01					14
15	2.30	.14	2.35	.28	2.30	.14	2.25	.01					15
16	2.39	.43	2.35	.28	2.30	.14	2.22	Dry					16
17	2.39	.43	2.35	.28	2.30	.14	2.21	"					17
18	2.38	.39	2.35	.28	2.30	.14	2.21	"					18
19	2.37	.35	2.35	.28	2.30	.14	2.21	"					19
20	2.35	.28	2.35	.28	2.30	.14	2.20	"					20
21	2.39	.43	2.38	.39	2.28	.09	2.21	"					21
22	2.39	.43	2.40	.47	2.28	.09	2.21	"					22
23	2.34	.24	2.40	.47	2.30	.14	2.20	"					23
24	2.31	.17	2.46	.73	2.28	.09	2.20	"	DRY	DRY	DRY	DRY	24
25	2.34	.24	2.35	.28	2.30	.14	2.20	"					25
26	2.45	.68	2.35	.28	2.27	.07	2.21	"					26
27	2.37	.35	2.37	.35	2.30	.14	2.21	"					27
28	2.35	.28	2.33	.22	2.28	.09	2.19	"					28
29	2.44	.64	2.35	.28	2.23	.03	2.20	"					29
30	2.43	.60	2.35	.28	2.22	0	2.22	"					30
31			2.33	.22			2.17	"					31
TOTAL		8.92		9.59		4.93		1.16		0		0	
Mean Daily Discharge in Second-feet		.297		.309		.163		.0374					
Second-feet per square mile		.00058		.00061		.00032		.000073					
Run-off, depth in inches													
Run-off in acre-feet		17.69		19.02		9.78		2.30		0		0	15236.78
Maximum Mean Daily Discharge in Second-feet		.68		.73		.28		.12		–			
Minimum Mean Daily Discharge in Second-feet		.14		.14		Dry		Dry					

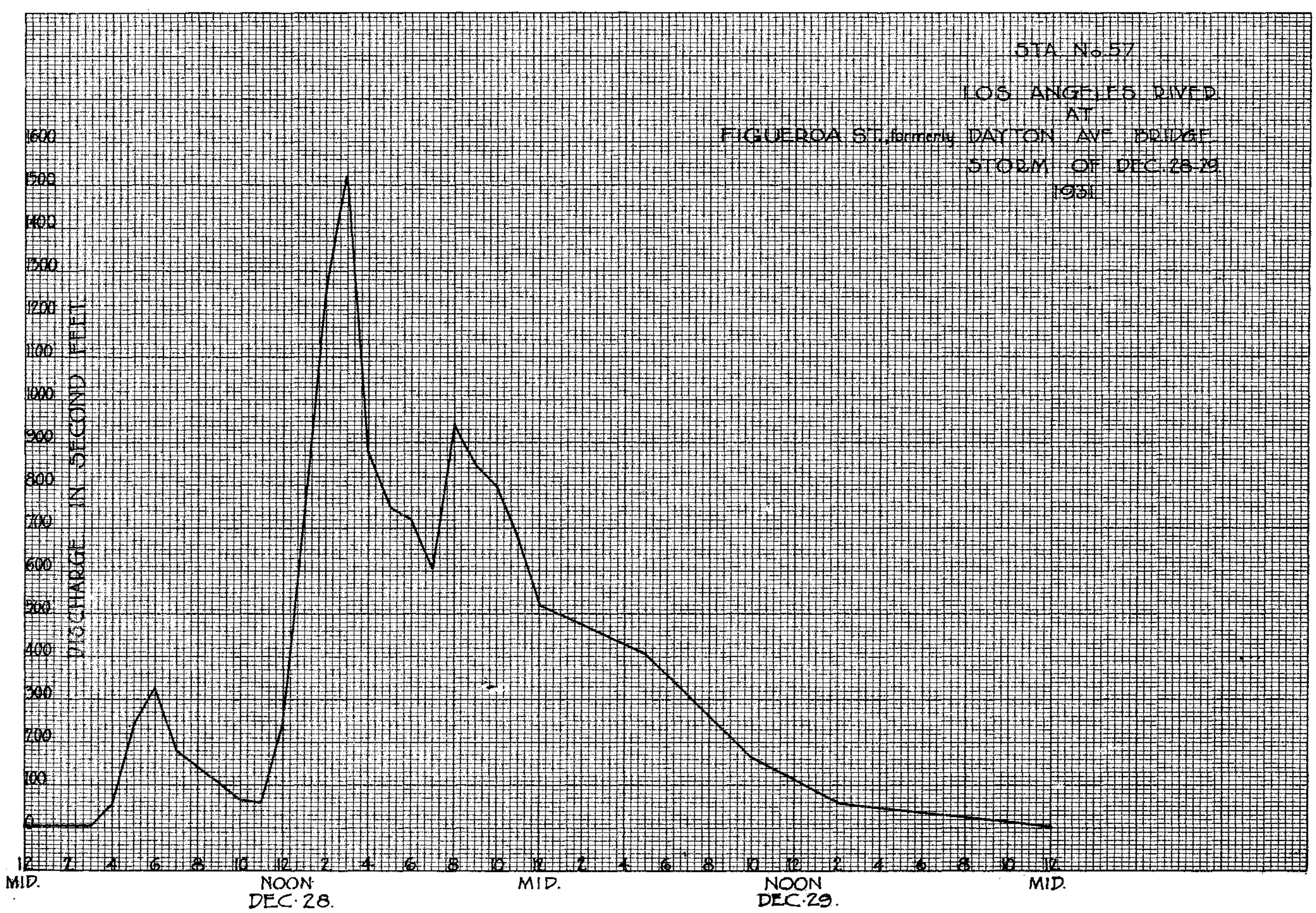
Quarter	Computed	Checked	Date
First	CES	RHL	4/32

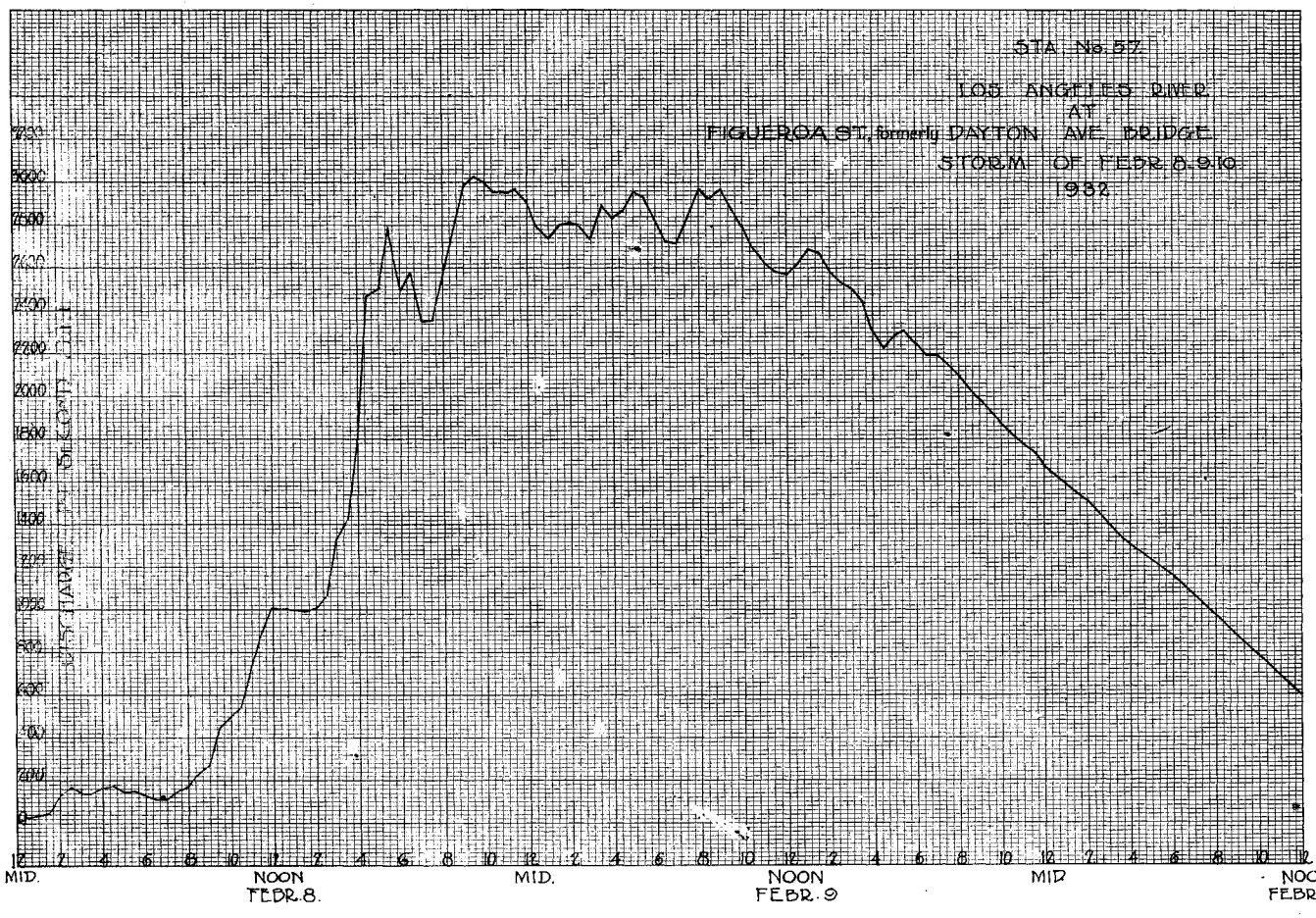
Quarter	Disch. applied	Disch. checked	Date
First		RHL	4/32

Quarter	G. H. copied	G. H. checked	Date
First		RHL	4/32

PERIOD YEAR

+ Interpolative Values Used, as Recorder was unreliable, owing to construction work in progress in channel near gage. Est = Estimated.





F-34 R

LOS ANGELES RIVER AT STEWART AND GRAY ROAD BRIDGE

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

Drainage Area
614 square miles

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

Re-established by
Los Angeles County Flood Control District March 1, 1928.

Records Available
For records previous to March 1, 1928 see Bulletin #5, State of California Division of Water Rights, San Gabriel Investigation. Recorder records from March 1, 1928 to September 30, 1932 at Los Angeles County Flood Control District, Los Angeles, California.

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

Discharge Measurements
High water measurements made 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
1927-1928
Maximum-1115 c.f.s. February 4, 1928
Minimum-Dry at various times of year
1928-1929
Maximum-2007 c.f.s. November 14, 1928
Minimum-Dry at various timee during year.
1929-1930
Maximum-2213. c.f.s. March 15, 1930
Minimum-Dry at various times during year
1930-1931
(Cont'd.)

1930-1931
Maximum-4361 c.f.s. February 4, 1931
Minimum-1.29 c.f.s. September 3, and 4, 1931
1931-1932
Maximum-4784 c.f.s. Feb. 8, 1932
Minimum-Dry at various times during year.

Diversions
None.

Regulation
None.

Accuracy
Fair

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

Discharge measurements of LOS ANGELES RIVER

at STEWART & GRAY ROAD BRIDGE, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage rating	Method	Coef.	Meas. accu.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10/2	D. L. Seal	7.0	2.0	1.11	4.48	2.23		.6		7		1/3	F.C. 282 23 962
2	9	"	7.0	1.72	1.07	4.52	1.84		.6		7		2/5	"
3	16	"	7.9	1.99	1.03	4.52	2.05		.6		8		1/6	"
4	23	"	14.	3.78	0.99	4.55	3.76		.6		8	.01	"	"
5	30	"	8.6	2.41	1.09	4.50	2.64		.6		8		"	"
6	11/6	"	9.0	2.70	1.24	4.57	3.36		.6		9		1/5	"
7	13	"	15.	3.11	1.07	4.44	3.32		.6		7		1/12	"
8	20	"	10.9	2.56	0.91	4.11	2.33		.6		10		"	"
9	27	"	2 channels			5.88	804.		.6		21	.04	5/6	F.C. 1271 640
10	12/4	"	25.	5.42	0.62	4.29	3.35		.6		7		1/6	"
11	12/8	"	139.	135.	4.21	5.56+	571.		.6		11	.05	1/3	"
12	11	"	106	88.6	2.99	5.05	264.		.6		11		1/5	"
13	11	"	71.	27.2	1.29	4.38	35.1		.6		11		1/5	"
14	14	"	107.	71.6	3.09	4.86	221.		.6		10	.08	1/3	"
15	15	"	73.	24.7	1.08	4.35	26.81		.6		11	.02	2/5	"
16	18	"	20.	4.86	0.62	4.04	3.04		.6		9		1/6	"
17	21	"	111.	89.8	3.75	5.03	336.		.6		12	.02	"	"
18	23	"	11.	3.11	0.65	4.06	2.66		.6		10		1/5	"
19	28	"	2 Channels			6.65	2471		.6		20	.40	5/6	"
20	28	"	280	495	6.56	7.47	3251		.6		17	.05	2/3	"

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 34

Discharge measurements of LOS ANGELES RIVER

at Stewart and Gray Road Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	F.C.
21	1/2	"	25.4	8.82	1.69	4.52	14.9		.6		11		1/4	"
22	8	Seal - Cooper	31.5	8.42	0.96	4.62	8.05		.6		14		"	"
23	13	" "	54.5	19.5	1.95	4.62	38.1		.6		12	.03	"	"
24	15	" "	159.	108.	3.30	5.08	358.		.6		22		1/3	"
25	22	T. A. Cooper	10.5	3.83	1.20	4.29	4.48		.6		11		1/5	F.C. 23
26	29	"	11.0	4.13	1.10	4.35	4.57		.6		11	.01	1/5	" 282 582
27	1/31	Seal - Cooper	224.0	282.	5.36	6.17	1515.		.6		16	.05	1	12
28	31	" "	285.	594.	6.42	7.77	3819.		.6		18	.15	3/4	"
29	2/2	Seal - Cooper	83.0	40.8	2.21	4.97	90.2		.6		16	.02	1/4	"
30	2/6	T.A. Cooper	15.3	5.16	1.19	4.55	6.15		.6		11		2/5	F.C. 23
31	2/9	Seal - Slaughter	273.	433.	6.68	7.47	2900.		.6		25	.05	5/6	F 12
32	10	" "	203.	131.	3.27	6.06	430.		.6		16	.08	1/2	"
33	11	" "	2 channels			5.27	149.		.6		23	.02	1/2	"
34	12	" "	59.0	31.5	3.10	5.23	97.8		.6		17	.01	1/3	"
35	16	Seal - Cooper	199.	194.	4.60	6.28	892.1		.6		23	.14	3/5	"
36	18	T. A. Cooper	44.5	23.1	2.88	4.53	66.6		.6		15		1/4	"
37	19	"	28.5	9.12	1.66	4.23	15.15		.6		11		2/5	F.C. 23
38	26	"	13.5	5.71	1.24	4.28	7.09		.6		11		1/5	"
39	3/4	"	40.0	15.7	1.99	4.54	31.27		.6		12	.04	1/2	F.C. 12
40	3/9	"	6.3	1.96	.59	4.19	1.16		.6		7		2/5	"
41	11	"	5.6	1.43	.70	4.23	1.0		.6		6	.02	1/3	"
42	25	"	4.0	1.58	.70	4.27	1.1		.6		7		1/3	"
43	4/1	"	5.1	2.00	0.86	4.30	1.73		.6		9		2/5	"
44	4/8	"	4.5	1.29	0.73	4.29	0.94		.6		9			F.C. 23

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No 34

Discharge measurements of LOS ANGELES RIVER

at near STEWART AND GRAY ROAD BRIDGE, during the year ending September 30, 19

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	F.C.
44	4/15	Seal	5.6	1.82	.68	4.26	1.24		.6		8		1/5	#12
45	22	"	6.3	2.49	.71	4.34	1.76		.6		9		1/4	"
46	29	"	5.7	2.33	.80	4.30	1.86		.6		9		"	"
47	5/6	"	5.6	.88	.78	4.23	.69		.6		7	.01	"	"
48	13	Cooper	3.8	1.09	.83	4.24	.91		.6		7		1/3	FC 23
49	20	Hardgrove	Estimated				.43							
50	26	Rupert	14.5	2.42	.46	4.00	1.12		.6		8		1/6	277 647
51	27	Hardgrove	4.00	.91	1.65	4.27	.59		.6		4		1/6	282 891
52	6/10	Rupert	6.5	1.70	.54	NG	.92		.6		7		1/6	271 647
53	17	"	2.9	1.29	.94	-	1.21		.6		6		1/4	"
54	24	"	3.9	1.33	.93	-	1.24		.6		6		1/4	"
55	7/1	"	7.0	2.0	.65	-	1.30		.6		7		"	"
56	8	Hardgrove	4.0	.76	1.10	-	.84		.6		4		1/12	282 891
57	15	"	3.0	.59	1.05	5.12	.62		.6		3		1/8	"
58	22	"	3.0	.60	.87	5.10	.52		.6		3		1/12	"
59	8/5	"	3.0	.96	1.16	5.08	1.11		.6		3		"	"
60	12	"	4.0	1.29	1.15	5.10	1.48		.6		4		"	"
61	19	"	4.0	1.48	2.09	5.03	3.09		.6		4		"	"
62	25	"	3.0	.77	1.52	5.10	1.08		.6		3		"	"
63	9/2	"	4.0	.87	1.02	5.00	.89		.6		4		1/10	"
64	8	"	3.0	.69	1.16	4.95	.80		.6		3		1/12	"
65	15	Jordan	7.0	2.04	.77	4.84	1.57		.6		8		1/4	FC #5
66	22	" & Slaughter	7.0	1.95	.86	4.86	1.68		.6		8		1/6	"
67	29	Slaughter	6.5	2.01	.83	4.81	1.67		.6		5		1/4	FC #6

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of LOS ANGELES RIVER

At Stewart and Grey Road Bridge for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

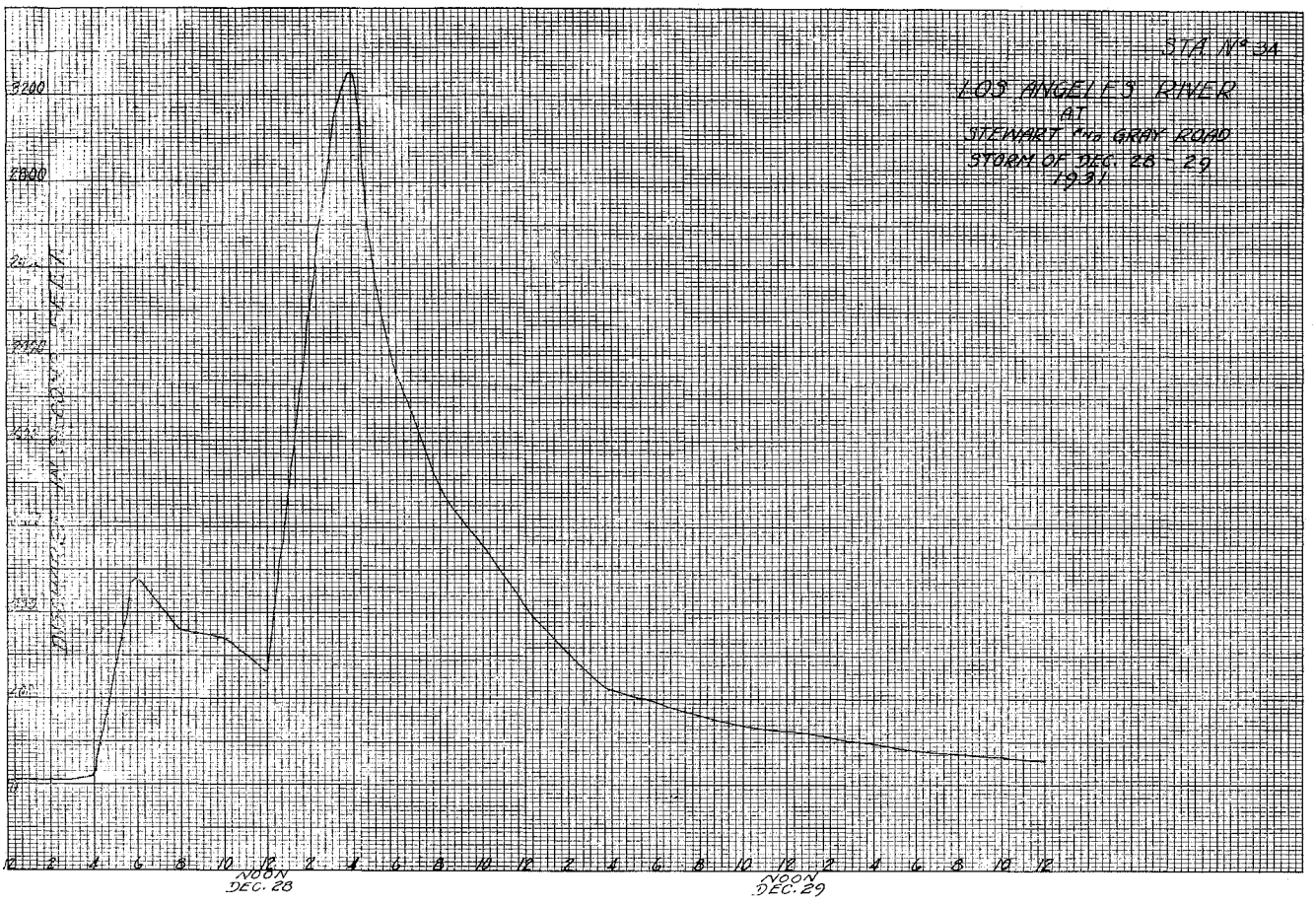
File No. 34

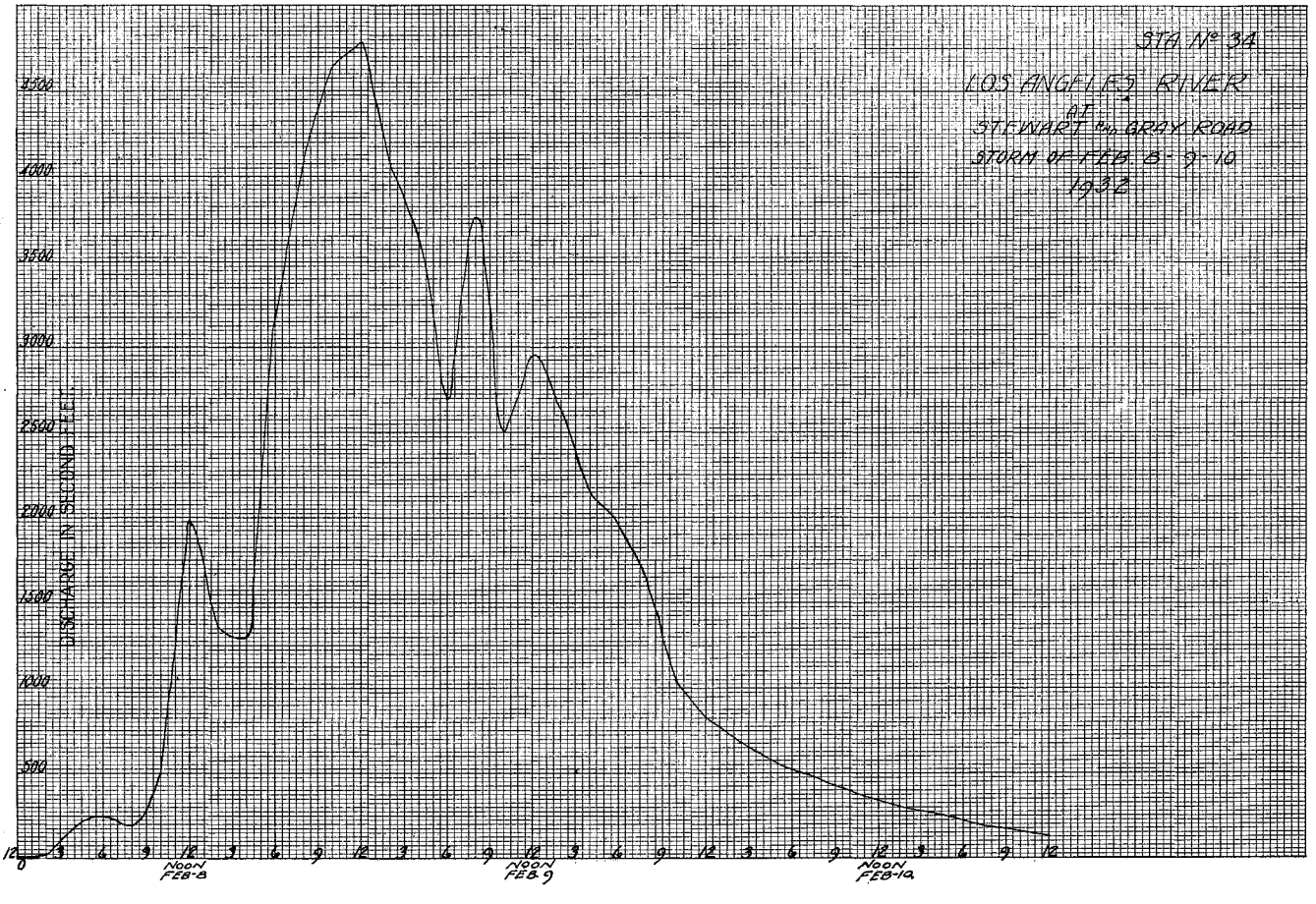
Drainage Area 614. Square Miles. [Seal, Cooper & Slaughter Observer.] Gage Read Continuous Used rating table dated 10-1-31 to 9-30-32

Maximum stage 8:17 feet at Midnight on Feb. 8, 1932 Discharge 4784.0 second-feet.
Minimum stage Dry feet at Various times Discharge 0 second-feet.
Corrections used on Gage Heights. Discharge interpolated between meas. from 2-16-32 to 4-30-32 as the channel shifted and no water reached the recorder

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	4.19	1.9	4.23	2.9	4.34	7.0	4.61	37.0	H	1039.5		7.0	1	Meas.	1.7		1.5		.7	Meas.	1.3		.9		.9	1
2	4.21	2.3	4.21	2.3	4.31	5.5	H	89.4	H	164.8		7.0	2		1.7		1.3		.7		1.3		1.0	Meas.	.9	2
3	4.19	1.9	4.22	2.6	4.24	3.2	4.41	11.0	4.59	33.5		7.0	3		1.6		1.1		.7		1.2		1.0		.9	3
4	4.08	.8	4.23	2.9	4.24	3.2	4.39	9.5	4.42	12.0	Est.	10.0	4		1.6		.9		.8		1.2		1.1		.9	4
5	4.08	.8	4.24	3.2	4.25	3.5	4.38	9.0	4.36	8.0	Est.	5.0	5		1.6		.8		.8		1.1	Meas.	1.1		.9	5
6	4.17	1.7	4.24	3.2	4.22	2.6	4.38	9.0	4.34	7.0		1.2	6		1.5	Meas.	.7		.8		1.0		1.1		.8	6
7	4.16	1.6	4.24	3.2	4.19	1.9	4.37	8.5	4.42	12.0		1.2	7		1.5		.7		.8		.9		1.2		.8	7
8	4.21	2.3	4.26	3.8	H	149.4	4.36	8.0	H	1671.5		1.2	8		1.5		.7		.9	Meas.	.8		1.2	Meas.	.8	8
9	4.21	2.3	4.21	2.3	H	76.4	4.32	6.0	H	2646.8	Meas.	1.2	9		1.4		.8		.9		.8		1.3		.9	9
10	4.16	1.6	4.27	4.1	4.36	8.0	4.30	5.0	H	387.2		1.1	10		1.4		.8	Meas.	.9		.7		1.3		1.0	10
11	4.12	1.2	4.29	4.7	H	63.2	4.32	6.0	5.06	158.0	Meas.	1.0	11		1.4		.8		.9		.7		1.4		1.1	11
12	4.15	1.5	4.24	3.2	4.33	6.5	4.42	12.0	4.87	101.0		1.0	12		1.3		.9		1.0		.7	Meas.	1.5		1.2	12
13	4.17	1.7	4.23	2.9	4.27	4.1	4.53	24.5	4.74	65.0		1.0	13		1.3	Meas.	.9		1.0		.6		1.7		1.3	13
14	4.17	1.7	4.23	2.9	H	158.6	4.37	8.5	5.09	167.0		1.0	14		1.2		.9		1.1		.6		1.9		1.4	14
15	4.20	2.0	H	233.0	4.50	20.0	H	162.6	Est.	110.0		1.0	15	Meas.	1.2		.8		1.1	Meas.	.6		2.1	Meas.	1.6	15
16	4.18	1.8	4.36	8.0	4.27	4.1	4.72	60.0	H	576.0		1.0	16		1.3		.8		1.2		.6		2.3		1.6	16
17	4.21	2.3	4.27	4.1	4.24	3.2	4.57	30.5	H	493.8		1.0	17		1.4		.7	Meas.	1.2		.6		2.5		1.6	17
18	4.16	1.6	4.25	3.5	4.23	2.9	4.48	18.0	Meas.	66.6		1.0	18		1.5		.6		1.2		.6		2.8		1.6	18
19	4.15	1.5	4.24	3.2	4.22	2.6	4.50	20.0	"	15.2		1.1	19		1.6		.5		1.2		.6	Meas.	3.1		1.7	19
20	4.21	2.3	4.22	2.6	4.21	2.3	4.42	12.0		14.0		1.1	20		1.7	Meas.	.4		1.2		.5		2.7		1.7	20
21	4.22	2.6	4.24	3.2	H	87.1	4.35	7.5		12.8		1.1	21		1.8		.5		1.2		.5		2.3		1.7	21
22	4.21	2.3	4.23	2.9	4.39	9.5	4.29	4.7		11.6		1.1	22	Meas.	1.8		.6		1.2	Meas.	.5		2.0	Meas.	1.7	22
23	4.23	2.9	4.18	1.8	4.23	2.9	4.29	4.7		10.4		1.1	23		1.8		.7		1.2		.5		1.7		1.7	23
24	4.27	4.1	4.23	2.9	4.21	2.3	4.25	3.5		9.3		1.1	24		1.8		.8	Meas.	1.2		.5		1.4		1.7	24
25	4.25	3.5	4.25	3.5	H	302.1	4.24	3.2		8.2	Meas.	1.1	25		1.8		.9		1.2		.6	Meas.	1.1		1.7	25
26	4.23	2.9	4.24	3.2	H	113.4	4.29	4.7	Meas	7.1		1.2	26		1.9	Meas.	1.1		1.2		.6		1.1		1.7	26
27	4.29	4.7	H	259.4	4.54	26.0	4.31	5.5		7.0		1.3	27		1.9	"	.6		1.2		.7		1.1		1.7	27
28	4.29	4.7	4.80	60.0	H	1102.3	4.28	4.4		7.0		1.4	28		1.9		.6		1.3		.7		1.0		1.7	28
29	4.28	4.4	4.65	45.0	H	299.	4.29	4.7		7.0		1.5	29	Meas.	1.9		.6		1.3		.8		1.0	Meas.	1.7	29
30	4.26	3.8	4.44	14.0	4.66	47.0	4.34	7.0		-		1.6	30		1.7		.6		1.3		.8		1.0		1.7	30
31	4.25	3.5	-	-	4.70	55.0	H	848.0		-		1.7	31		-		.7		-		.9		.9		-	31
TOTAL		74.20		714.5		2574.80		1444.40		7829.30		66.30			47.70		24.30		31.40		23.50		47.80		40.60	
Mean Daily Discharge in Second-feet		2.39		23.82		83.06		46.59		269.97		2.14			1.59		.78		1.05		.76		1.54		1.35	
Second-feet per square mile		.004		.039		.135		.076		.440		.003			.003		.001		.002		.001		.003		.002	
Run-off, depth in inches																										
Run-off in acre-feet		147.14		1416.65		5105.83		2864.24		15525.50		131.47			94.59		48.19		62.27		46.60		94.79		80.51	25,617.98
Maximum Mean Daily Discharge in Second-feet		4.7		259.4		1102.3		846.0		2646.8		10.0			1.9		1.5		1.3		1.3		3.3		1.7	
Minimum Mean Daily Discharge in Second-feet		.8		1.8		1.9		3.2		7.0		1.0			1.2		.4		.7		.5		.9		.8	

T. A. Cooper — HAY — PERIOD YEAR


STA Nº 34
LOS ANGELES RIVER
AT
STEWART & GRAY ROAD
STORM OF DEC. 28 - 29
1931
DISCHARGE IN SECOND FEET
3200
2800
2400
2000
1600
1200
800
400
0
12
2
4
6
8
10
12
NOON
DEC. 28
NOON
DEC. 29


STA Nº 34
LOS ANGELES RIVER
AT
STEWART & GRAY ROAD
STORM OF FEB. 8 - 9 - 10
1932
DISCHARGE IN SECOND FEET
3500
3000
2500
2000
1500
1000
500
0
12
3
6
9
12
NOON
FEB. 8
NOON
FEB. 9
NOON
FEB. 10

F-180 R

LOS ANGELES RIVER AT STATE STREET, LONG BEACH

Location
On bridge crossing Long Beach Channel at State Street, Long Beach, Los Angeles County, California.

Drainage Area
1063 square miles approximately.

Installed by
Los Angeles County Flood Control District, December 26, 1928 at Willow Street, 1 mile above State Street.

Re-established October 27, 1931 at State Street.

Records Available
December 26, 1928, to October 27, 1931 taken at Willow Street, October 27, 1931 to September 30, 1932 taken at State Street. These records are available at Los Angeles County Flood Control District, Los Angeles, California.

Gage
Stevens Type A 30 continuous water stage recorder installed in shelter house mounted on corrugated iron stilling well attached todown-stream side of bridge pier. Outside vertical staff gage attached to stilling well brackets.

Disoharge Measurements
High water measurement made from bridge. Low flows measured by wading near bridge.

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

Extremes of Discharge
1928-1929
Maximum - 2871 c.f.s. March 10, 1929
Minimum - .88 c.f.s. August 1, 1929
1929-1930
Maximum - 1669 c.f.s. March 15, 1930
Minimum - 0 c.f.s. November 9, 1929
1930-1931
Maximum - 3700 c.f.s. Midnight, February 3, 4, 1931
Minimum - Dry at various times during year.
1931-1932
Maximum - 8381 c.f.s. on February 9, 1932
Minimum - 1.20 c.f.s. on September 19, 1932.

F-180 R

Diversions
None

Regulation
None

Accuracy
Fair

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

F. C. Dist. Form 184 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 36

Discharge measurements of LOS ANGELES RIVER

at Willow Street, Long Beach, during the year ending September 30, 1932

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	
	1931													
1	10/2	Seal	8.3	3.74	.72	6.49	2.69	.6			8		1/4	2 96
2	9	"	8.3	2.77	.52	6.49	2.01	.6			8		1/6	"
3	16	"	9.1	3.41	.46	6.47	1.58	.6			9		1/5	"
4	10/23	"	10.6	3.58	.50	6.49	1.79	.6			10		1/6	"
		Recorder moved to State Street 1 mile downstream on October 27, 1931 where measurements were taken for rest of year.												

F. C. Dist. Form 184 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 180

Discharge measurements of LOS ANGELES RIVER

at State Street, Long Beach, during the year ending September 30, 1932

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	
	Recorder located at Willow Street 1 mile upstream until Oct. 27, 1931 where previous measurements were taken.													
	1931													
1	11/6	Seal	11.8	3.79	.56	5.05	2.10	.6			9		1/6	282 962
2	13	"	8.4	2.73	.70	5.06	1.90	.6			8		1/6	"
3	15	Jordan	212.	230.	3.32	6.79	765.	.6			21	.12	1½	F.C.5
4	15	Seal	92.	80.4	2.69	6.22	216.7	.6			11	.01	1/4	271 640
5	20	"	13.4	7.22	.41	5.20	2.97	.6			9	.01	1/6	282 962
6	27	"	237.	201.	2.93	6.60	589.	.6			20	.01	1/2	271 640
7	12/4	"	10.	2.73	.79	5.12	2.15	.6			10		1/4	271 640
8	8	Seal-Fergus	228.	248.	3.05	6.72	757.	.6			18	.22	1/2	"
9	11	Seal	94.	81.	2.85	6.20	231.	.6			14	.04	1/3	"
10	14	"	85.	83.5	2.87	6.17	240.	.6			12	.02	1/3	"
11	14	"	177.	160.	2.74	6.53	439.	.6			15	.02	1/2	"
12	18	"	20.	7.82	.85	4.85	6.63	.6			10	0	1/4	"
13a	21	Seal-Fergus	153.	138.	2.62	6.35	361.	.6			17	.01	1/3	"
14	23	Seal	12.5	7.18	.96	4.95	6.89	.6			10	.04	1/6	"
15	28	Seal-Fergus	233.	306.	3.58	7.08	1092	.6			15	.05	1/2	"
16	28	" "	190.	459.	5.14	7.98	2357	.6			17	.15	2/3	"
17	30	Stoner	43.	26.6	1.59	5.80	42.4	.6			12	0	1/2	F.C.5
	1932													
18	1/8	Seal-Cooper	20.	7.26	.57	5.38	4.15	.6			10	.01	1/4	271 640
19	13	" "	29.5	15.2	.82	5.54	12.5	.6			10	0	1/4	"
20	13	" "	99.	48.6	1.76	5.94	85.7	.6			12		1/4	"
21	15	" "	TWO CHANNELS			6.52	345.	.6			22	.04	1/2	"
22	22	Cooper-Slaughter	11.3	5.0	.81	5.33	4.0	.6			12		1/6	282 962
23	29	Cooper	12.	6.89	.78	5.34	5.4	.6			13		1/2	"

F. C. Dist. Form 184 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 180

Discharge measurements of LOS ANGELES RIVER

at State Street, Long Beach, during the year ending September 30, 1932

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	
	1932													#12
24	2/1	Seal - Cooper	230.	740.	6.59	8.65	4896	.6			18	.30	1½	282 640
25	2	" "	232	147.	2.19	6.34	322	.6			19	.07	1/2	"
26	5	Cooper	32.	13.4	1.15	5.36	15.4	.6			16	.02	1/2	F.C. 23
27	8	Fergus-McKenzie	230	745.	5.49	8.20	4093	.6			17		1 1/3	"
28	8	" "	236	697.	8.29	9.35	5779	.6			10		223	"
29	9	Slaughter-Jordan	183	827.	6.89	9.36	5702	.6			18	.05	3 175	"
30	9	Seal - Fergus	218	1047	8.00	9.37	8381	.6			19	.05	2/ 1 3	F.C. 12
31	10	" "	203	471.	4.94	7.86	2327	.6			20	.03	9/10	"
32	11	Seal-Slaughter	219	222.	3.39	6.99	752	.6			26	.02	2/3	"
33	12	" "	°75	123.	3.11	6.63	384	.6			25		2/3	"
34	13	Slaughter	°77	74.	2.46	6.32	182	.6			26		1 1/3	F.C. 23
35	14	"	Two	Channels		6.61	263	.6			26	.03	1½	F.C. 12
36	15	"	71	69.	2.47	6.39	172	.6			25	.02	1¼	F.C. 23
37	16	Slaughter-Cooper	253	301.	3.42	7.24	1028	.6			25	.02	1/2	"
38	17	" "	186	153.	2.48	6.58	381	.6			27	.03	5/6	"
39	19	Cooper	62	56	2.53	6.20	142	.6			21	.01	5/6	"
40	26	"	21	7.54	.85	5.54	6.44	.6			11		1/3	"
41	3/4	"	14.5	12.8	1.41	5.74	18.1	.6			11		1/3	F.C. 12
42	11	"	11.9	5.57	.60	5.51	3.37	.6			11	.01	1/3	"
43	25	"	12.8	5.09	.82	5.50	4.18	.6			11		2/5	"
44	4/1	"	5.1	1.38	.43	5.38	.59	.6			9		2/5	"
45	15	"	13.	5.55	.70	5.48	3.91	.6			11		1/4	"
46	29	Seal	10.3	4.53	.81	5.46	3.65	.6			10		1/5	"
47	5/13	Cooper	9.2	3.78	.71	5.44	2.70	.6			10		1/3	F.C. 23
48	20	Hardgrove	10.	3.72	.97	5.47	3.61	.6			5		1/6	282 891
49	27	"	8.	3.16	.92	5.47	2.92	.6			4		1/6	"
50	6/3	Rupert	Two	Channels		5.50	3.50	.6			11		1/3	271 647
51	10	"	19.	6.0	.54	5.49	3.22	.6			10		1/4	"

F. C. Dist. Form ... 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 180

Discharge measurements of LOS ANGELES RIVER

at State Street, Long Beach, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1932													
52	6/17	Rupert	18.	6.7	0.62	5.52	4.16		.6		12		1/4	271 647
53	24	"	20	5.8	.52	5.48	3.04		.6		10		1/4	"
54	7/1	"	Two Channels			5.57	4.66		.6		19		1/4	"
55	7	Hardgrove	7.0	3.85	1.13	5.56	4.36		.6		7		-	282 891
56	15	"	8.0	4.59	.58	5.50	2.68		.6		8		-	"
57	21	"	10.	5.95	.60	5.54	3.50		.6		10		-	"
58	28	"	10.	6.44	.71	5.58	4.58		.6		10		-	"
59	8/5	"	10.	6.06	.56	5.56	3.36		.6		5		-	"
60	11	"	8	4.52	.69	5.54	3.10		.6		8		-	"
61	18	Hardgrove	10.	6.63	.70	5.53	4.42		.6		7		-	"
62	25	"	9.	5.20	.56	5.55	2.92		.6		5		-	"
63	9/2	"	9.	4.84	.36	5.52	1.79		.6		6		-	"
64	7	"	9.	3.97	.61	5.56	2.42		.6		6		-	"
65	15	Jordan	7.	3.96	.87	5.59	3.44		.6		7	.02	1/4	F.C. 5
66	22	Jordan-Slaughter	6.2	3.54	.79	5.58	2.78		.6		6		1/6	"
67	29	Slaughter	14.3	4.57	.54	5.59	2.45		.6		6		1/4	F.C. 6

F.C. Dist.—Form 105—1000—9-31

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

At State Street, Long Beach for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 180

Drainage Area 1063 Square Miles. [D.L.Seal - T. A. Cooper Observer.] Gage Read Continuously Used rating table dated 1931-1932

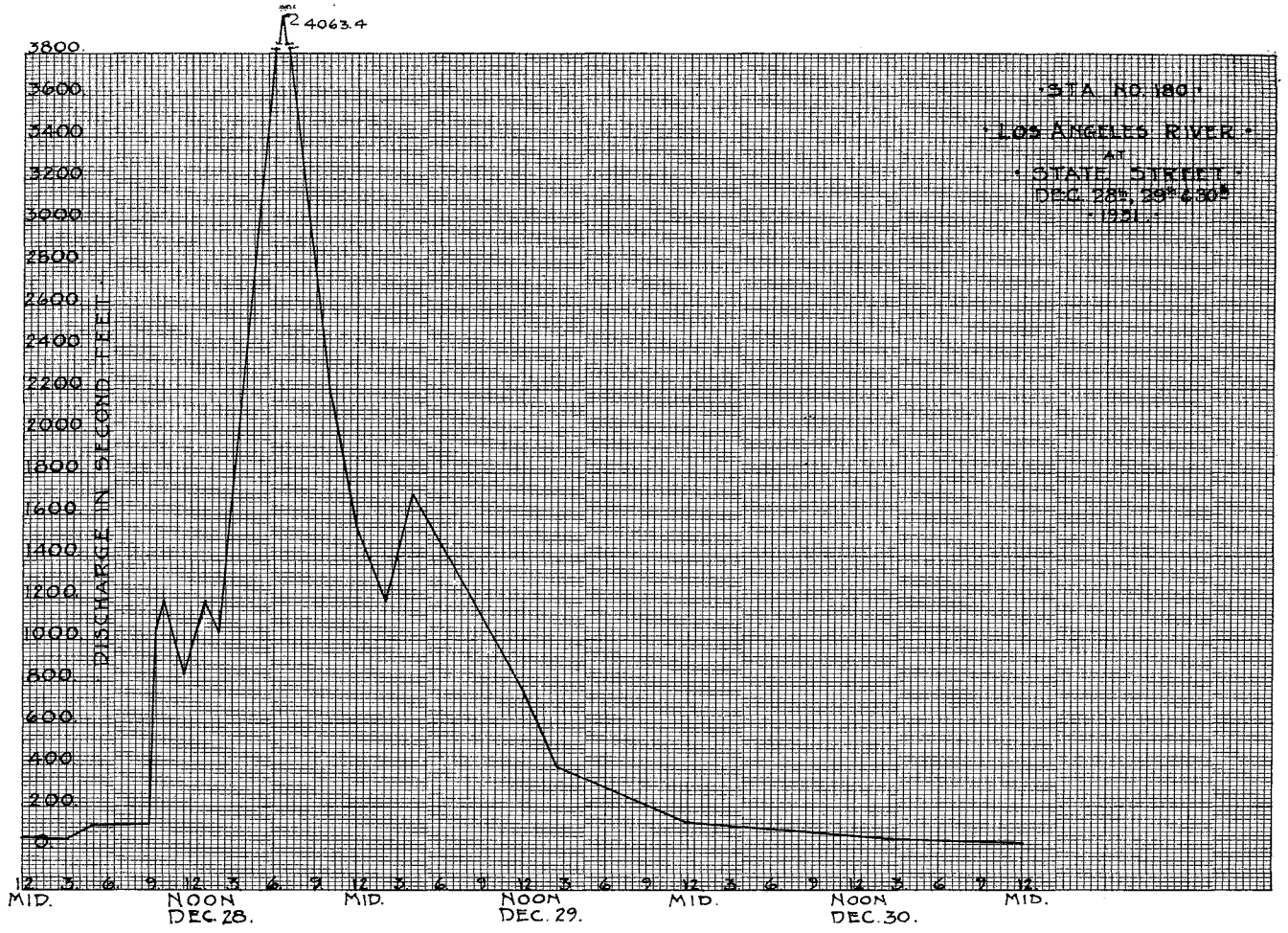
Maximum stage 9.87 feet at 6:00PM on February 9 Discharge 8381.00 second-feet.
Minimum stage 5.06 feet at 8:00 PM on Sept. 19 Discharge 1.20 second-feet.
Adjustments have been applied to all gage heights
DISCHARGE AT WILLOW STREET ABOUT ONE MILE ABOVE STATE STREET

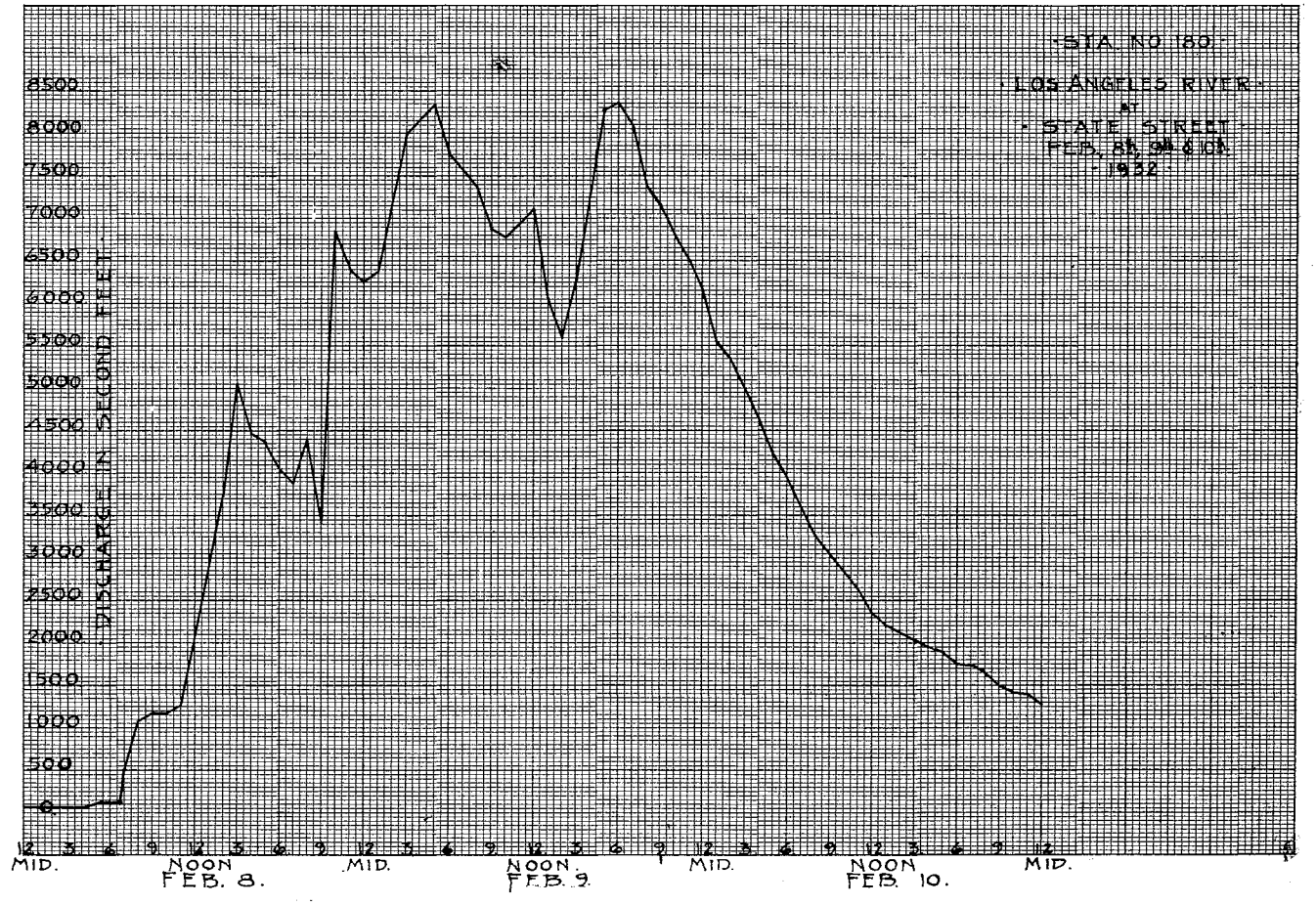
Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1		2.8	5.11	2.2	5.22	4.4	H	29.5	H	1964.0	5.52	19.6
2		2.8	5.09	1.8	5.19	3.8	H	75.0	H	478.6	5.45	15.0
3		3.0	5.11	2.2	5.16	3.2	H	28.0	6.10	102.0	5.41	12.6
4		2.8	5.10	2.0	5.11	2.2	5.40	12.0	5.78	43.6	5.46	15.6
5		2.6	5.09	1.8	5.12	2.4	5.31	7.4	5.51	18.8	5.45	15.0
6		2.0	5.10	2.0	5.11	2.2	5.34	8.6	5.58	24.4	5.29	6.6
7		2.2	5.11	2.2	5.11	2.2	5.31	7.4	5.81	47.4	5.28	6.2
8		2.2	5.13	2.6	H	66.3	5.25	5.0	H	2511.0	5.24	4.8
9		2.0	5.15	3.0	H	333.3	5.28	6.2	H	7126.0	5.22	4.4
10		2.2	5.14	2.8	H	30.0	5.30	7.0	H	2925.0	5.20	4.0
11		2.4	5.11	2.2	H	57.1	5.24	4.8	6.96	784.6	5.19	3.8
12		1.8	5.10	2.0	5.74	39.0	5.25	5.0	6.66	448.0	5.17	3.4
13		1.8	5.09	1.8	5.72	37.0	5.65	30.0	6.41	225.8	5.12	2.4
14		2.0	5.10	2.0	H	148.6	5.58	24.4	6.46	265.6	5.16	3.2
15		1.4	H	147.7	H	173.7	H	144.0	6.35	190.0	5.16	3.2
16		1.8	5.75	40.0	H	28.7	H	62.8	6.85	652.0	5.17	3.4
17		1.8	5.40	12.0	5.40	12.0	5.53	20.4	6.79	584.0	5.17	3.4
18		1.6	5.27	5.8	5.31	7.4	5.37	10.2	6.45	257.0	5.14	2.8
19		2.0	5.21	4.2	5.22	4.4	5.30	7.0	6.31	171.6	5.15	3.0
20		1.6	5.15	3.0	5.17	3.4	5.30	7.0	6.07	94.8	5.18	3.6
21		1.2	5.12	2.4	H	106.8	5.24	4.8	5.84	571.6	5.14	2.8
22		1.4	5.11	2.2	H	51.7	5.20	4.0	5.71	36.0	5.14	2.8
23		1.0	5.13	2.6	5.40	12.0	5.24	4.8	5.58	24.4	5.15	3.0
24		1.0	5.14	2.8	5.24	4.8	5.25	5.0	5.53	20.4	5.21	4.2
25		.8	5.15	3.0	H	604.2	5.25	5.0	5.44	14.4	5.21	4.2
26		.8	5.15	3.0	H	327.5	5.25	5.0	5.30	7.0	5.19	3.8
27		°1.1	H	150.0	H	82.9	5.26	5.4	5.35	9.0	5.16	3.2
28		°1.4	H	69.2	H	1327.8	5.30	7.0	5.35	9.0	5.11	2.2
29		°1.6	5.49	17.4	H	804.7	5.26	5.4	5.40	12.0	5.15	3.0
30		°1.9	5.31	7.4	H	67.1	5.28	6.2	-	-	5.14	2.8
31	5.11	°2.2	-	-	5.58	24.4	H	304.0	-	-	5.11	2.2
TOTAL,		57.2		503.3		4375.2		858.3		19098.0		170.2
Mean Daily Discharge in Second-feet		1.85		16.78		141.14		27.69		658.6		5.49
Second-feet per square mile		0.0017		0.0158		0.1327		0.0260		0.619		0.0052
Run-off, depth in inches												
Run-off in acre-feet		113.5		998.3		8678.2		1702.4		37880.9		337.6
Maximum Mean Daily Discharge in Second-feet		3.0		150.0		1327.8		304.0		7126.0		19.6
Minimum Mean Daily Discharge in Second-feet		0.8		1.8		2.2		4.0		7.0		2.2

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period Year
1	5.05	1.0	5.20	4.0	5.14	2.8	5.23	4.6	5.16	3.2	5.15	3.0	
2	5.06	1.2	5.21	4.2	5.13	2.6	5.23°	4.6	5.16	3.2	5.14	2.8	
3	5.07	1.4	5.17	3.4	5.16	3.2	5.23°	4.6	5.15	3.0	5.14	2.8	
4	5.15	3.0	5.18	3.6	5.18	3.6	5.23°	4.6	5.15	3.0	5.14	2.8	
5	5.14	2.8	5.20	4.0	5.18	3.6	5.23°	4.6	5.17	3.4	5.13	2.6	
6	5.09	1.8	5.20	4.0	5.18	3.6	5.23°	4.6	5.17	3.4	5.13	2.6	
7	5.11	2.2	5.19	3.8	5.18	3.6	5.23	4.6	5.16	3.2	5.13	2.6	
8	5.17	3.4	5.20	4.0	5.18	3.6	5.23°	4.6	5.16	3.2	5.15	3.0	
9	5.14	2.8	5.19	3.8	5.17	3.4	5.23°	4.6	5.15	3.0	5.15	3.0	
10	5.18	3.6	5.18	3.6	5.17	3.4	5.22°	4.4	5.17	3.4	5.16	3.2	
11	5.18	3.6	5.18	3.6	5.17	3.4	5.22°	4.4	5.18	3.6	5.16	3.2	
12	5.19	3.8	5.18	3.6	5.16	3.2	5.21°	4.2	5.19	3.8	5.16°	3.2	
13	5.14	2.8	5.16	3.2	5.16	3.2	5.21°	4.2	5.21	4.2	5.17°	3.4	
14	5.14	2.8	5.17	3.4	5.15	3.0	5.20	4.0	5.22	4.4	5.17°	3.4	
15	5.21	4.2	5.21	4.2	5.16	3.2	5.19°	3.8	5.22	4.4	5.17	3.4	
16	5.20	4.0	5.20	4.0	5.18	3.6	5.18	3.6	5.23	4.6	5.18	3.6	
17	5.20	4.0	5.19	3.8	5.21	4.2	5.17	3.4	5.25	5.0	5.18	3.6	
18	5.18	3.6	5.17	3.4	5.16	3.2	5.16	3.2	5.25	5.0	5.16	3.6	
19	5.16	3.2	5.07	1.4	5.15	3.0	5.15	3.0	5.24	4.8	5.11	2.2	
20	5.19	3.8	5.18	3.6	5.18	3.6	5.15	3.0	5.23	4.6	5.10	2.0	
21	5.16	3.2	5.20	4.0	5.20	4.0	5.15	3.0	5.22	4.4	5.13	2.6	
22	5.18	3.6	5.12	2.4	5.17	3.4	5.15	3.0	5.21	4.2	5.14	2.8	
23	5.19	3.8	5.07	1.4	5.15	3.0	5.17	3.4	5.20	4.0	5.16	3.2	
24	5.19	3.8	5.17	3.4	5.14	2.8	5.16	3.2	5.19	3.8	5.14	2.8	
25	5.22	4.4	5.18	3.6	5.20	4.0	5.17	3.4	5.18	3.6	5.14	2.8	
26	5.19	3.8	5.14	2.8	5.20	4.0	5.19	3.8	5.17	3.4	5.14	2.8	
27	5.24	4.8	5.14	2.8	5.20	4.0	5.18	3.6	5.16	3.2	5.14	2.8	
28	5.18	3.6	5.14	2.8	5.21	4.2	5.18	3.6	5.17	3.4	5.13	2.6	
29	5.12	2.4	5.16	3.2	5.21	4.2	5.18	3.6	5.16	3.2	5.12	2.4	
30	5.18	3.6	5.14	2.8	5.22	4.4	5.18	3.6	5.16	3.2	5.11	2.2	
31	-	-	5.14	2.8	-	-	5.17	3.4	5.15	3.0	-	-	
TOTAL,		96.0		104.6		106.0		120.20		115.80		87.00	
Mean Daily Discharge in Second-feet		3.20		3.37		3.50		3.88		3.74		2.90	
Second-feet per square mile		0.0030		0.0032		0.0033		.0036		.0035		.0027	
Run-off, depth in inches													
Run-off in acre-feet		190.4		207.5		208.3		238.4		229.6		172.5	50,957.6
Maximum Mean Daily Discharge in Second-feet		4.8		4.2		4.4		4.6		5.0		3.6	
Minimum Mean Daily Discharge in Second-feet		1.0		1.4		2.6		3.0		3.0		2.0	

First / Second / Third / Fourth Quarter — G. H. copied, G. H. checked, Computed, Checked, Disch. applied, Disch. checked, Date: TAC CES HAV 11-7-32

° Interpolated values


4063.4
STA. NO. 180
LOS ANGELES RIVER
AT
STATE STREET
DEC. 28th, 29th & 30th
1931.
DISCHARGE IN SECOND FEET
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12
MID.
NOON
DEC. 28.
MID.
NOON
DEC. 29.
MID.
NOON
DEC. 30.
MID.


STA. NO. 180
LOS ANGELES RIVER
AT
STATE STREET
FEB. 8th, 9th & 10th
1932
DISCHARGE IN SECOND FEET
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12
MID.
NOON
FEB. 8.
MID.
NOON
FEB. 9.
MID.
NOON
FEB. 10.
MID.

F-130 R

MALIBU CREEK AT CRATER CAMP

Location
At upper end of Malibu Gorge about 1/4 mile downstream from Crater Camp in Santa Monica Mountains, Los Angeles County, California.

Drainage Area
103 square miles.

Installed by
Los Angeles County Flood Control District January 17, 1931.

Records Available
January 17, 1931 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
An continuous water stage recorder installed in small house on top of corrugated iron pipe stilling well on west side of stream 1/4 mile below crater Camp.

Discharge Measurements
Low flows are made by wading near gage.
High flows are made from cable car at gage.

Channel and Control
Channel is soil and boulders with considerable growth of vegetation.

Extremes of Discharge
1930-1931
Maximum-743.2 c.f.s. February 4, 1931
Minimum-.07 c.f.s. September 30, 1931
1931-1932
Maximum-3100 c.f.s. February 9, 1932
Minimum- .01 c.f.s. August 28-30, 1932

Diversions
A number of diversions exist on tributaries of Malibu Creek above gage.

Regulation
Flow regulated by a number of small dams located on the tributaries of Malibu Creek

Accuracy
Fair

Operation
Located and installed by the Los Angeles County Flood Control District and operated by the Los Angeles County Flood Control District in conjunction with the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 130

Discharge measurements of Malibu Creek

at Crater Camp, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	2-9	Meunier-Girovard	90.0	301.1	5.38	8.81	1621.		.6		9	.02	1/3	271 586
30	2-12	Meunier	60.0	55.5	2.62	6.10	145.		.6		12	0	1/4	"
31	2-16	Meunier-Girovard	50.0	45.5	2.46	5.90	112.		.6		10		1/3	"
32	2-19	Meunier	44.0	32.6	2.08	5.64	67.7		.6		10		1/2	"
33	2-26	"	36.0	23.0	1.60	5.30	36.7		.6		9		1/2	"
34	3-4	"	20.0	15.1	1.39	5.10	20.9		.6		6		1/4	"
35	3-10	"	22.0	13.1	1.24	5.05	16.3		.6		7		1/3	"
36	3-18	"	21.0	10.3	.83	4.96	8.8		.6		5		1/4	"
37	3-25	"	19.0	9.6	.76	4.75	7.3		.6		4		1/6	"
38	4-1	"	21.0	10.3	.65	4.75	6.7		.6		5		"	"
39	4-8	"	19.0	11.6	.40	4.85	4.7		.6		5		"	"
40	4-15	"	21.0	12.5	.15	4.90	1.8		.6		5		"	"
41	4-22	"	4.5	6.3	.30	4.74	1.9		Float					
42	4-26	"	10.0	7.4	.44	4.88	3.3		.6		3		1/12	"
43	4-29	"	10.0	6.7	.69	4.78	4.5		.6		3		"	"
44	5-6	"	8.0	5.3	.61	4.68	3.2		.6		3		"	"
45	5-13	"	9.0	5.3	.52	4.58	2.7		.6		3		"	"
46	5-20	Bollinger	7.4	3.2	.63		2.0		.6		8		1/6	271 550
47	5-26	"	7.3	3.02	.63	4.54	1.9		.6		8		"	"
48	6-2	"	6.3	2.6	.75	4.63	1.9		.6		11		"	"
49	6-9	"	7.0	2.4	.56	4.60	1.35		.6		7		"	"
50	6-16	"	7.2	3.2	.43	4.54	1.38		.6		7		"	"
51	6-23	"	6.0	2.3	.47	4.45	1.06		.6		6		"	"
52	6-30	"	6.2	2.0	.40	4.38	.8		.6		6		"	"
53	7-7	"	6.3	1.6	.43	4.34	.7		.6		6		"	"
54	7-14	"	4.5	1.2	.40	4.22	.5		.6		7		"	"
55	7-21	Mac	4.5	1.3	.43	4.24	.6		.6		6		1/12	FC 13
56	7-28	"	4.5	1.2	.37	4.26	.4		.6		5		"	"

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 130

Discharge measurements of Malibu Creek

at Crater Camp, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-2	Bollinger				3.89	.05		Weir					
2	10-9	"				3.93	.07		Weir					
3	10-16	"				3.93	.05		Weir					
4	10-23	"				3.94	.06		"					
5	10-30	"				3.89	.04		"					
6	11-6	"				3.81	.04		"					
7	11-13	"				3.93	.04		"					
8	11-27	Meunier-Laverty				4.08	.20		"					
9	12-4	Meunier				4.00	.09		"					
10	12-8	"				4.10	.19		"					
11	12-11	"				4.05	.12		"					
12	12-14	"				4.11	.20		"					
13	12-18	"				4.08	.12		"					
14	12-21	"				4.07	.14		"					
15	12-26	"	4.0	2.56	.64	4.32	1.64		Float					
16	12-28	Meunier-Girovard	75.0	232.0	2.74	7.70	636.6		.6		9		1	271 588
17	12-31	Meunier	10.0	7.10	2.80	5.10	19.83		.6		5		1/4	"
18	1-8	"	6.7	5.08	2.15	4.88	10.46		.6		5		1/6	"
19	1-15	Meunier-Girovard	6.3	4.25	1.78	4.82	7.56		.6		6		1/4	"
20	1-22	Meunier	6.0	4.54	1.66	4.83	7.54		.6		6		1/6	"
21	1-29	"	6.0	4.11	1.50	4.80	6.15		.6		6		1/4	"
22	2-1	Meunier-Girovard	75.0	211.2	3.95	8.03	830.		.6		15	.03	3/4	"
23	2-1	" "	75.0	202.5	4.07	8.01	824.		.6		8	.02	1/2	"
24	2-2	" "	60.0	67.20	3.39	6.50	228.		Float				1/2	
25	2-5	Meunier	58.0	34.48	2.19	5.50	75.56		.6		10		1	"
26	2-8	Meunier-Girovard	85.0	356.3	4.91	9.45	1750.		.6		10	.10	1/2	"
27	2-8	" "	85.0	341.3	4.75	9.35	1623.		.6		9	.10	1/2	"
28	2-9	" "	80.0	290.0	5.67	8.83	1645.		.6		9	.03	1/3	"

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No 130

Discharge measurements of Malibu Creek

at Crater Camp, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
57	8-4	Bollinger	3.5	1.14	.28	4.16	.32		Float					
58	8-9	"	3.5	1.19	.29	4.20	.33		"					
59	8-18	"	3.1	.78	.21	4.17	.16		"					
60	8-24	"	3.2	.85	.26	4.12	.22		"					
61	8-31	"	3.8	1.10	.25	4.18	.27		"					
62	9-7	"	3.0	.84	.30	4.17	.25		"					
63	9-15	"	3.0	.83	.29	4.17	.25		"					
64	9-22	"	3.1	.91	.31	4.18	.28		"					
65	9-29	"	3.0	.81	.20	4.11	.16		"					

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 130

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of MALIBU CREEK AT CRATER CAMP

At / Near ______ for the Year Ending September 30, 1932.

Drainage Area 103 Square Miles. [Meunier & Bollinger Observer.]

Gage Read CONTINUOUS

Used rating table dated 10-1-31 to 9-30-32

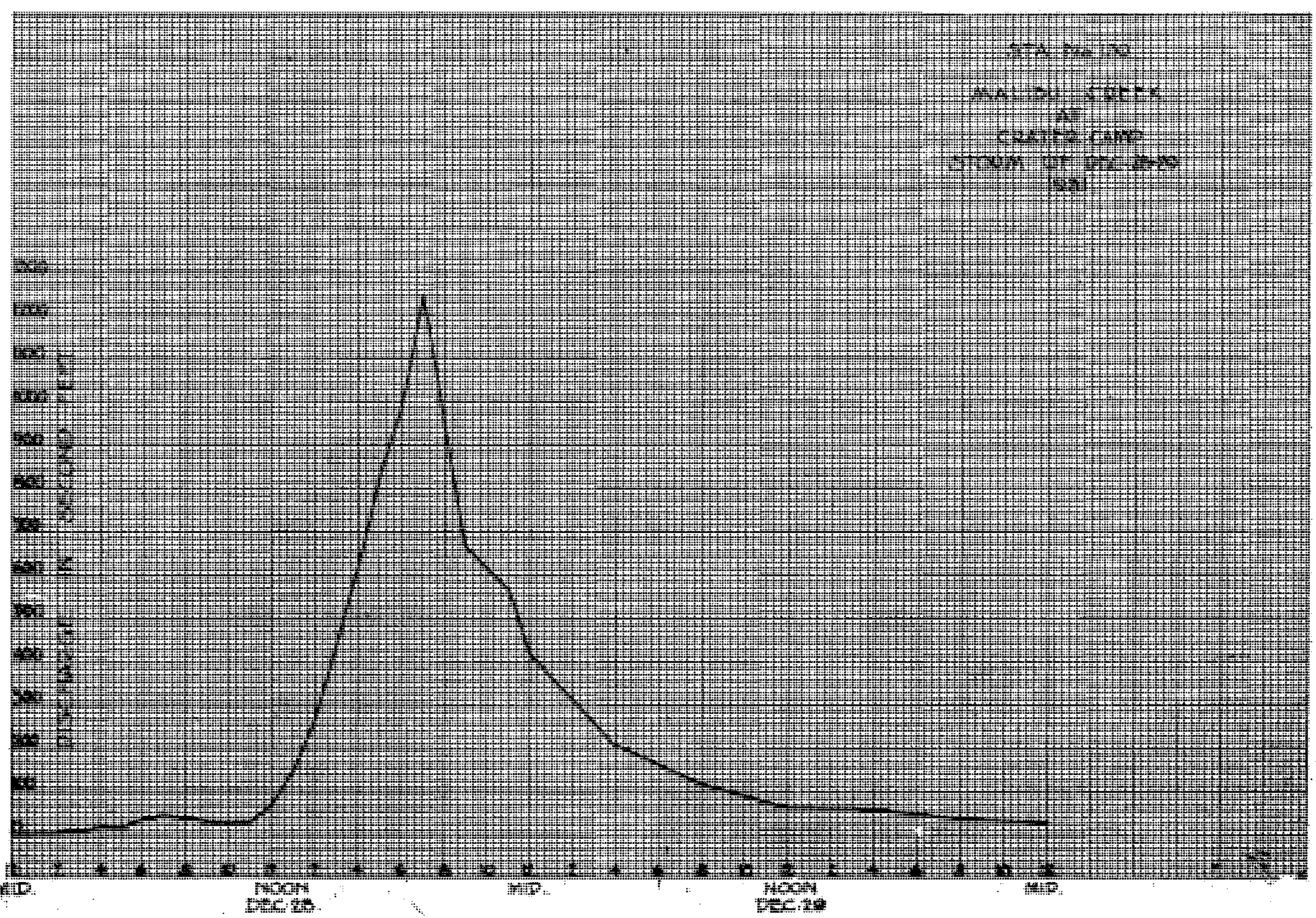
Maximum stage 10.88 feet at 10 AM on 2/9/32 Discharge 3100 second-feet.
Minimum stage 4.51 feet at ______ on Aug. 28, 29, 30-1932 Discharge .01 second-feet.

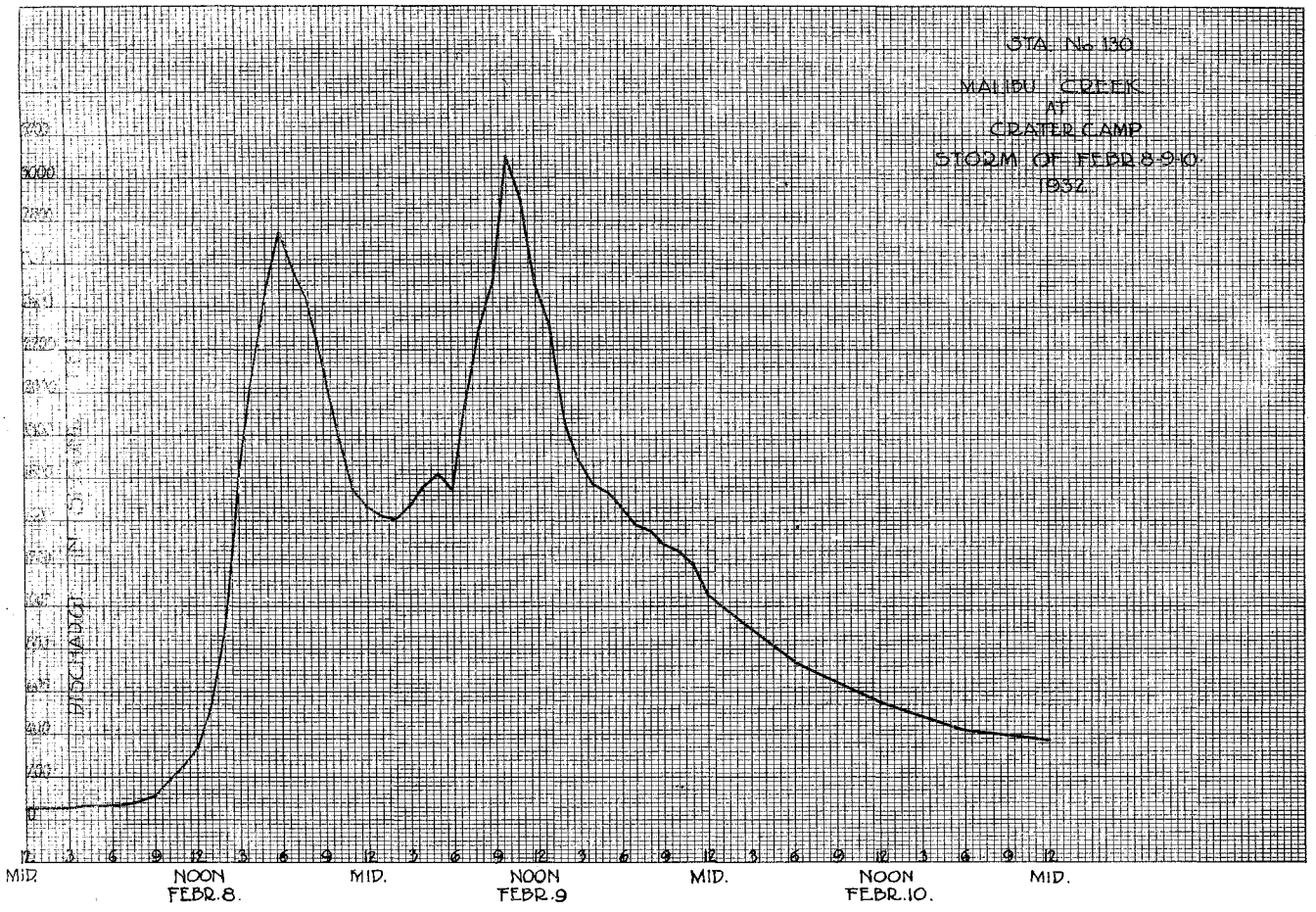
DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	4.53	.03	4.52	.02	4.52	.02	5.03	16.90	H	566.2	5.13	24.20
2	4.54	.06	4.51	.01	4.53	.03	5.06	19.00	H	255.4	5.11	22.60
3	4.55	.10	4.51	.01	4.53	.03	5.03	16.90	H	133.7	5.11	22.60
4	4.54	.06	4.51	.01	4.55	.10	5.04	17.60	5.71	97.8	5.08	20.40
5	4.53	.03	4.52	.02	4.54	.06	4.99	14.40	5.56	72.6	5.05	18.30
6	4.54	.06	4.53	.03	4.52	.02	4.92	10.50	5.46	57.8	5.05	18.30
7	4.54	.06	4.53	.03	4.51	.01	4.91	10.00	5.42	52.6	5.02	16.20
8	4.54	.06	4.55	.10	4.52	.02	4.93	11.00	H	953.8	4.92	10.50
9	4.54	.06	4.54	.06	4.52	.02	4.92	10.50	H	1769.	4.99	14.40
10	4.54	.06	4.53	.03	4.53	.03	4.92	10.50	H	603.2	5.00	15.00
11	4.55	.10	4.53	.03	4.55	.10	4.92	10.50	6.15	185.0	4.98	13.80
12	4.54	.06	4.54	.06	4.52	.02	4.84	6.76	5.90	135.0	4.96	12.60
13	4.54	.06	4.53	.03	4.51	.01	4.81	5.56	5.71	97.8	4.96	12.60
14	4.54	.06	4.53	.03	4.55	.10	4.78	4.53	5.62	82.4	4.94	11.50
15	4.53	.03	4.62	.86	4.55	.10	4.84	6.76	5.53	68.0	4.93	11.00
16	4.53	.03	4.55	.10	4.54	.06	4.87	8.08	5.78	111.0	4.90	9.50
17	4.54	.06	4.54	.06	4.54	.06	4.91	10.00	5.64	85.8	4.89	9.01
18	4.57	.24	4.54	.06	4.55	.10	4.91	10.00	5.54	69.5	4.89	9.01
19	4.57	.24	4.55	.10	4.56	.16	4.90	9.50	5.49	62.0	4.89	9.01
20	4.57	.24	4.55	.10	4.53	.03	4.89	9.01	5.42	52.6	4.91	10.00
21	4.57	.24	4.55	.10	4.55	.10	4.88	8.54	5.39	49.0	4.85	7.19
22	4.56	.16	4.55	.10	4.53	.03	4.87	8.08	5.36	45.5	4.80	5.20
23	4.53	.03	4.55	.10	4.52	.02	4.87	8.08	5.32	41.1	4.80	5.20
24	4.54	.06	4.56	.16	4.52	.02	4.86	7.63	5.30	39.0	4.82	5.94
25	4.53	.03	4.55	.10	H	21.66	4.84	6.76	5.28	37.0	4.85	7.19
26	4.53	.03	4.54	.06	H	1.85	4.83	6.34	5.26	35.0	4.84	6.76
27	4.52	.02	H	1.31	4.61	.72	4.82	5.94	5.18	28.2	4.82	5.94
28	4.51	.01	4.51	.01	H	324.65	4.83	6.34	5.14	25.0	4.82	5.94
29	4.51	.01	4.51	.01	H	116.10	4.82	5.94	5.14	25.0	4.84	6.76
30	4.51	.01	4.52	.02	5.14	25.00	4.73	3.04	-	-	4.85	7.19
31	4.51	.01	-	-	5.09	21.10	H	127.86	-	-	4.84	6.76

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1	4.85	7.19	4.72	2.78	4.65	1.30	4.63	1.00	4.61	.72	4.60	.59
2	4.88	8.54	4.70	2.29	4.67	1.64	4.60	.59	4.63	1.00	4.60	.59
3	4.86	7.63	4.69	2.06	4.67	1.64	4.59	.46	4.62	.86	4.60	.59
4	4.87	8.08	4.68	1.84	4.71	2.53	4.59	.46	4.62	.86	4.60	.59
5	4.86	7.63	4.70	2.29	4.71	2.53	4.64	1.15	4.63	1.00	4.60	.59
6	4.82	5.94	4.74	3.31	4.70	2.29	4.61	.72	4.59	.46	4.55	.10
7	4.79	4.86	4.75	3.60	4.70	2.29	4.61	.72	4.59	.46	4.56	.16
8	4.78	4.53	4.76	3.90	4.70	2.29	4.57	.24	4.63	1.00	4.56	.16
9	4.77	4.21	4.75	3.60	4.65	1.30	4.58	.34	4.60	.59	4.55	.10
10	4.75	3.60	4.75	3.60	4.66	1.46	4.57	.24	4.62	.86	4.55	.10
11	4.75	3.60	4.77	4.21	4.67	1.64	4.57	.24	4.62	.86	4.54	.06
12	4.74	3.31	4.77	4.21	4.70	2.29	4.58	.34	4.56	.16	4.53	.03
13	4.73	3.04	4.74	3.31	4.60	.59	4.59	.46	4.54	.06	4.53	.03
14	4.72	2.78	4.72	2.78	4.62	.86	4.62	.86	4.57	.24	4.52	.02
15	4.70	2.29	4.70	2.29	4.63	1.00	4.62	.86	4.58	.34	4.55	.10
16	4.72	2.78	4.68	1.84	4.64	1.15	4.62	.86	4.57	.24	4.55	.10
17	4.73	3.04	4.68	1.84	4.63	1.00	4.62	.86	4.56	.16	4.56	.16
18	4.75	3.60	4.66	1.46	4.62	3.68	4.60	.59	4.56	.16	4.56	.16
19	4.74	3.31	4.66	1.46	4.64	1.15	4.58	.34	4.56	.16	4.56	.16
20	4.74	3.31	4.64	1.15	4.62	.86	4.57	.24	4.57	.24	4.56	.16
21	4.82	5.94	4.63	1.00	4.61	.72	4.59	.46	4.58	.34	4.55	.10
22	4.68	1.84	4.61	.72	4.63	1.00	4.61	.72	4.58	.34	4.55	.10
23	4.59	0.46	4.60	.59	4.64	1.15	4.60	.59	4.64	1.15	4.53	.03
24	4.65	1.30	4.59	.46	4.66	1.46	4.60	.59	4.62	.86	4.52	.02
25	4.69	2.06	4.59	.46	4.65	1.30	4.59	.46	4.57	.24	4.56	.16
26	4.72	2.78	.68	1.84	4.67	1.64	4.58	.34	4.54	.06	4.56	.16
27	4.73	3.04	4.67	1.64	4.70	2.29	4.56	.16	4.53	.03	4.56	.16
28	4.73	3.04	4.63	1.00	4.70	2.29	4.57	.24	4.51	.01	4.55	.10
29	4.74	3.31	4.62	.86	4.69	2.06	4.57	.24	4.51	.01	4.55	.10
30	4.71	2.53	4.66	1.46	4.62	.86	4.58	.34	4.51	.01	4.55	.10
31	-	-	4.66	1.46	-	-	4.59	.46	4.55	.10	-	-

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	PERIOD YEAR
TOTAL	2.31	3.72	512.33	412.55	5836.5	360.60	119.57	65.31	45.44	16.17	13.58	5.58	
Mean Daily Discharge in Second-feet	0.07	0.12	16.53	13.318	201.26	11.63	3.99	2.11	1.51	.52	.44	.19	
Second-feet per square mile	.001	.001	.160	.129	1.954	.113	.039	.020	.015	.005	.004	.002	
Run-off, depth in inches													
Run-off in acre-feet	4.58	7.38	1016.21	818.29	11576.70	715.25	237.17	129.54	90.13	32.07	26.94	11.07	14,665.33
Maximum Mean Daily Discharge in Second-feet	0.24	1.31	324.65	127.86	1769.5	24.20	8.54	4.21	2.53	1.15	1.15	.59	
Minimum Mean Daily Discharge in Second-feet	0.01	0.01	0.01	3.04	25.0	5.20	0.46	.46	.59	.16	.01	.02	

Quarter: First / Second / Third / Fourth — Computed: OES, OES, WTK — Checked: HAV — Date: 6/13/32; Disch. applied / Disch. checked: OES, OES — Date: 6/8/32; G. H. copied / G. H. checked: OES, OES — Date: 6/8/32





F-112R

MILL CREEK .6 MILE ABOVE JUNCTION WITH BIG TUJUNGA CREEK

Location
On Mill Creek 200' below junction of North Fork of Mill Creek, .6 mile above junction with Big Tujunga Creek.

Drainage Area
21.1 square miles.

Installed by
Los Angeles County Flood Control District
November 16, 1930

Records Available
October 1st, 1930 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
Au continuous water stage recorder installed in a galvanized iron shelter house on east bank of stream. Stilling well is constructed of galvanized iron pipe.

Discharge Measurements
Low water measurements made with V. notch weir and by wading, near gage.
High water measurements made from cable near 10' above gage.

Channel and Control
Channel-Rock and gravel
Control-Is of concrete and rock for low water.

Extremes of Discharge
1930-1931
Maximum-1.73 c.f.s. on April 26, 1931
Minimum-Dry at various times during year.
1931-1932
Maximum-512 c.f.s. on Feb. 9, 1932
Minimum-Dry at various times during year.

Diversions
None

F-112-R

Regulation
None

Accuracy
Good

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

F. C. Dist. Form 104 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 112

Discharge measurements of MILL CREEK .6 MILE ABOVE JUNCTION WITH BIG TUJUNGA CREEK, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
1	10/11	J. L. Irwin					Dry							
2	21	"					"							
3	11/16					1.80	.02		Weir					
4	12/9	Moon				1.85	.30		"					
5	12/26	Ash				1.87	.41		"					
	1932													
6	1/4	Moon & Ash	4.0	.92	.49	1.92	.45		.6		6		1/6	F.C. 19
7	13	Moon	4.5	.69	.70	1.92	.48		.6		5		1/4	"
8	20	"	2.0	.40	.75	1.89	.30		.6		4		"	"
8A	29	"				1.90	.30		.6					
9	2/5	"	16.	.88	1.37	2.05	1.21		Weir		6		1/4	"
10	10	"	10.	9.92	7.16	3.50	71.0		.6				1/2	"
11	18	"	12	3.32	2.83	2.42	9.38		.6		6		1/4	"
12	26	"	11.5	4.59	2.50	2.60	11.5		.6		11		"	"
13	3/3	"	6.5	3.82	1.81	2.38	6.90		.6		9		"	"
14	10	"	6.0	2.64	1.75	2.26	4.64		.6		7		"	"
15	17	"	6.7	2.00	1.37	2.22	2.74		.6		6		"	"
16	25	"	6.5	2.21	1.28	2.20	2.82		.6		7		"	"
17	4/1	"	6.5	1.85	1.13	2.17	2.10		.6		6		1/6	"
18	8	"	6.0	1.66	1.23	2.13	2.05		.6		6		"	"
19	14	"	6.0	1.56	.95	2.09	1.48		.6		6		"	"
20	21	"	6.0	1.51	1.07	2.11	1.61		.6		6		"	"
21	28	"	6.3	1.61	1.09	2.10	1.76		.6		6		1/4	"
22	5/5	"	6.0	1.66	0.93	2.10	1.54		.6		6		1/6	"
23	20	Irwin	4.0	1.28	0.90	2.10	1.15		.6		4		1/4	"
24	24	"	-	-	-	2.04	.60		Weir					

F. C. Dist. Form 104 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 112

Discharge measurements of MILL CREEK, .6 MILE ABOVE JUNCTION WITH BIG TUJUNGA CREEK, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1932													
25	5/24	Irwin	-	-	-	2.02	.71		Weir					
26	6/3	"	-	-	-	2.09	1.24		"					
27	10	"	-	-	-	2.03	.90		"					
28	17	Irwin	-	-	-	2.04	.52		"					
29	7/1	"	-	-	-	2.00	.48		"					
30	8	"	-	-	-	1.96	.31		"					
31	15	"	-	-	-	1.96	.31		"					
32	22	"	-	-	-	1.85	.10		"					
33	29	"	-	-	-	1.83	.07		"					
34	8/4	"	-	-	-	1.81	.02		"					
35	11	"	-	-	-	1.76	Dry		"					

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 112

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of MILL CREEK .6 miles above junction with Big Tujunga Creek for the Year Ending September 30, 1932

Drainage Area 21.1 Square Miles. [J.L.IRWIN-T.E. MOON Observer.]

Gage Read Continuous

Used rating table dated 10-1-32 to 9-30-32

Maximum stage 4.50 feet at 9:00 AM on 2-9-32 Discharge 512.00 second-feet.
Minimum stage Dry at feet at various times during year Discharge second-feet.
Dry during part of year
Adjustment curve used on gage heights
Interpolated Gage Heights from Feb. 10 to March 3

DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1					1.89	.16	1.98	.56	1.95	.42	2.51	8.17
2					1.88	.15	1.97	.51	1.98	.56	2.41	6.42
3					1.88	.15	1.97	.51	2.02	.83	2.39	6.08
4					1.89	.16	1.96	.46	2.06	1.19	2.37	5.74
5					1.89	.16	1.94	.37	2.08	1.37	2.36	5.57
6					1.89	.16	1.94	.37	2.07	1.28	2.35	5.40
7					1.90	.18	1.94	.37	2.17	2.60	2.35	5.40
8					1.89	.16	1.93	.32	H	139.3	2.34	5.23
9					1.92	.27	1.93	.32	H	291.4	2.34	5.23
10					1.91	.23	1.93	.32	3.50	71.00	2.32	4.89
11					1.91	.23	1.93	.32	3.36	56.00	2.29	4.40
12				DRY	1.91	.23	1.94	.37	3.22	43.20	2.27	4.10
13					1.92	.27	1.96	.46	3.09	32.90	2.26	3.95
14		DRY			1.91	.23	1.95	.42	2.96	25.50	2.25	3.80
15			1.86	.12	1.92	.27	1.95	.42	2.83	19.00	2.22	3.35
16			1.80	.02	1.92	.27	1.95	.42	2.70	13.50	2.20	3.05
17			1.80	.02	1.92	.27	1.95	.42	2.57	9.49	2.18	2.75
18			1.80	.02	1.91	.23	1.95	.42	2.56	9.27	2.18	2.75
19			1.81	.04	1.91	.23	1.95	.42	2.56	9.27	2.19	2.90
20			1.83	.07	1.91	.23	1.94	.37	2.56	9.27	2.19	2.90
21			1.81	.04	1.91	.23	1.92	.27	5.56	9.27	2.20	3.05
22			1.82	.05	1.89	.16	1.92	.27	2.56	9.27	2.20	3.05
23			1.84	.08	1.89	.16	1.92	.27	2.58	9.71	2.19	2.90
24			1.84	.08	1.91	.23	1.94	.37	2.59	9.93	2.19	2.90
25			1.86	.12	1.99	.60	1.94	.37	2.61	10.49	2.18	2.75
26			1.85	.10	1.94	.37	1.92	.27	2.62	10.82	2.17	2.60
27			1.90	.18	1.95	.42	1.92	.27	2.62	10.82	2.15	2.30
28			1.85	.10	H	3.21	1.94	.37	2.62	10.82	2.13	2.00
29			1.88	.15	2.08	1.37	1.94	.37	2.72	14.30	2.13	2.00
30			1.88	.15	2.03	.92	1.92	.27	-	-	2.11	1.70
31					2.00	.65	1.91	.23	-	-	2.11	1.70
TOTAL		Dry		1.34		12.56		11.48		832.81		119.03
Mean Daily Discharge in Second-feet				.04		.41		.37		28.72		3.84
Second-feet per square mile				.002		.019		.018		1.359		.182
Run-off, depth in inches												
Run-off in acre-feet		Dry		2.66		24.91		22.76		1651.46		236.04
Maximum Mean Daily Discharge in Second-feet		"		18		3.21		.56		291.42		8.17
Minimum Mean Daily Discharge in Second-feet		"		Dry		.15		.23		.42		1.70

DAY	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	2.12	1.85	2.12	1.85	2.05	1.10	1.97	.51	1.82	.05		
2	2.12	1.85	2.11	1.70	2.05	1.10	1.96	.46	1.81	.04		
3	2.13	2.00	2.10	1.55	2.10	1.55	1.96	.46	1.80	.02		
4	2.14	2.15	2.10	1.55	2.07	1.28	1.96	.46	1.79	.01		
5	2.13	2.00	2.10	1.55	2.07	1.28	1.97	.51	1.78	Dry		
6	2.14	2.15	2.12	1.85	2.06	1.19	1.96	.46				
7	2.13	2.00	2.11	1.70	2.07	1.28	1.94	.37				
8	2.13	2.00	2.11	1.70	2.07	1.28	1.92	.27				
9	2.13	2.00	2.11	1.70	2.06	1.19	1.92	.27				
10	2.12	1.85	2.09	1.46	2.05	1.10	1.92	.27				
11	2.12	1.85	2.09	1.46	2.05	1.10	1.92	.27				
12	2.11	1.70	2.08	1.37	2.04	1.01	1.93	.32				
13	2.11	1.70	2.07	1.28	2.03	.92	1.93	.32				
14	2.10	1.55	2.06	1.19	2.02	.83	1.93	.32		DRY		Dry
15	2.10	1.55	2.06	1.19	2.01	.74	1.93	.32				
16	2.10	1.35	2.06	1.19	2.00	.65	1.88	.15				
17	2.08	1.37	2.04	1.01	1.99	.60	1.87	.13				
18	2.08	1.37	2.04	1.01	1.98	.56	1.87	.13				
19	2.08	1.37	2.04	1.01	1.97	.51	1.87	.13				
20	2.08	1.37	2.03	.92	1.96	.46	1.88	.15				
21	2.09	1.46	2.05	1.10	1.97	.51	1.87	.13				
22	2.10	1.55	2.07	1.28	1.97	.51	1.86	.12				
23	2.10	1.55	2.06	1.19	1.96	.46	1.86	.12				
24	2.12	1.85	2.06	1.19	1.96	.46	1.85	.10				
25	2.14	2.15	2.05	1.10	1.97	.51	1.84	.08				
26	2.16	2.45	2.05	1.10	1.97	.51	1.83	.07				
27	2.15	2.30	2.05	1.10	1.97	.51	1.83	.07				
28	2.14	2.15	2.04	1.01	1.97	.51	1.83	.07				
29	2.14	2.15	2.05	1.10	1.98	.56	1.83	.07				
30	2.14	2.15	2.05	1.10	1.98	.56	1.82	.05				
31	-	-	2.05	1.10	-	-	1.82	.05			-	-
TOTAL		54.99		40.61		24.83		7.21		.12		
Mean Daily Discharge in Second-feet		1.83		1.31		.83		.23		.004		
Second-feet per square mile		.087		.062		.039		.011		0		
Run-off, depth in inches												
Run-off in acre-feet		109.05		80.53		49.24		14.30		.24		
Maximum Mean Daily Discharge in Second-feet		2.45		1.85		1.55		.51		.05		
Minimum Mean Daily Discharge in Second-feet		1.37		.92		.46		.05		Dry		

PERIOD YEAR: Run-off in acre-feet 2191.19

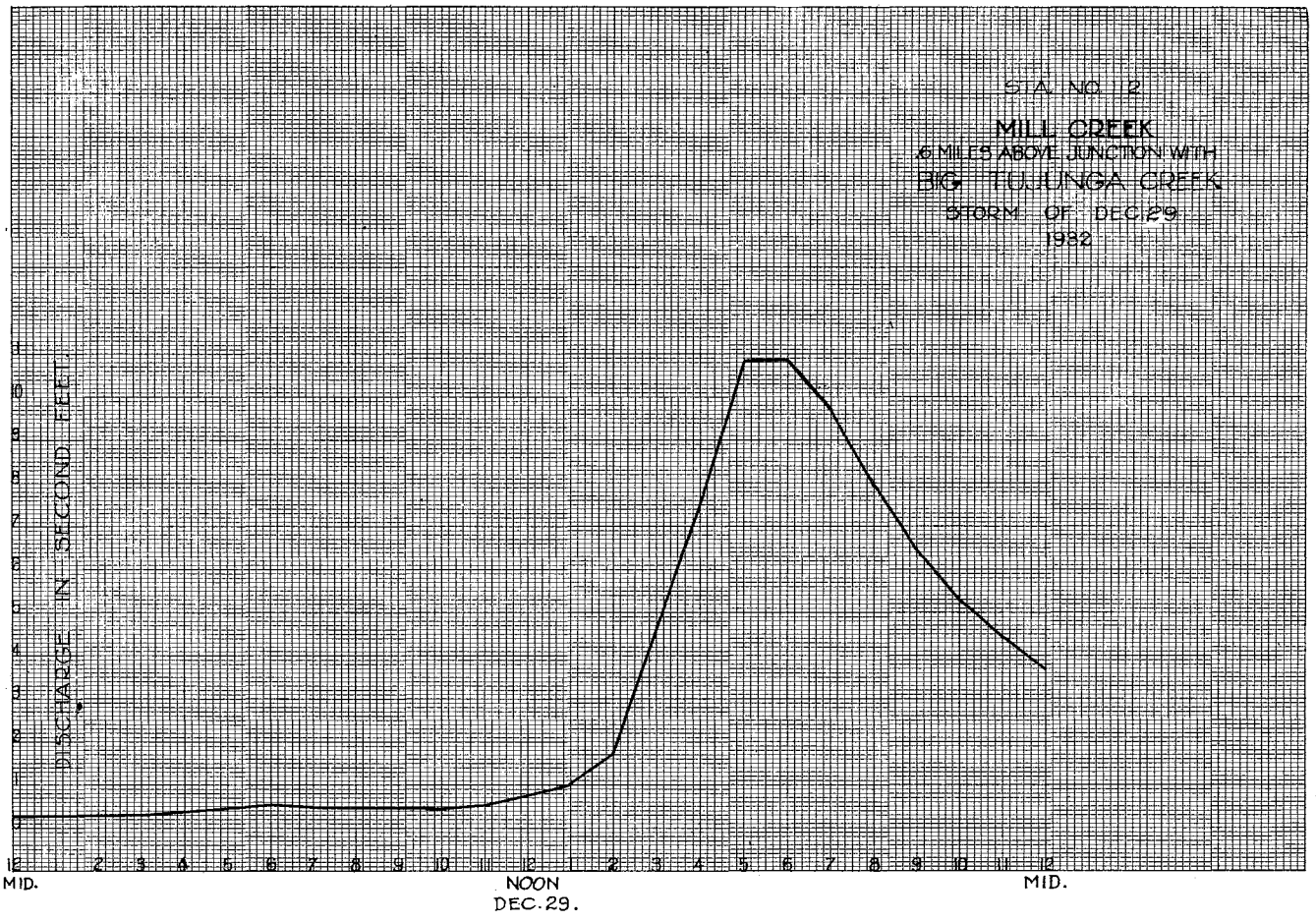
Quarter: First, Second, Third, Fourth — Computed JLI JLI JLI JLI; Checked HAV. Quarter: First, Second, Third, Fourth — JLI JLI JLI JLI; HAV. Quarter: Disch. applied, Disch. checked, Date. Quarter: G. H. copied JLI JLI JLI JLI; G. H. checked, Date.

STA. NO. 112

MILL CREEK

.6 MILES ABOVE JUNCTION WITH BIG TUJUNGA CREEK

STORM OF DEC. 29 1932

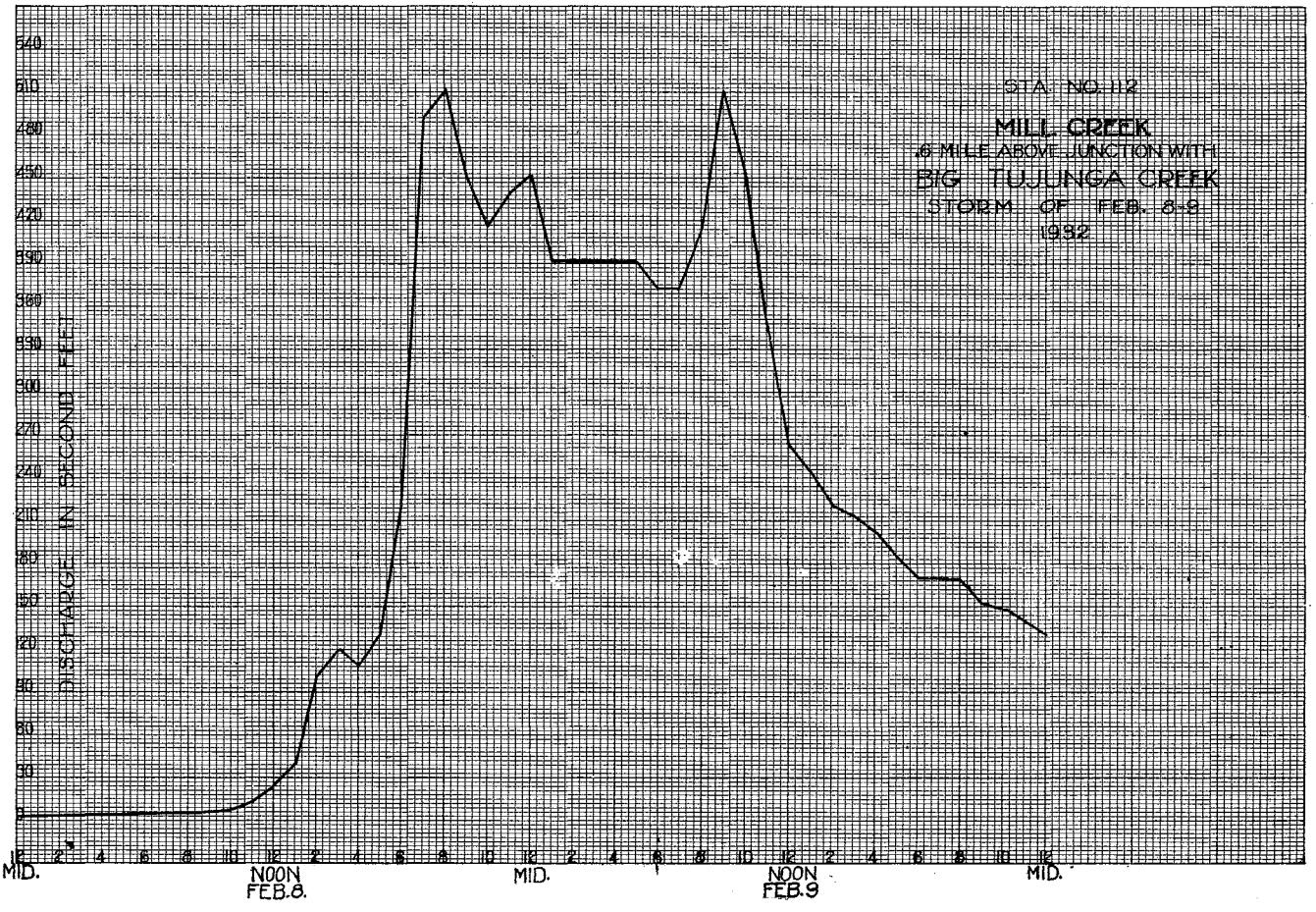


STA. NO. 112

MILL CREEK

.6 MILE ABOVE JUNCTION WITH BIG TUJUNGA CREEK

STORM OF FEB. 8-9 1932



F-22 R

MONROVIA CANYON CREEK - ABOVE JUNCTION WITH SAWPIT CREEK

Location
In Monrovia Cn. 150' above junction with Sawpit Creek, about 3 miles northeast of town of Monrovia, Los Angeles County, California.

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 November 10, 1927 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
Staff gage installed on rubble masonry recorder house. An continuous water stage recorder, installed in Rubble masonry house on south side of creek.

Discharge measurements
Low water measurements made by wading near gage and by weir. High water measurements made from bridge installed at gage.

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

Extremes of Discharge
1927-1928
Maximum-.84 c.f.s. February 4, 1928
Minimum-.05 c.f.s. July 30-31, 1928
1928-1929
Maximum-7.08 c.f.s. March 10, 1929
Minimum-.02 c.f.s. at various times during year.
1929-1930
Maximum-5.86 c.f.s. January 15, 1930
Minimum-Dry at various times during year.

F-22 R

Extrmes of Discharge (Cont.)
1930-1931
Maximum-13.26 c.f.s. April 26, 1931
Minimum-Dry September 19 to 30, 1931.
1931-1932
Maximum-24. c.f.s. Feb. 9, 1932
Minimum.005 c.f.s. at various times during year.

Diversions
Monrovia Pipe line diverts water above gage

Regulation
None

Accuracy
Good for low flows.

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

F. C. Dist. Form 104 BM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Discharge measurements of Monrovia Creek

at 200Ft. above Junction with Sawpit Ck., during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-11	Lindsay	.5	.05	1.46	.08	.07	.6			1			888 885
2	12-21	"	.5	.06	1.06	.08	.06	.6			1			"
3	12-26	"	1.2	.16	1.62	.16	.26	.6			2			"
4	12-28	Lindsay-Cole	1.5	.24	2.04	.23	.49	.6			3		1/12	"
5	12-28	" "	6.0	4.49	2.74	1.16	12.30	.6			6		1/6	"
6	12-29	" "	5.0	1.47	1.46	.47	2.15	.6			5		1/4	"
7	12-31	Cole	2.7	.28	1.05	.16	.29	.6			5		1/6	871 555
8	1-22 1932	Lindsay				.08	.08	Weir						
9	1-28	"				.09	.10	"						
10	2-1	Lindsay-Cole				.66	3.37	"						
11	2-5	Harting	2.0	.57	1.00	.28	.57	.6			4		1/6	871 555
12	2-8	Lindsay				.47	1.97	Weir						
13	2-10	"	5.9	4.01	2.04	1.16	8.17	.6			6		"	888 885
14	2-12	Cole	5.5	2.54	1.58	.90	3.51	.6			5		"	"
15	2-16	Lindsay-Cole				.26	.74	Weir						
16	2-19	Lindsay				.28	.84	Weir						
17	2-25	"				.12	.18	Weir						
18	3-3	"				.11	.15	Weir						
19	3-10	"				.10	.12	Weir						
20	3-18	"				.10	.12	Weir						
21	3-24	"				.09	.10	Weir						
22	3-31	"				.08	.08	Weir						
23	4-7	"				.06	.04	Weir						
24	4-15	"				.07	.05	Weir						
25	4-21	"				.06	.05	Weir						
26	4-28	"				.07	.05	Weir						
27	5-5	"				.07	.05	Weir						
28	5-12	"				.06	.04	Weir						

F. C. Dist. Form 104 BM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

Discharge measurements of Monrovia Creek

at 200ft. above Junction with Sawpit Ck., during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	5-19	Lindsay				.06	.04		Weir					
30	5-27	"				.06	.04		Weir					
31	6-3	"				.06	.04		Weir					
32	6-10	"				.05	.02		Weir					
33	6-17	"				.06	.04		Weir					
34	6-24	"				.05	.02		Weir					
35	7-1	"				.04	.01		Weir					
36	7-9	"				.04	.01		Weir					
37	7-15	"				.04	.01		Weir					
38	7-22	"				.04	.01		Weir					
39	7-29	"				.035	.005		Weir					
40	8-5	"				.035	.005		Weir					
41	8-12	"				.04	.01		Weir					
42	8-8	"				.04	.005		Weir					
43	9-16	"				.04	.01		Weir					
44	9-23	"				.04	.01		Weir					
45	9-30	"				.04	.01		Weir					

F.C. Dist.—Form 105—1000—9 ...

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 22

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

At / Near Above Sawpit Creek for the Year Ending September 30, 19 32

Drainage Area 1.90 Square Miles. [Richard Lindsay Observer.] Gage Read Continuous Used rating table dated

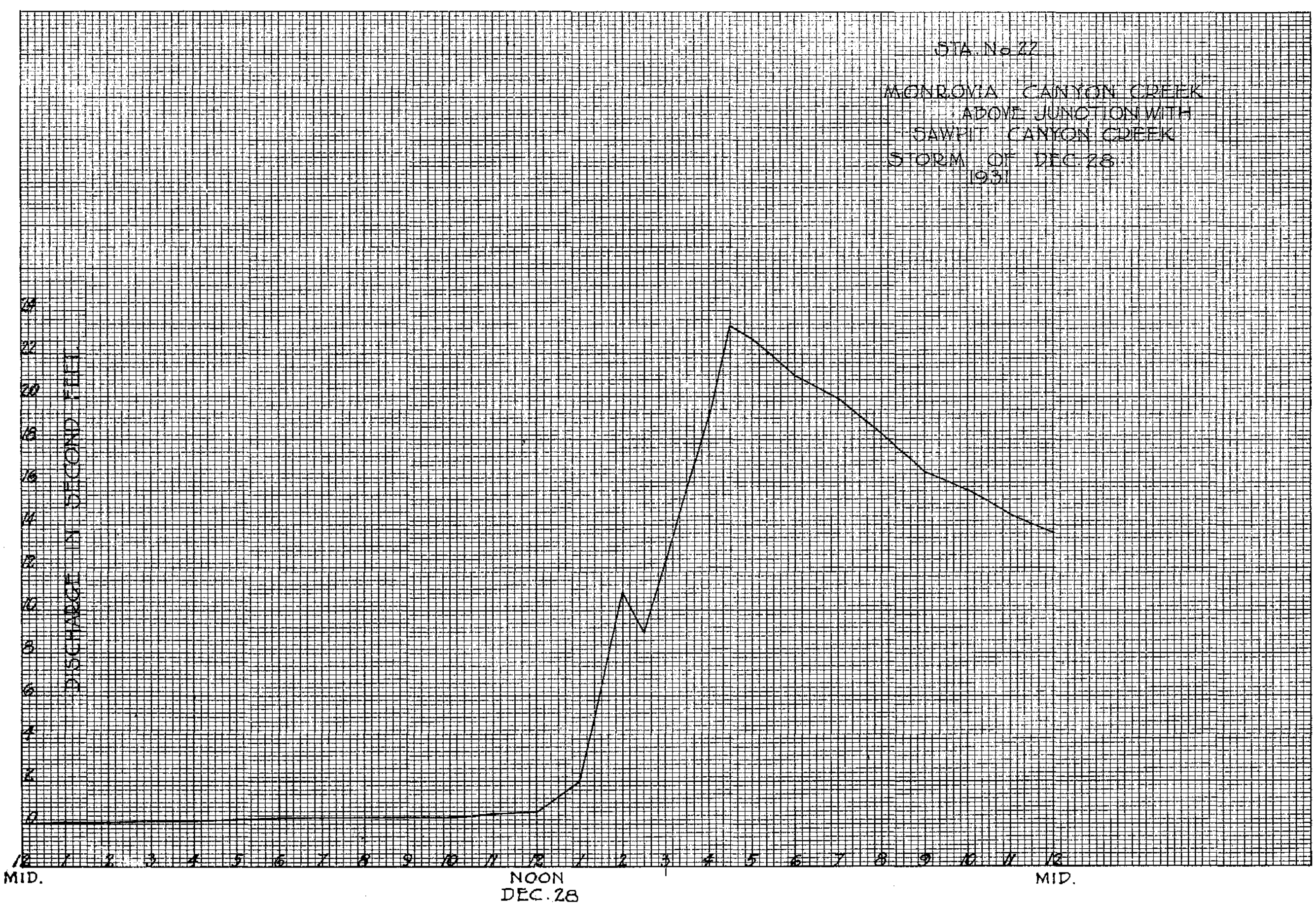
Maximum stage 1.57 feet at 8:30 AM on 2-9-32 Discharge 24.16 second-feet.

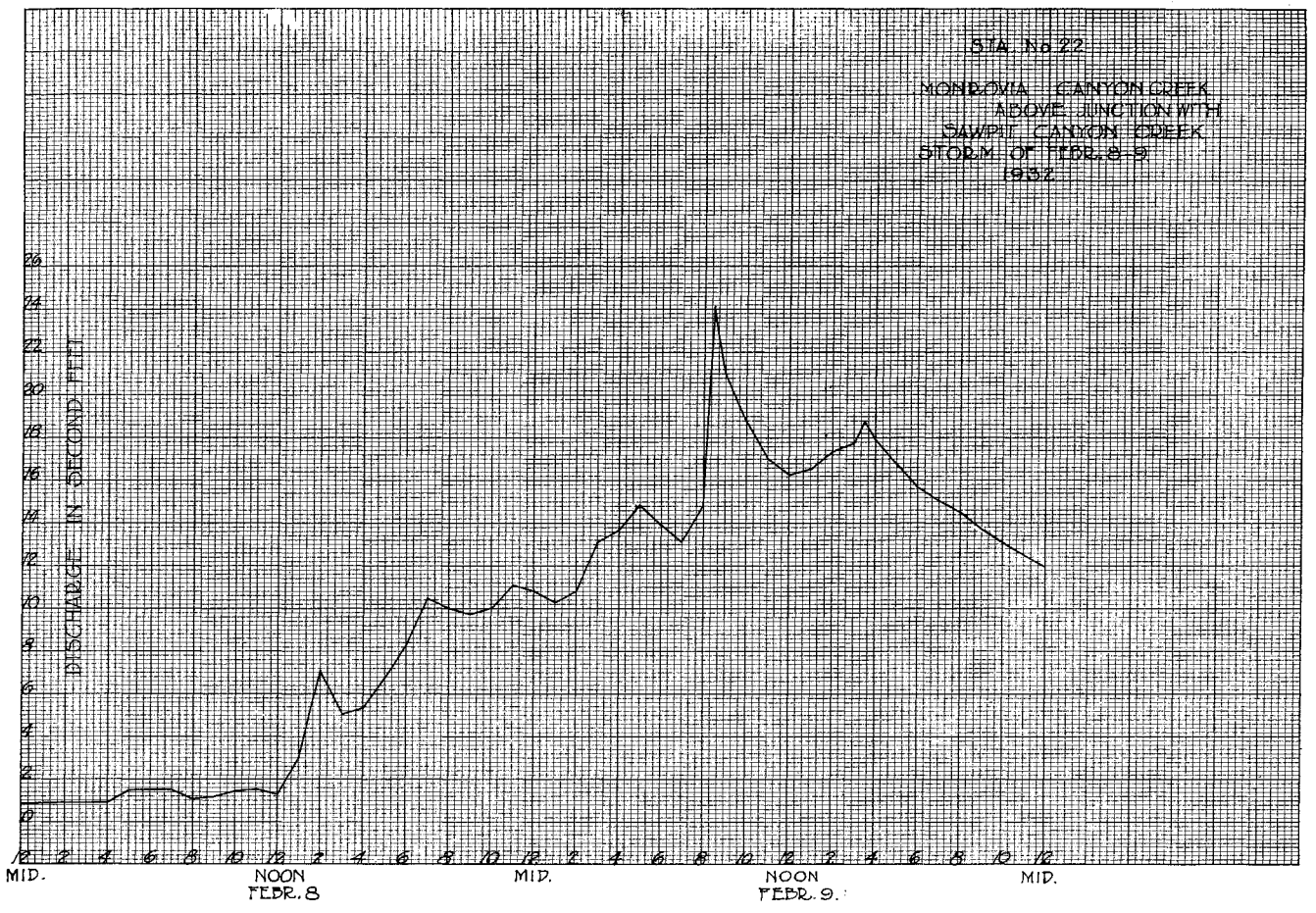
Minimum stage .035 feet at ... on 7-29-32 & 8-10-32 Discharge .005 second-feet.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	.04	Est. .01	.04	Est. .01	.06	Est. .04	.20	.42	Hydro	5.63	.12	.16
2	.04	.01	.04	.01	.06	.04	.14	.22	.64	3.19	.12	.16
3	.04	.01	.04	.01	.06	.04	.12	.16	.45	1.75	.12	.16
4	.04	.01	.04	.01	.06	.04	.12	.16	.29	.83	.12	.16
5	.04	.01	.03	.01	.06	.04	.11	.13	.23	.54	.11	.13
6	.04	.01	.04	.01	.07	.06	.11	.13	.22	.50	.11	.13
7	.04	.01	.04	.01	.07	.06	.10	.10	.28	.78	.11	.13
8	.04	.01	.04	.01	.10	.10	.10	.10	Hydro	4.47	.11	.13
9	.04	.01	.04	.01	.11	.13	.10	.10	Hydro	14.48	.11	.13
10	.04	.01	.04	.01	.12	.16	.10	.10	1.01	8.56	.11	.13
11	.04	.01	.04	.01	.08	.08	.09	.10	.84	5.48	.11	.13
12	.04	.01	.04	.01	.09	.10	.09	.10	.69	3.67	.11	.13
13	.04	.01	.04	.01	.10	.10	.08	.08	.64	3.19	.10	.10
14	.04	.01	.04	.01	.11	.13	.08	.08	.55	2.46	.10	.10
15	.04	.01	.05	.02	.09	.10	.08	.08	.45	1.75	.10	.10
16	.04	.01	.05	.02	.09	.10	.08	.08	.39	1.37	.12	.16
17	.04	.01	.05	.02	.08	.08	.08	.08	.39	1.37	.17	.32
18	.04	.01	.05	.02	.08	.08	.07	.06	.36	1.20	.17	.32
19	.04	.01	.05	.02	.08	.08	.07	.06	.28	.78	.17	.32
20	.04	.01	.05	.02	.08	.08	.07	.06	.28	.78	.10	.10
21	.04	.01	.05	.02	.08	.08	.07	.06	.20	.42	.10	.10
22	.04	.01	.05	.02	.09	.10	.07	.06	.17	.32	.10	.10
23	.04	.01	.05	.02	.10	.10	.07	.06	.16	.28	.10	.10
24	.04	.01	.05	.02	.10	.10	.07	.06	.14	.22	.10	.10
25	.04	.01	.05	.02	.13	.19	.07	.06	.13	.19	.09	.10
26	.04	.01	.05	.02	.15	.25	.07	.06	.13	.19	.09	.10
27	.04	.01	.07	.06	.11	.13	.07	.06	.13	.19	.09	.10
28	.04	.01	.06	.04	Hydro	6.95	.08	.08	.12	.16	.09	.10
29	.04	.01	.05	.02	.62	3.02	.08	.08	.12	.16	.09	.10
30	.04	.01	.05	.02	.30	.88	.08	.08	-	-	.09	.10
31	.04	.01	-	-	.21	.46	Hydro	1.54	-	-	.09	.10
TOTAL,		.31		.52		13.90		4.60		64.91		4.30
Mean Daily Discharge in Second-feet		.01		.017		.4483		.1483		2.2382		.1387
Second-feet per square mile						0.0236		.0078		1.1778		0.0073
Run-off, depth in inches												
Run-off in acre-feet		.62		1.01		27.56		9.12		128.70		8.526
Maximum Mean Daily Discharge in Second-feet		.01		.06		6.95		1.54		14.48		.32
Minimum Mean Daily Discharge in Second-feet		.01		.01		.04		.06		.16		.10

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Day	Period Year
1	.09	.10	.07	.05	.06	.04	.04	.01	.035	.005	.04	.01	1	
2	.09	.10	.07	.05	.06	.04	.04	.01	.035	.005		.01	2	
3	.08	.08	.07	.05	.06	.04	.04	.01	.035	.005		.01	3	
4	.08	.08	.07	.05	.06	.04	.04	.01	.035	.005		.01	4	
5	.07	.05	.07	.05	.06	.04	.04	.01	.035	.005		.01	5	
6	.07	.05	.07	.05	.05	.02	.04	.01	.035	.005		.01	6	
7	.06	.04	.07	.05	.05	.02	.04	.01	.035	.005		.01	7	
8	.06	.04	.07	.05	.05	.02	.04	.01	.035	.005		.01	8	
9	.06	.04	.06	.04	.05	.02	.04	.01	.035	.005		.01	9	
10	.06	.04	.06	.04	.05	.02	.04	.01	.035	.005		.01	10	
11	.06	.04	.06	.04	.05	.02	.04	.01	.035	.005		.01	11	
12	.06	.04	.06	.04	.05	.02	.04	.01	.04	.01		.01	12	
13	.06	.04	.06	.04	.06	.04	.04	.01		.01		.01	13	
14	.06	.04	.06	.04	.06	.04	.04	.01		.01		.01	14	
15	.07	.05	.06	.04	.06	.04	.04	.01		.01		.01	15	
16	.07	.05	.06	.04	.06	.04	.04	.01		.01		.01	16	
17	.07	.05	.06	.04	.06	.04	.04	.01		.01		.01	17	
18	.07	.05	.06	.04	.06	.04	.04	.01		.01		.01	18	
19	.07	.05	.06	.04	.06	.04	.04	.01		.01		.01	19	
20	.07	.05	.06	.04	.05	.02	.04	.01		.01		.01	20	
21	.06	.04	.06	.04	.05	.02	.04	.01		.01		.01	21	
22	.06	.04	.06	.04	.05	.02	.04	.01		.01		.01	22	
23	.06	.04	.06	.04	.05	.02	.04	.01		.01		.01	23	
24	.06	.04	.06	.04	.05	.02	.04	.01		.01		.01	24	
25	.06	.04	.06	.04	.04	.01	.04	.005		.01		.01	25	
26	.07	.05	.06	.04	.04	.01	.04	.005		.01		.01	26	
27	.07	.05	.06	.04	.04	.01	.04	.005		.01		.01	27	
28	.07	.05	.06	.04	.04	.01	.04	.005		.01		.01	28	
29	.07	.05	.06	.04	.04	.01	.04	.005		.01		.01	29	
30	.07	.05	.06	.04	.04	.01	.04	.005		.01	.04	.01	30	
31	—	—	.06	.04	-	-	.04	.005	.04	.01	-	-	31	
TOTAL,		1.53		1.32		.78		.275		.26		.30		
Mean Daily Discharge in Second-feet		.051		.043		.026		.009		.009		.01		
Second-feet per square mile		0.00027												
Run-off, depth in inches														
Run-off in acre-feet		3.04		2.62		1.55		.545		.52		.60		184.42
Maximum Mean Daily Discharge in Second-feet		.10		.05		.04		.01		.01		.01		
Minimum Mean Daily Discharge in Second-feet		.04		.04		.01		.005		.005		.01		

Quarter	G. H. copied	G. H. checked	Disch. applied	Disch. checked	Date
First	ASH		ASH		
Second	ASH		ASH	RHL	1/11/33
Third	RL		RL		
Fourth	RL		RL		
First	ASH		ASH		
Second	ASH		ASH	RHL	1/11/33
Third	RL		RL		
Fourth	RL		RL		





F-181 R

MONTEBELLO STORM DRAIN OUTLET INTO RIO HONDO
AT MINES AVENUE

Location
On south wing wall of storm drain outlet 200 feet east of Mines Avenue and 220' west of west bank of the Rio Hondo at Montebello, Los Angeles County, California.

Drainage Area
9.6 square miles.

Installed by
The Los Angeles County Flood Control District January 12, 1932.

Recorder Available
January 12, 1932 to September 30, 1932 at the offices of the Los Angeles County Flood Control District. Los Angeles, California.

Gage
Stevens type L 8 day water stage recorder installed in small house on top of corrugated iron pipe stilling well fastened to south wing wall of storm drain outlet.

Discharge Measurements
High flows measured at gaging bridge 75' below gage.
Low flows measured by wading, near gage.

Channel
Concrete apron with drop below gage.
Low flows controlled by drop.

Extremes of Discharge
1931-1932
Maximum- 531. Jan. 31, 1932
Minimum- Dry at various times of year

Regulation
None

Accuracy
Good for low water

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

F. C. Dist. Form 104 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 181

Discharge measurements of Montebello Storm Drain

at ~~XXXXX~~ Outlet into Rio Hondo at Mines Ave., during the year ending September 30, 19 32

No.	Date	Made by		Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	C. ft. change	Time	Meter No.
	1931			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-28	Jordan-Stoner		23.3	56.1	1.48	–	83.4		.6		12		½	371 636
2	1932 1-13	" "		18.	2.14	.78	0.01	1.67		.6		6		1/6	271 606
3	1-15	Seal		17.	34.19	1.07	.39	36.56		.6		9		½	271 640
4	1-31	Seal		17.	33.24	0.96	0.335	31.9		.6		10		1/6	12 12
5	1-31	Seal		19.	42.28	2.35	0.80	99.18		.6		10		4/15	FC 12
6	2-2	Smith-Robinson	+	11.	1.70	1.08	–	1.83		.6		6		1/6	5
7	2-2	" "	+	9.	1.30	0.96	–	1.25		.6		6		1/12	5
8	2-3	" "	+	7.	0.63	0.75	–	0.47		.6		5		1/12	5
9	2-3	" "	+	8.	0.65	0.89	–	0.58		.6		5		1/6	5
10	2-8	Jordan-Stoner		35.	98.7	3.94	1.7	372.0		.6		9		½	217 636
11	2-10	Seal-Cooper		26.	67.09	.80	.48	40.56		.6		11		5/12	FC 12
12	5-20	Hardgrove					.21	0.05		Weir					

+ Meas. made by Pasadena Water Department

L.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 181

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of MONTEBELLO STORM DRAIN

At MINES AVENUE for the Year Ending September 30, 1932 Since Jan. 12

Drainage Area .... Square Miles. [COOPER - SEAL Observer.] Gage Read Continuously Used rating table dated 1931-1932

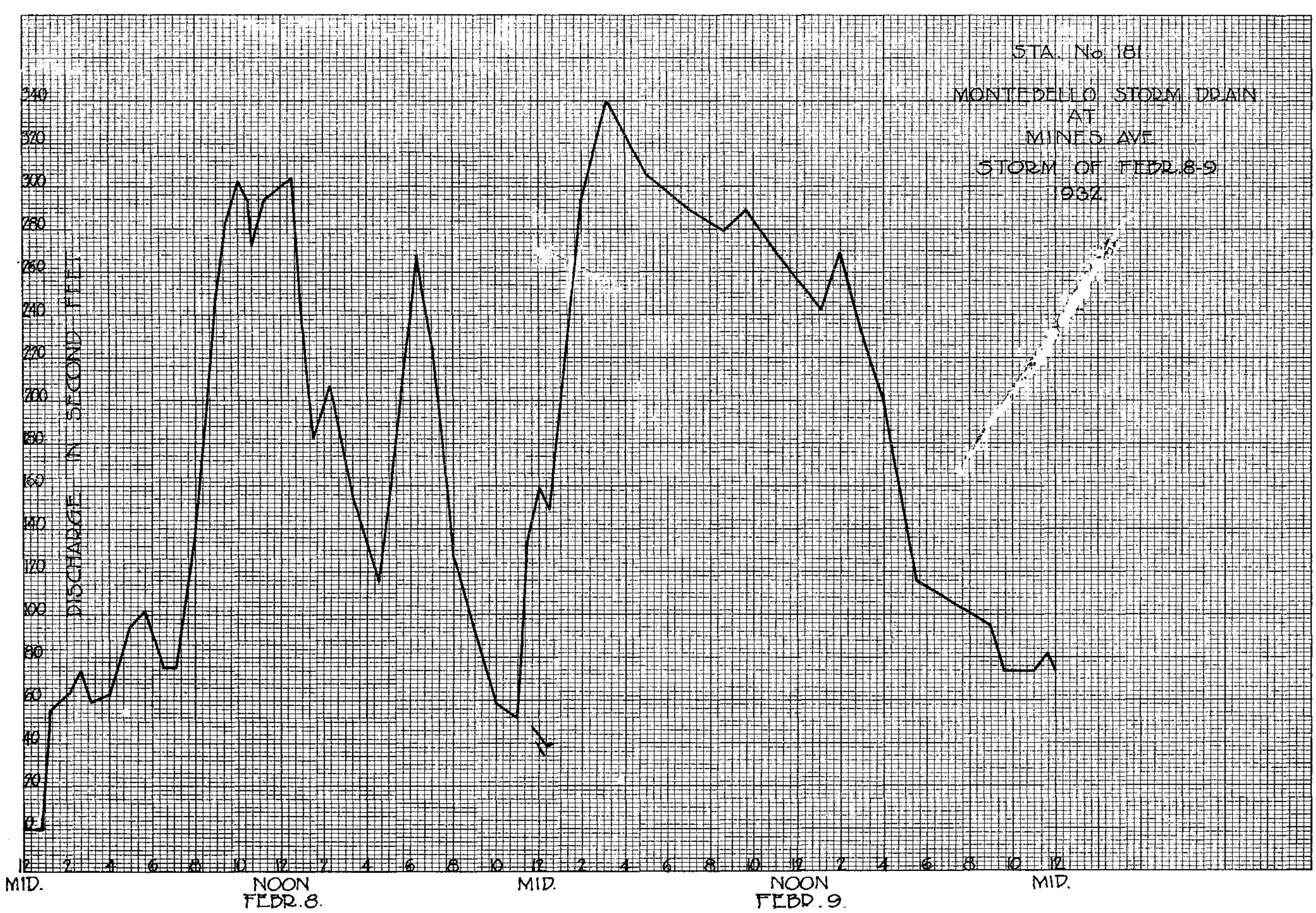
Maximum stage Since Jan. 12 2.93 feet at 9:40 PM on Jan. 31, Discharge 531.20 second-feet.
Minimum stage Dry feet at Various Times on ... Discharge Dry second-feet.
Dry at various times during the year.
Adjustments have been applied to all gage heights
Interpolated when flow was below gage board.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	DAY
1									H	44.84		0.44	1
2									0.05	0.58		0.44	2
3									0.02	0.06		0.43	3
4									Dry			0.43	4
5									"	DRY		0.43	5
6								NO RECORD	Dry			0.42	6
7									"			0.42	7
8									H	147.14		0.42	8
9									H	215.44		0.41	9
10									0.07	1.18		0.41	10
11									Dry			0.41	11
12							Recorder Installed		"	DRY		0.40	12
13							.08	1.56	"			0.40	13
14							.05	0.58	"			0.40	14
15							H	12.70	"			0.39	15
16							Dry		H	31.67	INTERPOLATED	0.39	16
17		NO RECORD		NO RECORD		NO RECORD	"		0.05	0.58		0.39	17
18							"		Est	0.50		0.38	18
19							"	DRY		0.49		0.38	19
20							"			0.49		0.38	20
21							"			0.48		0.37	21
22							"			0.48		0.37	22
23							"			0.47		0.37	23
24							"			0.47		0.36	24
25							"		INTERPOLATED	0.46		0.36	25
26							"			0.46		0.36	26
27							Est	1.00		0.45		0.35	27
28								1.00		0.45		0.35	28
29								1.00		0.45		0.35	29
30								1.00	-	-		0.34	30
31							H	77.14	-	-		0.34	31
TOTAL,								95.98		447.14		12.09	
Mean Daily Discharge in Second-feet								3.096		15.419		.39	
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet								190.33		886.68		23.97	
Maximum Mean Daily Discharge in Second-feet								77.14		215.44		0.44	
Minimum Mean Daily Discharge in Second-feet								0.00		0.00		0.34	

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1		0.34		0.18		0.01							1
2		0.33		0.17		0.01							2
3		0.33		0.16		0.01							3
4		0.33		0.16		0.01							4
5		0.32		0.15		0.01							5
6		0.32		0.14		0.01							6
7		0.32		0.14		0.01							7
8		0.31		0.13		0.01							8
9		0.31		0.12		0.01							9
10		0.31		0.12		0.01							10
11		0.30		0.11		0.01							11
12	Est	0.30		0.10		0.01							12
13		0.30		0.10		0.01		DRY					13
14		0.29		0.09		0.01							14
15		0.28		0.08		0.01							15
16		0.28		0.08		0.00							16
17		0.27		0.07		0.00			DRY			DRY	17
18	INTERPOLATED	0.26		0.06	INTERPOLATED	0.00							18
19		0.26		0.06		0.00							19
20		0.25	Meas	0.05		0.00							20
21		0.24		0.04		0.00							21
22		0.24		0.03		0.00							22
23		0.23		0.03		0.00							23
24		0.22		0.02		0.00							24
25		0.22		0.02		0.00							25
26		0.21		0.01		0.00							26
27		0.20	Est	0.01		0.00							27
28		0.20		0.01		0.00							28
29		0.19		0.01		0.00							29
30		0.18		0.01		0.00							30
31		-		0.01	-	-							31
TOTAL,		8.14		2.47		0.15		0		0		0	
Mean Daily Discharge in Second-feet		0.271		0.080		0.005							
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		16.14		4.90		.30							1,122.32 (inc)
Maximum Mean Daily Discharge in Second-feet		0.34		0.18		0.01							
Minimum Mean Daily Discharge in Second-feet		0.18		0.01		0.00							

Quarter	Days	G. H. copied	G. H. checked	Disch. applied	Disch. checked	Date
First	1–5					
Second	6–10					
Third	11–15			CES		10/17/32
Fourth	16–20			CES		
First	21–25	CES		CES		10/17/32
Second	26–31	CES		CES		

Computed / Checked / Date — PERIOD YEAR



#46

NIGGER SLOUGH AT WILMINGTON AVENUE

Location
On North bank of Slough about 50 feet above intersection of Wilmington Avenue and Wilmington Street 2 miles north of the City of Wilmington, Los Angeles County, California.

Drainage Area
66 square miles.

Installed by
Los Angeles County Flood Control District, November 1928. Recorder Installed January 14, 1930.

Records Available
November 24, 1928 to September 30, 1932 at office of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Rational, 7 day water stage recorder installed in small shelter house on top of a corrugated iron stilling well at upstream end of Culvert under road, north side of slough.

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

Channel and Control
Channel in clay
No control

Extremes of Discharge
1928-1939
Maximum-4.96 c.f.s. March 15, 1929
Minimum-0.79 c.f.s. December 22, 1928
1929-1930
Maximum-42.47 c.f.s. March 17, 1930
Minimum-3.07 c.f.s. April 26, 1930
1930-1931
Maximum-15.16 c.f.s. April 26, 1931
Minimum-.77 c.f.s. January 23, 1931
1931-1932
Maximum-470 c.f.s. Feb. 10, 1932
Minimum-1.00 c.f.s. Dec. 13, 1931

#46

Diversions
None

Regulation
None

Accuracy
Poor, due to inflow from sewer below station backing up water at gage and water from refineries and oil fields depositing the residue from oil.

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

F. C. Dist. Form 184 III 12-31

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, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-2	Seal	7.0	5.60	.54	1.51	1.92		.6		7		1/5	282 962
2	10-9	"	7.0	5.47	.37	1.47	1.98		.6		7		1/6	"
3	10-16	"	7.0	5.33	.46	1.49	2.46		.6		7		"	"
4	10-23	"	7.0	5.17	.37	1.52	1.91		.6		7	.01	1/5	"
5	10-30	"	7.0	5.03	.44	1.47	2.20		.6		7		1/6	"
6	11-6	"	7.0	5.03	.43	1.48	2.14		.6		7		1/7	"
7	11-13	"	7.0	5.44	.35	1.51	1.93		.6		7	.02	1/6	"
8	11-20	"	7.0	5.22	.41	1.46	2.15		.6		7	.01	1/4	"
9	11-27	"	7.6	6.75	.19	1.72	1.30		.6		7	.01	1/6	"
10	12-4	"	7.2	5.37	.31	1.50	1.69		.6		7		1/5	271 640
11	12-11	"	7.8	6.74	.15	1.70	1.05		.6		7		1/5	"
12	12-18	"	7.4	5.62	.28	1.53	1.60		.6		7		1/6	"
13	12-25	"	7.6	5.84	.27	1.58	1.58		.6		7		1/6	"
14	12-29	"	13.6	27.10	.86	3.89	23.20		.6		11	.02	1/2	"
15	1932 1-2	"	11.6	24.96	.89	3.40	22.27		.6		11		1/3	"
16	1-15	Seal-Cooper	9.2	16.00	.36	2.52	5.75		.6		9	.02	1/4	"
17	1-22	Cooper-Slaughter	8.8	12.03	.67	2.19	8.12		.6		9	.03	1/3	282 962
18	1-29	Cooper	7.6	9.64	.41	1.97	3.97		.6		9	.02	1/3	"
19	2-2	Seal	11.2	21.87	.68	3.17	14.93		.6		11		1/4	FC 12
20	2-5	Cooper	10.7	19.58	.76	2.97	14.95	Float			11		1/4	
21	2-5	"	10.7	19.58	.79	2.97	15.46		.6		11	.01	"	FC 25
22	2-10	Jordan	18.5	54.10	.86	5.39	46.86		.6		11	.1	1/4	
23	2-11		15.3	46.19	1.06	5.00	48.90		.6		15		1/3	FC 12
24	2-14	Cooper	13.0	31.80	1.16	4.04	36.96		.6		13		3/4	"
25	2-15	Slaughter	13.2	33.17	1.04	4.08	34.40		.6		13		2/3	FC 25
26	2-19	Cooper	18.5	54.35	.85	5.50	45.99		.6		10	.02	"	"
27	2-26	"	11.8	25.65	1.17	3.46	29.93		.6		12		1/2	"
28	3-4	"	9.2	13.72	.77	2.36	10.61		.6		9	.02	"	FC 12

F. C. Dist. Form 184 III 12-31

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, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	3-11	Cooper	7.5	8.46	.49	1.83	4.15		.6		8	.02	2/5	FC 12
30	3-25	"	7.0	6.38	.22	1.58	1.43		.6		8	.01	1/3	"
31	4-1	"	5.0	2.87	.69	1.58	1.97		Float		6		1/6	
32	4-8	"	5.5	2.79	.64	1.57	1.79		Float		6	.01	"	
33	4-15	Seal	7.0	6.58	.34	1.54	2.19		.6		7		"	FC 12
34	4-22		7.0	7.49	.29	1.75	2.15		.6		7		1/3	"
35	5-6		7.5	7.44	.31	1.67	2.32		.6		7		1/6	"
36	5-13	Cooper	5.3	2.99	.77	1.57	2.31		.6		9	.01	1/4	FC 25
37	5-20	Hardgrove	5.0	3.56	.62	1.63	2.19		.6		5		"	282 891
38	5-27	"	5.0	3.67	.57	1.64	2.04		.6		5		1/6	"
39	6-3	Rupart	5.4	3.00	.55	1.51	1.67		.6		6		"	271 647
40	6-10	"	5.2	3.26	.69	1.59	2.24		.6		6		"	"
41	6-17	"	5.2	2.74	.45	1.55	1.24		.6		6		1/4	"
42	6-24	"	5.5	3.22	.66	1.58	2.14		.6		6		1/6	"
43	7-1	"	5.5	3.36	.69	1.59	2.33		.6		6		1/6	"
44	7-8	Hardgrove	5.0	3.53	.64	1.59	2.24		.6		5		"	282 891
45	7-15	"	5.0	3.64	.64	1.60	2.32		.6		5		1/10	"
46	7-22	"	5.0	3.51	.71	1.60	2.51		.6		5		"	"
47	7-28	"	5.0	3.75	.60	1.66	2.25		.6		5		"	"
48	8-5	"	5.0	4.27	.72	1.76	3.06		.6		5		1/6	"
49	8-11	"	5.0	4.40	.74	1.74	3.28		.6		5		1/10	"
50	8-18	"	5.0	3.77	.58	1.63	2.17		.6		5		1/6	"
51	8-25	"	5.0	4.34	.62	1.66	2.67		.6		5		1/10	"
52	9-2	"	5.0	3.78	.54	1.76	2.03		.6		5		1/6	"
53	9-7	"	5.0	3.77	.87	1.95	3.27		.6		5		1/10	"
54	9-15	Jordan	5.8	4.32	.60	1.76	2.57		.6		7		1/3	FC 25
55	9-22	"	5.7	3.81	.63	1.72	2.39		.6		6	.02	1/6	"
56	9-29	Slaughter	4.8	3.04	.61	1.63	1.85		.6		5	.01	1/4	FC 6

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

At/Near WILMINGTON AVENUE for the Year Ending September 30, 19 32

Drainage Area 66.50 Square Miles. [Seal, Hardgrove, Rupert, Slaughter, Cooper Observer.]

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 46

Gage Read ...... Used rating table dated ......

Maximum stage 5.45 feet at 10 AM on Feb. ., 1932 Discharge 47.00 second-feet.
Minimum stage ... feet at ... on Dec. .., 1931 Discharge 1.90 second-feet.

Due to backwater from sewer outlet, flow was interpolated from measurements except Hydrographs

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1		1.92		2.20		1.60		22.5		8.00		19.00	1	M	1.97		2.25		1.70	M	2.33		2.65		2.10	1
2	M	1.92		2.18		1.65	M	22.3	M	14.90		16.00	2		1.94		2.27		1.67		2.32		2.75	M	2.03	2
3		1.92		2.16		1.65		20.0		14.90		14.00	3		1.90		2.28	M	1.67		2.31		2.85		2.35	3
4		1.94		2.16	M	1.69		18.0		14.90		12.00	4		1.86		2.30		1.70		2.30		2.95		2.65	4
5		1.95		2.14		1.70		16.0	M	15.20	M	10.61	5		1.84		2.32		1.80		2.29	M	3.06		2.90	5
6		1.96	M	2.14		1.70		15.0		15.50		8.50	6		1.82	M	2.32		1.90		2.27		3.09		3.15	6
7		1.97		2.10		1.70		13.00		15.50		7.00	7		1.80		2.32		2.00		2.25		3.12	M	3.27	7
8		1.98		2.05	H	2.50		12.00	H	19.00		6.00	8	M	1.79		2.32		2.10	M	2.24		3.15		3.20	8
9	M	1.98		2.00	H	6.10		11.00	H	40.00		5.25	9		1.85		2.32		2.20		2.25		3.18		3.15	9
10		2.00		2.00	H	2.55		10.00	M	46.90		4.50	10		1.90		2.31	M	2.24		2.26		3.23		3.05	10
11		2.00		1.95	M	1.03		9.00	M	48.9	M	4.15	11		1.95		2.31		2.00		2.27	M	3.28		2.95	11
12		2.00		1.95		1.00		8.00		44.00		3.75	12		2.00		2.31		1.85		2.28		3.00		2.85	12
13		2.20	M	1.93		1.00		7.00		40.00		3.50	13		2.06	M	2.31		1.70		2.29		2.80		2.75	13
14		2.30		1.95	H	5.40		6.00	M	37.00		3.25	14		2.12		2.31		1.55		2.30		2.70		2.65	14
15		2.40		1.95	H	5.80	M	5.75	M	34.40		3.00	15	M	2.19		2.31		1.40	M	2.32		2.60	M	2.57	15
16	M	2.46		2.00		1.60		6.00		37.00		2.75	16		2.19		2.29		1.30		2.35		2.50		2.54	16
17		2.46		2.05		1.60		6.30		40.00		2.50	17		2.18		2.27	M	1.24		2.38		2.40		2.51	17
18		2.40		2.10	M	1.60		6.60		43.00		2.25	18		2.18		2.25		1.40		2.41	M	2.17		2.48	18
19		2.30		2.15		1.60		7.00	M	46.00		2.00	19		2.17		2.22		1.55		2.44		2.27		2.45	19
20		2.20	M	2.15		1.60		7.40		43.00		1.90	20		2.16	M	2.19		1.70		2.47		2.37		2.42	20
21		2.10		2.15	H	5.70		7.75		40.00		1.80	21		2.16		2.16		1.85		2.49		2.47		2.40	21
22		2.00		2.15	H	5.20	M	8.12		37.00		1.70	22	M	2.15		2.14		2.00	M	2.51		2.57	M	2.39	22
23	M	1.91		2.00	M	1.58		7.75		35.00		1.60	23		2.15		2.12		2.05		2.47		2.67		2.30	23
24		1.95		2.00				7.00		33.00		1.50	24		2.16		2.10	M	2.14		2.43		2.67		2.22	24
25		2.00		1.75	H	4.50		6.25		31.00	M	1.43	25		2.17		2.07		2.17		2.39	M	2.67		2.15	25
26		2.05		1.50	H	4.20		5.50	M	29.90		1.50	26		2.18		2.05		2.20		2.35		2.60		2.07	26
27		2.10	M	1.30	H	2.00		5.00		28.00		1.60	27		2.19	M	2.04		2.23		2.30		2.50		2.00	27
28		2.15		1.50	H	13.00		4.50		25.00		1.70	28		2.20		2.00		2.26	M	2.25		2.40		1.93	28
29		2.20		1.55	M	23.2	M	3.97		22.00		1.80	29		2.21		1.90		2.29		2.35		2.30	M	1.85	29
30	M	2.20		1.60		23.0		4.00	–	–		1.90	30		2.23		1.80		2.31		2.45		2.20		1.78	30
31		2.20	–	–		23.0		5.00	–	–		1.95	31	–	–		1.75	–	–		2.55		2.15	–	–	31

	October	November	December	January	February	March	April	May	June	July	August	September	Period Year
TOTAL,	65.12	58.81	152.05	288.69	899.00	150.39	61.67	67.91	56.17	72.87	83.32	75.11	
Mean Daily Discharge in Second-feet	2.10	1.96	4.91	9.31	31.00	4.85	2.06	2.19	1.87	2.35	2.69	2.50	
Second-feet per square mile	.032	.029	.074	.140	.465	.073	.031	.033	.028	.035	.040	.038	
Run-off, depth in inches													
Run-off in acre-feet	129.17	116.65	301.59	572.62	1783.17	298.30	122.32	134.70	111.41	144.54	165.27	148.98	4028.72
Maximum Mean Daily Discharge in Second-feet	2.46	2.15	23.20	22.50	48.90	19.00	2.23	2.32	2.31	2.51	3.28	3.27	
Minimum Mean Daily Discharge in Second-feet	1.91	1.30	1.60	3.97	8.00	1.43	1.79	1.75	1.67	2.24	2.15	1.78	

WTK HAV

Quarter: First, Second, Third, Fourth — Computed, Checked, Date; Disch. applied, Disch. checked, Date; G. H. copied, G. H. checked, Date

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F-16 R

PACOIMA WASH - PARTHENIA STREET BRIDGE.

Location
On highway bridge crossing Pacoima Wash at Parthenia Street approximately 3 miles Northwest of Van Nuys, Los Angeles County, California.

Drainage Area
50.6 square miles.

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

Records Available
December 26, 1928 to September 30, 1932 at Los Angeles County Flood Control District, Los Angeles, California.

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

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

Channel and Control
Channel-sand, banks overgrown with weeds.
Control-None

Extremes of Discharge
1929-1930
Maximum-69.60 sec. ft. January 11, 1930
Minimum-Dry most of year.
1930-1931
Maximum-270 c.f.s February 4, 1931.
Minimum-Dry most of year
1931-1932
Maximum-477 c.f.s. Feb. 8, 1932
Minimum-Dry most of year.

Diversions
None near gage.

F-16 R

Regulation
Regulation, except for local runoff, by Los Angeles County Flood Control Dam in Pacoima Canyon.

Accuracy
Fairly good.

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

F. C. Dist. Form 104 HH 12-31

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 16

Discharge measurements of PACOIMA WASH

at MOUTH Parthenia Street Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. gen.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	F.C.
1	11/27	Luce & Waddicor	16.6	3.28	2.39	3.35	7.85		.6		9	.03	1/6	13
2	14	" "	10.0	2.05	1.62	3.41	3.35		.6		9	.03	1/6	"
3	25	Luce & Lovelace	12.0	3.34	3.15	3.50	10.3		.6		8	0	"	"
4	25	" "	12.5	3.63	3.68	3.49	14.0		.6		9	.02	"	"
5	25	" "	16.0	6.70	4.35	3.50	29.1		.6		10	0	1/4	"
6	25	" "	14.0	4.76	4.80	3.47	22.8		.6		8	.06	1/6	"
7	25	" "	9.2	3.66	5.02	3.42	18.3		.6		8	.04	"	"
8	25	" "	5.0	1.11	1.92	3.13	2.12		.6		4	.01	1/12	"
9	28	" "	17.0	7.76	4.82	3.56	37.4		.6		11	0	1/6	"
10	28	" "	16.0	5.06	3.83	3.33	19.3		.6		9	.03	"	"
11	28	" "	28.0	15.2	4.86	3.70	74.3		.6		9	.10	1/4	"
12	1932													
12	1/31	" "	19.0	9.35	4.73	3.50	44.3		.6		10	.06	1/6	"
13	31	" "	18.5	9.14	4.22	3.52	38.5		.6		10	.03	1/6	"
14	31	" "	24.3	12.6	4.82	3.46	60.4		.6		10	.03	1/6	"
15	31	" "	26.0	14.2	4.25	3.44	60.5		.6		15	.01	1/4	"
16	31	" "	26.0	14.3	4.67	3.47	66.8		.6		20	.05	1/3	"
17	31	" "	22.0	6.14	2.22	3.30	13.6		.6		5	.09	1/12	"
18	2/8	Luce & Waddicor	65.0	52.2	4.34	4.0	227.		.6		20	0	1/3	F.C. 27
19	8	Waddicor & Hansen	65.0	55.2	4.34	4.0	239.		.6		10	0	1/4	"
20	9	Luce & Conway	15.3	3.20	1.94	-	6.22		.6		5	0	1/12	F.C. 13
21	11	Waddicor	11.5	1.61	1.16	3.03	1.86		.6		10	0	1/6	F.C. 27
22	14	Luce	12.5	4.56	3.55	3.28	16.1		.6		5	0	1/12	F.C. 13
23	15	"	13.8	3.76	2.44	3.22	9.18	-	.6		10	0	1/6	"
24	16	Waddicor & Bissell	13.5	2.10	1.13	3.24	2.36		.6		5	0	1/12	F.C. 27
25	17	" "	14.9	2.59	1.80	2.29	4.65		.6		5	0	1/6	"

F. C. Dist. Form 104 HH 12-31

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 16

Discharge measurements of PACOIMA WASH

at MOUTH Parthenia Street Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. gen.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	F.C.
26	2/16	Luce & Bissell	15.7	3.54	2.50	3.15	8.87		.6		10	0	1/6	F.C. 28
27	25	Luce & Waddicor	17.0	2.83	1.26	3.39	3.57		.6		8	0	"	F.C. 27
28	25	Waddicor & Turner	17.0	2.83	1.25	-	3.54		.6		8	0	"	"
29	26	Luce & Lindsay	13.5	3.25	2.09	3.45	6.82		.6		8	0	"	F.C. 13

F.C. Dist.—Form 105—1000—9-31

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

At MOUTH PARTHENIA STREET BRIDGE for the Year Ending September 30, 1932

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 16

Drainage Area 50.63 Square Miles. [J. W. LUCE Observer.]

Gage Read Continuous

Used rating table dated 1931 - 1932

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1												
2												
3												
4										DRY		
5												
6									Dry			
7						DRY			"			DRY
8									H	51.26		
9									H	12.68		
10									3.06	1.90		
11									3.07	2.05		
12									3.08	2.20	H	0.02
13									3.21	6.45	H	0.04
14		DRY		DRY	H	0.32		DRY	3.37	17.30		Dry
15									3.23	7.35	H	0.01
16									3.09	2.35		
17									2.98	0.70		
18									3.27	9.55		
19						DRY			3.26	8.90		DRY
20									3.27	9.55		
21									3.28	10.20		
22									3.25	8.25		
23									3.26	8.90		
24									3.26	8.90		
25					H	12.22			3.22	6.90		
26						Dry			3.25	8.25		
27			H	1.60					H	5.62		
28					H	28.63			2.81	0.05		
29						Dry			Dry	0		
30				DRY		"			-	-		
31			-	-		"	H	12.56	-	-		
TOTAL		0.00		1.60		41.17		12.56		189.31		0.07
Mean Daily Discharge in Second-feet		0		0.053		1.33		0.40		6.53		0.002
Second-feet per square mile		0		0.001		0.026		0.008		0.13		T
Run-off, depth in inches		0		0.001		0.030		0.009		0.14		T
Run-off in acre-feet		0		3.17		81.66		24.91		375.40		0.14
Maximum Mean Daily Discharge in Second-feet		0		1.60		28.63		12.56		51.26		0.04
Minimum Mean Daily Discharge in Second-feet		0		0.00		0.00		0.00		0.00		0.00

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14		DRY		DRY		DRY		DRY		DRY		DRY
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
		0		0		0		0		0		0

Maximum stage 4.26 feet at 6:30 on February 6 Discharge 477.20 second-feet.

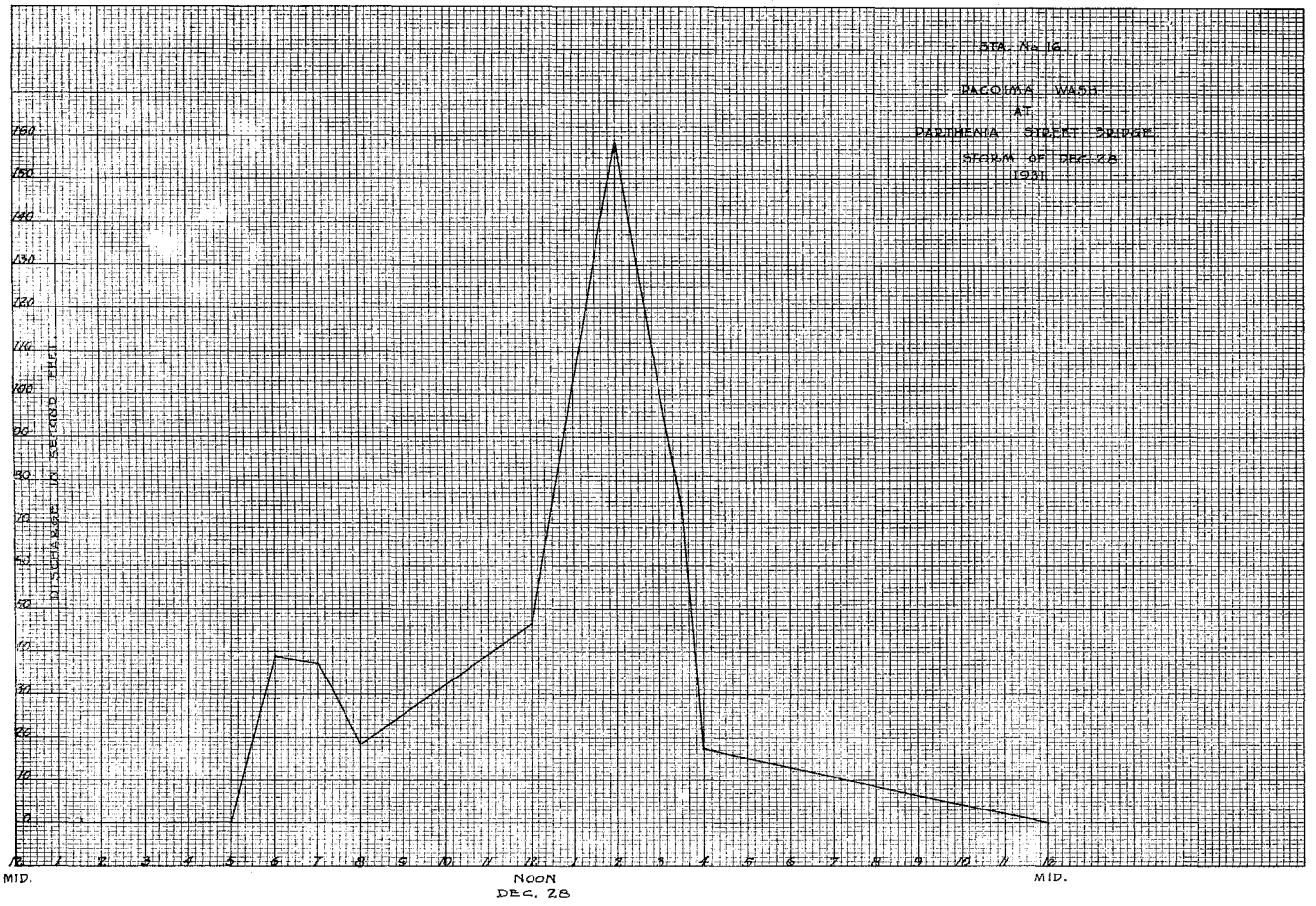
Minimum stage feet at on Discharge second-feet.

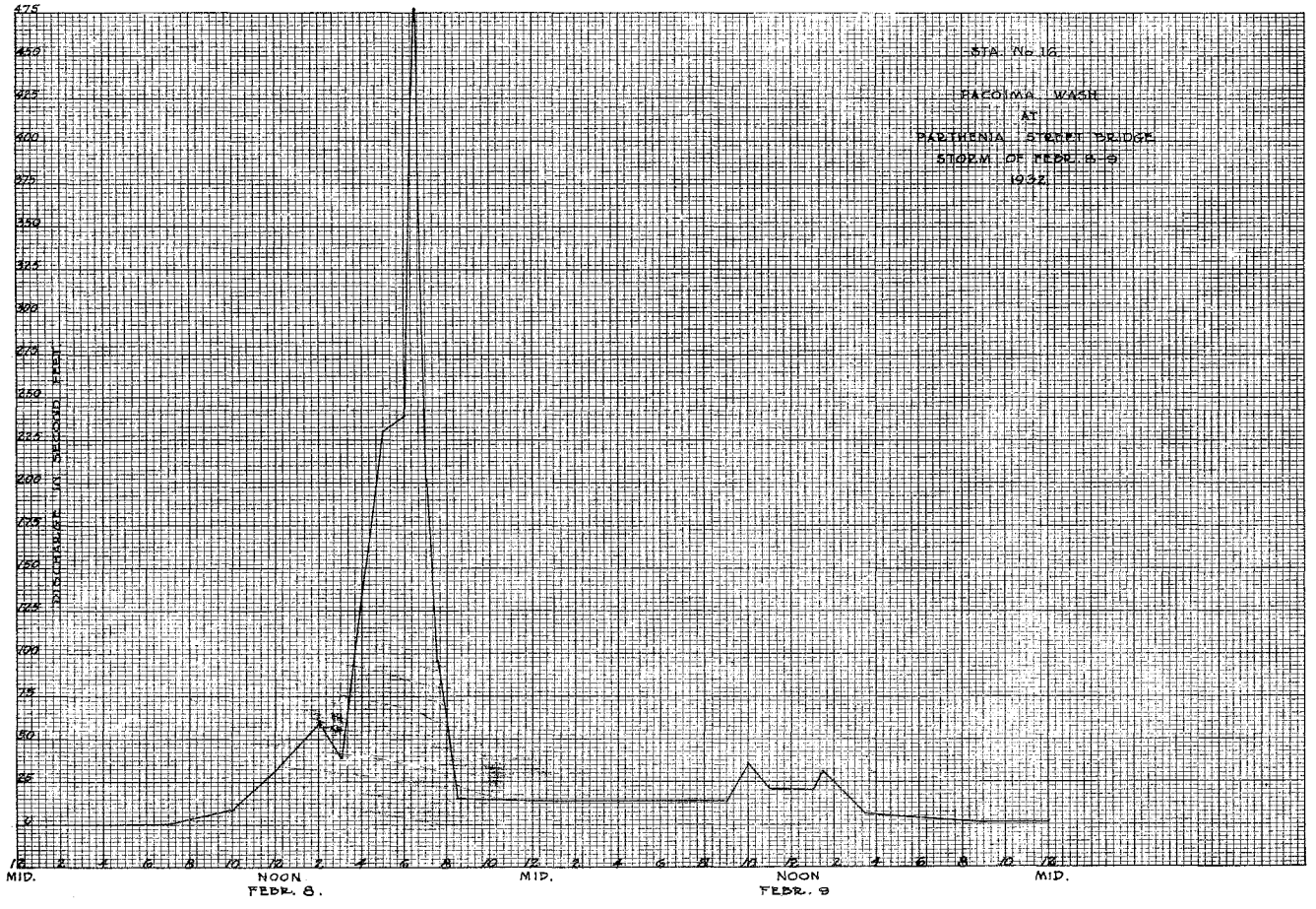
Dry most of the year

Adjustments have been applied to all gage heights.

	Fourth	Third	Second	First	Quarter
Computed	OES	OES	OES	OES	
Checked			9/13/32		Date
Ditch. applied	OES	OES	OES	OES	
Ditch. checked			9/14/32		Date
G. H. applied	OES	OES	OES	OES	
G. H. checked			9/13/32		Date

PERIOD YEAR 485.28


STA. No 16
PACOIMA WASH
AT
PARTHENIA STREET BRIDGE
STORM OF DEC. 28
1931
DISCHARGE IN SECOND FEET
MID.
NOON
DEC. 28
MID.


STA. No 16
PACOIMA WASH
AT
PARTHENIA STREET BRIDGE
STORM OF FEBR. 8-9
1932
DISCHARGE IN SECOND FEET
MID.
NOON
FEBR. 8.
MID.
NOON
FEBR. 9
MID.

F-116 V

PACOIMA CREEK BELOW FLOOD CONTROL DAM

Location
In Pacoima Canyon, 300 feet below Los Angeles County Flood Control District's Pacoima Dam and 4 miles northeast of San Fernando, Los Angeles County, California.

Drainage Area
27.8 square miles

Installed by
The Los Angeles County Flood Control District October 1, 1929.

Records Available
March 1916 to September 30, 1929 at U.S.G.S. Water Resources Branch. These records were taken at gaging station 1/3 mile below dam. Due to rock slides this station became ineffective. From October 1, 1929 to September 30, 1932 records have been taken at Venturi Flume 300 feet below dam and are available at offices of the Los Angeles County Flood Control District.

Channel and Control
Sand, gravel and boulders
No Control.

Extremes of Discharge
March 1916 to September 1929 at U.S.G.S. Water Resources Branch office at Los Angeles, California.

1929-1930
Maximum mean daily - 9.57 c.f.s. on Sept. 29, 1930
Minimum mean daily - Dry at various times of year.

1930-1931
Maximum mean daily - 4.0 c.f.s. February 14 to 18
Minimum mean daily - dry at various times of year

1931-1932
Maximum mean daily - 75 c.f.s. February 16 to 27
Minimum mean daily - Dry during Oct. Nov. and Dec.

Diversions
None

Regulation
Flow regulated by the Los Angeles County Flood Control District's Pacoima Dam

Accuracy
Good

F-116 V

Operation
Located and installed by the Los Angeles County Flood Control District and operated by the Los Angeles County Flood Control District in conjunction with the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 HK 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 116

Discharge measurements of Pacoima Creek

at Below F.C. Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Change in rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	2-25	Waddicor-Turner	15.0	13.62	3.92		53.36		.6		7		1/6	Leitz 27
2	2-26	Turner	14.0	13.11	4.00		53.67		.6		6		"	"
3	2-29	"	13.4	9.02	3.73		33.65		.6		8		1/4	25
4	2-29	"	12.5	5.75	2.13		12.29		.6		8		"	"
5	3-2	"	12.0	7.99	2.59		20.74		.6		9		1/3	"
6	3-4	"	11.0	8.47	2.62		22.15		.6		8		"	"
7	3-5	"	13.0	9.00	2.53		22.74		.6		7		1/4	"
8	3-5	"	11.9	12.26	1.29		15.91		.6		11		"	30
9	3-7	"	12.5	7.93	2.98		23.75		.6		10		"	25
10	3-10	"	12.0	6.99	2.94		20.55		.6		11		1/3	30
11	3-12	"	12.5	7.05	3.03		21.33		.6		12		"	"
12	3-14	"	14.0	8.74	2.54		22.23		.6		11		1/4	"
13	3-15	"	14.0	8.69	2.75		22.81		.6		9		"	"
14	3-16	"	11.6	9.44	2.09		19.67		.6		7		1/6	"
15	3-18	"	11.5	8.73	2.15		18.79		.6		8		1/4	"
16	3-19	"	11.6	10.43	1.85		19.28		.6		10		"	"
17	3-19	"	11.6	10.33	1.69		17.43		.6		9		"	"
18	3-19	"	14.0	6.54	2.25		14.70		.6		9		"	"
19	3-21	"	11.6	10.30	1.71		17.58		.6		9		"	"
20	3-22	"	11.6	10.63	1.70		18.06		.6		9		"	"
21	3-23	"	11.6	10.79	1.65		17.77		.6		10		1/3	"
22	3-23	"	11.6	10.62	1.63		17.27		.6		10		1/4	"
23	3-25	"	11.6	10.49	1.63		17.05		.6		10		1/4	"
24	3-26	"	11.6	10.47	1.53		16.05		.6		10		"	"
25	3-28	"	11.6	10.91	1.65		17.98		.6		10		1/3	"
26	3-30	"	11.8	10.75	1.54		16.41		.6		11		1/4	"
		"												
27	4-4	"	11.8	9.11	1.75		16.01		.6		10		"	"

F. C. Dist. Form 104 HK 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 116

Discharge measurements of Pacoima Creek

at Below F.C. Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Change in rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
28	4-9	Turner	12.6	7.95	2.00		16.09		.6		9		1/4	30
29	4-11	"	11.3	10.18	1.62		17.44		.6		8		"	"
30	4-18	"	12.4	11.54	1.41		16.28		.6		13		"	"
31	4-20	"	12.0	11.18	1.52		17.06		.6		9		"	"
32	4-22	"	12.3	11.51	1.45		16.67		.6		13		"	"
33	4-27	"	12.4	11.50	1.33		15.30		.6		13		"	"
34	4-30	"	12.4	11.58	1.46		16.46		.6		13		1/3	"
35	5-2	"	3.8	5.55	2.49		13.81		.6		8		1/4	"
36	5-2	"	11.0	6.87	2.39		16.45		.6		11		"	"
37	5-2	"	12.4	11.40	1.31		14.95		.6		13		"	"
38	5-3	"	11.0	7.89	1.93		15.26		.6		11		"	"
39	5-3	"	12.4	11.88	1.39		16.47		.6		13		"	"
40	5-7	"	12.5	10.92	1.40	1.38	15.31		.6		13		"	"
41	5-7	"	3.95	5.61	2.07	1.38	11.61		.6		8		"	"
42	5-9	"	12.7	9.08	.95	.90	8.70		.6		14		"	"
43	5-9	"	10.5	10.60	.75	.90	7.93		.6		11		"	"
44	5-14	"	7.7	4.15	1.57	.90	6.53		.6		9		"	"
45	5-14	"	12.5	8.51	.94	.90	7.93		.6		14		1/3	"
46	5-14	"	9.5	9.34	.86	.90	8.04		.6		10		1/4	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F 118 V

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

Below F. C. DAM for the Year Ending September 30, 1932

Drainage Area 27.8 Square Miles. [R. E. WADDICOR Observer.] Gage Read Once a day Used rating table dated

Maximum stage ... feet at ... Discharge 75. second-feet.
Minimum stage ... feet at ... Discharge 0 second-feet.
Mean Daily on Vari us Times

These discharges are taken from dam outflow records
Measurments made with 24" Venturi Flume 300' below dam

(Gage height columns are blank for all months.)

Day	October Discharge	November Discharge	December Discharge	January Discharge	February Discharge	March Discharge	April Discharge	May Discharge	June Discharge	July Discharge	August Discharge	September Discharge
1	2.00			6.25	2.00	25.00	18.00	16.50	7.50	8.00	8.00	8.07
2	2.00			13.75	3.00	25.00	4.50	16.50	7.50	8.00	8.00	8.07
3	2.00			15.00	2.00	25.00	14.30	16.00	7.50	8.00	8.00	8.07
4	2.00			15.00	20.40	25.00	18.00	16.00	7.50	8.00	8.00	8.07
5	2.00			15.00	25.00	25.00	18.00	.67	7.00	8.00	8.00	8.07
6	2.00			15.00	25.00	25.00	18.00	16.00	7.00	8.00	8.00	8.07
7	2.00			13.00	25.00	25.00	18.00	16.00	7.00	7.50	8.00	7.96
8	2.00			13.00	25.00	25.00	18.00	16.00	7.00	8.00	8.00	7.96
9	2.00			15.00	25.00	25.00	18.00	16.00	7.00	8.00	8.00	8.78
10	2.00			15.00	20.08	25.00	18.00	8.50	7.00	8.00	8.00	8.78
11	2.00			15.00	41.60	25.00	18.00	8.50	7.00	8.00	8.00	8.07
12	2.00			15.00	50.00	25.00	18.00	8.50	15.00	8.00	8.00	7.73
13	2.00			15.00	50.00	25.00	18.00	8.50	15.00	8.00	8.00	8.00
14	2.00			15.00	50.00	25.00	14.40	8.50	7.50	8.00	8.00	8.00
15	1.50			15.00	50.00	25.00	16.50	15.00	7.50	8.00	8.00	8.00
16	1.50			15.00	75.00	21.00	16.50	16.00	7.50	8.00	8.00	8.00
17	1.50	DRY	DRY	4.15	50.00	20.00	16.50	8.50	7.50	8.00	8.00	8.00
18	1.50			5.00	75.00	20.00	16.50	8.50	7.50	8.00	8.00	7.25
19	1.50			5.00	75.00	20.00	16.50	8.50	7.50	8.00	8.00	7.00
20	1.50			5.00	75.00	20.00	16.50	8.50	7.50	7.50	8.00	8.00
21	1.50			5.00	75.00	20.00	15.10	8.50	8.00	8.00	8.00	8.00
22	1.50			5.00	75.00	20.00	16.50	16.00	8.00	8.00	8.00	8.00
23	1.50			5.00	75.00	20.00	16.50	16.00	8.00	8.00	8.00	8.00
24	1.50		1.10	5.00	75.00	20.00	16.50	16.00	8.00	8.00	7.50	8.00
25	0		1.10	5.00	75.00	20.00	16.50	8.00	8.00	8.00	8.00	8.00
26	0		1.10	5.00	75.00	18.00	16.50	7.33	8.00	8.00	8.00	8.00
27	0		1.10	5.00	75.00	18.00	16.50	7.50	8.00	8.00	8.00	8.00
28	0		1.10	5.00	45.10	18.00	16.50	7.50	8.00	8.00	8.00	8.00
29	0		1.10	5.00	33.00	18.00	13.75	14.00	8.00	8.00	8.00	8.00
30	0		1.10	2.50	–	18.00	11.00	14.00	8.00	8.00	8.00	8.00
31	0		10.90	2.00	–	18.00	–	14.00	–	8.00	8.00	–
TOTAL,	43.00	0	18.60	294.65	1367.18	684.00	485.55	366.00	241.50	247.00	247.50	239.95
Mean Daily Discharge in Second-feet	1.38	0	.60	9.50	47.14	22.06	16.19	11.80	8.05	7.97	7.98	8.00
Second-feet per square mile	.050		.022	.342	1.698	.794	.583	.425	.290	.287	.287	.288
Run-off, depth in inches												
Run-off in acre-feet	85.27	0	36.88	584.29	2711.12	1356.37	962.85	725.78	478.89	489.80	490.79	475.82
Maximum Mean Daily Discharge in Second-feet	2.00	0	10.90	15.00	75.00	25.00	18.00	16.50	15.00	8.00	8.00	8.78
Minimum Mean Daily Discharge in Second-feet	0	0	0	2.00	2.00	18.00	4.50	.67	7.00	7.50	7.50	7.00

Period Year run-off in acre-feet: 8,397.86

Computed HAV Checked WTK

F-40 R

PUDDINGSTONE CREEK BELOW FLOOD CONTROL DAM NEAR SAN DIMAS CALIFORNIA

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

Drainage Area
32.7 square miles, including drainage area above diversion dam in San Dimas Creek.

Installed by
Los Angeles County Flood Control District. December 28, 1927.

Records Available
December 28, 1927 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Au continuous water stage recorder located in concrete house on east bank of stream. Staff gage attached to recorder house.

Discharge Measurements
Made by wading near recorder house.

Channel and Control
Channel of sand and gravel with bed rock near gage. Control, reinforced concrete with a cippoletti weir 18" deep by 24" wide.

Extremes of Discharge
1927-1928
Maximum-.60 c.f.s. February 4, 1928
Minimum-Dry at various times during year.
1928-1929
Maximum-2.03 c.f.s. December 13, 1928
Minimum-Dry at various times during year.
1929-1930
Maximum-1.45 c.f.s. May 3, 1930
Minimum-Dry at various times during year.
1930-1931
Maximum-.94 c.f.s. April 26, 1931
Minimum-Dry at various times during year.
1931-1932
Maximum-15.0 c.f.s. Feb. 9, 1932
Minimum-0.01 c.f.s. Oct. 29, 1931

Diversions
Water discharged from dam pumped for irrigation by water companies.

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

Accuracy
Good

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

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Discharge measurements of Puddingstone Creek

Below F.C. Dam, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1931													271
1	12-25	Brewster	4.0	1.03	.90	.24	.93		.6		4		1/10	666
2	12-28	"	6.0	3.27	1.29	.74	4.23		.6		6		1/6	"
	1932													
3	2-8	"	4.0	1.47	1.38	.46	2.03		.6		4	.04	1/6	"
4	2-9	"	8.0	7.15	1.58	1.20	11.29		.6		8	.10	1/6	"
5	2-19	"	1.0	.16	1.00	.12	.16		.6		2		1/12	"
6	2-26	"	1.0	.24	.50	.11	.12		.6		2		"	"
7	5-6	"	1.0	.15	.47	.07	.07		.6		2		"	"
8	5-13	"	.8	.11	.55	.06	.06		.6		1		"	"
9	5-20	"	.8	.11	.55	.06	.06		.6		1		1/10	"
10	5-27	"	1.0	.17	.35	.06	.06		.6		2		1/6	"
11	6-3	"	1.0	.18	.39	.06	.07		.6		2		1/12	"
12	6-10	"	1.0	.18	.33	.05	.06		.6		2		1/10	"
13	6-17	"	1.0	.21	.29	.06	.06		.6		2		1/12	"
14	6-24	"	1.0	.14	.36	.06	.05		.6		2		"	"
15	7-1	"	1.0	.12	.42	.06	.05		.6		2		"	"
17	7-15	"	1.0	.24	.38	.07	.09		.6		2		"	"
18	7-22	"	1.0	.12	.42	.05	.05		.6		2		"	"
19	7-29	"	1.0	.19	.42	.06	.08		.6		2		"	"
20	8-5	"	1.0	.29	1.00	.13	.29		.6		2	.01	"	"
21	8-12	"	1.0	.20	.70	.07	.14		.6		2		"	"
22	8-18	"	1.0	.34	.94	.14	.32		.6		2		"	"
23	8-25	"	1.0	.24	.75	.10	.18		.6		2		"	"
24	9-1	"	1.0	.11	.36	.05	.04		.6		2		1/20	"
25	9-8	"	1.0	.30	.77	.16	.23		.6		2		1/12	"
26	9-15	"	1.0	.13	.38	.05	.05		.6		2		"	"
27	9-22	"	1.0	.15	.33	.05	.05		.6		2		"	"
28	9-29	"	1.0	.25	.56	.07	.14		.6		2		"	"

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

1000' BELOW F.C.DAM for the Year Ending September 30, 1932

Drainage Area 32.70 Square Miles. [C. L. BREWSTER Observer.]

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 40

Gage Read CONTINUOUS

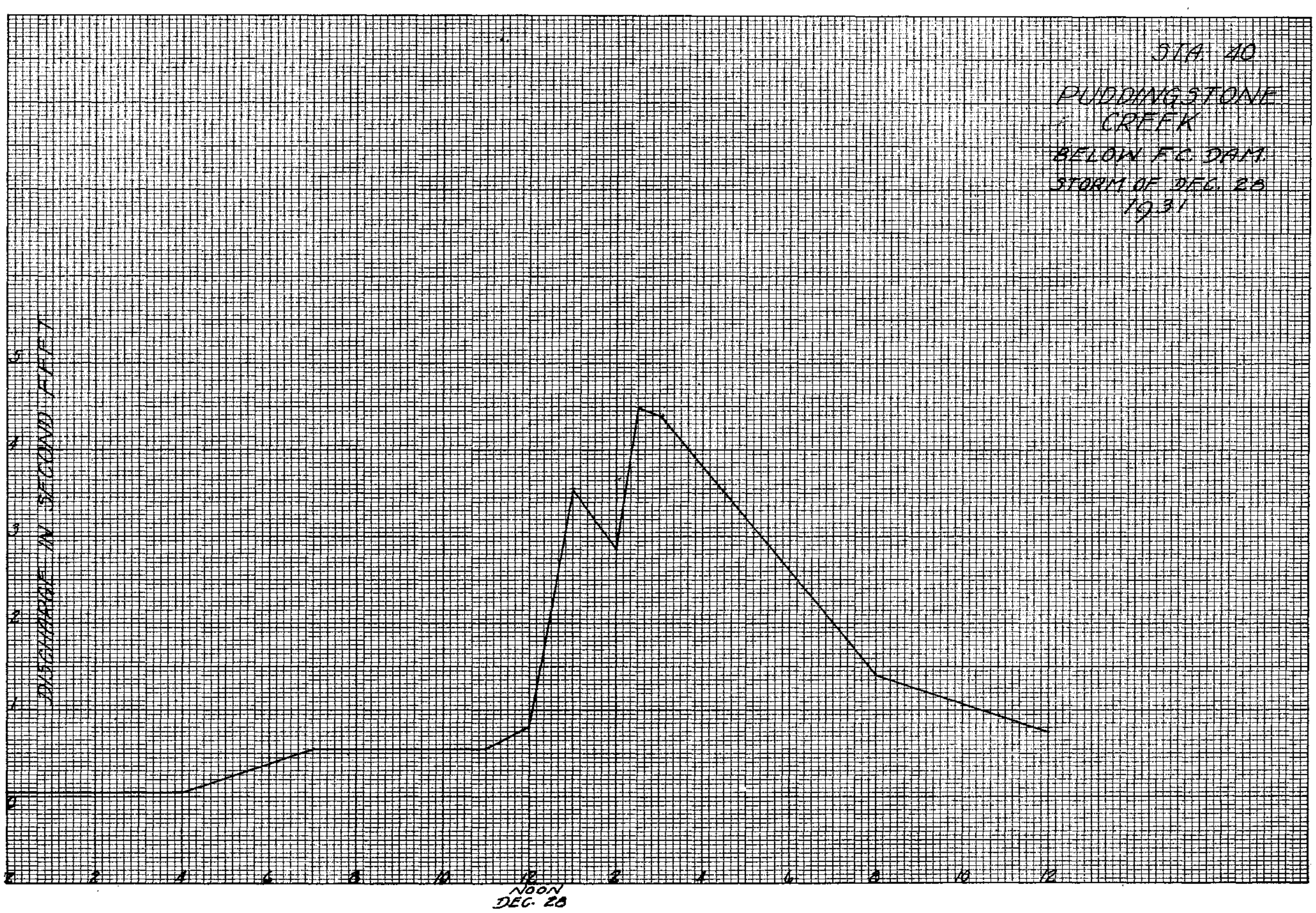
Used rating table dated Oct.1-31 to 9-30-32

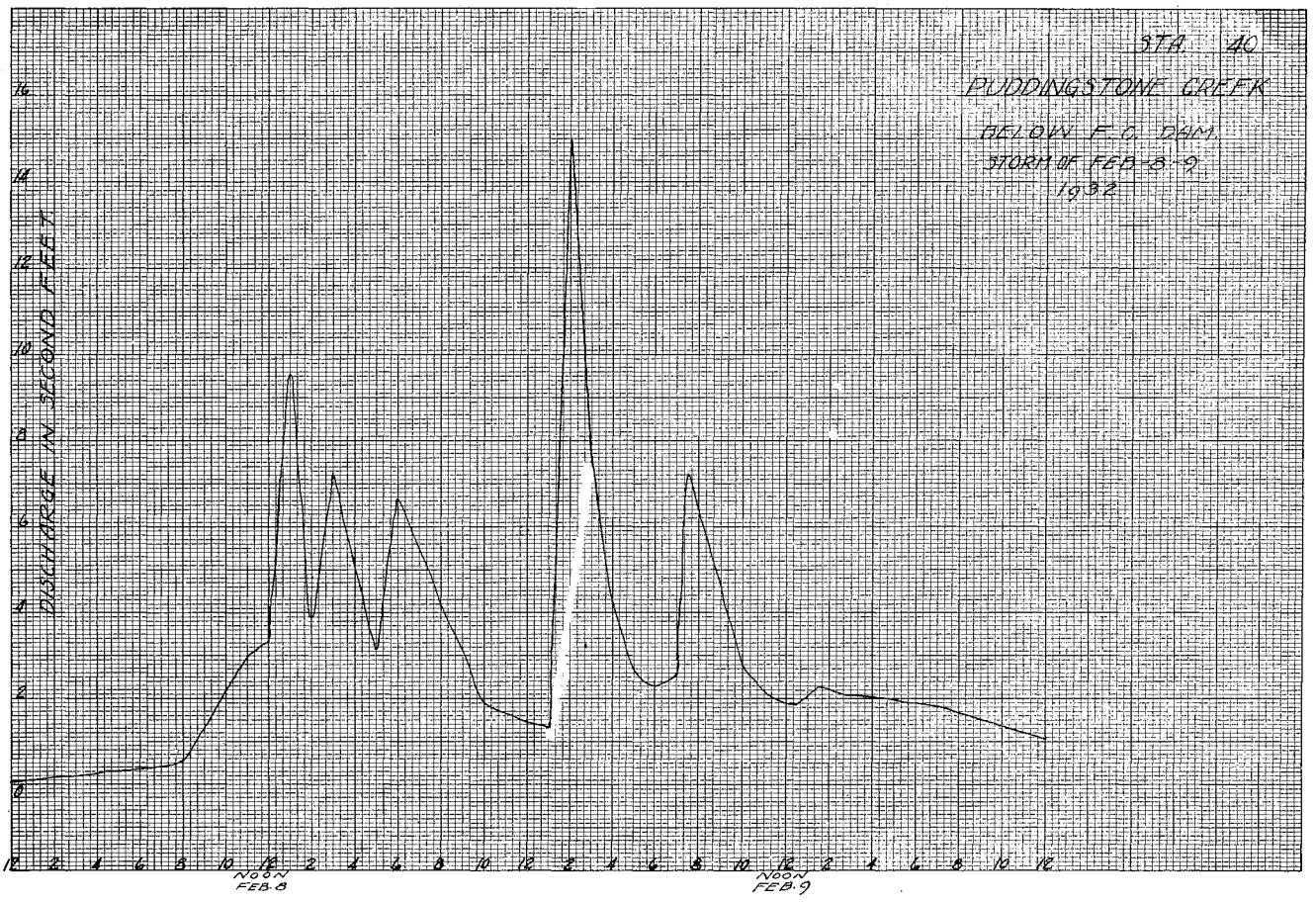
Maximum stage 1.36 feet at 2:00 AM on Feb 9, 1932 Discharge 15.00 second-feet.
Minimum stage .01 feet at 11:00 PM on Oct. [illegible], 1931 Discharge .01 second-feet.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	.03	.02	.02	.01	.03	.02	.06	.07	H	.82	.07	.09
2	.03	.02	.02	.01	.03	.02	.10	.17	H	.57	.07	.09
3	.03	.02	.02	.01	.03	.02	.08	.11	H	.20	.07	.09
4	.03	.02	.02	.01	.03	.02	.07	.09	.07	.09	.07	.09
5	.03	.02	.02	.01	.03	.02	.06	.07	.06	.07	.07	.09
6	.03	.02	.02	.01	.03	.02	.05	.05	.06	.07	.07	.09
7	.03	.02	.02	.01	.03	.02	.05	.05	.05	.05	.07	.09
8	.03	.02	.02	.01	.10	.17	.04	.03	H	2.74	.07	.09
9	.03	.02	.02	.01	.10	.17	.04	.03	H	3.05	.07	.09
10	.03	.02	.02	.01	.05	.05	.04	.03	.19	.51	.07	.09
11	.03	.02	.02	.01	.05	.05	.04	.03	.14	.31	.06	.07
12	.03	.02	.02	.01	.04	.03	.06	.07	.11	.20	.06	.07
13	.03	.02	.02	.01	.03	.02	.05	.05	.11	.20	.06	.07
14	.03	.02	.02	.01	.03	.02	.05	.05	.11	.20	.06	.07
15	.03	.02	.04	.03	.03	.02	.05	.05	.10	.17	.06	.07
16	.03	.02	.04	.03	.03	.02	.05	.05	H	1.36	.06	.07
17	.03	.02	.03	.02	.03	.02	.04	.03	.23	.70	.06	.07
18	.03	.02	.03	.02	.03	.02	.04	.03	.16	.39	.06	.07
19	.03	.02	.03	.02	.03	.02	.04	.03	.14	.31	.06	.07
20	.03	.02	.03	.02	.03	.02	.04	.03	.12	.23	.06	.07
21	.03	.02	.03	.02	.03	.02	.04	.03	.11	.20	.06	.07
22	.03	.02	.03	.02	.03	.02	.04	.03	.11	.20	.06	.07
23	.03	.02	.03	.02	.03	.02	.04	.03	.11	.20	.06	.07
24	.03	.02	.03	.02	.03	.02	.04	.03	.11	.20	.06	.07
25	.03	.02	.03	.02	.12	.23	.04	.03	.11	.20	.06	.07
26	.03	.02	.03	.02	.06	.07	.04	.03	.11	.20	.06	.07
27	.03	.02	.03	.02	.05	.05	.04	.03	.07	.09	.06	.07
28	.02	.01	.03	.02	H	1.34	.04	.03	.07	.09	.06	.07
29	.02	.01	.03	.02	.15	.35	.04	.03	.07	.09	.06	.07
30	.02	.01	.03	.02	.08	.11	.04	.03	-	-	.06	.07
31	.02	.01	-	-	.06	.07	.10	.17	-	-	.06	.07
TOTAL		.58		.48		3.07		1.59		13.71		2.37
Mean Daily Discharge in Second-feet		.02		.02		.10		.05		.47		.08
Second-feet per square mile		.00062		.0006		.0031		.0015		.0146		.0025
Run-off, depth in inches												
Run-off in acre-feet		1.15		.95		6.09		3.15		27.19		4.70
Maximum Mean Daily Discharge in Second-feet		.02		.03		1.34		.17		3.05		.09
Minimum Mean Daily Discharge in Second-feet		.01		.01		.02		.03		.05		.07

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1	.06	.07	.07	.09	.06	.07	.06	.07	.10	.17	.07	.09	
2	.06	.07	.06	.07	.06	.07	.06	.07	.10	.17	.05	.05	
3	.06	.07	.06	.07	.06	.07	.06	.07	.10	.17	.05	.05	
4	.06	.07	.06	.07	.06	.07	.06	.07	.09	.14	.11	.20	
5	.06	.07	.06	.07	.05	.05	.07	.09	.11	.20	.10	.17	
6	.06	.07	.07	.09	.05	.05	.08	.11	.10	.17	.17	.43	
7	.06	.07	.08	.11	.05	.05	.06	.07	.15	.35	.13	.27	
8	.06	.07	.07	.09	.05	.05	.06	.07	.09	.14	.15	.35	
9	.06	.07	.07	.09	.05	.05	.05	.05	.06	.07	.18	.47	
10	.06	.07	.07	.09	.05	.05	.05	.05	.06	.07	.14	.31	
11	.06	.07	.06	.07	.05	.05	.06	.07	.07	.09	.13	.27	
12	.06	.07	.06	.07	.05	.05	.12	.23	.08	.11	.11	.20	
13	.07	.09	.06	.07	.05	.05	.05	.05	.07	.09	.09	.14	
14	.07	.09	.07	.09	.05	.05	.10	.17	.06	.07	.07	.09	
15	.07	.09	.07	.09	.05	.05	.07	.09	.06	.07	.07	.09	
16	.07	.09	.08	.11	.05	.05	.07	.09	.10	.17	.15	.35	
17	.07	.09	.08	.11	.06	.07	.10	.17	.15	.35	.08	.11	
18	.07	.09	.08	.11	.06	.07	.05	.05	.11	.20	.07	.09	
19	.07	.09	.08	.11	.06	.07	.05	.05	.09	.14	.08	.11	
20	.07	.09	.08	.11	.06	.07	.05	.05	.09	.14	.08	.11	
21	.07	.09	.07	.09	.06	.07	.05	.05	.08	.11	.05	.05	
22	.07	.09	.07	.09	.06	.07	.05	.05	.08	.11	.06	.07	
23	.07	.09	.08	.11	.06	.07	.05	.05	.16	.39	.07	.09	
24	.07	.09	.08	.11	.06	.07	.05	.05	.09	.14	.07	.09	
25	.07	.09	.06	.07	.06	.07	.08	.11	.10	.17	.05	.05	
26	.07	.09	.06	.07	.07	.09	.10	.17	.10	.17	.07	.09	
27	.07	.09	.06	.07	.07	.09	.07	.09	.06	.07	.08	.11	
28	.07	.09	.06	.07	.06	.07	.07	.09	.05	.05	.15	.35	
29	.07	.09	.06	.07	.06	.07	.07	.09	.05	.05	.07	.09	
30	.07	.09	.06	.07	.06	.07	.06	.07	.07	.09	.07	.09	
31	-	-	.06	.07	-	-	.07	.09	.08	.11	-	-	
TOTAL		2.46		2.67		1.90		2.65		4.54		5.03	
Mean Daily Discharge in Second-feet		.08		.09		.06		.09		.15		.17	
Second-feet per square mile		.0025		.0028		.0019		.0028		.0047		.0053	
Run-off, depth in inches													
Run-off in acre-feet		4.88		5.30		3.77		5.26		9.01		9.98	81.43
Maximum Mean Daily Discharge in Second-feet		.09		.11		.09		.23		.39		.47	
Minimum Mean Daily Discharge in Second-feet		.07		.07		.05		.05		.05		.05	

First / Second / Third / Fourth Quarter: H.V., J.S.L.
Computed / Checked / Date
Disch. applied / Disch. checked / Date
G. H. copied / G. H. checked / Date





F-192 R

RIO HONDO AT LOWER AZUSA ROAD

Location
On Highway Bridge where Lower Azusa Road crosses the Rio Hondo, about 1½ miles north of El Monte, Los Angeles. County, California.

Drainage Area

Installed by
Los Angeles County Flood Control District, February 22, 1932.

Records Available
February 22, 1932 to March 29, 1932 stream measurements only.
March 29, 1932 to September 30, 1932 recorder records at office of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
AU continuous water stage recorder in house on top of corrugated iron pipe stilling well fastened to bridge pier at downstream side of bridge near east bank.

Discharge Measurements
High flows are measured from cable just below bridge
Low flows are measured by wading, near gage.

Channel and Control
Channel sand and gravel
No control

Extremes of Discharge
1931-1932
Maximum-Not determined
Minimum-Dry at various times of year

Regulation
Los Angeles County Flood Control Dams regulate flow of some tributaries in mountains.

Diversion
Water diverted at Edison Intake and near mouth of San Gabriel Canyon for power and irrigation.

Accuracy
Fair

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

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.192

Discharge measurements of RIO HONDO

at / near LOWER AZUSA ROAD, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Method rating	Method	Cond.	Meas. sect. No.	G. Ht. change Total	Time Hours	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	2/22	Lee & Martin		3 channels			78.14	.6			19		3/4	F.C. 29
2	23	" "		3 channels			85.38	.6			20		1/4	"
3	24	" "		2 channels			89.37	.6			20		1/2	"
4	25	" "		2 "			85.60	.6			20		1/3	"
5	26	" "		2 "			88.75	.6			18		1/2	"
6	3/1	" "		2 "			99.34	.6			16		1/2	"
7	2	" "		2 "			106.6	.6			17		1/2	"
8	3	" "		2 "			95.79	.6			19		1/3	"
9	4	" "		2 "			81.04	.6			22		5/6	"
10	8	" "		2 "			44.41	.6			21		1/2	"
11	9	" "		2 "			48.73	.6			15		1/4	"
12	10	" "		2 "			35.05	.6			14		1/4	"
13	11	" "	west channel dry											
14	11	" "	40	16.8	1.60	2.93	27.30	.6			12		1/3	"
15	15	" "	27.0	7.8	1.42	2.79	11.10	.6			9		1/2	"
16	18	" "	21.0	7.35	1.49	2.73	10.99	.6			7		1/3	"
17	25	" "	22.0	10.80	2.01	2.94	21.77	.6			9		1/4	"
18	4/5	" "	34.0	10.40	1.44	2.77	15.02	.6			9		1/4	"
19	4/12	" "	16.0	2.68	.98	2.61	2.62	.6			4		1/3	"
20	4/20	" "	20.0	2.70	.94	2.65	2.56	.6			5		1/4	"
21	25	" "	Dry											
22	26	" "	Est.			2.55	.75							"

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of RIO HONDO RIVER

At Near LOWER AZUSA ROAD for the Year Ending September 30, 19

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 192

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

Gage Read CONTINUOUS Used rating table dated 3-29-32

Maximum stage 6000 second-feet. Discharge
Minimum stage 0.0 second-feet. Discharge
Recorder installed March 29th, 1932 on Feb. 8th & 9th
2.50 feet at ..... on ..... feet at .....
o = interpolated

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1											Meas	99.34
2											"	106.5
3											"	95.79
4											"	81.04
5											o	71.88
6											o	62.72
7											o	52.56
8											Meas	44.41
9											"	48.73
10											"	35.05
11									Meas	803.88	Meas	27.30
12									o	715.6	o	23.25
13									o	627.4	o	19.20
14									o	539.25	o	15.15
15									o	451.0	Meas	11.10
16									o	362.8	o	11.05
17									o	274.6	o	11.02
18									Meas	186.3	Meas	10.99
19									o	159.3	o	12.53
20									o	132.2	o	14.07
21									o	105.2	o	15.61
22									Meas	78.14	o	17.15
23									"	85.38	o	18.69
24									"	89.37	o	20.23
25									"	85.60	Meas	21.77
26									"	88.75	o	25.83
27									o	91.40	o	29.89
28									o	94.05	o	33.95
29									o	96.70	2.88	38.0
30									—	—	2.88	38.00
31									—	—	2.87	35.75
TOTAL,									Inc.	5067.33		1148.64
Mean Daily Discharge in Second-feet												37.05
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet									Inc.	10051.0		2280.00
Maximum Mean Daily Discharge in Second-feet												106.59
Minimum Mean Daily Discharge in Second-feet												10.99

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1	2.86	33.50	Dry		Dry		Dry					
2	2.85	29.25										
3	2.85	29.25										
4	2.82	24.50										
5	2.76	13.80										
6	2.74	11.70										
7	2.73	10.70										
8	2.70	7.90										
9	2.66	5.10										
10	2.58	1.50										
11	2.54	.50										
12	2.58	1.50										
13	2.63	3.50										
14	2.64	4.00										
15	2.63	3.50		DRY		DRY		DRY		DRY		DRY
16	2.61	2.55										
17	2.57	1.22										
18	2.52	.15										
19	2.51	.08										
20	2.54	.50										
21	2.63	3.50										
22	2.56	.95										
23	2.52	.15										
24	Dry	—										
25	"	—										
26	2.51	.08										
27	2.53	.32										
28	Dry	—										
29	"	—										
30	"	—										
31	—	—										
		189.70										
		6.32										
		376.0										Inc. 12,707
		33.50										(Incomplete)
		0.0										

PERIOD YEAR

F-64-R RIO HONDO 1000' ABOVE MISSION BRIDGE

Location
On west side of Rio Hondo approximately 1000' above Mission Bridge near Montebello Oil Fields, 2 miles northeast of Montebello, Los Angeles County, Cal.

Drainage Area
350 square miles.

Installed by
Los Angeles County Flood Control District, July, 1928. Originally installed by the State of California Division of Water Rights.

Records Available
July 1928 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California, see State of California Division of Water Rights Bulletins for records prior to July 1928.

Gage
An continuous water stage recorder installed in wooden shelter house on west bank of stream. Vertical metal staff gage attached to wood stilling well.

Discharge Measurements
High water measurements made from cable car 60' below recorder house.
Low water measurements made by wading near recorder house.

Channel and Control
Shifting sand channel.
No control.

Extremes of Discharge
1928-1929
Maximum-2400 c.f.s. November 14, 1928
Minimum-6.23 c.f.s. August 23, 1929
1929-1930
Maximum-1260 c.f.s. March 15, 1930
Minimum-5.88 c.f.s. September 4, 1930
1930-1931
Maximum-4040 c.f.s. February 3, 1931
Minimum-4.33 c.f.s. August 31, 1931
1931-1932
Maximum-6317 c.f.s. on February 9, 1932
Minimum-1.70 c.f.s. on October 2, 1931.

Diversions
No diversions immediately above gage.

Regulation
Some tributaries are regulated by Flood Control Dams in mountains.

Accuracy
Fair.

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

F.C. Dist. Form 104 SM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.64

Discharge measurements of Rio Hondo

at 1000' above Mission Bridge, during the year ending September 30, 19 32

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.	Mean secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1931													271
1	10/2	Brewster	16.0	6.38	1.37	1.19	8.71	.6			8	0	1/3	666
2	9	"	22.0	6.58	1.33	1.19	8.77	.6			11	0	"	"
3	15	"	16.0	4.12	1.22	1.09	5.04	.6			8	0	1/4	"
4	16	"	26.0	9.14	1.41	1.26	13.5	.6			10	0	1/3	"
5	23	"	18.0	5.90	1.36	1.20	8.05	.6			9	0	1/2	"
6	30	"	26.0	7.22	1.22	1.20	8.78	.6			11	0	1/3	"
7	11/6	"	27.0	7.80	1.25	1.22	9.72	.6			9	0	"	"
8	13	"	26.0	8.72	1.33	1.20	11.6	.6			10	0	"	"
9	15	R. Lindsay	.45	86.1	4.27	2.19	367.	.6			9	.18	"	282 885
10	17	Bollinger &Larkin	25.5	14.5	1.50	1.14	21.7	.6			12	.02	1/4	271 650
11	20	Brewster	27.0	8.36	1.30	1.10	10.8	.6			9	0	1/3	271 666
12	27	Lindsay &Burke	22. 34.	146. 17.6	7.27 .88	2.88	10.8	.6			13	1.0	5/12	
13	12/4	Brewster	28.0	8.16	1.34	1.10	10.9	.6			8	0	1/3	271 666
14	14	Harting & Laird	13.5	13.5	1.92	1.31	26.0	.6			11	.06	1/3	271 655
15	18	Brewster Goat	29.0	9.37	1.34	1.17	12.6	.6			8	0	"	271 666
16	21	Lindsay-Vander/	49.0	47.6	2.81	1.80	133.	.6			10	.21	1/2	282 885
17	21	" "	51.0	54.7	3.4	1.93	185.	.6			11	.01	1/2	"
18	24	Brewster	30.0	11.7	1.45	1.22	16.9	.6			9	0	1/4	271 666
20	25	Harting & Laird	55.0	85.0	6.54	2.45	553.	.6			8	.14	1/2	271 655
21	28	Jordan & Stoner	53.0	94.0	5.39	2.37	507.	.6			11	.06	"	271 655
22	28	Stoner	55.0	89.2	5.25	2.39	468.	.6			11	.02	"	"
23	28	Jordan & Stoner	150.	280.	5.43	3.64	1526	.6			22	.08	5/6	"
24	28	" & Nesbit	105.	219.	4.73	2.93	1037.	.6			15	.34	11/6	F.C. 64
25	29	R. Lindsay	55.0	108.	4.93	2.29	553.	.6			11	.03	2/5	282 885
	1932													
26	1/8	Brewster	24.0	9.84	1.36	1.26	13.3	.6			10	0	1/3	271 666
26A	15	"	34.0	14.0	1.38	1.31	19.3	.6			10	0	1/2	"

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.64

Discharge measurements of Rio Hondo

~~At~~ 1000' above Mission Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs.	G. Ht. change Total	Time Hours	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.			
26 B	1/22	Brewster	12.0	7.64	1.59	1.28	12.12	.6			6	0	1/3	271 666
26	29	"	22.0	8.94	1.49	1.31	13.36	.6			9	0	"	" "
27	31	Lindsay & Cole	101.	188.	6.17	3.20	116.	.6			14	.31	1	F.C. 21
28	2/1	" "	56.0	104.	6.57	2.48	686.6	.6			11	.07	2/5	"
29	2	" "	55.0	78.7	5.91	2.15	465.7	.6			11	047	1/2	282 283
29 A	5	Brewster	16.0	10.2	1.61	1.28	16.46	.6			8	0	1/3	271 666
30	8	Jordan & Stoner	87.	112.2	6.06	2.67	674.6	.6			14	.06	1/4	271 656
31	8	" "	52.	117.1	6.32	2.25	739.2	.6			10	.0	1/2	"
32	8	" "	163.	357.3	7.04	4.12	2511.	.6			15	.07	1	"
33	8	R. Lindsay	150.	600.0	9.16	5.0	4675.	.				0	1/6	Float
34	9	Lindsay & Cole	153.	584.0	9.55	5.17	5580.	.6			12	.157	1/10	282 283
35	9	Burke & Hedge	158.	579.4	8.53	4.84	4943.	.6			16	.12	3/4	271 637
36	9	" "	160.	578	8.88	4.75	5137.	.6			17	.10	1/4	"
37	9	" "	155.	522.5	9.65	4.68	5041.	.6			16	.05	1/2	"
38	9	" "	156.	494.9	9.39	4.60	4646.	.6			15	.10	1/3	"
39	9	" "	158.	557.5	9.24	4.75	5150.	.6			16	.10	1/2	"
40	9	" "	158.	577.9	10.5	4.65	6081.	.6			17	.10	1/2	"
41	10	Herting & Laird	138.	269.5	7.22	3.08	1946.	.6			27	.07	1 1/2	271 655
42	10	" "	105.	211.5	7.08	2.79	1498.	.6			20	.02	1-1/6	"
43	10	" "	105.	188.4	7.22	2.67	1360.	.6			20	.02	1	"
44	11	" "	102	137.4	6.02	2.24	827.1	.6			21	.08	1-1/4	"
51	16	" "	103	78.7	3.64	2.15	278.7	.6			21	.02	2/3	"
52	3/4	Brewster	105.	48.15	2.68	2.12	129.2	.6			15	.03	1/3	271 666
53	11	"	45.0	28.80	2.30	1.98	64.72	.6			9	0	1/4	"
54	18	"	35.0	18.40	1.57	1.81	28.89	.6			7	.02	1/3	"
55	25	"	82.0	26.42	1.60	1.93	42.29	.6			14	0	1/3	"
56	4/1	"	105	35.3	1.28	1.94	45.19	.6			16	0	1/3	"

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.64

Discharge measurements of Rio Hondo

~~At~~ 1000' above Mission Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs.	G. Ht. change Total	Time Hours	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.			
57	4/8	Brewster	90.0	21.3	1.38	1.90	29.40	.6			16	.04	1/3	271 666
58	15	"	24.0	9.22	1.22	1.74	11.21	.6			11	0	"	" "
59	22	"	44.0	10.9	1.07	1.76	11.64	.6			11	0	"	" "
60	29	"	36.0	10.1	1.19	1.79	11.96	.6			9	0	1/4	" "
61	5/6	"	22.0	9.82	1.21	1.78	11.93	.6			10	0	1/3	" "
62	13	"	28.0	9.74	1.20	1.76	11.65	.6			10	.01	"	" "
63	20	"	19.0	8.75	1.21	1.75	10.60	.6			9	0	"	" "
64	27	"	26.0	10.2	1.16	1.82	11.87	.6			11	0	"	" "
65	6/3	"	19.0	8.64	1.38	1.82	11.94	.6			10	0	"	" "
66	10	"	21.0	8.45	1.33	1.75	11.27	.6			10	0	"	" "
67	17	"	32.0	8.94	1.17	1.82	10.46	.6			9	0	"	" "
68	24	"	22.0	7.54	1.24	1.76	9.38	.6			8	0	"	" "
69	7/1	"	25.0	8.02	1.14	1.80	9.12	.6			9	0	"	" "
70	8	"	21.0	7.20	1.27	1.78	9.15	.6			7	0	"	" "
71	15	"	33.0	8.04	1.06	1.79	8.50	.6			11	0	"	" "
72	22	"	19.0	6.08	1.35	1.82	8.19	.6			8	0	"	" "
73	29	"	16.0	6.22	1.33	1.80	8.25	.6			8	.01	1/4	" "
74	8/5	"	20.0	5.92	1.19	1.77	7.03	.6			11	.01	"	" "
75	12	"	14.0	5.90	1.35	1.78	7.99	.6			7	.01	"	" "
76	18	"	18.0	5.74	1.24	1.78	7.10	.6			9	0	"	" "
77	9/1	"	10.0	5.15	1.40	1.78	7.20	.6			10	0	"	" "
78	7	"	17.0	6.62	1.21	1.78	7.99	.6			10	0	"	" "
79	15	"	9.0	4.65	1.50	1.78	7.46	.6			7	0	1/5	" "
80	22	"	10.0	4.29	1.61	1.79	6.90	.6			8	0	1/6	" "
81	29	"	16.0	5.20	1.38	1.85	7.18	.6			6	0	1/4	" "

F.C. Dist.—Form 101—1000—9-31

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

~~At~~ 1000 Ft. above Mission Bridge for the Year Ending September 30, 19 32

Drainage Area 349.9 Square Miles. [O. L. Brewster-R.F.Lindsay Observer.] Gage Read Used rating table dated 1931 - 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 64

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	1.07	4.3	1.27	25.2	1.23	19.2	1.23	19.2	H	534.6	1.63	124.0
2	1.07	4.3	1.24	20.6	1.23	19.2	1.40	51.0	2.24	506.6	1.63	124.0
3	1.04	3.3	1.26	23.6	1.24	20.6	1.27	25.2	1.81	209.6	1.63	124.0
4	1.04	3.3	1.25	22.0	1.23	19.2	1.27	25.2	1.50	78.0	1.62	120.0
5	1.06	3.9	1.26	23.6	1.24	20.6	1.25	22.0	1.31	32.0	1.59	108.4
6	1.05	3.5	1.24	20.6	1.21	16.4	1.26	23.6	1.28	26.8	1.56	97.6
7	1.05	3.5	1.26	23.6	1.22	17.8	1.26	23.6	1.32	34.0	1.53	87.6
8	1.05	3.5	1.26	23.6	H	75.6	1.26	23.6	H	1181.0	1.51	81.2
9	1.05	3.5	1.23	19.2	H	93.5	1.27	25.2	H	5092.0	1.49	75.2
10	1.05	3.5	1.25	22.0	1.19	13.8	1.27	25.2	H	1845.5	1.48	72.4
11	1.07	4.3	1.26	23.6	H	28.4	1.27	25.2	2.61	876.6	1.45	64.0
12	1.09	5.1	1.24	20.6	1.17	11.4	1.27	25.2	2.21	481.4	1.44	61.4
13	1.07	4.3	1.23	19.2	1.18	12.6	1.27	25.2	2.02	338.6	1.37	44.4
14	1.09	5.1	1.23	19.2	H	91.0	1.28	26.8	1.99	318.2	1.39	48.8
15	1.18	12.6	H	151.0	1.27	25.2	1.33	36.0	1.87	243.6	1.39	48.8
16	1.17	11.4	1.24	20.6	1.23	19.2	1.28	26.8	1.95	292.0	1.36	42.2
17	1.19	13.8	1.24	20.6	1.25	22.0	1.26	23.6	1.77	188.4	1.35	40.0
18	1.20	15.0	1.24	20.6	1.26	23.6	1.23	19.2	1.78	193.6	1.36	42.2
19	1.20	15.0	1.25	22.0	1.25	22.0	1.27	25.2	1.74	173.2	1.38	46.6
20	1.18	12.6	1.25	22.0	1.27	25.2	1.25	22.0	1.71	158.8	1.40	51.0
21	1.19	13.8	1.27	25.2	H	44.8	1.25	22.0	1.69	149.6	1.41	53.6
22	1.18	12.6	1.25	22.0	1.26	23.6	1.25	22.0	1.66	136.4	1.41	53.6
23	1.21	16.4	1.27	25.2	1.26	23.6	1.24	20.6	1.67	140.8	1.38	46.6
24	1.23	19.2	1.27	25.2	1.26	23.6	1.26	23.6	1.67	140.8	1.38	46.6
25	1.22	17.8	1.28	26.8	H	219.2	1.27	25.2	1.65	132.0	1.37	44.4
26	1.22	17.8	1.28	26.8	1.28	26.8	1.26	23.6	1.66	136.4	1.37	44.4
27	1.23	19.2	H	225.1	1.27	25.2	1.25	22.0	1.65	132.0	1.37	44.4
28	1.23	19.2	1.28	26.8	H	718.9	1.25	22.0	1.65	132.0	1.37	44.4
29	1.23	19.2	1.27	25.2	H	595.8	1.26	23.6	1.64	128.0	1.37	44.4
30	1.24	20.6	1.25	22.0	1.38	46.6	1.28	26.8	-	-	1.37	44.4
31	1.25	22.0	-	-	1.24	20.6	H	448.5	-	-	1.37	44.4
TOTAL		333.6		1013.7		2365.2		1198.9		14032.5		2015.0
Mean Daily Discharge in Second-feet		10.76		33.79		76.30		38.67		483.88		65.00
Second-feet per square mile		0.03		0.10		0.22		0.11		1.38		0.19
Run-off, depth in inches		0.04		0.11		0.25		0.13		1.49		0.21
Run-off in acre-feet		661.7		2010.7		4691.4		2378.0		27833.5		3996.8
Maximum Mean Daily Discharge in Second-feet		22.0		225.1		718.9		448.5		5092.0		124.0
Minimum Mean Daily Discharge in Second-feet		3.3		19.2		11.4		19.2		26.8		44.4

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1	1.37	44.4	1.22	17.8	1.21	16.4	1.16	10.2	1.19	13.8	1.19	13.8
2	1.37	44.4	1.24	20.6	1.21	16.4	1.17	11.4	1.20	15.0	1.18	12.6
3	1.35	40.0	1.23	19.2	1.21	16.4	1.18	12.6	1.18	12.6	1.18	12.6
4	1.35	40.0	1.23	19.2	1.22	17.8	1.19	13.8	1.18	12.6	1.17	11.4
5	1.31	32.0	1.23	19.2	1.25	22.0	1.21	16.4	1.17	11.4	1.20	15.0
6	1.29	28.4	1.23	19.2	1.25	22.0	1.22	17.8	1.18	12.6	1.20	15.0
7	1.25	22.0	1.24	20.6	1.26	23.6	1.20	15.0	1.19	13.8	1.20	15.0
8	1.25	22.0	1.25	22.0	1.27	25.2	1.20	15.0	1.20	15.0	1.20	15.0
9	1.23	19.2	1.23	19.2	1.28	26.8	1.20	15.0	1.18	12.6	1.20	15.0
10	1.21	16.4	1.23	19.2	1.24	20.6	1.21	16.4	1.17	11.4	1.20	15.0
11	1.19	13.8	1.24	20.6	1.25	22.0	1.18	12.6	1.20	15.0	1.21	16.4
12	1.24	20.6	1.24	20.6	1.25	22.0	1.20	15.0	1.18	12.6	1.21	16.4
13	1.24	20.6	1.22	17.8	1.22	17.8	1.20	15.0	1.18	12.6	1.23	19.2
14	1.24	20.6	1.24	20.6	1.21	16.4	1.19	13.8	1.18	12.6	1.25	22.0
15	1.26	23.6	1.24	20.6	1.22	17.8	1.16	10.2	1.21	16.4	1.21	16.4
16	1.27	25.2	1.22	17.8	1.21	16.4	1.16	10.2	1.19	13.8	1.21	16.4
17	1.25	22.0	1.21	16.4	1.20	15.0	1.17	11.4	1.19	13.8	1.21	16.4
18	1.24	20.6	1.19	13.8	1.22	17.8	1.15	9.0	1.17	11.4	1.22	17.8
19	1.24	20.6	1.17	11.4	1.22	17.8	1.16	10.2	1.17	11.4	1.24	20.6
20	1.24	20.6	1.16	10.2	1.15	9.0	1.15	9.0	1.17	11.4	1.22	17.8
21	1.23	19.2	1.17	11.4	1.18	12.6	1.14	8.3	1.17	11.4	1.21	16.4
22	1.24	20.6	1.18	12.6	1.22	17.8	1.17	11.4	1.17	11.4	1.20	15.0
23	1.24	20.6	1.19	13.8	1.18	12.6	1.17	11.4	1.16	10.2	1.20	15.0
24	1.24	20.6	1.20	15.0	1.19	13.8	1.17	11.4	1.15	9.0	1.23	19.2
25	1.25	22.0	1.20	15.0	1.19	13.8	1.17	11.4	1.16	10.2	1.23	19.2
26	1.26	23.6	1.21	16.4	1.19	13.8	1.16	10.2	1.18	12.6	1.23	19.2
27	1.23	19.2	1.19	13.8	1.18	12.6	1.17	11.4	1.19	13.8	1.22	17.8
28	1.22	17.8	1.18	12.6	1.18	12.6	1.19	13.8	1.19	13.8	1.22	17.8
29	1.23	19.2	1.19	13.8	1.14	8.3	1.18	12.6	1.19	13.8	1.21	16.4
30	1.22	17.8	1.18	12.6	1.18	12.6	1.18	12.6	1.19	13.8	1.21	16.4
31	-	-	1.18	12.6	-	-	1.18	12.6	1.21	16.4	-	-
TOTAL		717.6		516.8		509.70		387.10		398.20		492.20
Mean Daily Discharge in Second-feet		23.92		16.67		16.99		12.49		12.84		16.41
Second-feet per square mile		0.07		0.05		0.05		0.03		0.03		0.05
Run-off, depth in inches		0.08		0.05		0.05		0.03		0.03		0.05
Run-off in acre-feet		1423.4		1025.1		1010.7		767.6		787.6		976.0
Maximum Mean Daily Discharge in Second-feet		44.4		22.0		26.8		17.8		16.4		22.0
Minimum Mean Daily Discharge in Second-feet		13.8		10.2		8.3		9.0		9.0		11.4

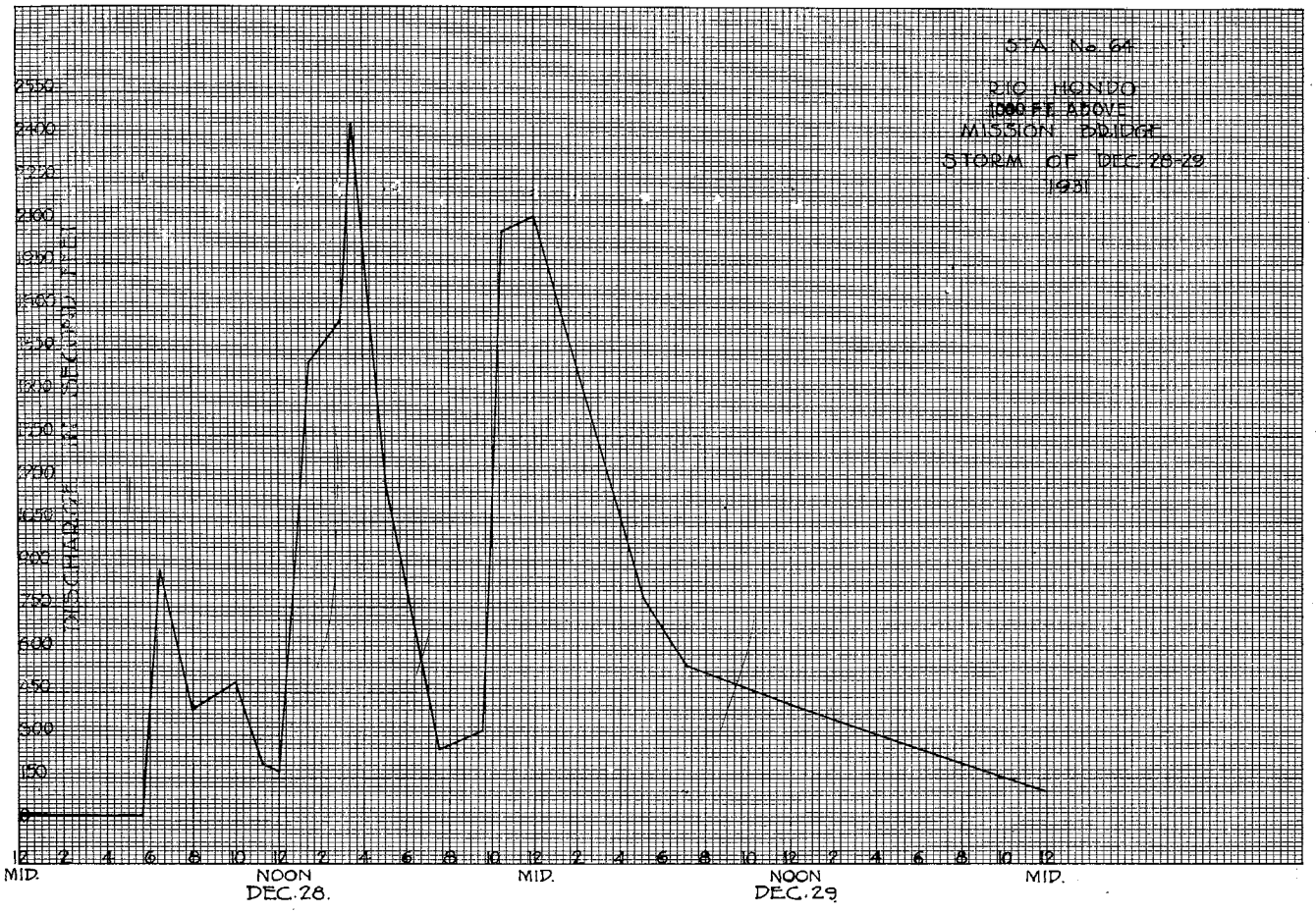
Maximum stage 5.10 feet at 1:40 AM on February 9, 1931 Discharge 6317 second-feet.
Minimum stage .96 feet at 6 PM on Oct. 2, 1931 Discharge 1.70 second-feet.
Adjustments here applied to all gage heights.

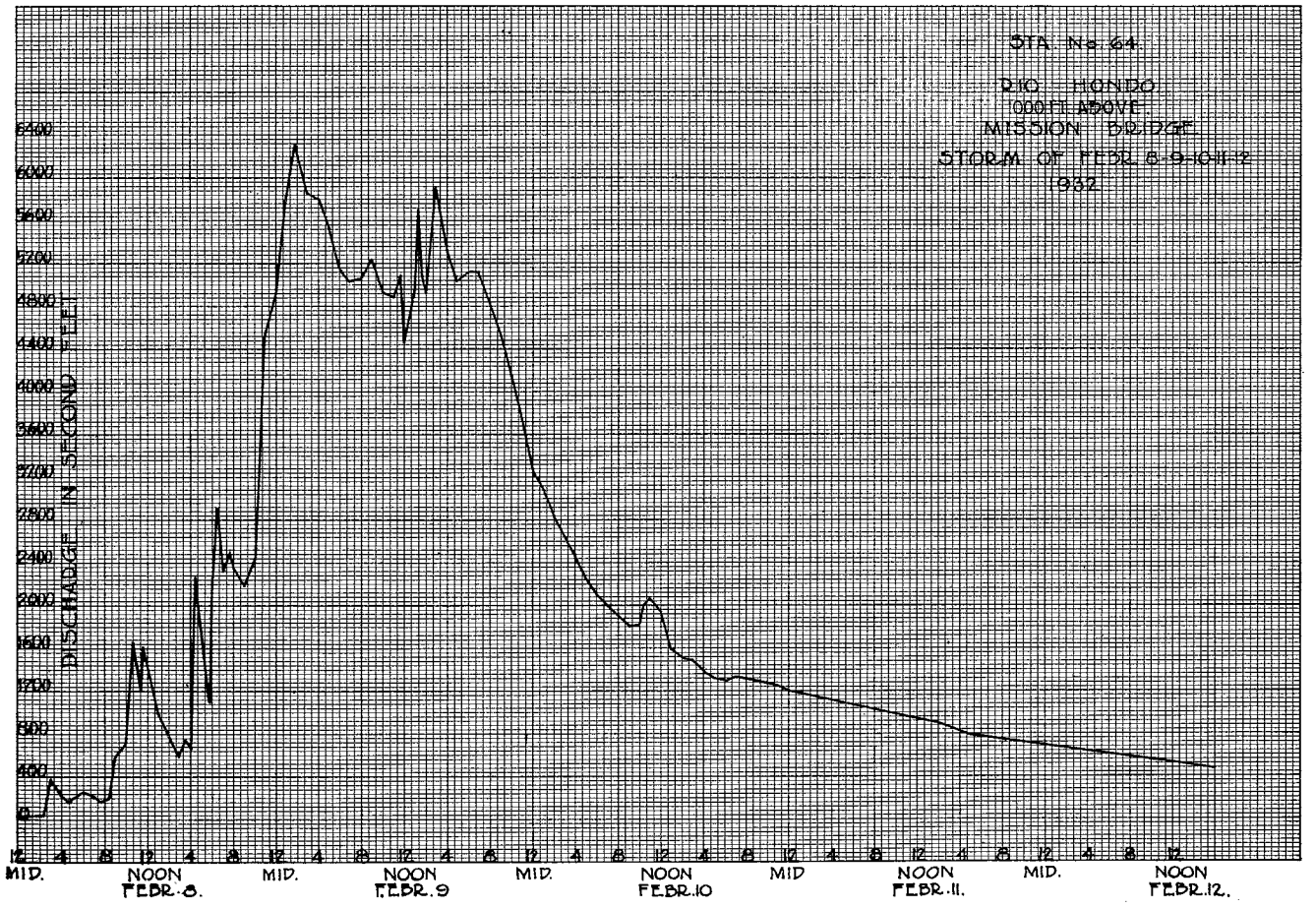
	DAY	Fourth	Third	Second	First	Quarter	Computed	Checked	Date
WTK.			CES	CES	CES				7/7/32
			CES	CES	CES				7/7/32
			CES						7/1/32
			CES	CES					7/1/32
			CES	CES	CES				7/1/32
			CES	CES	CES				7/1/32

	DAY	Fourth	Third	Second	First	Quarter	Ditch applied	Ditch checked	Date
					CES				7/1/32
				CES	CES				7/1/32
			CES	CES	CES				7/1/32
			CES	CES	CES				7/1/32
			CES	CES	CES				7/1/32
			CES	CES	CES				7/1/32

	DAY	Fourth	Third	Second	First	Quarter	G. H. copied	G. H. checked	Date
					CES				7/1/32
				CES	CES				7/1/32
			CES	CES	CES				7/1/32
			CES	CES	CES				7/1/32
			CES	CES	CES				7/1/32
			CES	CES	CES				7/1/32

PERIOD YEAR 47,564.5


STA. No. 64
RIO HONDO
1000 FT. ABOVE
MISSION BRIDGE
STORM OF DEC. 28-29
1931
DISCHARGE IN SECOND FEET
2550
2400
2250
2100
1950
1800
1650
1500
1350
1200
1050
900
750
600
450
300
150
0
12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
MID.
NOON
DEC. 28.
MID.
NOON
DEC. 29
MID.


STA. No. 64
RIO HONDO
1000 FT. ABOVE
MISSION BRIDGE
STORM OF FEBR. 8-9-10-11-12
1932
DISCHARGE IN SECOND FEET
6400
6000
5600
5200
4800
4400
4000
3600
3200
2800
2400
2000
1600
1200
800
400
0
12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12
MID.
NOON
FEBR. 8.
MID.
NOON
FEBR. 9
MID.
NOON
FEBR. 10
MID
NOON
FEBR. 11.
MID.
NOON
FEBR. 12.

F-45 R

RIO HONDO AT STEWART AND GRAY ROAD BRIDGE

Location
On highway bridge over Rio Hondo at Stewart and Gray Road about 1½ miles west of Downey, Los Angeles County, California, and 1/2 miles above junction of Rio Hondo and Los Angeles River.

Drainage Area
373 square miles

Installed by
California State Division of Water Rights, 1923.

Re-established by
Los Angeles County Flood Control District, March 1, 1928.

Records Available
Some records previous to March 1, 1928 in Bulletin No. 5 California State Division of Water Rights, San Gabriel Investigation. Records from March 1, 1928 to September 30, 1932 available at Los Angeles County Flood Control District, Los Angeles, Calif.

Gage
Rational 7 day water state recorder in small house set on top of corrugated pipe stilling well attached to bridge pier on downstream end.

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
1928-1929
Maximum-912 c.f.s. April 4, 1929
Minimum-Dry at various times during year
1929-1930
Maximum-743 c.f.s. March 15, 1930
Minimum-Dry at various times during year
1930-1931
Maximum-841 c.f.s. February 4, 1931
Minimum-Dry at various times during year

F. C. Dist. Form 104 HR 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

Discharge measurements of RIO HONDO

At Stewart and Gray Road Bridge, during the year ending September 30, 1932

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	
1	11/27	Seal	54.0	72.5	1.68	6.48	121.5	.6			11	.13	2/5	12 F.O.
2	11/27	Jordan	48.0	61.6	2.03	6.31	124.9	.6			11	.10	1/4	F.O.
3	12/9	Seal	70.0	97.4	2.19	6.56	213.1	.6			12	.04	2/5	F.O.
4	12/14	Seal	69.0	94.8	2.20	6.64	208.9	.6			13	.11	1/4	"
5	12/28	"	73.0	118.	2.90	6.98	342.6	.6			15	.02	1/4	"
6	12/28	"	100.	235.	4.98	8.22	1171.	.6			10	.35	5/6	"
	1932													
7	1/31	Seal - Cooper	85.0	164.	4.15	7.48	614.8	.6			9	.28	3/5	"
8	2/2	Seal - "	71.0	74.3	3.20	6.79	238.3	.6			16	.01	2/5	"
9	2/9	Seal - Slaughter	107.	339.	9.53	9.62	3232.	.6			15	.15	5/6	"
10	2/10	Seal - M. Fergis	110.	259.	7.59	8.10	1974.	.6			19	.41	1/3	"
11	2/11	" - Slaughter	90.0	135.	5.06	7.47	683.9	.6			18	.02	1/2	"
12	2/11	" "	90.0	116.	4.78	7.38	555.1	.6			14	0	2/5	"
13	2/12	" "	89.0	94.8	3.88	7.32	367.7	.6			18	0	1/3	"
14	2/12	" "	89.0	86.3	3.01	7.31	259.7	.6			19	0	"	"
15	2/13	" M. Fergis	89.0	79.9	1.93	7.17	154.0	.6			17	0	1/2	"
16	2/13	Slaughter	91.0	76.1	2.35	7.23	178.8	.6			23	.04	1.0	F.O. 23
17	2/14	Seal - Slaughter	89.5	64.9	2.70	7.15	175.4	.6			16	0	1/5	F.O. 12
18	2/14	" "	88.5	76.6	2.05	7.12	157.1	.6			16	.06	5/6	"
19	2/15	Slaughter	37.0	35.9	2.25	7.00	81.0	.6			12	.01	2/5	F.O. 23
20	2/16	Seal - Cooper	89.5	83.1	2.92	7.25	243.2	.6			16	.01	1/4	F.O. 12
21	2/17	" "	86.5	50.2	1.84	7.16	92.5	.6			17	.04	1/3	"
22	2/19	Cooper	2 channels			7.00	39.6	.6			15	.03	2/5	F.O. 23
23	2/23	"	15.5	7.2	1.12	6.75	8.1	.6			10	0	2/5	"
24	2/26	"	15.3	5.4	0.95	6.72	5.1	.6			10	0	1/4	"
25	3/4	"	8.0	3.5	0.51	6.67	1.8	.6			8	0	1/3	F.O. 12

F-45 R

Extremes of Discharge (cont'd.)
1931-1932
Maximum - 4610 c.f.s. Feb. 9, 1932
Minimum - Dry at various times during year.

Diversions
Arroyo Ditch diverts from stream near Beverly Boulevard.

Regulation
None

Accuracy
Good for low flows. Bottom cuts and fills during high flows.

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

F. C. Dist. Form 104 HR 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 1535-A #45

Discharge measurements of RIO HONDO RIVER

at Stewart & Gray Road Bridge, during the year ending September 30, 1932

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	
	1932													
8	2/2	Ackerman-Van Ornum	85.5	86.6	3.52	6.90	304.9	.6			18			1
9	2	" "	86.5	79.6	3.10	6.78	246.6	.6			22			1
10	2	" "	86.5	73.9	3.08	6.71	227.1	.6			22			1
11	2	" "	86.0	68.7	2.95	6.66	202.4	.6			22			1
12	2	" "	86.0	68.6	2.65	6.62	181.6	.6			23			1
13	3	" "	42.5	25.3	1.21	6.12	30.74	.6			13			1
14	3	" "	42.5	23.7	1.30	6.12	30.82	.6			15			1
15	3	" "	42.5	21.1	1.29	6.00	27.13	.6			14			1
16	3	Ackerman-Van Ornum	42.4	21.1	1.24	5.98	26.18	.6			16			1
17	3	" "	42.3	18.7	1.17	5.94	21.90	.6			17			1
18	3	Ackerman-Van Ornum	42.1	18.4	1.84	5.90	19.09	.6			12			1
19	11	Hayes-Strandwold	95.0	161.	4.09	7.45	761.4	.6			12			6
20	11	" "	95.0	152.	4.73	7.40	721.1	.6			10			6
21	12	" "	90.0	92.8	3.84	7.34	356.3	.6			20			6
22	12	" "	90.0	93.4	3.54	7.32	330.2	.6			19			6
23	12	" "	95.0	80.3	3.09	7.27	247.9	.6			20			6
24	13	" "	88.0	76.7	2.13	7.18	163.0	.6			19			6
25	13	" "	88.0	76.0	2.20	7.19	167.0	.6			20			6
26	15	"	37.1	37.2	2.33	7.01	86.79	.6			19			6
27	15	"	36.9	36.1	2.26	7.00	81.72	.6			20			6
28	15	"	36.6	37.9	2.07	6.98	78.29	.6			19			6
29	15	"	36.6	34.5	1.99	6.92	68.60	.6			19			6
30	17	Hayes-Ackerman	88.0	46.9	2.21	7.16	103.7	.6			23			1
31	17	" Ackerman	87.5	52.7	1.64	7.18	86.57	.6			24			1
32	2/18	Gifford-Hayes	73.5	43.9	1.57	7.15	68.91	.6						4
33	18	" "	75.0	45.6	1.76	7.19	80.20	.6						4
34	19	Hayes-Blakeley	62.0	33.0	1.32	7.02	43.56	.6						6
35	19	" "	62.0	29.0	1.23	6.99	35.56	.6						6
36	20	" "	57.6	31.2	1.26	7.01	39.40	.6						6
37	24	Gifford	10.5	4.95	1.32	6.74	6.54	.6						4
38	24	"	10.5	4.70	1.31	6.72	6.14	.6						4

Measurements made at suitable sections within 300 ft. of the bridge.

These measurements made by Pasadena Water Department. Not used in computing discharge.

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 45

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

At STEWART AND GRAY ROAD BRIDGE for the Year Ending September 30, 19 32

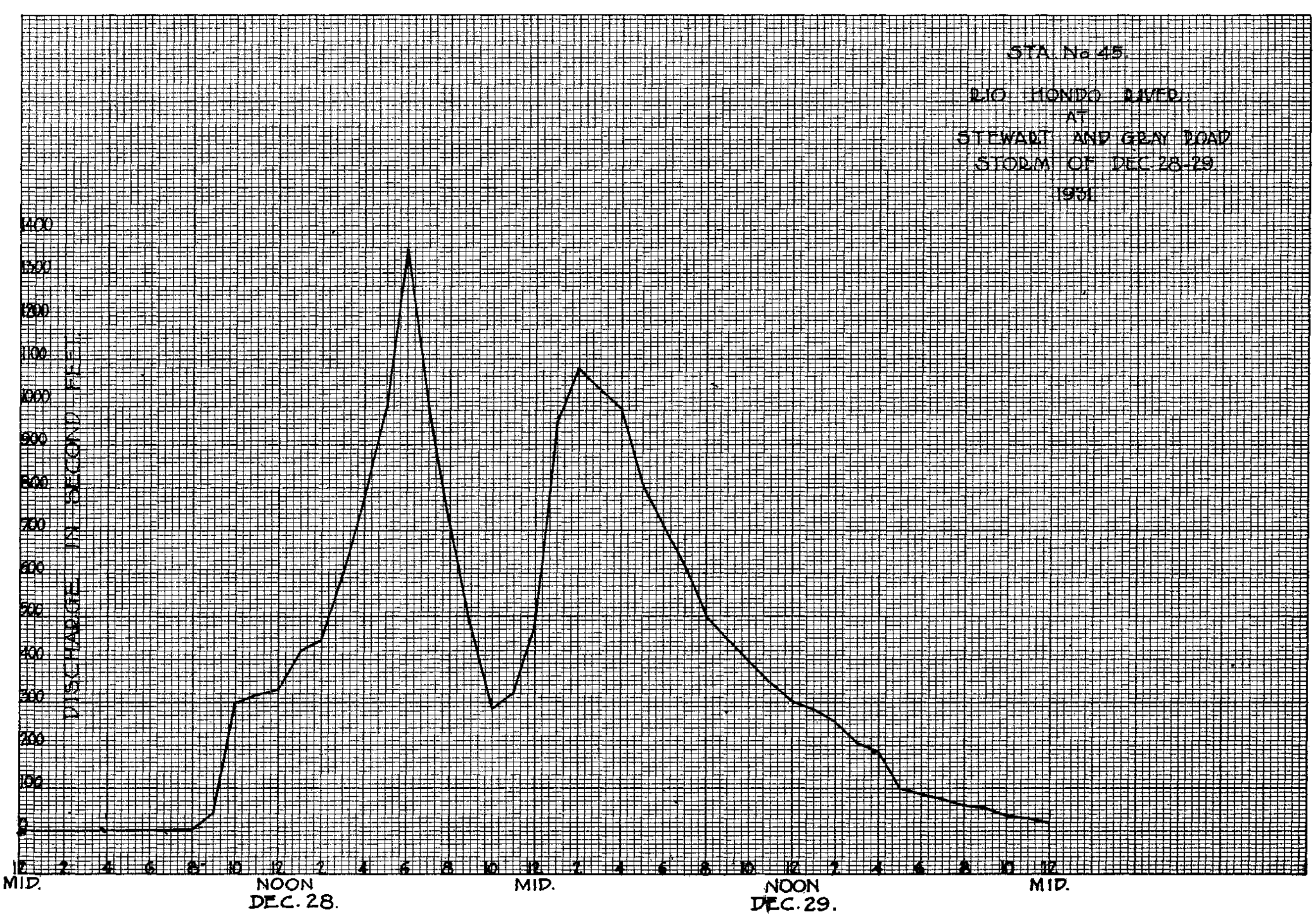
Drainage Area 373. Square Miles. [Seal, Cooper and Rupert Observer.] Gage Read Continuous Used rating table dated 6-23, 24, 27, 1932

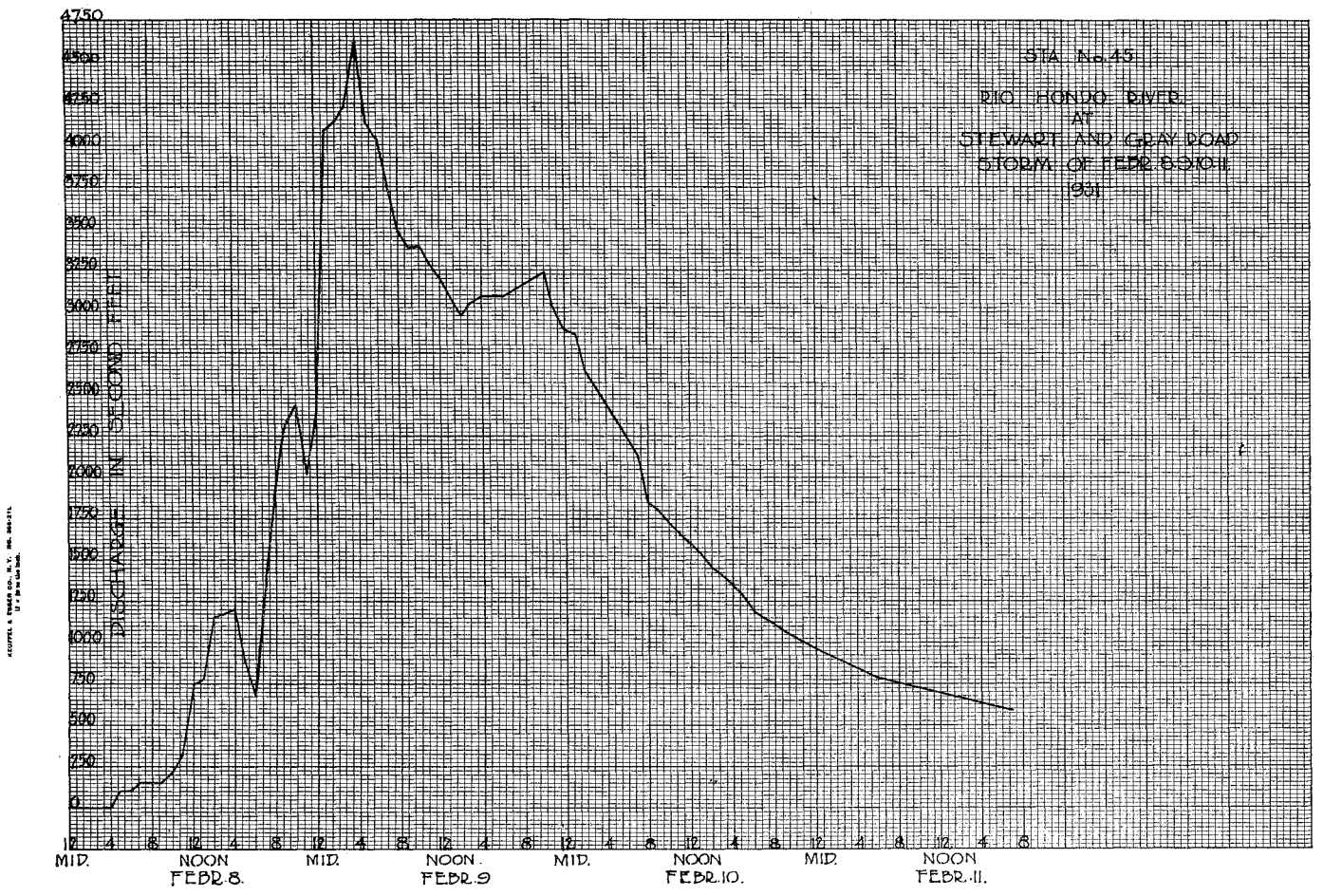
Maximum stage 10.35 feet at 4 A.M. on Feb. 9, 1932 Discharge 4610 second-feet.
Minimum stage Dry feet at Various on Times During Year Discharge second-feet.

NOTE - curve was projected in a straight line to ascertain maximum M.R.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1		Dry		Dry		Dry	4.87	2.56	H	877.8	6.70	3.79		Dry		Dry		Dry		Dry		Dry			
2						"	H	3.54	H	271.3	6.70	3.79	6.67	.30											
3						"	4.83	2.34	6.13	66.1	6.70	3.79		Dry											
4						"	4.68	1.52	5.60	11.8	6.72	5.11				DRY									
5						"	4.64	1.31	5.32	5.02	Est.	.01													
6						"		Dry	5.16	4.14		Dry													
7						"			5.10	3.82					6.62	.17									
8				DRY	4.71	.84			H	793.8					6.62	.20									
9					H	34.6		DRY	H	3437.9				DRY		Dry									
10					4.59	.83			H	1745.3															
11						Dry			H	708.5															
12						"			7.43	358.3															
13			Est	.02		"			7.19	172.1															
14			4.60	1.09	H	11.9			7.12	123.6		DRY	6.65	.43											
15			H	5.55	4.88	2.61	Est.	.01	7.03	46.4			6.63	.26				DRY		DRY		DRY		DRY	
16			4.53	.35	4.55	.68		Dry	H	229.3				Dry											
17				Dry		Dry			H	189.4			6.67	1.21											
18		DRY				"			7.18	165.2				Dry											
19						"			H	127.5				"		DRY									
20				DRY		"			6.90	26.6				"											
21					4.92	2.84			6.78	11.8			6.63	.20											
22					4162	.80			6.73	4.08				Dry											
23						Dry		DRY	6.73	3.05				"											
24			4.60	.05		Dry			6.73	3.57				"											
25			4.65	.17	H	79.6			6.71	2.23			6.66	.52											
26			4.65	.17	4.95	3.00			6.72	3.84			6.62	.17											
27			H	21.80	4.69	1.38			6.67	1.81	6.64	.43		Dry											
28			4.76	1.96	H	358.3			6.70	3.79	6.64	2.09	6.62	.20											
29			4.61	.57	H	412.0			6.70	3.79	6.72	3.41		Dry											
30				Dry	5.05	3.54	4.88	.65	-	-	6.70	1.74		"											
31			-	-	4.88	2.62	H	157.3	-	-	6.65	.65	-	-											
TOTAL,		0		31.73		915.54		169.23		8901.89		24.81		3.29		.37		0		0		0		0	
Mean Daily Discharge in Second-feet		0		1.06		29.53		5.46		317.92		0.80		0.11		.01									
Second-feet per square mile		0		.003		.079		.015		.852		.002		0		0		0		0		0		0	
Run-off, depth in inches																									
Run-off in acre-feet		0		62.93		1815.97		335.58		17,652.45		49.20		6.52		0.73		0		0		0		0	19,923.38
Maximum Mean Daily Discharge in Second-feet		0		21.80		412.3		157.30		3437.92		5.11		.52				0		0		0		0	
Minimum Mean Daily Discharge in Second-feet		0		0		0		0		1.81		0		0		0		0		0		0		0	

Quarter	First	Second	Third	Fourth
Computed		Rupert		
Checked	C.E.B.			
Date	10/35			





F-83 R

RIO HONDO SLOUGH AT SAN GABRIEL BOULEVARD 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 previous to June 14, 1930.

Records Available
July 2, 1928 to September 30, 1932 at office of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Rational, 7 day water stage recorder in shelter house on top of corrugated iron stilling well attached to upstream end of west bridge abutment.

Discharge Measurements
All flow measured by wading.

Channel and Control
Sand banks overgrown with weeds.
No control.

Extremes of discharge
1929-1930
Maximum-19.69 c.f.s. on February 3, 1930.
Minimum-13.52 c.f.s. on September 12, 1930.
1930-1931
Maximum-49.04 c.f.s. February 4, 1931
Minimum-11.63 c.f.s. September 18, 1931
1931-1932
Maximum-44.25 c.f.s. Feb. 8, 1932
Minimum-0.44 c.f.s. Oct. 15, 1931

Diversion
Some water pumped from stream for irrigation above station.

Accuracy
Good

F-83 R

Regulation
None

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

F. C. Dist. Form 104 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C. 83

Discharge measurements of Rio Hondo Slough

at San Gabriel Boulevard Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating: Percent diff.	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.	Total	Hours	271
	1931													
1	10/2	Brewster	10.0	7.09	1.98	0.61	14.0		.6		10	0	1/3	666
2	9	"	10.0	6.77	2.05	0.57	13.9		.6		10	0	1/3	"
3	16	"	10.0	5.99	2.12	0.50	12.7		.6		10	0	1/4	"
4	23	"	10.0	6.98	2.09	0.59	14.6		.6		10	0	1/3	"
5	30	"	10.0	6.37	2.15	0.53	13.7		.6		10	0	"	"
6	11/6	"	10.0	6.32	2.15	0.52	13.6		.6		10	0	"	"
7	13	"	10.0	6.66	2.05	0.54	13.6		.6		10	0	"	"
8	20	"	10.0	6.87	2.18	0.55	15.0		.6		10	0	"	"
9	27	"	10.0	9.41	1.87	0.80	17.6		.6		10	0	"	"
10	12/4	"	10.0	6.96	2.16	0.58	15.0		.6		10	0	"	"
11	11	"	10.0	9.87	2.01	0.84	19.8		.6		10	0	"	"
12	18	"	10.0	8.39	1.97	0.69	16.5		.6		10	0	"	"
13	24	"	10.0	7.63	1.97	0.61	15.0		.6		10	0	1/4	"
	1932													
15	1/8	"	10.0	7.69	2.22	0.63	17.0		.6		10	0	1/3	"
16	15	"	10.0	8.05	2.26	0.69	18.1		.6		10	0	"	"
17	22	"	10.0	7.59	2.40	0.63	18.2		.6		10	0	"	"
18	29	"	10.0	7.31	2.39	0.60	17.5		.6		10	0	"	"
19	2/5	"	10.0	7.67	2.30	0.66	17.6		.6		10	0	"	"
20	13	"	10.0	8.68	2.21	0.76	19.27		.6		10	.02	"	"
21	19	"	10.0	9.01	2.22	0.74	20.04		.6		10	0	"	"
22	26	"	10.0	8.49	2.24	0.72	18.0		.6		10	0	1/4	"
23	3/4	"	10.0	7.35	2.32	0.67	17.0		.6		10	0	1/3	"
24	11	"	10.0	7.51	2.46	0.65	18.4		.6		10	0	1/4	"
25	18	"	10.0	7.45	2.31	0.67	17.23		.6		10	0	1/6	"
26	25	"	13.0	17.1	1.01	0.69	17.3		.6		11	.02	1/3	"
27	4/1	"	13.0	16.2	1.01	0.64	16.3		.6		9	0	1/3	"

F. C. Dist. Form 104 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C. 83

Discharge measurements of Rio Hondo Slough

at San Gabriel Boulevard Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating: Percent diff.	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.	Total	Hours	271
	1932													
28	4/8	Brewster	10.0	7.10	2.26	0.66	16.1		.6		10	0	1/4	666
29	15	"	10.0	6.80	2.35	0.64	15.9		.6		10	0	1/3	"
30	22	"	10.0	7.20	2.22	0.65	16.0		.6		10	0	1/3	"
31	29	"	10.0	7.88	2.21	0.68	17.4		.6		10	0	1/4	"
32	5/6	"	10.0	7.79	2.15	0.71	16.7		.6		10	0	1/3	"
33	13	"	10.0	7.45	2.31	0.69	17.1		.6		10	0	1/4	"
34	20	"	10.0	6.98	2.42	0.65	16.9		.6		10	0	1/3	"
35	27	"	10.0	6.90	2.37	0.66	16.4		.6		10	0	"	"
36	6/3	"	10.0	6.94	2.43	0.66	16.8		.6		10	0	1/4	"
37	10	"	10.0	7.17	2.34	0.64	16.8		.6		10	0	1/3	"
38	17	"	10.0	7.19	2.27	0.66	16.3		.6		10	0	"	"
39	24	"	10.0	6.77	2.35	0.62	15.9		.6		10	.01	1/4	"
40	7/1	"	10.0	7.70	1.98	0.67	15.3		.6		10	0	1/3	"
41	8	"	10.0	7.60	2.05	0.65	15.6		.6		10	0	1/3	"
42	15	"	10.0	7.56	2.09	0.66	15.8		.6		10	0	1/4	"
43	22	"	11.0	8.91	1.94	0.72	17.6		.6		11		1/4	
44	29	"	10.0	7.43	2.02	0.62	14.9		.6		10		1/4	
45	8/5	"	10.0	8.34	1.85	0.68	15.4		.6		10		1/3	
46	12	"	10.0	7.86	1.90	0.65	14.9		.6		10		1/4	
47	18	"	10.0	7.34	1.34	0.60	14.2		.6		10		1/4	
48	25	"	10.0	7.67	1.95	0.63	14.9		.6		10		1/3	
49	9/1	"	10.0	8.18	1.84	0.65	15.0		.6		10		1/4	
50	7	"	10.0	8.21	1.77	0.67	14.5		.6		10		1/4	
51	15	"	10.0	9.66	1.51	0.81	14.6		.6		10		1/3	
52	22	"	11.0	10.2	1.52	0.82	15.5		.6		11		1/4	
53	29	"	11.0	9.71	1.64	0.78	15.9		.6		11		1/4	

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of RIO HONDO SLOUGH

At SAN GABRIEL BLVD. BRIDGE for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 83

Drainage Area .... Square Miles. [BREWSTER Observer.] Gage Read CONTINUOUS Used rating table dated Aug. 23, 1932

Maximum stage 1.77 feet at 6 PM on Feb. 8, 1932 Discharge 44.25 second-feet.

Minimum stage 0.44 feet at 2 PM on Oct. 15, 1931 Discharge 11.00 second-feet.

Adjustment curve used on gage heights

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	.53	13.25	60	15.00	.64	16.00	.73	18.00	1.00	25.00	.72	18.00
2	.53	13.25	.60	15.00	.64	16.00	.79	19.75	.88	22.00	.72	18.00
3	.53	13.25	.60	15.00	.63	15.75	.73	18.00	.81	20.25	.71	17.75
4	.53	13.25	.60	15.00	.63	15.75	.71	17.75	.77	19.75	.70	17.50
5	.53	13.25	.59	14.75	.63	15.75	.70	17.50	.73	18.25	.70	17.50
6	.54	13.50	.58	14.50	.65	16.25	.70	17.50	.74	18.50	.71	17.75
7	.54	13.50	.62	15.50	.65	16.25	.70	17.50	.75	18.75	.71	17.75
8	.53	13.25	.66	16.50	.83	20.75	.70	17.50	1.24	31.00	.72	18.00
9	.53	13.25	.66	16.50	.94	23.50	.70	17.50	1.47	36.75	.72	18.00
10	.53	13.25	.66	16.50	.72	18.00	.70	17.50	1.14	28.50	.73	18.25
11	.53	13.25	.66	16.50	.73	18.25	.70	17.50	.98	24.50	.75	18.75
12	.53	13.25	.66	16.50	.70	17.50	.70	17.50	.81	20.25	.76	19.00
13	.54	13.50	.62	15.50	.69	17.25	.70	17.50	.78	19.50	.75	18.75
14	.54	13.50	.61	15.25	.76	19.00	.70	17.50	.76	19.00	.75	18.75
15	.54	13.50	.72	18.00	.77	19.25	.70	17.50	.77	19.25	.74	18.50
16	.54	13.50	.63	15.75	.72	18.00	.71	17.75	.84	21.00	.73	18.25
17	.55	13.75	.64	16.00	.70	17.50	.71	17.75	.84	21.00	.72	18.00
18	.57	14.25	.65	16.25	.69	17.25	.72	18.00	.84	21.00	.71	17.75
19	.57	14.25	.66	16.50	.67	16.75	.73	18.25	.81	20.25	.70	17.50
20	.58	14.50	.66	16.50	.67	16.75	.74	18.50	.80	20.00	.69	17.25
21	.58	14.50	.66	16.50	.71	17.75	.74	18.50	.79	19.75	.70	17.50
22	.57	14.25	.64	16.00	.70	17.50	.73	18.25	.77	19.25	.71	17.75
23	.57	14.25	.62	15.50	.69	17.25	.73	18.25	.76	19.00	.71	17.75
24	.57	14.25	.61	15.25	.68	17.00	.73	18.25	.75	18.75	.71	17.75
25	.57	14.25	.59	14.75	.86	21.50	.73	18.25	.74	18.50	.71	17.75
26	.60	15.00	.56	14.00	.77	19.25	.73	18.25	.73	18.25	.68	17.00
27	.59	14.75	.58	14.50	.78	19.50	.73	18.25	.73	18.25	.66	16.50
28	.59	14.75	.62	15.50	1.30	32.50	.73	18.25	.73	18.25	.66	16.50
29	.59	14.75	.59	14.75	1.06	26.50	.73	18.25	.73	18.25	.66	16.50
30	.59	14.75	.61	15.25	.82	20.50	.74	18.50	-	-	.66	16.50
31	.59	14.75	-	-	.76	19.00	.81	20.25	-	-	.66	16.50
TOTAL		430.50		469.00		579.75		559.85		613.25		549.00
Mean Daily Discharge in Second-feet		13.89		15.62		18.70		18.06		21.15		17.79
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		853.68		930.03		1149.64		1110.18		1216.07		1088.67
Maximum Mean Daily Discharge in Second-feet		15.00		18.00		32.50		20.25		36.75		19.00
Minimum Mean Daily Discharge in Second-feet		13.25		14.50		15.75		17.50		18.25		16.50

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period Year
1	.66	16.50	.68	17.00	.63	15.75	.58	14.50	.62	15.50	.61	15.25	
2	.66	16.50	.67	16.75	.63	15.75	.62	15.50	.61	15.25	.60	15.00	
3	.65	16.25	.66	16.50	.64	16.00	.65	16.25	.59	14.75	.60	15.00	
4	.65	16.25	.65	16.25	.66	16.50	.65	16.25	.58	14.50	.61	15.25	
5	.65	16.25	.64	16.00	.66	16.50	.65	16.25	.57	14.25	.60	15.00	
6	.64	16.00	.63	15.75	.66	16.50	.65	16.25	.57	14.25	.62	15.50	
7	.64	16.00	.64	16.00	.66	16.50	.64	16.00	.60	15.00	.65	16.25	
8	.64	16.00	.66	16.50	.66	16.50	.64	16.00	.60	15.00	.72	18.00	
9	.64	16.00	.66	16.50	.67	16.75	.63	15.75	.59	14.75	.71	17.75	
10	.65	16.25	.67	16.75	.68	17.00	.63	15.75	.57	14.25	.71	17.75	
11	.66	16.50	.67	16.75	.66	16.50	.63	15.75	.58	14.50	.71	17.75	
12	.66	16.50	.65	16.25	.66	16.50	.63	15.75	.58	14.50	.65	16.25	
13	.65	16.25	.65	16.25	.65	16.25	.63	15.75	.58	14.50	.66	16.50	
14	.65	16.25	.66	16.50	.65	16.25	.63	15.75	.59	14.75	.64	16.00	
15	.65	16.25	.66	16.50	.65	16.25	.63	15.75	.60	15.00	.61	15.25	
16	.65	16.25	.66	16.50	.65	16.25	.62	15.50	.60	15.00	.59	14.75	
17	.65	16.25	.66	16.50	.65	16.25	.62	15.50	.60	15.00	.61	15.25	
18	.65	16.25	.67	16.75	.66	16.50	.62	15.50	.59	14.75	.61	15.25	
19	.65	16.25	.68	17.00	.66	16.50	.62	15.50	.58	14.50	.61	15.25	
20	.65	16.25	.69	17.25	.66	16.50	.62	15.50	.58	14.50	.61	15.25	
21	.65	16.25	.66	16.50	.65	16.25	.62	15.50	.59	14.75	.61	15.25	
22	.64	16.00	.65	16.25	.65	16.25	.62	15.50	.60	15.00	.61	15.25	
23	.67	16.75	.64	16.00	.66	16.50	.65	16.25	.59	14.75	.62	15.50	
24	.68	17.00	.64	16.00	.66	16.50	.65	16.25	.59	14.75	.63	15.75	
25	.68	17.00	.64	16.00	.64	16.00	.64	16.00	.59	14.75	.60	15.00	
26	.69	17.25	.63	15.75	.64	16.00	.62	15.50	.61	15.25	.60	15.00	
27	.70	17.50	.63	15.75	.63	15.75	.62	15.50	.62	15.50	.61	15.25	
28	.70	17.50	.63	15.75	.62	15.50	.62	15.50	.62	15.50	.63	15.75	
29	.71	17.75	.63	15.75	.62	15.50	.61	15.25	.64	16.00	.62	15.50	
30	.69	17.25	.63	15.75	.60	15.00	.60	15.00	.63	15.75	.65	16.25	
31	-	-	.63	15.75	-	-	.62	15.50	.63	15.75	-	-	
TOTAL		495.75		505.50		486.75		486.50		462.25		472.75	
Mean Daily Discharge in Second-feet		16.52		16.31		16.22		15.69		14.91		15.66	
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		983.07		1002.41		965.22		964.73		916.87		937.46	12,118.03
Maximum Mean Daily Discharge in Second-feet		17.75		17.25		17.00		16.25		16.00		18.00	
Minimum Mean Daily Discharge in Second-feet		16.00		15.75		15.00		14.50		14.25		14.75	

Quarter: Fourth, Third, Second, First — Computed WTK, Checked RHL, RHL; Dech. applied WTK; G. H. copied WTK

F-82 R

RUBIO WASH AT BROADWAY BRIDGE

Location
On west side of Rubio Wash, 300' East of the intersection of San Gabriel Boulevard and Broadway Street, 75' below Broadway Bridge, San Gabriel, Los Angeles County, California.

Drainage Area
13 square miles.

Installed by
The Los Angeles County Flood Control District November 1928.

Records Available
Stream measurements from November 1928 to September 30, 1929. Recorder records from October 1, 1929 to September 30, 1932. During the period October 1, 1930 to January 19, 1932 Recorder was located at Los Tunas Boulevard 1000' upstream. On January 20, 1932 the recorder was relocated below the Broadway Street Bridge.

Gage
Stevens Type L 8 day recorder installed in large shelter house on west side of channel on corrugated iron stilling well set outside of channel wall. Staff gage on concrete wall at stilling well inlet.

Discharge Measurements
Low water measurements made by wading.
High water measurements made from foot bridge 20' above station.

Channel and Control
Concrete channel with a drop 9' below gage. Small concrete dam for low flows. 7' drop 9' below station.

Extremes of Discharge
1929-1930
Maximum-660.60 c.f.s. March 14, 1930
Minimum-Dry most of year
1930-1931
Maximum-1690 c.f.s. on February 3, 1931
Minimum-Dry most of year
1931-1932
Maximum-798 c.f.s. November 27, 1931
Minimum-Dry most of year.

F-82 R

Diversion
None

Accuracy
Good

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

F. C. Dist. Form 164 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.82

Discharge measurements of Rubio Wash

at / near Broadway Avenue, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating (Percent diff.)	Method	Coef.	Meas. secs.	G. Ht. change Total	Time Hours	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.			
1	1/31	Harting & Laird	25.5	23.8	6.78	.93	161.7	.6				.05	1/4	271655
1A	31	" "	25.5	25.7	7.85	1.35	224.6	.6				0	1/2	"
2	2/1	" "	36.0	18.0	2.72	.67	49.01	.6				.55	1/3	"
3	1	" "	25.5	29.3	3.87	.98	113.4	.6				.04	1/3	"
4	2	" "	18.0	7.60	1.80	.29	13.67	.6				.03	1/6	"
5	8	" "	25.5	27.8	8.12	1.20	226.1	.6				0	1/3	"
6	8	" "	24.0	29.3	5.06	1.07	148.2	.6				0	1/3	"
7	8	" "	42.0	22.4	2.16	.66	48.30	.6				.02	1/3	"
8	9	" "	16.0	7.56	1.72	.27	12.98	.6				0	1/6	"
9	9	" "	36.0	44.7	3.0	.88	133.9	.6				.12	1/6	"
10	8/29	R. Lindsay	25.0	20.6	2.14	.58	44.26	.6				0	1/4	280 883

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of RUBIO WASH
At LOS TUNAS BOULEVARD / BROADWAY STREET BRIDGE for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

107
File No. 82

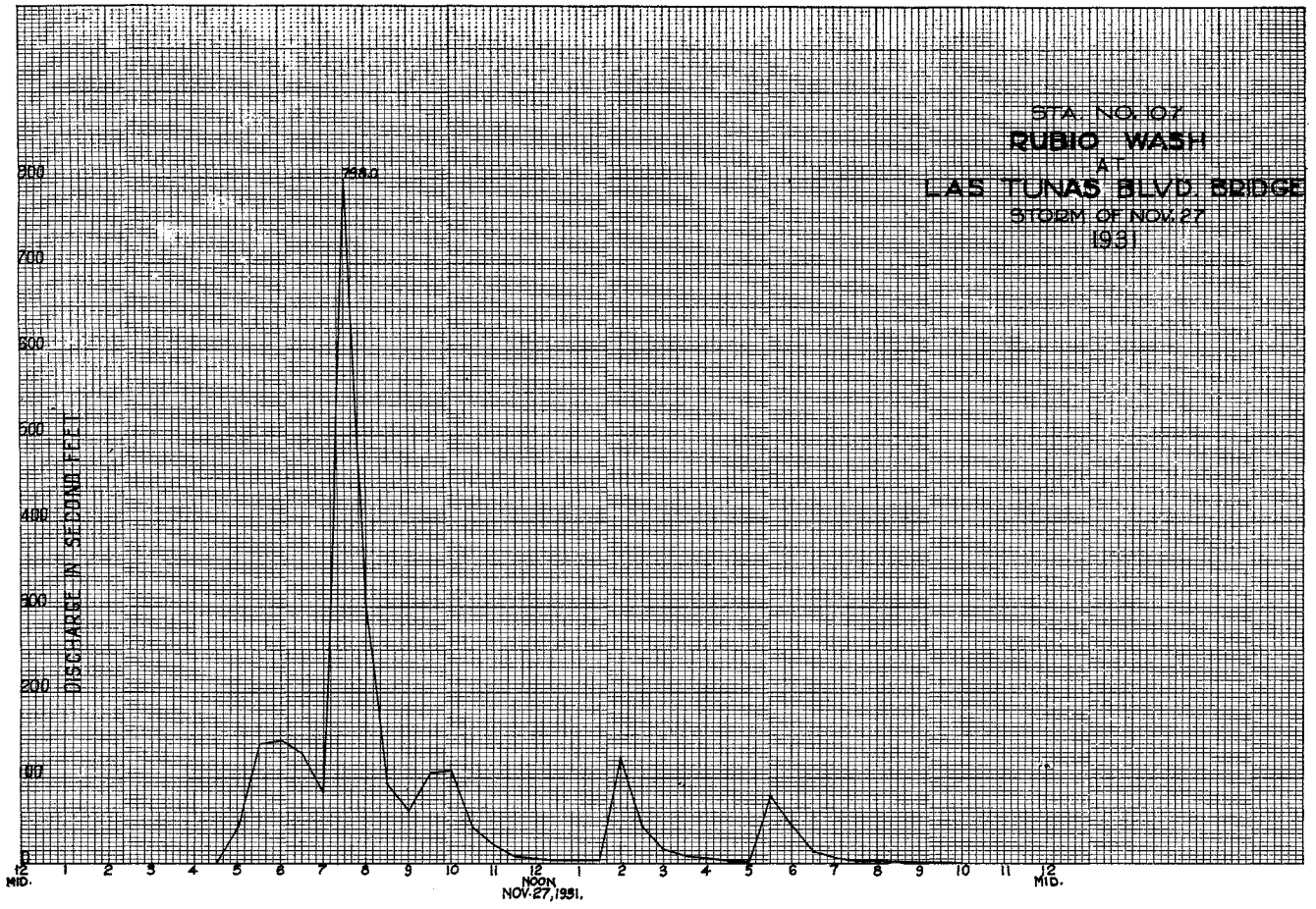
Drainage Area 13 Square Miles. [LINDSAY Observer.] Gage Read Continuous Used rating table dated

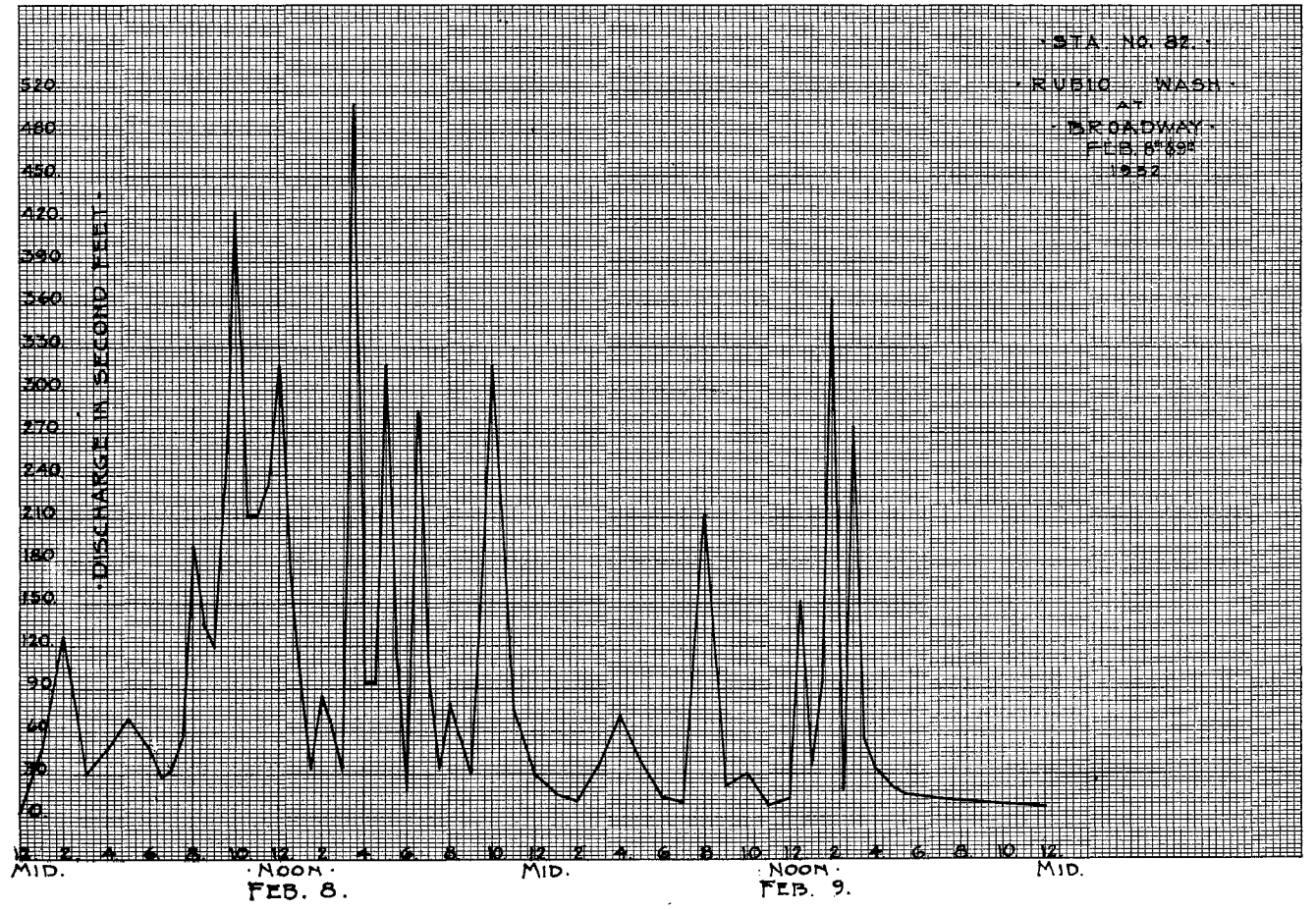
DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1								0	H	43.16		Dry
2							H	9.31	.10	3.00		
3								0		0		
4								0		0		
5				DRY		DRY	#107	moved		0		
6								0	2h	2.97		
7									h	.64		
8					H	31.80			H	124.		
9					H	5.39		DRY	H	46.		DRY
10						0			.12	3.90		
11		DRY	H	0.87	H	0.80			.01	.30		
12						0	H	.53		0		
13				DRY		0	H	5.02	h	2.73		
14					H	23.81			H	7.17		
15			H	43.54		0	H	5.39	.01	.30		
16						0			H	28.37		
17						0				0	h	.83
18	H	5.73				0			h	5.06	.01	.30
19	.01	.40			.02	.80				0		
20				DRY		0	#82	installed				
21					H	8.84						
22						0						
23						0						
24		DRY				0		DRY		DRY		DRY
25					H	45.49						
26						0						
27			H	51.26		0						
28					H	119.0						
29				DRY	.02	.80						
30						0	--	--				
31			-	-	H	3.03	H	105.0	-	-		
TOTAL		6.13		95.67		238.96		124.25		267.60		1.13
Mean Daily Discharge in Second-feet		.20		3.19		7.70		4.01		9.20		.04
Second-feet per square mile		.47		7.36		18.37		9.54		20.58		.08
Run-off, depth in inches												
Run-off in acre-feet		12.12		189.90		475.00		246.00		531.0		2.24
Maximum Mean Daily Discharge in Second-feet		5.73		51.26		119.00		105.00		124.00		.83
Minimum Mean Daily Discharge in Second-feet		0.0		0.0		0.0		0.0		0.0		0.0

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1					Dry							
2					"							
3					H	1.97						
4					.01	.30						
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15		DRY		DRY		DRY		DRY		DRY		DRY
16												
17												
18												
19												
20												
21												
22												
23												
24												
25	.01	.30										
26	H	10.82										
27		0										
28												
29											H	3.07
30												0
31	-	-									-	-
TOTAL		11.12		0		2.27		0		0		3.07
Mean Daily Discharge in Second-feet		.37		0		.07						0.10
Second-feet per square mile		.85		0		.17		0		0		.23
Run-off, depth in inches												
Run-off in acre-feet		22.03				4.50						6.10
Maximum Mean Daily Discharge in Second-feet		10.82				1.97						3.07
Minimum Mean Daily Discharge in Second-feet		0.0		0		0.0		0.0		0.0		0.0

Maximum stage 2.66 feet at 7:30 AM on Mar. 21st, 1931 Discharge 798.00 second-feet.
Minimum stage 0.0 feet at various dates Discharge 0.0 second-feet.
This station located at Las Tunas Boulevard until Jan. 5, 1932.
Jan. 20th, 1932 installed at Broadway Street, San Gabriel.

PERIOD YEAR 1489.00


STA. NO. 107
RUBIO WASH
AT
LAS TUNAS BLVD. BRIDGE
STORM OF NOV. 27
1931
DISCHARGE IN SECOND FEET
800
700
600
500
400
300
200
100
0
MID.
NOON
NOV. 27, 1931.
MID.


STA. NO. 82.
RUBIO WASH
AT
BROADWAY
FEB. 8"&9"
1952
DISCHARGE IN SECOND FEET
520
480
450
420
390
360
330
300
270
240
210
180
150
120
90
60
30
0
MID.
NOON
FEB. 8.
MID.
NOON
FEB. 9.
MID.

F-151 R

SAN ANTONIO CREEK AT MOUTH OF CANYON.

Location
200' upstream from headgates of Pomona Valley Protective Association spreading canal. 4 miles northeast of Claremont, Los Angeles County, Calif.

Drainage Area
26 square miles.

Installed by
Los Angeles County Flood Control District, February 20, 1931.

Records Available
February 20, 1931 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
Rational 7 day water stage recorder installed in shelter house, mounted on iron pipe stilling well on west bank of creek. Outside vertical staff gage installed on stilling well.

Discharge Measurements
High water measurements made from cable car 10' above recorder.
Low water measurements made by wading in creek near gage.

Channel and Control
Channel-gravel and boulders
Control-concrete control in channel below gage.

Extremes of Discharge
1930-1931
Maximum-98 c.f.s. on April 26, 1931
Minimum-Dry at various times during year.
1931-1932
Maximum-405 c.f.s. Feb. 8 & 9, 1932
Minimum-Dry at numerous times during year.

Diversions
Two diversions above station for power and irrigation use.

Regulation
None

Accuracy
Good normally

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

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 151

Discharge measurements of San Antonio Creek

near Mouth of Canyon, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-28	Brewster & Lee	43.0	21.2	2.60	.88	55.13		.6		9		1/3	271 666
2	12-29	Brewster & Lee	16.0	8.38	1.27	.45	10.60		.6		8		1/4	271 666
3	1933 1-2	Brewster	9.0	3.45	1.01	.36	3.48		.6		9		1/5	271 666
4	1-9	Brewster	10.0	4.52	.77	.35	3.49		.6		8		1/4	271 666
5	2-1	Brewster	10.0	3.65	1.68	.41	6.12		.6		10		1/5	271 666
6	2-10	Lee	31.0	27.85	3.78	4.74	105.14		.6		9		1/2	29
7	2-10	Lee	38.0	29.40	3.45	4.74	101.14		.6		19		2/3	29
8	2-11	Lee	23.0	19.70	3.62	4.66	71.38		.6		11		1/2	29
9	2-12	Lee	22.	20.20	3.38	4.60	68.40		.6		11		1/2	29
10	2-13	Lee	22.	18.50	3.54	4.56	61.94		.6		11		1/2	29
11	2-15	Lee	22.	15.60	2.90	4.48	45.06		.6		11		1/2	29
12	2-17	Lee	22.	17.20	3.03	4.48	52.21		.6		11		1/2	29
13	2-18	Lee	22.	15.90	2.66	4.46	42.28		.6		11		1/2	29
14	2-20	Lee	22.	15.30	2.33	4.40	35.59		.6		11		1/2	29
15	2-22	Lee & Martin	21.	14.25	2.41	4.39	34.32		.6		10		1/2	29
16	2-23	Lee & Martin	21.	14.50	2.60	4.39	37.63		.6		10		1/2	29
17	2-25	Lee & Martin	20.	14.40	2.29	4.39	32.95		.6		10		1/2	29
18	2-27	Lee & Martin	21.	13.10	2.49	4.41	32.63		.6		10		1/2	29
19	3-1	Lee & Martin	23.	17.35	2.61	4.46	45.07		.6		11		1/2	29
20	3-3	Lee & Martin	22.	16.70	2.56	4.47	43.60		.6		11		1/3	29
21	3-5	Lee & Martin	22.	15.40	2.61	4.46	40.19		.6		11		1/4	29
22	3-8	Lee & Martin	22.	16.70	2.5	4.46	41.52		.6		11		1/4	29
23	3-10	Lee & Martin	22.	16.20	2.6	4.47	42.22		.6		11		1/3	29
24	3-12	Lee & Martin	22.	16.50	2.3	4.45	38.07		.6		11		1/4	29
25	3-15	Lee & Martin	22.	15.80	2.37	4.45	37.41		.6		11		1/4	29
26	3-19	Lee & Martin	22.	16.40	2.25	4.40	36.96		.6		10		1/2	29
27	3-22	Lee & Martin	22.	15.60	2.18	4.39	34.06		.6		11		1/4	29
28	3-26	Lee & Martin	21.	14.85	2.42	4.39	35.94		.6		10		1/3	29
29	3-29	Lee & Martin	22.	16.40	2.14	4.41	35.19		.6		11		1/3	29
30	4-2	Lee & Martin	23	16.20	2.10	4.37	34.03		.6		11		1/3	29
31	4-9	Lee & Martin	22.	15.70	1.97	4.39	30.91		.6		11		1/3	29
32	4-16	Lee & Martin	22.	14.40	1.84	4.34	26.45		.6		11		1/3	29
33	4-23	Lee & Martin	22.	14.30	1/80	4.32	25.83		.6		11		1/3	29
34	4-23	Lee & Martin	4.	1.12	1.26	.20	1.41		.6		11		1/4	29
35	4-23	Lee & Martin	15.	3.90	3.47	.50	13.53		.6		8		1/6	29
36	4-30	Lee & Martin	23.	11.80	1.45	4.34	17.09		.6		11		1/3	29
37	5-7	Lee & Martin	22.	11.50	1.3	4.19	13.90		.6		11		1/3	29
38	5-14	Brewster	22.	12.74	1.34	4.22	17.05		.6		11		1/3	271 666
39	5-21	Brewster	22.	14.03	1.69	4.38	23.73		.6		11		1/3	271 666
40	5-28	Brewster	22.	12.44	1.53	4.32	19.06		.6		11		1/4	271 666
41	6-4	Brewster	18.	9.98	1.18	4.15	11.73		.6		9		1/4	271 666
42	6-11	Brewster	16.	6.88	.74	4.02	5.06		.6		8		1/3	271 666
43	6-18	Brewster	10.	5.06	.65	3.95	3.29		.6		5		1/4	271 666

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN ANTONIO CREEK

At Mouth of Canyon for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 151

Drainage Area 28.0 Square Miles. [C.A. Brewster - J. A. Lee Observer.] Gage Read Continuously Used rating table dated 2/9/32 - 10/1/32

Used rating table dated Feb. 9th to Oct. 1, 1932.

Maximum stage 5.15 feet at 8 PM on Feb. 8th 1932 Discharge 405.0 second-feet.
Minimum stage 0.0 feet at 4 AM on Feb. 9, 10 times Discharge 0.0 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							+	5.26	Meas	6.12	4.44	41.3	1	4.38	33.6	4.18	14.2	4.15	12.0							1
2							Meas	3.48	+	4.08	4.44	41.3	2	4.38	33.6	4.18	14.2	4.15	12.0							2
3							+	3.48	+	2.04	4.44	41.3	3	4.35	30.2	4.16	12.7	4.15	12.0							3
4							+	3.48			4.43	40.0	4	4.34	29.1	4.17	13.4	4.15	12.0							4
5							+	3.48		DRY	4.43	40.0	5	4.33	28.2	4.17	13.4	4.12	10.1							5
6							+	3.48			4.44	41.3	6	4.32	27.2	4.18	14.2	4.10	8.9							6
7							+	3.48			4.45	42.7	7	4.30	25.2	4.18	14.2	4.07	7.2							7
8							+	3.48	H	61.1	4.46	44.1	8	4.30	25.2	4.15	12.0	4.07	7.2							8
9							Meas.	3.49	H	263.4	4.45	42.7	9	4.32	27.2	4.13	10.7	4.03	5.2							9
10							+	2.79	H	117.5	4.43	40.0	10	4.29	24.3	4.13	10.7	4.00	3.8							10
11							+	2.09	4.62	72.3	4.42	38.6	11	4.28	23.3	4.13	10.7	3.99	3.4							11
12							+	1.39	4.59	66.0	4.41	37.3	12	4.28	23.3	4.14	11.4	3.98	3.0							12
13							+	0.70	4.58	64.0	4.40	36.0	13	4.28	23.3	4.16	12.7	3.97	2.6							13
14		DRY		DRY		DRY			4.57	62.1	4.40	36.0	14	4.27	22.4	4.21	16.9	3.96	2.3							14
15									4.50	50.0	4.39	34.8	15	4.29	24.3	4.22	17.8	3.96	2.3							15
16									4.52	53.2	4.38	33.6	16	4.31	26.2	4.24	19.6	3.95	2.0							16
17									4.50	50.0	4.39	34.8	17	4.29	24.3	4.26	21.4	3.94	1.7							17
18									4.45	42.7	4.40	36.0	18	4.29	24.3	4.24	19.6			DRY		DRY		DRY		18
19									4.41	37.3	4.41	37.3	19	4.28	23.3	4.27	22.4									19
20									4.40	36.0	4.40	36.0	20	4.29	24.3	4.26	21.4									20
21									4.40	36.0	4.39	34.8	21	4.32	27.2	4.27	22.4									21
22								DRY	4.40	36.0	4.39	34.8	22	4.31	26.2	4.26	21.4									22
23									4.41	37.3	4.38	33.6	23	4.30	25.2	4.24	19.6		DRY							23
24									4.39	34.8	4.39	34.8	24	4.27	22.4	4.23	18.7									24
25									4.37	32.5	4.40	36.0	25	4.25	20.5	4.21	16.9									25
26									4.37	32.5	4.40	36.0	26	4.28	23.3	4.20	16.0									26
27									4.37	32.5	4.39	34.8	27	4.26	21.4	4.20	16.0									27
28					Meas.	55.12			4.40	36.0	4.39	34.8	28	4.23	18.7	4.21	16.9									28
29					"	10.60			4.43	40.0	4.39	34.8	29	4.21	16.9	4.20	16.0									29
30					+	8.82			–	–	4.40	36.0	30	4.21	16.9	4.19	15.0									30
31					+	7.04			–	–	4.40	36.0	31	–	–	4.16	12.7									31
TOTAL,	0.00		0.00		81.58		40.08		1305.44		1161.50			741.50		495.20		107.70		0.00		0.0		0.00		3933.00
Mean Daily Discharge in Second-feet					2.63		1.29		45.03		37.47			24.72		15.97		3.59								
Second-feet per square mile					.09		.05		1.61		1.34			0.88		0.57		0.13								
Run-off, depth in inches																										
Run-off in acre-feet					161.83		79.50		2589.34		2303.8			1470.8		982.2		213.6								7801.10
Maximum Mean Daily Discharge in Second-feet					55.12		5.26		263.4		44.1			33.6		22.4		12.0								
Minimum Mean Daily Discharge in Second-feet					0.00		0.00		0.0		33.6			16.9		10.7		0.0								

+ Discharges interpolated between measurements

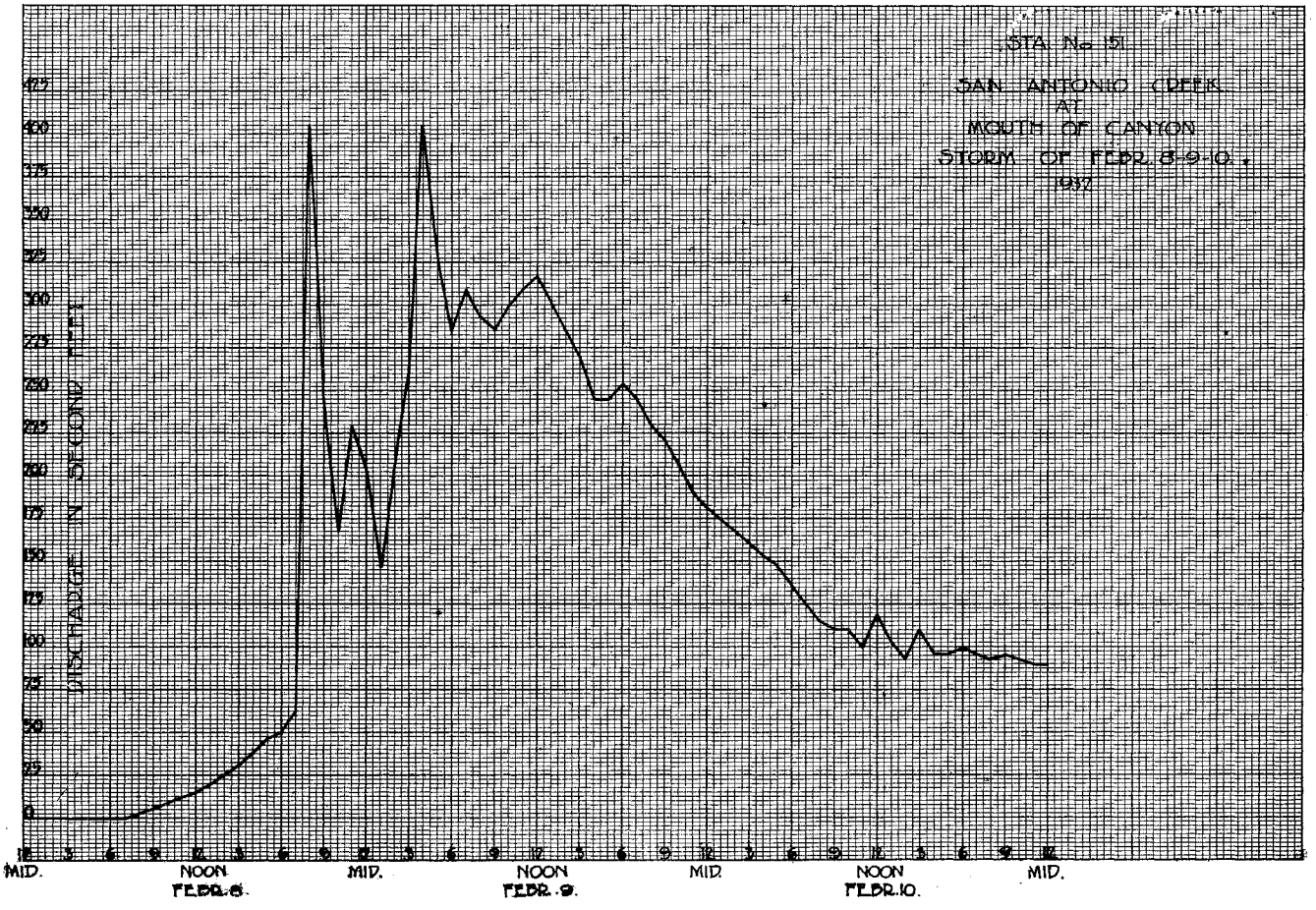
J.S.I. 1/26/33

Quarter | Computed | Checked | Date
Fourth | Third | Second | First

Quarter | Check applied | Check checked | Date
Fourth | Third | Second | First

Quarter | G. H. copied | G. H. checked | Date
Fourth | Third | Second | First

PERIOD YEAR



P-2 R

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 Canyon and the East Fork. 6 miles above San Gabriel Forks. 16 miles northeast of Azusa, Los Angeles County, California.

Drainage Area
58.2 square miles.

Installed by
Pasadena Water Department, 1924.

Records Available
From October 1, 1927 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California. Previous to October 1, 1927 at Pasadena Water Department, Pasadena, California.

Gage
Staff gage installed on east bank of stream at recorder. Stevens continuous water stage recorder installed in corrugated iron stilling well on east bank of stream.

Discharge Measurements
Low water measurements made by wading 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
1927-1928
Maximum-267 c.f.s. February 4, 1928
Minimum-5.4 c.f.s. September 20, 1928
1928-1929
Maximum-448 c.f.s. March 10, 1929
Minimum-4.68 c.fs October 7-10, 1929
1929-1930
Maximum-122.02 c.f.s. May 3, 1930
Minimum-6.50 October 6-8, 1930
1930-1931
Maximum-267 c.f.s. April 26, 1931
Minimum-2.13 c.f.s. September 22, 1931.
1931-1932
Maximum-3340 c.f.s. February 8, 1932
Minimum-8.0 c.f.s. Oct. 16, 1931

NOTE: Station moved October 1, 1932 to new location 4 miles downstream.

Diversions
Placer diversions above gage.

Regulation
None

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

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

P. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P2

Discharge measurements of SAN GABRIEL RIVER EAST FORK P.W.D. STATION

at 500' above mouth of Cattle Canyon, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating Percent diff.	Method	Coef.	Meas. secs.	G. Ht. change Total	Time Hours	Meter No. &
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.			282
1	10/29	Patterson	21.5	10.9	.99	2.20	10.8		.6		8		1/4	897
2	11/25	"	23.	11.6	1.96	2.30	12.3		.6		10		1/3	"
3	10	"	25.5	21.9	1.13	2.47	24.8		.6		9		1/3	"
4	11	" & Lane	24.8	20.8	1.11	2.44	23.1		.6		9		1/4	"
	1932													
5	1/8	"	27.	19.9	2.07	3.91	41.3		.6		10		1/3	"
6	29	Patterson-Green	26.	16.9	1.71	3.72	28.9		.6		11		1/4	"
7	2/4	" "	27.	21.5	2.63	4.03	56.5		.6		10		1/4	"
8	19	" Lane	40.	51.2	3.55	4.82	181.7		.6		14		1/2	" 282
9	25	" Green	38.	55.5	2.07	4.80	153.4		.6		10		1/3	965
10	3/9	Green	43.	49.1	2.90	4.76	143.3		.6		11		1/3	282 897
11	18	Delaney	41.	48.	3.05	4.72	145.3		.6		11		1/4	P.O. 18
12	24	"	40.	43.6	3.03	4.62	132.		.6		11		1/3	"
13	25	"	40.	44.	3.20	4.67	138.4		.6		11		1/3	"
14	31	Green	44.	47.	2.91	4.60	136.		.6		11		1/3	282 965
15	4/8	Patterson	41.5	43.	3.05	4.56	131.		.6		14		1/2	282 897
16	15	"	39.	40.	3.08	4.55	123.		.6		12		1/2	"
17	22	Patterson-Green	39.5	42.6	2.57	4.53	109.		.6		12		1/3	"
18	29	" "	35.	40.	2.16	4.59	86.3		.6		9	.25	1/4	"
19	5/6	" "	35.	35.9	2.36	4.67	84.7		.6		10		1/3	"
20	13	Patterson	36.	43.4	2.33	4.73	101.		.6		9		1/3	"
21	20	"	36.	42.7	2.30	4.69	98.5		.6		9		1/3	"
22	27	"	34.5	31.1	2.53	4.62	81.4		.6		12		1/3	"
23	6/2	"	34.5	31.7	2.46	4.57	78.1		.6		9		1/3	"
24	9	"	34.5	29.9	2.31	4.56	69.3		.6		9		1/3	"
25	17	"	34.5	22.6	2.42	4.50	54.8		.6		13		1/3	"
26	24	"	34.5	22.0	2.33	4.48	51.3		.6		9		1/3	"
27	30	"	23.0	18.5	2.43	4.46	44.9		.6		8		1/3	"
28	7/8	Patterson	22.0	16.3	3.40	4.44	39.5		.6		8		1/3	897
29	15	"	22.0	16.7	2.21	4.44	36.9		.6		8		1/3	"
30	21	"	21.5	16.0	2.18	4.43	34.9		.6		8		1/3	"
31	29	" & Irwin	32.5	13.9	1.96	4.41	27.2		.6		11		1/3	"
32	8/19	"	18.5	16.5	1.54	4.39	25.4		.6		6		1/3	"
33	26	"	17.0	13.9	1.31	4.36	18.2		.6		6		1/3	"
34	9/2	"	18.0	16.0	1.49	4.38	23.9		.6		6		1/4	"
35	7	"	19.5	9.7	1.67	4.34	16.2		.6		11		1/3	"
36	16	"	16.0	12.3	1.07	-	13.2		.6		6		1/4	"
37	23	"	16.0	12.6	1.12	-	14.1		.6		6		1/4	"
38	30	"	16.0	12.8	1.16	-	14.8		.6		6		1/4	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. PR

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

Near P.W.D. Station-500' above mouth of Cattle Canyon for the Year Ending September 30, 1932

Drainage Area 58.2 Square Miles. [G. Patterson Observer.] Gage Read Continuous Used rating table dated

Maximum stage ___ feet at 11:30 PM on Feb. 8, 1932 Discharge 3340 second-feet.
Minimum stage 3.36 feet at 2 PM on Oct. 16, 1931 Discharge 8.00 second-feet.
°6' interpolated from station 96 by percentages of comparative meas.
°°° Station removed, discharges interpolated between meas. from this date

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	3.41	10.60	3.41	10.60		16.80		54.6		82.3		160.0
2	3.41	10.60	3.40	10.00		17.20		52.8		71.7		158.0
3	3.43	11.80	3.39	9.50		17.45		51.6		61.8		158.0
4	3.42	11.20	3.38	9.00		17.45		50.4		57.9		156.0
5	3.42	11.20	3.38	9.00		17.45		48.5		55.2		154.0
6	3.41	10.60	3.39	9.50		18.30		46.8		55.2		155.0
7	3.40	10.00	3.39	9.50		18.40		43.8		55.2		155.0
8	3.40	10.00	3.39	9.50		20.10		41.4		871.0		155.0
9	3.40	10.00	3.40	10.00		27.50		40.8		2520.0		158.0
10	3.40	10.00	3.41	10.60		24.60		40.3		1100.0		155.0
11	3.39	9.50	3.41	10.60		23.20		40.3		542.0		153.0
12	3.39	9.50	3.41	10.60		22.00		40.3		364.0		147.0
13	3.38	9.00		13.60		21.20		40.3		278.0		146.0
14	3.38	9.00		13.60		21.20		39.1		261.0		146.0
15	3.38	9.00		17.00		20.80		38.0		250.0		143.5
16	3.37	8.50		14.45		20.20		35.6		250.0		142.5
17	3.37	8.50		12.75		20.20		35.3		250.0		142.0
18	3.44	12.40		11.90		20.20		33.7		244.0		145.5
19	3.54	18.40		11.50		20.60		33.3		211.0		148.0
20	3.54	18.40		11.50		20.70		32.5		184.0		147.0
21	3.52	17.20		11.90		23.40		31.8		166.0		137.5
22	3.52	17.20		12.30		25.00		31.4		166.0		136.0
23	3.51	16.60		12.30		23.80		30.6		151.0	°	135.6
24	3.50	16.00		12.30		22.70		30.2		151.0	4.62	132.8
25	3.49	15.40		12.30		24.20		30.2		151.0	4.61	130.4
26	3.47	14.20		12.75		25.00		29.9		150.0	4.61	130.4
27	3.46	13.60		20.80		23.80		29.5		151.0	4.61	130.4
28	3.45	13.00		19.10		91.20		28.8		154.0	4.61	130.4
29	3.43	11.80		17.85		100.20		28.8		163.0	4.62	132.8
30	3.42	11.20		16.80		67.70		28.4		-	4.63	135.2
31	3.42	11.20		-		58.40		39.8		-	4.63	135.2
TOTAL,		375.60		373.10		890.95		1178.80		9167.30		4491.20
Mean Daily Discharge in Second-feet		12.12		12.44		28.74		38.03		316.11		144.88
Second-feet per square mile		.208		.214		.494		.653		5.431		2.489
Run-off, depth in inches												
Run-off in acre-feet		744.81		739.86		1766.75		2337.56		18178.76		8906.05
Maximum Mean Daily Discharge in Second-feet		18.40		20.80		100.20		54.60		2520.00		160.00
Minimum Mean Daily Discharge in Second-feet		8.50		9.00		16.80		28.80		55.20		130.40

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Day
1	4.63	135.2	4.38	87.2	4.31	77.4	3.94	43.8	3.69	27.4	3.61	22.6	1
2	4.63	135.2	4.38	87.2	4.31	77.4	3.92	42.4	3.69	27.4	3.62	23.2	2
3	4.63	135.2	4.39	88.6	4.33	80.2	3.91	41.7	3.69	27.4	3.61	22.6	3
4	4.63	135.2	4.37	85.8	4.30	76.0	3.89	40.3	3.68	26.8	3.58	20.8	4
5	4.62	132.8	4.36	84.4	4.28	73.8	3.88	39.6	3.68	26.8	3.55	19.0	5
6	4.63	135.2	4.36	84.4	4.27	72.7	3.86	38.2	3.68	26.8	3.53	17.8	6
7	4.62	132.8	4.37	85.8	4.26	71.6	3.84	36.8	3.68	26.8	3.50	16.0	7
8	4.61	130.4	4.38	87.2	4.25	70.5	3.86	38.2	3.68	26.8	°°°	15.6	8
9	4.60	128.0	4.39	88.6	4.24	69.4	3.86	38.2	3.68	26.8		15.3	9
10	4.59	125.9	4.41	91.7	4.23	68.3	3.84	36.8	3.67	26.2		15.0	10
11	4.59	125.9	4.43	95.1	4.22	67.2	3.84	36.8	3.67	26.2	Removed	14.7	11
12	4.59	125.9	4.46	100.2	4.21	66.1	3.84	36.8	3.67	26.2		14.4	12
13	4.59	125.9	4.46	100.2	4.20	65.0	3.84	36.8	3.67	26.2		14.1	13
14	4.59	125.9	4.46	100.2	4.19	64.1	3.83	36.1	3.67	26.2		13.8	14
15	4.59	125.9	4.47	101.9	4.18	63.2	3.83	36.1	3.66	25.6		13.5	15
16	4.59	125.9	4.46	100.2	4.15	60.5	3.83	36.1	3.66	25.6	Meas.	13.2	16
17	4.56	119.6	4.47	101.9	4.11	56.9	3.83	36.1	3.65	25.0		13.3	17
18	4.55	117.5	4.46	100.2	4.07	53.6	3.83	36.1	3.65	25.0		13.4	18
19	4.55	117.5	4.45	98.5	4.06	52.8	3.83	36.1	3.65	25.0		13.5	19
20	4.55	117.5	4.44	96.8	4.05	52.0	3.82	35.4	3.63	23.8	Station	13.6	20
21	4.54	115.4	4.44	96.8	4.04	51.2	3.81	34.7	3.62	23.2		13.7	21
22	4.51	109.1	4.41	91.7	4.04	51.2	3.80	34.0	3.61	22.6		13.9	22
23	4.49	105.3	4.39	88.6	4.02	49.6	3.79	33.4	3.60	22.0	Meas	14.1	23
24	4.47	101.9	4.37	85.8	4.02	49.6	3.78	32.8	3.58	20.8		14.2	24
25	4.45	98.5	4.36	84.4	4.00	48.0	3.76	31.6	3.56	19.6		14.3	25
26	4.43	95.1	4.35	83.0	3.99	47.3	3.74	30.4	3.53	17.8		14.4	26
27	4.41	91.7	4.34	81.6	3.98	46.6	3.73	29.8	3.54	18.4		14.5	27
28	4.39	88.6	4.34	81.6	3.97	45.9	3.71	28.6	3.56	19.6		14.6	28
29	4.37	85.8	4.32	78.8	3.96	45.2	3.69	27.4	3.58	20.8		14.7	29
30	4.38	87.2	4.31	77.4	3.94	43.8	3.69	27.4	3.59	21.4	Meas.	14.8	30
31	-	-	4.30	76.0	-	-	3.69	27.4	3.60	22.0		-	31
TOTAL,		3532.00		2791.80		1817.10		1095.90		752.20		468.60	
Mean Daily Discharge in Second-feet		117.73		90.06		60.57		35.35		24.26		15.62	
Second-feet per square mile		2.023		1.547		1.041		.607		.417		.268	
Run-off, depth in inches													
Run-off in acre-feet		7003.96		5536.14		3603.31		2173.17		1491.61		929.23	53,411.21
Maximum Mean Daily Discharge in Second-feet		135.20		101.90		80.20		43.80		27.40		23.20	
Minimum Mean Daily Discharge in Second-feet		85.80		76.00		43.80		27.40		17.80		13.20	

PERIOD YEAR

Fourth, Third, Second, First Quarter — Computed, Checked, Date — Disch. applied, Disch. checked, Date — G. H. copied, G. H. checked, Date

HAV FSK

F-96 R

SAN GABRIEL RIVER - EAST FORK 1/4 MILE BELOW MOUTH OF CATTLE CANYON

Location
On north bank of East Fork, San Gabriel River, 5 miles above junction of East and West Forks. 1/4 mile below mouth of Cattle Canyon.

Drainage Area.
78.35 square miles.

Installed by
Los Angeles County Flood Control District in October, 1929.

Records Available
October 1, 1929 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Au continuous water stage recorder installed in galvanized iron shelter house on top of corrugated iron pipe stilling well and secured to vertical rock bank on north bank of stream.

Discharge Measurements
High water flows are measured from cable car located 20' above recorder house.
Low water flows are measured by wading, near gage.

Channel and Control
Channel-Sand, gravel and boulders
Control-Low control built of boulders not permanent, Washed out storm of February 8, 1932

Extremes of Discharge
1929-1930
Maximum-108.50 c.f.s. May 16, 1930
Minimum-6.90 c.f.s. various times during year
1930-1931
Maximum-776.6 c.f.s. April 26, 1931
Minimum-1.0 c.f.s. August 24, 1931
1931-1932
Maximum- 4700 c.f.s.at mid. Feb.8-9, 1932
Minimum- 10 c.f.s. Oct. 10-16- 1931

F-96 R

Diversions
Intermittent diversions for placer mining above station.

Regulation
None

Accuracy
Fair

Operation
Located and constructed by L s Angeles County Flood Control District, operated in conjunction with the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 96

Discharge measurements of San Gabriel River

E. Fork 1/4 mile below Mouth of Cattle Canyon., during the year ending September 30, 1932

No.	Date	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.-ft.	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1931													
1	10-2	Patterson, Obs, Lane	23.0	20.	.53	3.51	10.5		.6		9		1/4	FC 22
2	10-9	Patterson, Obs, Rec.	20.5	11.4	1.03	3.54	11.7		.6		8		1/3	FC 22
3	10-16	" " "	23.0	20.2	.54	3.51	11.0		.6		9		1/3	FC 22
4	10-19	" " "	23.5	18.0	1.14	3.66	20.6		.6		9		1/4	FC 22
5	10-23	" " "	22.5	16.6	.99	3.60	16.4		.6		8		1/3	FC 22
6	10-29	" " "	23.0	21.1	.60	3.56	12.6		.6		8		1/4	FC 22
7	11-25	" " "	22.5	21.5	.67	3.66	14.5		.6		9		1/4	FC 22
8	12-10	" " "	24.0	26.5	1.11	3.78	29.5		.6		9		1/3	FC 22
9	12-11	" " "	24.0	25.7	1.11	3.75	28.6		.6		9		1/3	FC 22
	1932													
10	1-8	" " "	23.5	29.8	1.89	3.38	56.3		.6		8		1/3	FC 22
11	1-22	" " Green	23.0	27.1	1.63	3.31	44.2		.6		9		1/4	FC 22
12	1-29	" " "	23.0	26.4	1.51	3.28	40.0		.6		9		1/4	FC 22
13	2-4	" " "	31.0	32.7	2.43	3.51	79.3		.6		11		1/3	FC 22
14	2-18	Green, Obs., Lane	55.5	77.	4.46	3.52	3.43		.6		15		5/12	FC 28
15	2-20	" " "	43.5	67.	3.88	3.50	2.59		.6		13		1/2	FC 28
16	2-25	" " "	59.0	68.7	3.12	3.50	2.15		.6		11		1/2	FC 28
17	3-4	" " "	52.5	63.2	3.13	3.52	1.98		.6		11		1/3	FC 28
18	3-9	Green	41.0	55.9	3.32	3.08	1.86		.6		9		1/3	Mfg.
19	3-18	Delaney-Green	39.	50.3	3.19	2.90	160.1		.6		11		1/3	FC 18
20	3-24	Delaney	37.	51.1	3.14	2.84	160.9		.6		10		1/3	FC 18
21	3-25	"	37.	51.9	3.26	2.90	169.5		.6		10		1/4	FC 18
22	3-31	Green, Obs, Rec.	41.	51.0	3.20	2.86	163.		.6		11		1/3	FC 28
23	4-8	Patterson, Obs, Rec.	43.	46.	3.26	2.74	150.		.6		11		5/12	FC 22
24	4-15	" " "	43.	45.9	3.09	2.73	142.5		.6		11		1/2	FC 22
25	4-22	" " "	42.	42.9	3.13	2.69	134.4		.6		11		1/3	FC 22
26	4-29	" " "	39.	36.2	2.73	2.51	98.9		.6		10		1/4	FC 22
27	5-6	" " Green	41.	36.7	2.64	2.50	96.9		.6		10		1/4	FC 22
28	5-13	" "	40.	37.7	3.08	2.64	115.9		.6		10		1/3	FC 22

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 96

Discharge measurements of San Gabriel River

E. Fork 1/4 mile below Mouth of Cattle Canyon, during the year ending September 30, 1932

No.	Date	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.-ft.	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1932													
29	5-20	Patterson, Obs, Rec.	40.0	37.1	3.0	2.61	111.?		.6		10		1/3	FC 22
30	5-27	" " "	39.0	36.9	2.76	2.48	102.?		.6		10		1/3	FC 22
31	6-2	" " "	38.0	35.2	2.72	43	95.?		.6		10		1/3	FC 22
32	6-9	" " "	35.5	32.1	2.67	2.38	85.?		.6		10		1/3	FC 22
33	6-17	" " "	34.5	27.2	2.47	2.24	67.?		.6		9		1/4	FC 22
34	6-24	" " "	35.5	27.9	2.24	2.18	62.?		.6		9		1/4	FC 22
35	6-30	" " "	34.0	24.8	2.20	2.13	54.?		.6		9		1/3	FC 22
36	7-8	" " "	33.0	22.6	2.00	2.08	45.?		.6		11		1/3	FC 22
37	7-15	" " "	30.0	24.0	1.71	2.06	41.?		.6		10		1/3	FC 22
38	7-21	" " "	25.0	20.3	1.78	2.02	36.?		.6		9		1/3	FC 22
39	7-29	" " "	34.0	22.5	1.60	2.00	36.?		.6		10		1/4	FC 22
40	8-19	" " "	33.5	17.0	1.48	1.91	25.?		.6		11		5/12	FC 22
41	8-26	" " "	23.5	18.1	1.09	1.86	19.?		.6		8		1/4	FC 22
42	9-2	" " "	32.0	16.3	1.31	1.85	21.?		.6		10		1/3	FC 22
43	9-7	" " "	32.5	15.2	1.26	1.82	19.?		.6		10		1/4	FC 22
44	9-16	" " "	22.5	16.1	1.02	1.77	16.?		.6		8		1/4	FC 22
45	9-23	" " "	22.5	17.0	1.02	1.79	17.?		.6		8		1/4	FC 22
46	9-30	" " "	22.5	17.1	1.02	1.80	17.?		.6		8		1/4	FC 22

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F96

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL RIVER EAST FORK 1/4 mile BELOW CATTLE CANYON for the Year Ending September 30, 1932

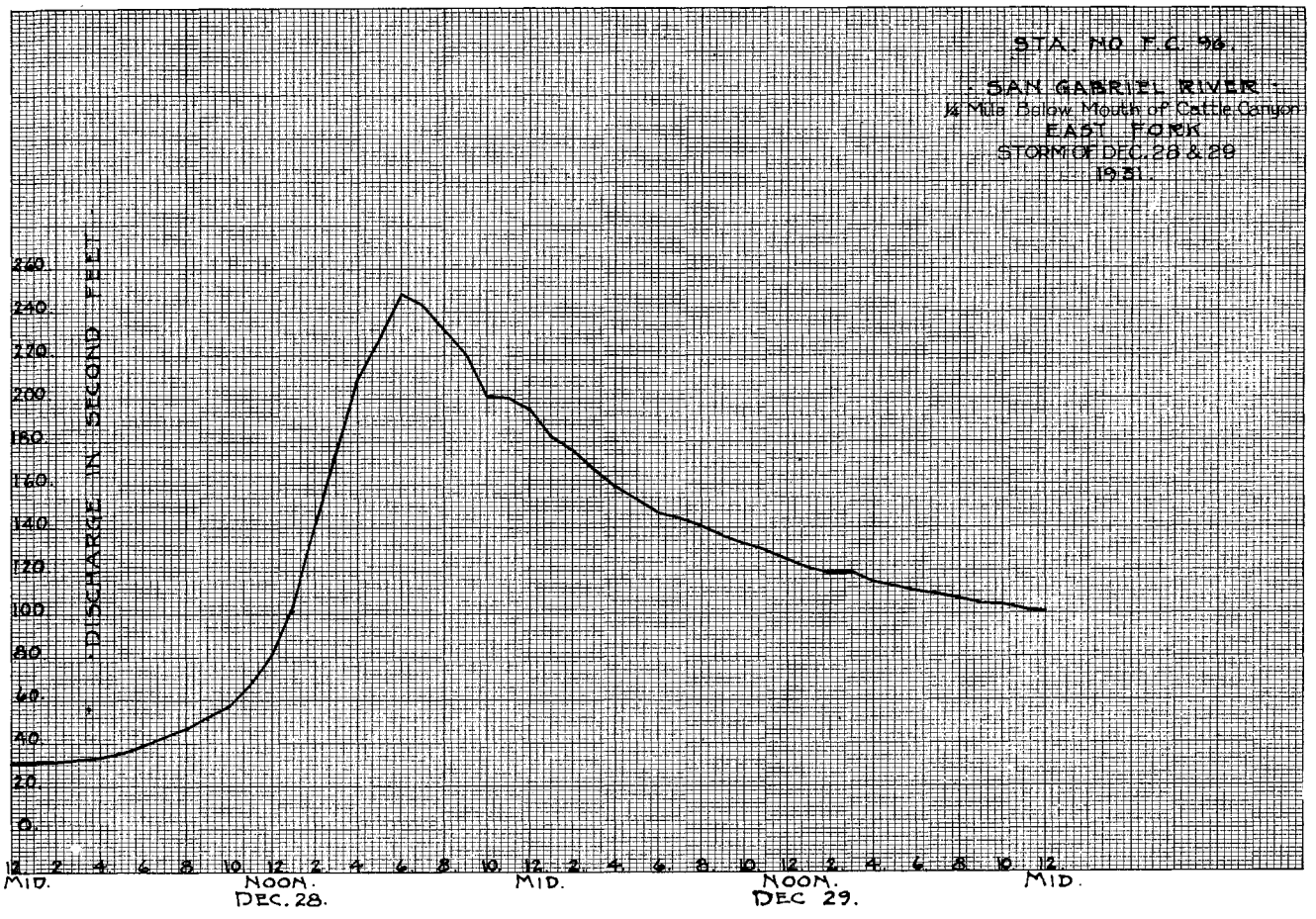
Drainage Area 78.35 Square Miles. [G. P. PATTERSON Observer.] Gage Read Continuous Used rating table dated

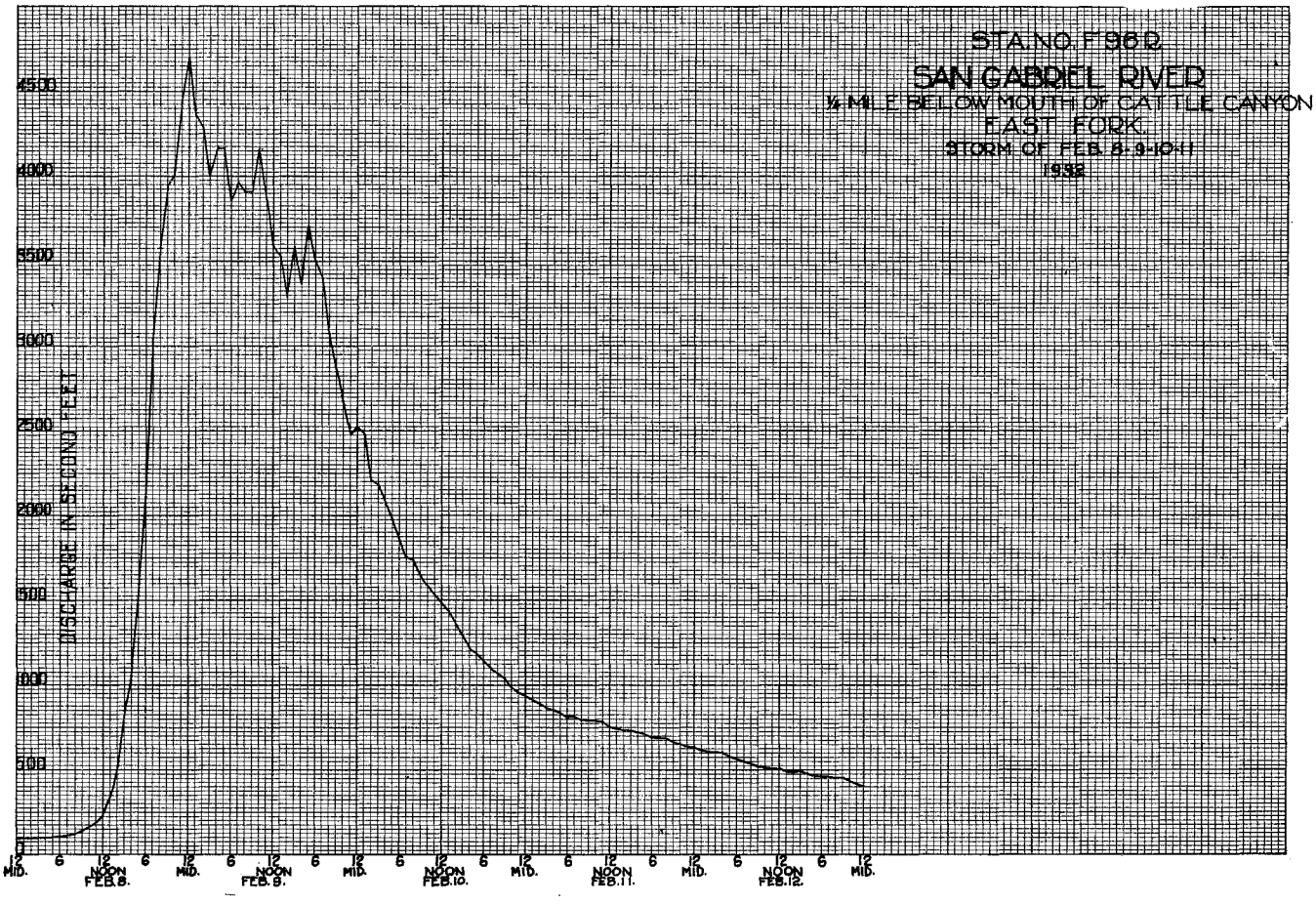
Maximum stage 7.65 feet at 12 Mid. on Feb. 8 & 9, 1932 Discharge 4700 second-feet.
Minimum stage 1.00 feet at on Oct. 10-16, 1932 Discharge 10.0 second-feet.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	1.06	13.0	1.06	13.0	1.20	20.0	2.06	72.8	H	116.0	3.24	211.0
2	1.04	12.0	1.06	13.0	1.21	20.5	2.03	70.4	2.36	101.0	3.20	205.0
3	1.02	11.0	1.06	13.0	1.22	21.0	2.01	68.8	2.22	87.0	3.18	202.0
4	1.02	11.0	1.06	13.0	1.22	21.0	1.99	67.2	2.16	81.6	3.15	197.5
5	1.01	10.5	1.06	13.0	1.22	21.0	1.97	65.6	2.12	77.8	3.12	193.0
6	1.02	11.0	1.06	13.0	1.24	22.0	1.94	63.2	2.12	77.8	3.11	191.5
7	1.02	11.0	1.06	13.0	1.25	22.5	1.89	59.2	2.12	77.8	3.09	188.5
8	1.02	11.0	1.07	13.5	1.29	24.5	1.85	56.0	H	1229.	3.08	187.0
9	1.02	11.0	1.07	13.5	1.47	33.5	1.84	55.2	H	3646.	3.07	185.5
10	1.02	11.0	1.09	14.5	1.40	30.0	1.83	54.4	H	1547.	3.05	182.5
11	1.01	10.5	1.12	16.0	1.38	29.0	1.83	54.4	H	763.0	3.02	178.0
12	1.00	10.0	1.12	16.0	1.35	27.5	1.83	54.4	H	512.0	2.97	170.5
13	1.00	10.0	1.12	16.0	1.33	26.5	1.83	54.4	4.02	392.0	2.95	167.5
14	1.00	10.0	1.12	16.0	1.33	26.5	1.81	52.8	3.94	367.0	2.95	167.5
15	1.00	10.0	1.20	20.0	1.32	26.0	1.80	52.0	3.89	352.0	2.92	163.0
16	1.00	10.0	1.14	17.0	1.31	25.5	1.76	48.8	3.89	352.0	2.90	160.0
17	1.02	11.0	1.10	15.0	1.31	25.5	1.74	48.4	3.89	352.0	2.88	157.6
18	1.19	19.5	1.08	14.0	1.31	25.5	1.72	46.2	3.86	343.0	2.90	160.0
19	1.21	20.5	1.07	13.5	1.32	26.0	1.71	45.6	3.69	297.5	2.94	166.0
20	1.17	18.5	1.07	13.5	1.33	26.5	1.69	44.5	3.53	258.9	2.96	169.0
21	1.16	18.0	1.08	14.0	1.40	30.0	1.67	43.5	3.39	233.5	2.90	160.0
22	1.14	17.0	1.09	14.5	1.44	32.0	1.67	43.5	3.29	233.5	2.90	160.0
23	1.12	16.0	1.09	14.5	1.41	30.5	1.65	42.5	3.25	212.5	2.91	161.5
24	1.11	15.5	1.09	14.5	1.39	29.5	1.64	42.0	3.25	212.5	2.91	161.5
25	1.10	15.5	1.09	14.5	1.43	31.5	1.64	42.0	3.25	212.5	2.96	169.0
26	1.07	13.5	1.10	15.0	1.45	32.5	1.63	41.5	3.22	208.0	2.95	167.5
27	1.06	13.0	1.29	24.5	1.42	31.0	1.62	41.0	3.21	206.5	2.95	167.5
28	1.04	12.0	1.25	22.5	H	120.0	1.60	40.0	3.22	208.0	2.94	166.0
29	1.05	12.5	1.22	21.0	H	132.0	1.60	40.0	3.28	217.0	2.95	167.5
30	1.06	13.0	1.20	20.0	2.24	89.0	1.60	40.0	-	-	2.94	166.0
31	1.06	13.0	-	-	2.11	76.9	H	56.0	-	-	2.92	163.0
TOTAL,		401.00		464.50		1135.40		1606.30		12974.40		5412.10
Mean Daily Discharge in Second-feet		12.94		15.48		36.63		51.82		447.39		174.58
Second-feet per square mile		5.12		5.93		14.49		20.50		165.60		69.08
Run-off, depth in inches												
Run-off in acre-feet		795.18		921.10		2251.50		3185.29		25728.23		10732.19
Maximum Mean Daily Discharge in Second-feet		20.5		24.5		132.0		72.8		3646.0		211.0
Minimum Mean Daily Discharge in Second-feet		10.0		13.0		20.0		40.0		77.8		157.6

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1	2.92	163.0	2.35	100.0	2.31	96.0	1.82	53.6	1.45	32.5	1.21	20.5	
2	2.94	166.0	2.39	104.0	2.31	96.0	1.80	52.0	1.44	32.0	1.21	20.5	
3	2.94	166.0	2.42	107.0	2.34	99.0	1.79	51.2	1.42	31.0	1.21	20.5	
4	2.90	160.0	2.38	103.0	2.32	97.0	1.77	49.6	1.41	30.5	1.19	19.5	
5	2.91	161.5	2.34	99.0	2.30	95.0	1.75	48.0	1.39	29.5	1.18	19.0	
6	2.87	156.1	2.32	97.0	2.27	92.0	1.73	46.8	1.39	29.5	1.17	18.5	
7	2.85	153.5	2.31	96.0	2.24	89.0	1.72	46.2	1.38	29.0	1.17	18.5	
8	2.85	153.5	2.29	94.0	2.21	86.0	1.70	45.0	1.37	28.5	1.17	18.5	
9	2.81	148.3	2.32	97.0	2.20	85.0	1.70	45.0	1.36	28.0	1.15	17.5	
10	2.80	147.0	2.37	102.0	2.18	83.2	1.69	44.5	1.37	28.5	1.17	18.5	
11	2.79	145.9	2.43	108.0	2.15	80.5	1.68	44.0	1.36	28.0	1.17	18.5	
12	2.78	144.8	2.46	111.0	2.12	77.8	1.66	43.0	1.36	28.0	1.17	18.5	
13	2.78	144.8	2.50	115.0	2.09	75.2	1.65	42.5	1.34	27.0	1.17	18.5	
14	2.80	147.0	2.52	117.0	2.07	73.6	1.63	41.5	1.33	26.5	1.18	19.0	
15	2.78	144.8	2.53	118.0	2.04	71.2	1.61	40.5	1.31	25.0	1.18	19.0	
16	2.78	144.8	2.52	117.0	2.02	69.6	1.60	40.0	1.30	25.0	1.18	19.0	
17	2.75	141.5	2.52	117.0	1.99	67.2	1.59	39.5	1.28 1.27	24.0	1.18	19.0	
18	2.74	140.4	2.50	115.0	1.99	67.2	1.59	39.5	1.27	23.5	1.17	18.5	
19	2.76	142.6	2.46	111.0	1.98	66.4	1.57	38.5	1.27	23.5	1.17	18.5	
20	2.78	144.8	2.45	110.0	1.96	64.8	1.55	37.5	1.27	23.5	1.16	18.0	
21	2.73	139.3	2.47	112.0	1.95	64.0	1.53	36.5	1.25	22.5	1.15	17.5	
22	2.67	132.7	2.43	108.0	1.94	63.2	1.53	36.5	1.24	22.0	1.14	17.0	
23	2.59	124.0	2.38	103.0	1.94	63.2	1.53	36.5	1.22	21.0	1.13	16.5	
24	2.51	116.0	2.36	101.0	1.93	62.4	1.53	36.5	1.20	20.0	1.13	16.5	
25	2.47	112.0	2.38	103.0	1.92	61.6	1.52	36.0	1.18	19.0	1.13	16.5	
26	2.46	111.0	2.37	102.0	1.90	60.0	1.52	36.0	1.19	19.5	1.13	16.5	
27	2.40	105.0	2.36	101.0	1.88	58.4	1.51	35.5	1.20	20.0	1.12	16.0	
28	2.37	102.0	2.36	101.0	1.87	57.6	1.50	35.0	1.22	21.0	1.13	16.5	
29	2.34	99.0	2.34	99.0	1.85	56.0	1.49	34.5	1.22	21.0	1.12	16.0	
30	2.34	99.0	2.32	97.0	1.83	54.4	1.47	33.5	1.22	21.0	1.13	16.5	
31	-	-	2.31	96.0	-	-	1.46	33.0	1.21	20.5	-	-	
TOTAL,		4156.30		3261.00		2232.50		1277.90		780.50		543.50	34,245.40
Mean Daily Discharge in Second-feet		138.54		105.19		74.42		41.22		25.18		18.12	1,141.51
Second-feet per square mile		53.05		41.62		28.49		16.31		9.96		6.94	437.08
Run-off, depth in inches													
Run-off in acre-feet		8241.94		6466.56		4428.16		2534.71		1548.12		1078.03	67,911.01
Maximum Mean Daily Discharge in Second-feet		166.0		118.0		99.0		53.6		32.5		20.5	3,646.0
Minimum Mean Daily Discharge in Second-feet		99.0		94.0		54.4		33.0		19.0		16.0	10.0

Fourth / Third / Second / First Quarter — Computed WTK — Checked RHL — Date; Disch. applied — Disch. checked — Date; G. H. copied — G. H. checked — Date


STA. NO F.C. 96.
SAN GABRIEL RIVER
¼ Mile Below Mouth of Cattle Canyon
EAST FORK.
STORM OF DEC. 28 & 29
1931.
DISCHARGE IN SECOND FEET
260
240
220
200
180
160
140
120
100
80
60
40
20
0
12 MID.
2
4
6
8
10
12 NOON. DEC. 28.
2
4
6
8
10
12 MID.
2
4
6
8
10
12 NOON. DEC 29.
2
4
6
8
10
12 MID.


STA NO. F 96 D
SAN GABRIEL RIVER
¼ MILE BELOW MOUTH OF CATTLE CANYON
EAST FORK.
STORM OF FEB. 8, 9-10-11
1938
DISCHARGE IN SECOND FEET
4500
4000
3500
3000
2500
2000
1500
1000
500
0
12 MID.
6
12 NOON FEB. 8.
6
12 MID.
6
12 NOON FEB. 9.
6
12 MID.
6
12 NOON FEB. 10.
6
12 MID.
6
12 NOON FEB. 11.
6
12 MID.
6
12 NOON FEB. 12.
6
12 MID.

F-97 R

San Gabriel River West Fork

Location
On north bank of West Fork, San Gabriel River, 3½ miles above junction of the West and North Forks.

Drainage Area
49 square miles.

Installed by
Los Angeles County Flood Control District, August 1929.

Records Available
October 1, 1929 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Au continuous type, water stage recorder installed in galvanized iron shelter house on corrugated iron stilling well and secured to a vertical rock bank approximately 40 feet high, on north bank of stream.

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

Extremes of Discharge
1929-1930
Maximum-206 c.f.s. March 14, 1930
Minimum-2.06 c.f.s. various times.
1930-1931
Maximum-751 c.f.s. April 26, 1931
Minimum-.05 c.f.s. various times during year.
1931-1932
Maximum- 2705 c.f.s. Feb. 8, 1932
Minimum- 0.09 c.f.s. Oct. 6, 1931

Diversions
Hydraulic operations at Dam No. 2 affected flow during this year.

F-97 R

Regulation
None

Accuracy
Fair

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

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 97

Discharge measurements of San Gabriel River

at W. Fork 3½ mi. above N. Fork, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
	1931		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.							282 FC
1	10-2	Patterson	3.0	.44	.27	2.19	.12		.6		3		1/12	897 18
2	11-6	"	3.0	.46	.46	2.22	.21		.6		3		"	" FC
3	11-20	"	9.6	3.60	.56	2.54	2.00		.6		7		1/4	" 22
4	12-4	Delaney	13.0	6.92	.74	2.74	5.11		.6		7		"	FC 18
5	12-10	Patterson & Lane	16.5	18.40	1.16	3.12	21.30		.6		7		"	282 897
6	12-11	Delaney	17.2	16.00	1.13	3.06	18.00		.6		8		"	FC 18
7	12-16	"	16.0	15.47	.76	2.90	11.77		.6		7		"	"
8	12-18	"	16.0	15.56	.74	2.90	11.58		.6		8		"	"
9	12-22	Patterson-Lane	16.5	18.00	1.27	3.16	22.90		.6		7		1/6	"
10	12-30	Delaney	32.5	28.85	2.66	3.70	76.95		.6		8		1/4	"
11	1932 1-8	"	27.0	17.05	1.12	3.12	19.00		.6		7		1/6	"
12	1-15	Delaney-Lane	20.5	15.97	.87	3.06	13.63		.6		9		1/4	"
13	1-21	Delaney	16.5	13.69	.84	2.98	11.56		.6		9		"	"
14	1-28	"	18.0	12.68	.79	2.92	10.02		.6		8		"	"
15	2-3	"	33.8	41.88	2.69	3.84	112.9		.6		9		1/3	"
16	2-15	"	41.0	54.34	2.62	3.80	142.4		.6		10		1/6	"
17	2-17	"	38.0	49.65	2.68	3.71	134.1		.6		10		1/3	"
18	2-25	"	37.0	49.00	2.33	3.64	114.3		.6		9		1/6	"
19	3-4	"	36.0	40.78	1.98	3.42	81.0		.6		10		1/4	"
20	3-10	"	38.0	33.98	1.95	3.27	66.3		.6		11		1/4	"
21	3-17	" Green	34.0	32.98	1.48	3.16	46.0		.6		10		"	"
22	3-25	"	32.0	29.63	1.37	3.07	40.6		.6		10		"	"
23	4-1	"	32.0	27.01	1.24	3.00	33.4		.6		10		"	"
24	4-8	"	31.0	25.38	1.01	2.90	25.8		.6		10		"	"
25	4-14	"	31.0	22.80	1.06	2.94	24.5		.6		10		"	"
26	4-21	"	31.0	22.99	.99	2.88	22.8		.6		10		1/3	"
27	4-28	"	29.0	22.32	1.04	2.86	23.3		.6		9		1/4	"
28	5-5	"	31.0	21.10	.89	2.81	18.7		.6		10		"	"

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 97

Discharge measurements of San Gabriel River

at W. Fork 3½ mi. above N. Fork, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
			Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.							
29	5-18	Delaney	29.0	18.4	.79	2.76	14.6		.6		9		1/4	FC 18
30	5-20	Patterson	20.0	19.8	.56	2.67	11.1		.6		10		1/3	FC 22
31	5-26	"	20.0	17.5	.50	2.56	8.8		.6		9		1/4	"
32	6-3	"	23.0	19.6	.56	2.66	10.9		.6		9		1/4	"
33	6-10	"	19.0	10.2	.80	2.49	8.2		.6		7		1/4	"
34	6-16	"	15.0	16.3	.46	2.49	7.6		.6		8		"	"
35	6-23	"	11.5	8.3	.52	2.38	4.3		.6		7		"	"
36	7-1	"	11.8	8.6	.55	2.46	5.6		.6		6		1/6	"
37	7-7	"	5.0	2.8	1.43	2.30	4.0		.6		4		1/6	"
38	7-14	"	9.5	4.0	.79	2.25	3.1		.6		5		"	"
39	7-22	"	10.0	5.9	.20	2.20	1.2		.6		5		"	"
40	7-28	Patterson-Irwin	10.0	6.3	.19	2.19	1.2		.6		5		1/12	"
41	8-12	Irwin	10.0	5.9	.12	2.16	.68		.6		5		1/6	"
42	8-18	Patterson	2.9	.93	.48		.45		.6		3		"	"
43	8-24	"	3.5	.75	.43	2.06	.32		.6		3		"	"
44	8-31	"	3.0	.66	.30	2.04	.20		.6		3		1/12	"
45	9-6	"	3.0	.68	.35	2.06	.24		.6		3		"	"
46	9-15	"	3.5	.83	.39	2.07	.32		.6		4		1/6	"
47	9-22	"	4.0	1.10	.44	2.09	.48		.6		4		1/12	"
48	9-29	"	4.0	1.28	.55	2.12	.65		.6		4		"	"

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL RIVER, WEST FORK

At 3½ miles above North Fork for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F 97

Drainage Area 49 Square Miles. [G. P. PATTERSON Observer.] Gage Read Continuous Used rating table dated 10-1-31 to 9-30-32

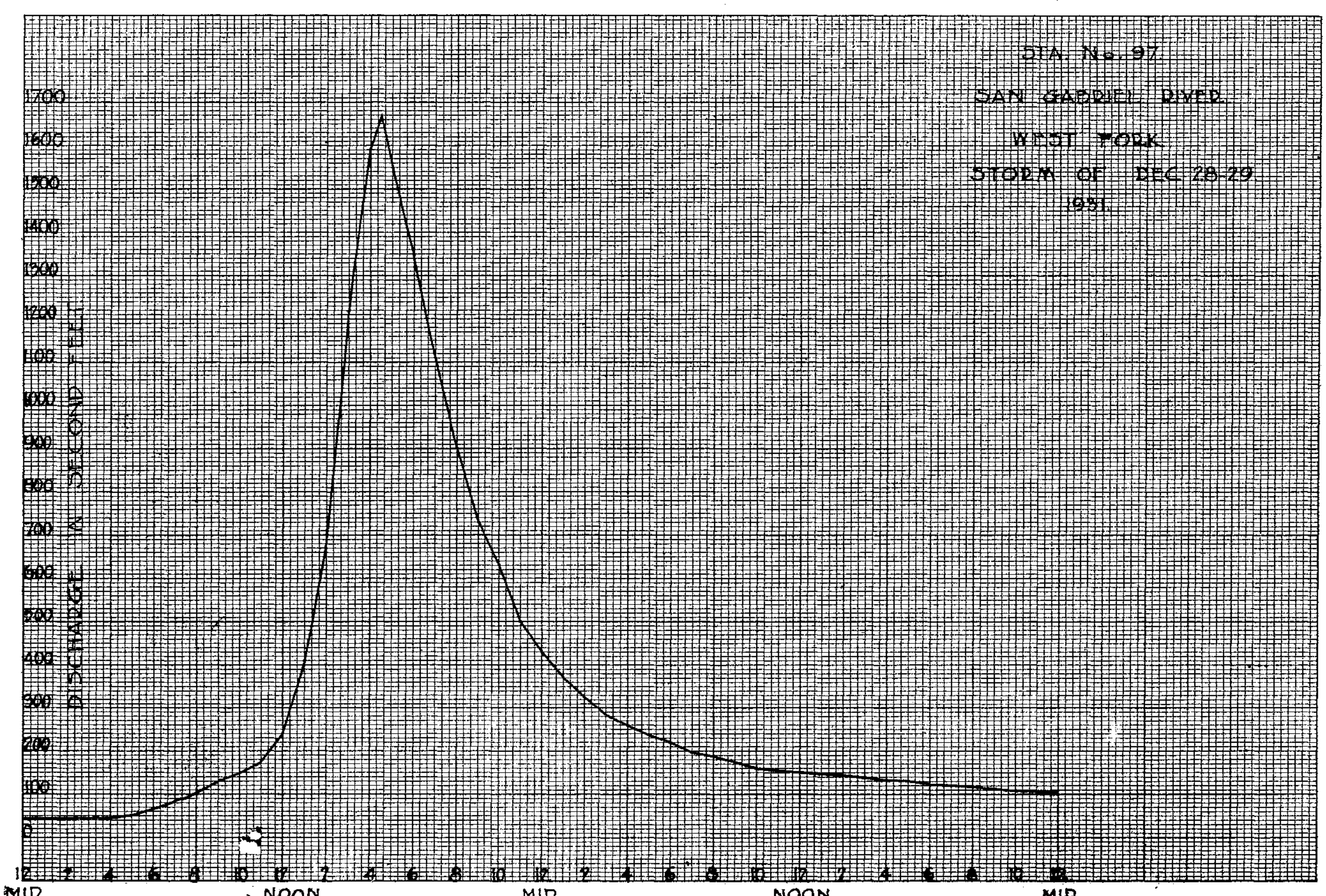
Maximum stage 9.70 feet at 8 PM on Feb. 8 Discharge 2705 second-feet.
Minimum stage 2.18 feet at 3 PM on 10-6-31 Discharge .09 second-feet.
Corrections used on gage heights
Interpolated gage heights

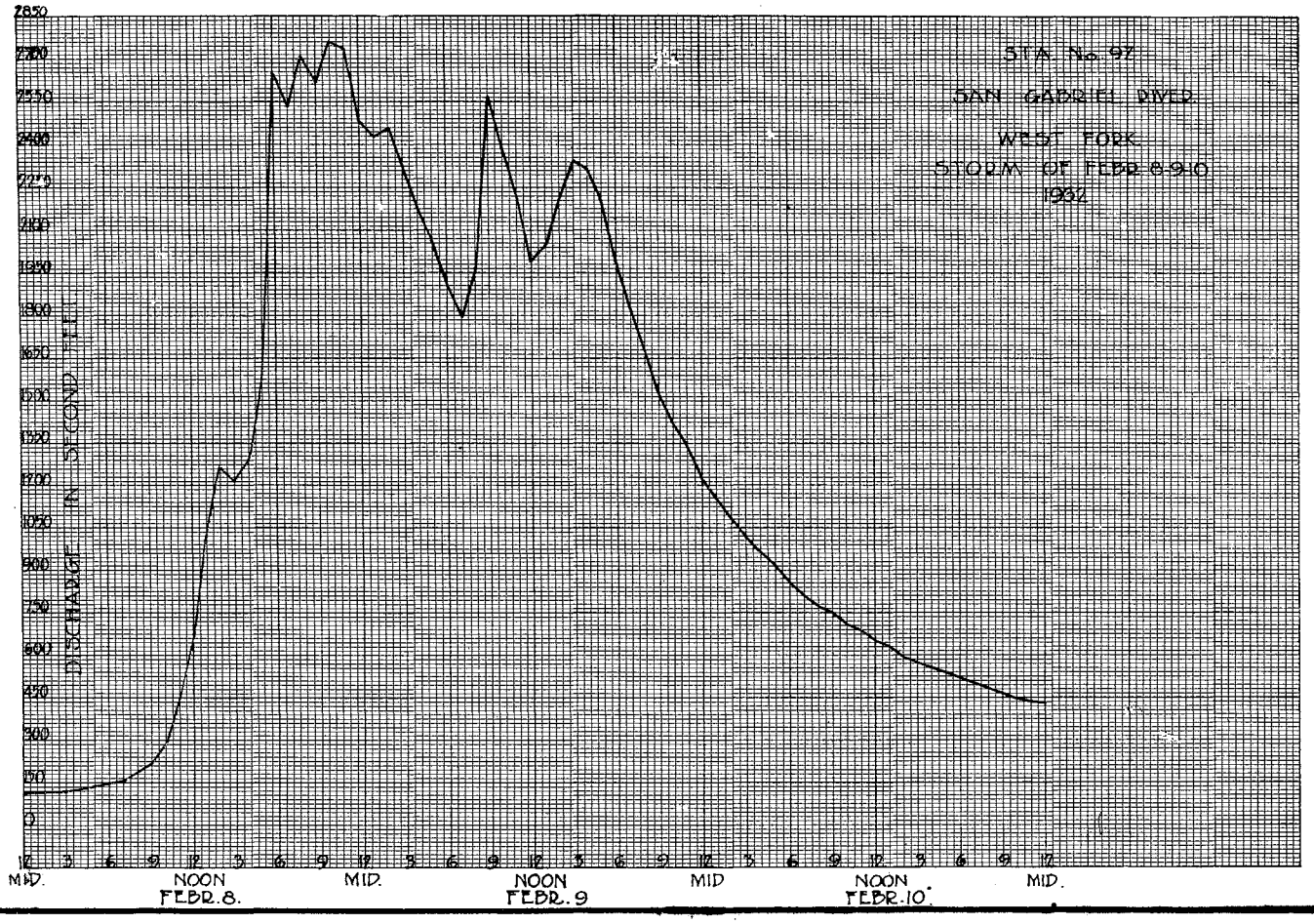
DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	2.19	.12	2.22	.21	2.77	6.04	3.34	51.00	H	344.14	3.71	106.5
2	2.19	.12	2.22	.21	2.74	5.38	3.30	45.00	4.14	195.00	3.68	102.0
3	2.19	.12	2.22	.21	2.73	5.16	3.21	36.00	3.74	111.00	3.65	97.50
4	2.19	.12	2.23	.24	2.73	5.16	3.13	28.00	3.60	90.00	3.53	79.50
5	2.19	.12	2.23	.24	2.71	4.72	3.12	27.00	3.52	78.00	3.55	82.50
6	2.19	.12	2.23	.24	2.70	4.50	3.08	23.00	3.52	78.00	3.53	79.50
7	2.19	.12	2.23	.24	2.69	4.34	3.06	21.00	3.63	94.50	3.52	78.00
8	2.19	.12	2.23	.24	2.84	7.92	3.03	18.00	H	1100.0	3.49	73.50
9	2.20	.15	2.23	.24	3.41	61.50	3.02	17.00	H	2085.6	3.48	72.00
10	2.20	.15	2.25	.30	3.07	22.00	2.98	13.88	H	705.0	3.43	64.50
11	2.21	.18	2.29	.46	3.04	19.00	2.98	13.88	4.70	340.00	3.43	64.50
12	2.21	.18	2.30	.50	2.98	13.88	2.98	13.88	4.27	227.50	3.40	60.00
13	2.21	.18	2.30	.50	2.88	9.28	2.99	14.44	4.02	165.00	3.38	57.00
14	2.21	.18	2.30	.50	2.95	12.20	2.96	12.76	3.99	158.00	3.36	54.00
15	2.21	.18	2.87	8.92	2.94	11.86	2.97	13.32	3.90	140.00	3.35	52.50
16	2.21	.18	2.87	8.92	2.94	11.76	2.97	13.32	3.95	150.00	3.31	46.50
17	2.22	.21	2.66	3.86	2.93	11.32	2.95	12.20	3.94	148.00	3.30	45.00
18	2.34	.70	2.58	2.76	2.94	11.76	2.95	12.20	3.90	140.00	3.30	45.00
19	2.28	.42	2.52	2.10	2.93	11.32	2.96	12.76	3.87	134.00	3.31	46.50
20	2.28	.42	2.51	2.00	2.93	11.32	2.95	12.20	3.85	130.00	3.30	45.00
21	2.28	.42	2.50	1.90	3.01	16.00	2.95	12.20	3.81	122.00	3.28	43.00
22	2.28	.42	2.50	1.90	3.08	23.00	2.94	11.76	3.81	122.00	3.26	41.00
23	2.28	.42	2.50	1.90	3.10	25.00	2.92	10.88	3.79	118.50	3.26	41.00
24	2.28	.42	2.51	2.00	3.00	15.00	2.93	11.32	3.67	100.50	3.26	41.00
25	2.28	.42	2.49	1.81	3.97	13.32	2.92	10.88	3.75	117.50	3.25	40.00
26	2.27	.38	2.53	2.20	3.52	78.00	2.92	10.88	3.76	114.00	3.24	39.00
27	2.26	.34	3.31	46.5	3.41	61.50	2.95	12.20	3.76	114.00	3.23	38.00
28	2.25	.30	3.08	23.0	H	898.0	2.91	10.44	3.76	114.00	3.22	37.00
29	2.23	.24	2.89	9.64	H	182.2	2.91	10.44	3.73	109.50	3.22	37.00
30	2.22	.21	2.81	7.08	3.51	76.95	2.91	10.44	-	-	3.20	35.00
31	2.23	.24	-	-	3.43	64.50	H	76.40	-	-	3.18	33.00
TOTAL,		7.90		130.82		1703.79		598.68		7644.74		1776.50
Mean Daily Discharge in Second-feet		.25		4.36		54.96		19.31		263.61		57.31
Second-feet per square mile		.051		.890		1.123		.394		5.38		1.17
Run-off, depth in inches		.006		.099		1.295		0.455		5.810		1.350
Run-off in acre-feet		15.66		259.42		3379.47		1187.18		15163.34		3523.69
Maximum Mean Daily Discharge in Second-feet		.70		46.50		898.00		76.40		2085.60		106.50
Minimum Mean Daily Discharge in Second-feet		.12		.21		4.34		10.44		78.00		33.00

DAY	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1	3.18	33.0	3.03	18.00	2.88	9.28	2.74	5.38	2.36	.82	2.22	.21
2	3.16	31.0	3.02	17.00	2.91	10.44	2.64	3.56	2.36	.82	2.22	.21
3	3.15	30.0	3.03	18.00	2.92	10.88	2.64	3.56	2.36	.82	2.21	.18
4	3.14	29.0	3.03	18.00	2.94	11.76	2.64	3.56	2.35	.75	2.21	.18
5	3.14	29.0	3.04	19.00	2.95	12.20	2.65	3.70	2.34	.70	2.22	.21
6	3.12	27.0	3.04	19.00	2.95	12.20	2.66	3.86	2.34	.70	2.22	.21
7	3.13	28.0	3.05	20.00	2.93	11.32	2.67	4.02	2.33	.65	2.22	.21
8	3.11	26.0	3.04	19.00	2.91	10.44	2.66	3.86	2.32	.60	2.22	.21
9	3.08	23.0	3.01	16.00	2.89	9.64	2.65	3.70	2.32	.60	2.22	.21
10	3.06	21.0	3.00	15.00	2.88	9.28	2.64	3.56	2.32	.60	2.22	.21
11	3.05	20.0	2.99	14.44	2.88	9.28	2.64	3.56	2.32	.60	2.23	.24
12	3.03	18.0	2.96	12.76	2.85	8.20	2.63	3.42	2.32	.60	2.23	.24
13	3.06	21.0	2.93	11.32	2.85	8.20	2.63	3.42	2.32•	.60	2.23	.24
14	3.07	22.0	2.95	12.20	2.84	7.92	2.62	3.28	2.31•	.55	2.23	.24
15	3.07	22.0	2.94	11.76	2.82	7.36	2.59	2.88	2.31•	.55	2.24	.27
16	3.07	22.0	2.91	10.44	2.83	7.64	2.57	2.64	2.30•	.50	2.24	.27
17	3.07	22.0	2.90	10.00	2.85	8.20	2.54	2.30	2.30•	.50	2.25	.30
18	3.07	22.0	2.91	10.44	2.84	7.92	2.52	2.10	2.30•	.50	2.26	.34
19	3.07	22.0	2.88	9.28	2.81	7.08	2.49	1.81	2.30•	.50	2.28	.42
20	3.09	24.0	2.91	10.44	2.78	6.26	2.46	1.54	2.29•	.46	2.28	.42
21	3.09	24.0	2.90	10.00	2.76	5.82	2.43	1.31	2.28•	.42	2.29	.46
22	3.08	23.0	2.91	10.44	2.74	5.38	2.41	1.17	2.27•	.38	2.30	.50
23	3.06	21.0	2.91	10.44	2.72	4.94	2.40	1.10	2.26•	.34	2.30	.50
24	3.06	21.0	2.93	11.32	2.69	4.34	2.41	1.17	2.26•	.34	2.30	.50
25	3.08	23.0	2.90	10.00	2.69	4.34	2.41	1.17	2.26	.34	2.31	.55
26	3.13	28.0	2.92	10.88	2.68	4.18	2.41	1.17	2.26	.34	2.31	.55
27	3.11	26.0	2.88	9.28	2.68	4.18	2.41	1.17	2.26	.34	2.32	.60
28	3.08	23.0	2.89	9.64	2.67	4.02	2.40	1.10	2.25	.30	2.33	.65
29	3.05	20.0	2.92	10.88	2.64	3.56	2.39	1.03	2.25	.30	2.33	.65
30	3.03	18.0	2.91	10.44	2.64	3.56	2.38	.96	2.24	.27	2.33	.65
31	-	-	2.91	10.44	-	-	2.37	.89	2.23	.24	-	-
TOTAL,		719.00		405.84		229.82		77.95		16.03		10.63
Mean Daily Discharge in Second-feet		23.97		13.09		7.66		2.51		.51		.35
Second-feet per square mile		.489		.267		.156		.051		.010		.007
Run-off, depth in inches		0.546		0.308		0.175		0.059		0.012		0.008
Run-off in acre-feet		1425.78		804.78		455.73		154.57		31.79		21.08
Maximum Mean Daily Discharge in Second-feet		33.00		20.00		12.20		5.38		.82		.65
Minimum Mean Daily Discharge in Second-feet		18.00		9.28		3.56		.89		.24		.18

PERIOD YEAR: 26,422.49

HAV R.H.L. WRK HAV HAV





SAN GABRIEL RIVER - BEAR CREEK

F. C. Dist. Form 124 M 12-31

Location
On East bank of Bear Creek, a tributary to San Gabriel River, one and one-half miles above mouth (of Bear Creek) at Pasadena's Boy Scout Camp.

Drainage Area
26 square miles.

Installed by
Los Angeles County Flood Control District, July, 1929.

Records Available
October 1, 1929 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Au, continuous type water stage recorder installd in galvanized iron shelter house on corrugated iron stilling well secured to sloping rock bank on east bank of stream.

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
1929-1930
Maximum-108.00 c.f.s. May 3, 1930.
Minimum-10 c.f.s. Oct. 13, 1930.
1930-1931
Maximum-527 c.f.s. April 26, 1931,
Minimum-.01 c.f.s. August 27, 1931.
1931-1932
Maximum-1512 c.f.s. February 9, 1932
Minimum-0.10 c.f.s. September 16, 1932

Diversion
None

Regulation
None

Accuracy
Fair

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.99

Discharge measurements of San Gabriel River, Bear Creek

at Pasadena's Boy Scout Camp, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Conf.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	282
1	10/2	G. Patterson	2.0	.46	.87	2.22	.40		.6		3	0	1/12	897
2	6	"	6.0	2.58	.59	2.34	1.53		.6		6	0	1/4	"
3	20	"	7.0	4.3	1.09	2.40	4.7		.6		7	0	1/4	"
4	12/1	Geo. H. Delaney	9.0	5.16	1.08	2.44	5.56		.6		7	0	1/6	271. 658
5	4	"	8.0	4.84	1.01	2.44	4.9		.6		7	0	1/4	"
6	18	Delaney & Lane	10.5	7.4	1.41	2.60	10.5		.6		7	0	1/6	"
7	11	Geo. H. Delaney	16.5	18.7	.38	2.58	7.2		.6		8	0	1/5	"
8	15	"	9.0	5.88	1.22	2.52	7.20		.6		7	0	1/6	"
9	18	"	9.0	5.98	1.21	2.50	7.20		.6		7	0	1/6	"
10	22	Delaney & Lane	11.5	9.6	1.71	2.70	14.7		.6		9	0	1/4	"
11	30	Geo. H. Delaney	25.5	30.1	1.53	3.07	47.7		.6		9	0	1/4	F.C. 15
	1932													
12	1/8	Geo. H. Delaney	11.5	9.36	1.87	2.66	17.5		.6		7	0	1/6	"
13	15	Delaney& Lane	11.0	8.76	1.79	2.64	15.7		.6		7	0	1/6	"
14	22	Geo. H. Delaney	19.0	21.4	.49	2.54	10.5		.6		7	0	1/4	"
15	27	Geo. H. Delaney	19.5	20.5	.45	2.51	9.21		.6		7	0	1/4	"
16	29	"	19.3	20.4	.42	2.52	8.47		.6		7	0	1/6	"
17	31	"	27.0	34.4	1.47	3.12	50.5		.6		8	.95	1/2	"
18	31	"	28.0	39.5	1.92	3.55	75.6		.6		8	.02	2/5	"
19	2/1	"	28.0	37.1	1.58	3.20	58.6		.6		10	.02	1/5	"
20	1	"	27.5	34.9	1.54	3.12	54.1		.6		10	.02	1/3	"
21	1	"	28.0	39.9	2.24	3.41	89.5		.6		8	.9	2/5	
22	2	"	27.7	35.4	1.62	3.15	57.5		.6		9	.01	1/4	"
23	3	"	26.5	28.9	1.14	2.80	32.9		.6		8	0	1/4	"
24	8	"	34.5	102.	2.92	4.87	298.		.6		6	.25	1/2	"
25	8	"	36.5	105.	4.25	5.05	448.		.6		6	.10	1/6	"
26	8	"	36.5	109.	4.35	5.15	475.		.6		6	.10	1/6	"

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.99

Discharge measurements of San Gabriel River Bear Creek

at Pasadena's Boy Scout Camp, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1932													
27	2/8	Geo. H. Delaney	37	123.	4.54	5.30	560.0		.6		5	.10	1/6	F.C. 18
28	8	"	38.	126.	4.68	5.45	592.3		.6		6	.10	1/6	"
29	8	"	38.	125.	4.82	5.63	602.5		.6		7	.06	2/5	"
30	8	"	3[illegible].	137.	5.3	5.77	726.9		.6		7	.07	3/5	"
31	9	"	44.	156.	7.14	6.84	1119.		.6		8	.0	1/3	"
32	9	"	46.	167.	7.08	6.95	1184.		.6		8	0	1/3	"
33	10	"	37.	98.7	4.65	4.94	459.2		.6		7	0	1/4	"
34	10	"	38.	99.2	4.22	4.75	418.5		.6		7	0	1/3	"
5	10	"	36.	94.7	4.19	4.65	397.2		.6		7	0	1/4	"
36	11	"	35.	75.0	3.31	4.15	248.0		.6		7	0	1/4	"
37	15	"	28.	45.6	2.15	3.42	98.06		.6		10	0	1/3	"
38	17	"	27.	43.1	1.87	3.35	80.7		.6		9	0	1/4	"
38 A	19	"	27.	41.0	1.79	3.26	73.8		.6		9	0	1/4	"
39	26	"	28.	45.0	2.02	3.39	90.28		.6		9	0	1/3	"
40	3/1	"	27.	45.1	2.03	3.43	90.23		.6		9	0	1/4	"
41	4	"	27.	40.9	1.79	3.28	73.16		.6		9	0	1/4	
42	10	"	31.	46.1	1.12	3.10	51.22		.6		10	0	1/3	"
43	17	"	29.	42.9	.96	2.98	41.53		.6		10	0	1/3	"
44	25	"	27.	28.6	1.26	2.91	36.2		.6		8	0	1/3	"
45	4/1	"	26.	28.5	1.09	2.86	30.9		.6		8	0	1/4	"
46	8	"	25.	28.2	.88	2.81	24.8		.6		8	0	1/3	"
47	14	"	16.	11.9	2.02	3.79	24.3		.6		7	0	1/4	"
48	21	"	25.	25.6	.85	2.74	21.7		.6		8	0	1/4	"
49	28	"	16.	10.1	1.71	2.71	17.3		.6		8	0	1/6	"
50	5/5	"	24.	24.0	.71	2.68	17.0		.6		7	0	1/4	"
51	13	"	15.	9.4	1.62	2.65	15.1		.6		8	0	1/6	"
52	20	Patterson	17.	14.9	.85	2.50	12.7		.6		9	0	1/3	F.C. 22
53	27	"	18.	10.0	.97	2.46	9.7		.6		7	0	1/4	"

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 99

Discharge measurements of SAN GABRIEL RIVER, BEAR CREEK

at PASADENA'S BOY SCOUT CAMP, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
54	6/3	Patterson	21.5	12.9	1.19	2.54	15.4		.6		8		1/3	F.C. 22
55	10	"	12.0	8.3	1.07	2.43	8.9		"		7		1/4	"
56	16	"	17.0	17.2	.51	2.42	8.7		"		8		1/4	"
57	23	"	15.0	15.5	.38	2.34	5.9		"		7		1/4	"
58	7/1	"	15.0	15.1	.30	2.29	4.5		"		7		1/6	"
59	7	"	5.0	2.7	1.37	2.21	3.7		"		41		1/12	"
60	14	"	3.5	2.9	1.07	-	3.1		"		4		1/6	"
61	22	"	8.0	3.8	.66	2.18	2.50		"		5		1/6	"
62	28	"	7.5	3.3	.53	2.14	1.8		"		6		1/6	"
63	8/12	Irwin	7.0	4.4	.31	2.12	1.37		"		7		1/6	F.C. 2
64	18	Patterson	4.0	1.34	.72	2.07	.96		"		4		1/6	22
65	24	"	6.5	2.5	.15	2.03	.38		"		6		1/6	"
66	31	"	5.0	1.66	.41	2.08	.68		"		4		1/6	"
67	9/6	"	5.0	1.48	.35	2.04	.52		"		4		1/6	"
68	15	"	3.5	1.08	.33	1.98	.33		"		4		1/6	"
69	22	"	5.0	1.63	.44	2.09	.71		"		4		1/6	"
70	29	"	5.0	1.67	.44	2.11	.74		"		4		1/6	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F99

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL RIVER, BEAR CREEK

Near PASADENA SCOUT CAMP for the Year Ending September 30, 1932

Drainage Area 26 Square Miles. [G. P. PATTERSON Observer.] Gage Read Continuous Used rating table dated

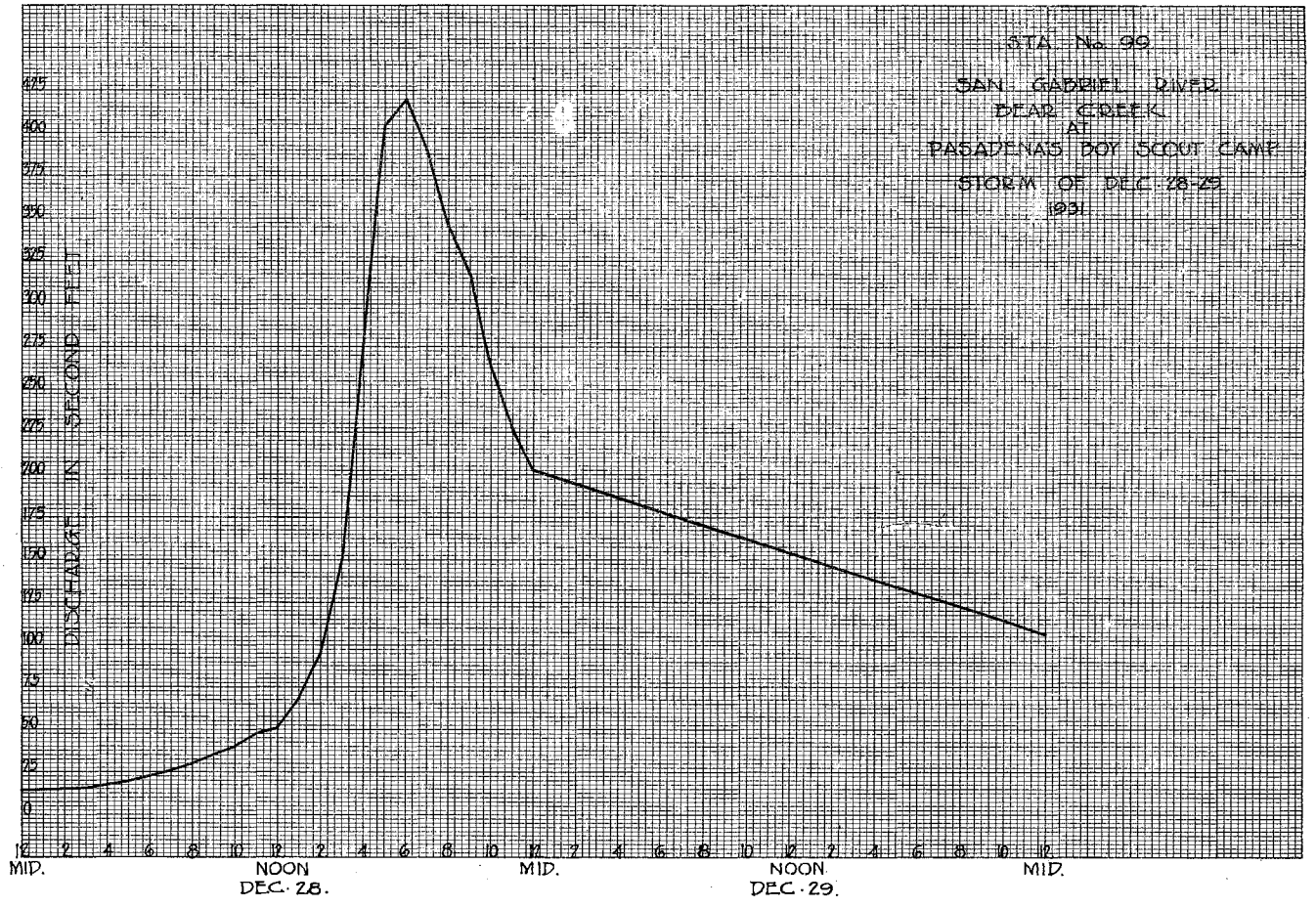
Maximum stage 7.78 feet at 4:00 AM on Feb. 9, 1932 Discharge 1512 second-feet.
Minimum stage 2.17 feet at 6:00 PM on Sept. 16, 1932 Discharge less than .10 second-feet.
Adjustment curve used on gage heights.

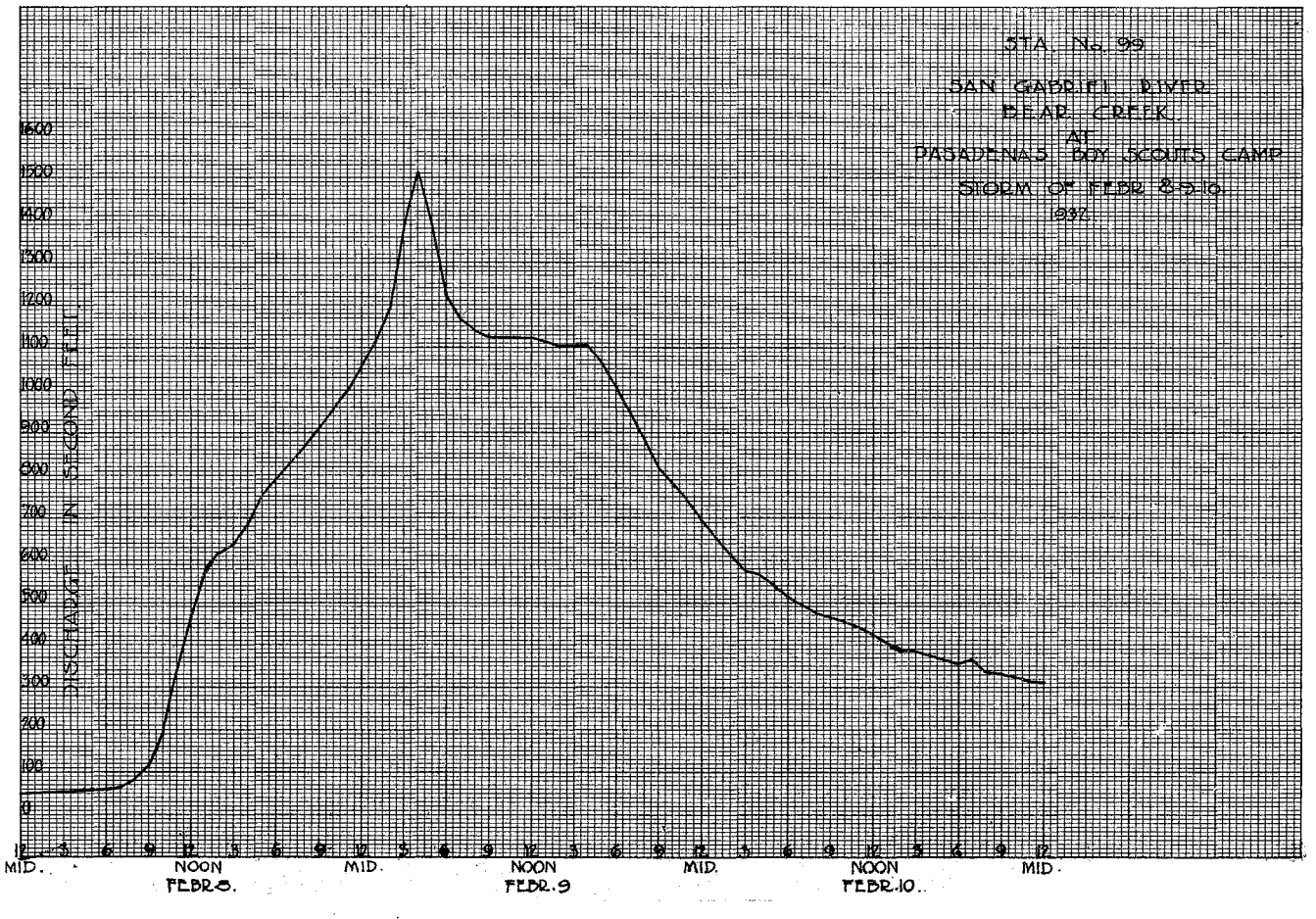
Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1	2.24	.80	2.27	1.48	2.45	6.10	2.84	27.20	H	71.40	3.44	94.60
2	2.24	.80	2.27	1.48	2.45	6.10	2.83	26.40	H	54.15	3.39	87.60
3	2.24	.80	2.27	1.48	2.46	6.38	2.76	20.80	2.93	35.00	3.35	82.00
4	2.24	.80	2.27	1.48	2.48	6.94	2.72	17.60	2.84	27.20	3.30	75.00
5	2.24	.80	2.27	1.48	2.46	6.38	2.77	21.60	2.80	24.00	3.23	66.60
6	2.25	1.00	2.27	1.48	2.44	5.84	2.75	20.00	2.82	25.60	3.20	63.00
7	2.25	1.00	2.28	1.72	2.45	6.10	2.73	18.40	3.06	48.00	3.16	58.20
8	2.26	1.24	2.30	2.20	2.48	6.94	2.71	16.80	H	447.6	3.14	56.00
9	2.28	1.72	2.31	2.46	2.72	17.6	2.69	15.32	H	1093.	3.10	52.00
10	2.29	1.96	2.32	2.72	2.60	10.7	2.67	13.96	H	444.7	3.09	51.00
11	2.29	1.96	2.37	4.02	2.48	6.94	2.66	13.28	4.13	223.5	3.07	49.00
12	2.28	1.72	2.34	3.24	2.49	7.22	2.67	13.96	3.81	154.0	3.05	47.00
13	2.27	1.48	2.32	2.72	2.48	6.94	2.68	14.64	3.69	131.4	3.03	45.00
14	2.27	1.48	2.33	2.98	2.50	7.50	2.66	13.28	3.57	112.8	3.03	45.00
15	2.27	1.48	2.57	9.74	2.50	7.50	2.66	13.28	3.46	97.40	3.02	44.00
16	2.27	1.48	2.48	6.94	2.50	7.50	2.65	12.60	3.41	90.40	3.01	43.00
17	2.28	1.72	2.42	5.32	2.50	7.50	2.64	12.22	3.33	79.20	3.00	42.00
18	2.38	4.28	2.42	5.32	2.50	7.50	2.62	11.46	3.32	77.80	3.00	42.00
19	2.36	3.76	2.40	4.80	2.51	7.82	2.61	11.08	3.31	76.40	3.01	43.00
20	2.33	2.98	2.40	4.80	2.53	8.42	2.61	11.08	3.28	72.60	3.00	43.00
21	2.32	2.72	2.40	4.80	2.64	12.2	2.59	10.38	3.27	71.40	2.99	41.00
22	2.31	2.46	2.39	4.54	2.69	15.3	2.59	10.38	3.29	73.8	2.96	38.00
23	2.31	2.46	2.39	4.54	2.63	11.8	2.58	10.06	3.31	76.40	2.96	38.00
24	2.31	2.46	2.38	4.28	2.60	10.7	2.57	9.74	3.34	80.60	2.95	37.00
25	2.29	1.96	2.39	4.54	2.73	18.4	2.56	9.42	3.36	83.40	2.95	37.00
26	2.29	1.96	2.40	4.80	2.76	20.8	2.56	9.42	3.42	91.80	2.94	36.00
27	2.29	1.96	2.65	12.60	2.69	15.3	2.56	9.42	3.47	98.80	2.93	35.00
28	2.27	1.48	2.57	9.74	H	141.7	2.54	8.78	3.49	101.6	2.92	34.00
29	2.27	1.48	2.52	8.14	3.39	87.6	2.53	8.46	3.47	98.80	2.92	34.00
30	2.27	1.48	2.48	6.94	2.99	41.0	2.54	8.78	-	-	2.91	33.00
31	2.27	1.48	-	-	2.86	28.8	H	21.23	-	-	2.90	32.00
TOTAL,		55.16		132.78		557.62		441.03		4163.26		1524.0
Mean Daily Discharge in Second-feet		1.78		4.43		18.0		14.23		143.56		49.16
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		109.38		263.30		1106.04		874.56		8257.83		3022.85
Maximum Mean Daily Discharge in Second-feet		4.28		12.60		141.70		27.20		1093.45		94.60
Minimum Mean Daily Discharge in Second-feet		.80		1.48		6.10		8.46		24.00		32.00

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period Year
1	2.90	32.00	2.69	15.32	2.63	11.84	2.38	4.28	2.25	1.00	2.24	.80	
2	2.89	31.20	2.69	15.32	2.65	12.60	2.39	4.54	2.25	1.00	2.25	1.00	
3	2.87	29.60	2.70	16.00	2.69	15.32	2.40	4.80	2.25	1.00	2.26	1.20	
4	2.86	28.80	2.70	16.00	2.68	14.64	2.40	4.80	2.24	.80	2.24	.80	
5	2.83	26.40	2.70	16.00	2.66	13.28	2.41	5.06	2.24	.80	2.23	.60	
6	2.82	25.60	2.71	16.80	2.64	12.22	2.41	5.06	2.24	.80	2.23	.60	
7	2.80	24.00	2.72	17.60	2.61	11.08	2.40	4.80	2.24	.80	2.24	.80	
8	2.79	23.20	2.70	16.00	2.58	10.06	2.40	4.80	2.24	.80	2.23	.60	
9	2.78	22.40	2.69	15.32	2.56	9.42	2.39	4.54	2.24	.80	2.23	.60	
10	2.77	21.60	2.69	15.32	2.54	8.78	2.39	4.54	2.24	.80	2.24	.80	
11	2.77	21.60	2.68	14.64	2.54	8.78	2.39	4.54	2.24	.80	2.25	1.00	
12	2.78	22.40	2.68	14.64	2.54	8.78	2.38	4.28	2.24	.80	2.26	1.24	
13	2.79	23.20	2.67	13.96	2.54	8.78	2.38	4.28	2.27	1.48	2.27	1.48	
14	2.79	23.20	2.67	13.96	2.54	8.78	2.37	4.02	2.26	1.24	2.29	1.96	
15	2.79	23.20	2.67	13.96	2.54	8.78	2.37	4.02	2.26	1.24	2.22	.40	
16	2.78	22.40	2.66	13.28	2.54	8.78	2.36	3.76	2.26	1.24	2.22	.40	
17	2.78	22.40	2.64	12.22	2.53	8.46	2.35	3.50	2.26	1.24	2.22	.40	
18	2.78	22.40	2.64	12.22	2.52	8.14	2.34	3.24	2.26	1.24	2.22	.40	
19	2.78	22.40	2.63	11.84	2.49	7.22	2.34	3.24	2.26	1.24	2.22	.40	
20	2.79	23.20	2.65	12.60	2.47	6.66	2.33	2.98	2.26	1.24	2.27	1.48	
21	2.78	22.40	2.66	13.28	2.46	6.38	2.33	2.98	2.27	1.48	2.27	1.48	
22	2.77	21.60	2.64	12.22	2.44	5.84	2.32	2.72	2.27	1.48	2.25	1.00	
23	2.74	19.20	2.61	11.08	2.43	5.58	2.31	2.46	2.27	1.48	2.24	.80	
24	2.73	18.40	2.59	10.38	2.43	5.58	2.30	2.20	2.22	.40	2.24	.80	
25	2.74	19.20	2.59	10.38	2.43	5.58	2.29	1.96	2.22	.40	2.22	.40	
26	2.74	19.20	2.58	10.06	2.43	5.58	2.29	1.96	2.21	.20	2.22	.40	
27	2.72	17.60	2.58	10.06	2.42	5.32	2.28	1.72	2.21	.20	2.21	.20	
28	2.71	16.80	2.59	10.38	2.41	5.06	2.26	1.24	2.23	.60	2.23	.60	
29	2.69	15.32	2.60	10.70	2.40	4.80	2.26	1.24	2.24	.80	2.23	.60	
30	2.69	15.32	2.61	11.08	2.39	4.54	2.26	1.24	2.26	1.24	2.27	1.48	
31	-	-	2.61	11.08	-	-	2.25	1.00	2.24	.80	-	-	
TOTAL,		676.24		413.70		256.66		105.80		29.44		24.72	
Mean Daily Discharge in Second-feet		22.54		13.35		8.55		3.41		0.95		0.82	
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		1340.98		820.57		508.96		209.80		58.38		49.02	16,621.67
Maximum Mean Daily Discharge in Second-feet		32.00		17.60		15.32		5.06		1.48		1.96	
Minimum Mean Daily Discharge in Second-feet		15.32		10.06		4.54		1.00		0.20		0.20	

Computed WTK; Checked CEB; Date 11-7-32. CEB CEB CEB

Quarter: Fourth, Third, Second, First — Computed, Checked, Date; Disch. applied, Disch. checked, Date; G. H. copied, G. H. checked, Date


STA. No. 99
SAN GABRIEL RIVER
BEAR CREEK
AT
PASADENA'S BOY SCOUT CAMP
STORM OF DEC. 28-29
1931
DISCHARGE IN SECOND FEET
0
25
50
75
100
125
150
175
200
225
250
275
300
325
350
375
400
425
12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
MID.
NOON
DEC. 28.
MID.
NOON
DEC. 29.
MID.


STA. No. 99
SAN GABRIEL RIVER
BEAR CREEK
AT
PASADENA'S BOY SCOUTS CAMP
STORM OF FEBR. 8-9-10
1932
DISCHARGE IN SECOND FEET
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12 3 6 9 12
MID.
NOON
FEBR. 8.
MID.
NOON
FEBR. 9
MID.
NOON
FEBR. 10.
MID.

F-98 R

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 15 miles north of the town of Azusa, Los Angeles, County, California.

Drainage Area
18.6 square miles.

Installed by
Los Angeles County Flood Control District, September, 1929.

Records Available
October 1, 1929 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
An, 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, on east bank of stream.

Discharge Measurements
High water flows are measured from cable located just above recorder house, low water measurements are made by wading near gage.

Channel and Control
Channel-sand, gravel, rock and boulders.
Control-permanent rubble, concrete control installed October 1931.

Extremes of Discharge
1929-1930
Maximum-18.42 c.f.s. on May 3, 1930
Minimum-1.56 c.f.s. at various times during year.
1930-1931
Maximum-15.65 c.f.s. April 26, 1931
Minimum- 1.64 c.f.s. September 30, 1931.
1931-1932
Maximum-223.20 c.f.s. on Feb. 8, 1932
Minimum- 2.8 c.f.s. on Oct. 1-6, 1931

Diversions
None above gage

Regulation
None

Accuracy
Good

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

F. C. Dist. Form 104 HE 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 98

Discharge measurements of SAN GABRIEL RIVER NORTH FORK

at 2000 Feet Above Narrows, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10/13	Patterson	6.8	3.85	.47	4.12	1.81		.6		7		1/3	282 897
2	23	"	7.1	4.11	.69	4.14	2.85		.6		7		1/4	"
3	11/6	"	7.0	3.84	.63	4.13	2.40		.6		7		1/4	"
4	15	"	8.0	6.09	1.15	4.26	6.98		.6		6		1/6	"
5	20	"	7.3	4.4	.73	4.16	3.2		.6		7		1/4	"
6	12/4	Geo. H. Delaney	7.5	4.47	.75	4.18	3.36		.6		6		1/12	FC 18
7	9	Patterson & "	8.5	5.77	1.00	4.22	5.76		.6		7		1/6	"
8	10	" & Lane	8.5	5.11	.82	4.20	4.17		.6		7		1/6	282 897
9	11	Geo. H. Delaney	8.5	5.11	.81	4.20	4.15		.6		7		1/4	FC 18
10	18	"	8.0	4.97	.75	4.18	3.71		.6		7		1/6	"
11	23	"	8.0	4.98	.72	4.18	3.60		.6		7		1/6	"
12	26	"	7.0	5.34	.96	4.21	5.14		.6		6		1/6	"
13	28	" & Lane	13.	17.8	2.31	4.72	41.25		.6		6		1/3	"
14	29	" & Green	11.5	10.1	2.06	4.45	20.9		.6		6		1/4	"
15	30	"	9.0	7.37	1.68	4.35	12.4		.6		7		1/6	"
16	31	"	9.0	6.79	1.45	4.30	9.9		.6		7		1/6	"
	1932													
17	1/8	Delaney & Green	8.5	6.06	1.13	4.26	6.8		.6		6		1/6	"
18	12	"	8.5	5.90	1.12	4.24	6.6		.6		6		1/6	"
19	15	" & Lane	8.5	5.80	1.11	4.25	6.4		.6		6		1/6	"
20	22	Patterson	7.5	5.70	1.10	4.24	6.3		.6		7		1/4	282 897
21	2/3	Delaney & Green	11.5	6.9	1.88	4.44	13.0		.6		11		1/4	282 365
22	4	Green & Lane	10.	8.67	1.91	4.40	16.6		.6		8		1/4	"
23	10	" "	27.5	32.0	3.94	3.50	126.0		.6		9		1/4	"
24	11	" "	25.0	24.1	3.35	2.86	81.02		.6		9		1/4	"
26	11	" "	16.0	22.1	3.88	2.86	85.50		.6		8		1/4	"
27	12	" "	24.5	20.6	2.57	2.70	53.6		.6		8		1/4	"

F. C. Dist. Form 104 HE 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 98

Discharge measurements of SAN GABRIEL RIVER NORTH FORK

at 2000 Feet above Narrows, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
28	2/12	Green & Lane	24.5	21.00	2.50	2.70	53.64		.6		9		1/3	
29	15	" "	24.5	16.26	2.11	2.68	34.38		.6		9		"	
30	16	" "	24.5	17.43	2.10	2.68	36.53		.6		9		"	
31	16	" "	24.5	17.76	2.04	2.68	36.15		.6		9		1/3	
32	17	" "	25.	16.59	1.14	2.68	35.42		.6		9		"	
33	19	" "	25.	15.93	2.08	2.64	33.02		.6		9		1/3	
34	22	" "	24.5	16.96	2.06	2.68	32.82		.6		9		1/4	
35	23	Green	24.5	16.38	2.19	2.68	35.80		.6		9		"	
36	26	"	24.5	15.97	2.20	2.66	35.25		.6		9		"	
37	3/1	"	24.5	16.30	1.97	2.64	32.6		.6		9		1/3	
38	3	"	24.	15.67	1.96	2.62	30.68		.6		9		1/4	
39	11	" & Delaney	24.	15.5	1.77	2.59	27.3		.6		8		"	
40	18	" "	25.	14.6	1.60	2.53	23.0		.6		11		"	
41	25	Green	23.5	14.6	1.67	2.50	24.35		.6		9		"	
42	4/1	"	18.5	14.0	1.39	2.50	19.40		.6		7		"	
43	8	"	18.5	12.2	1.49		18.20		.6		9		"	
44	14	Green & Patterson	18.5	12.6	1.44	4.36	18.20		.6		9		"	
45	20	" & Delaney	17.5	11.6	1.34	4.36	15.6		.6		8		1/6	
46	21	Green	18.	11.8	1.30	4.36	15.47		.6		8		1/4	
47	28	"	18.5	22.0	1.25	4.38	15.12		.6		9		1/4	
48	5/4	"	18.	11.6	1.27	4.36	14.7		.6		9		1/3	282 897
49	12	"	18.	10.6	1.20	4.35	12.69		.6		8		1/4	282 365
50	20	G. Patterson	12.	10.5	1.06	4.31	11.1		.6		9		"	282 897
51	26	"	15.	9.5	1.08	4.30	10.3		.6		8		"	"
52	6/3	"	17.5	10.6	1.19	4.34	12.6		.6		9		"	"
53	10	"	16.	9.8	1.03	4.27	10.1		.6		8		1/3	"

F. C. Dist. Form 104 HE 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.98

Discharge measurements of SAN GABRIEL RIVER NORTH FORK

at 2,000 Feet Above Narrows, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
54	6/18	G. Patterson	15.5	9.3	1.00	4.28	9.3		.6		8	0	1/4	282 897
55	23	"	15.0	8.6	.90	4.26	7.7		.6		8	0	"	"
56	7/1	"	14.5	8.0	.86	4.25	6.9		.6		7	0	1/3	"
57	7/8	"	14.5	7.8	.80	4.24	6.2		.6		7	0	1/4	"
58	7/14	"	14.5	8.0	.81	4.23	6.5		.6		7	0	"	"
59	7/22	"	13.5	7.6	.71	4.21	5.4		.6		7	0	1/6	"
60	7/28	" & Irwin	14.0	7.6	.78	4.21	5.9		.6		7	0	"	"
61	8/12	Irwin	12.0	9.2	.49	4.20	4.5		.6		6	0	1/4	"
62	8/18	Patterson	14.0	7.0	.59	4.16	4.1		.6		7	0	1/6	282 897
63	8/24	"	14.0	6.9	.55	4.16	3.8		.6		7	0	1/4	"
64	9/2	"	14.5	7.2	.57	4.17	4.1		.6		7	0	"	"
65	9/7	"	14.5	6.6	.55	4.15	3.6		.6		7	0	"	"
66	9/15	"	14.5	6.5	.54	4.15	3.5		.6		7	0	"	"
67	9/23	"	14.5	6.3	.54	4.14	3.4		.6		7	0	"	"
68	9/30	"	14.5	7.2	.56	4.17	4.0		.6		7	0	"	"

F.C. Dist.--Form 105--1000--9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL RIVER NORTH FORK

2000 FEET ABOVE NARROW for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 98

Drainage Area 18.8 Square Miles. [G. PATTERSON Observer.] Gage Read Continuous Used rating table dated

Maximum stage 5.79 feet at 11 PM on Feb. 8, 1932
Minimum stage feet at on Oct. 6, 1931
Adjustment curve used on gage heights

Discharge 223.20 second-feet
Discharge 1.80 second-feet

Weekly Measurements

Interpolated

Meas

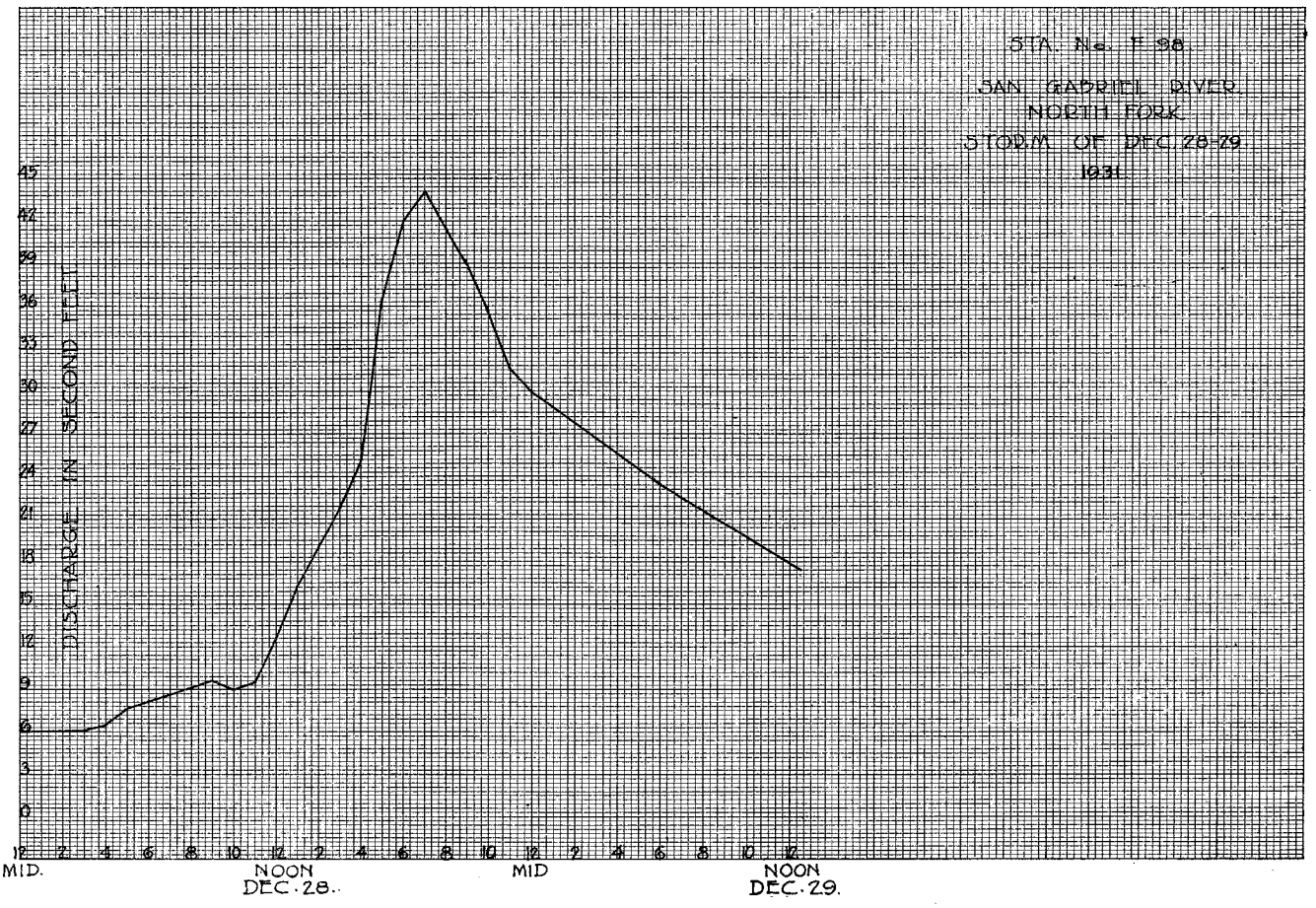
From Bear Creek

Interpolated

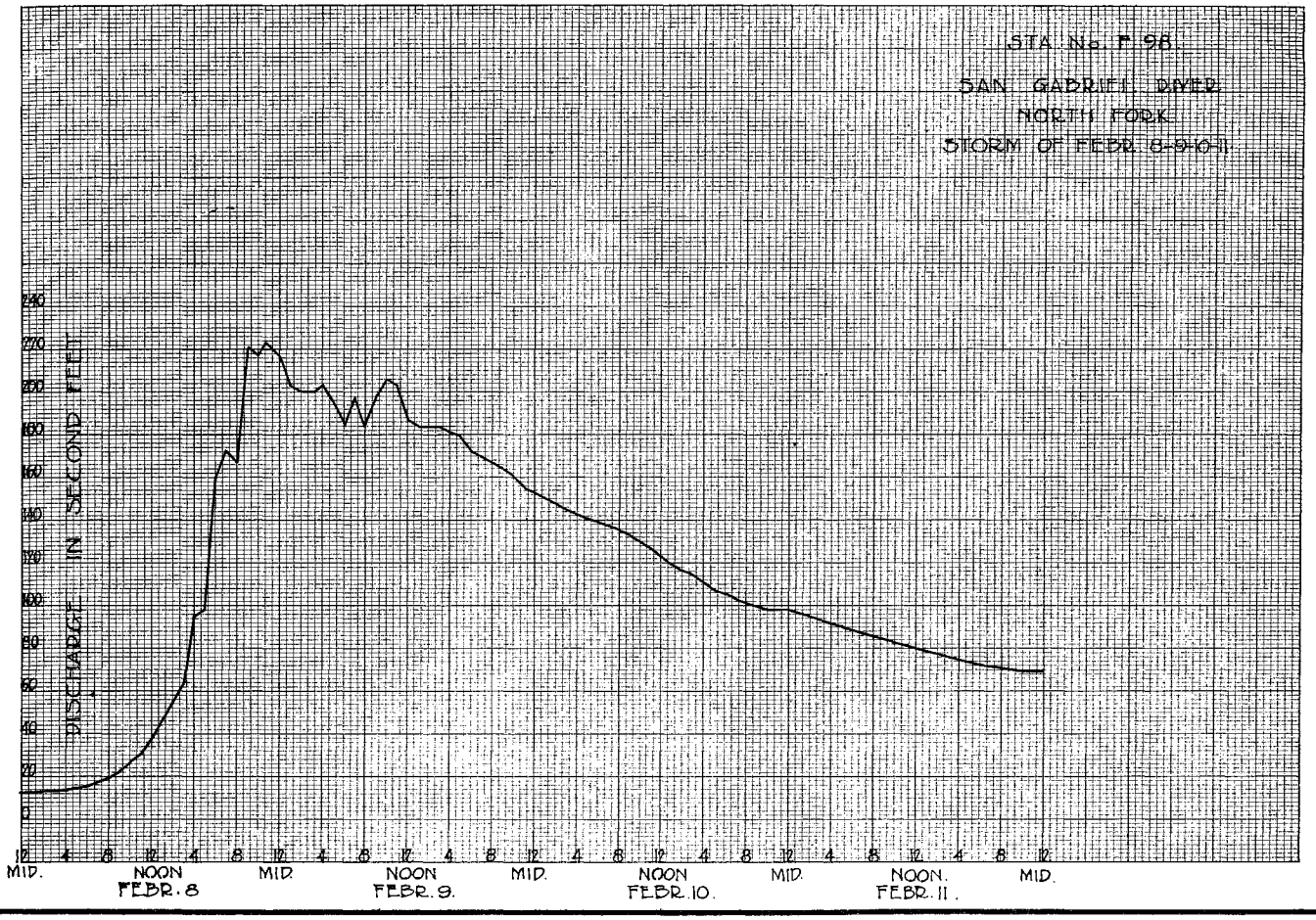
Meas

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		1.80		2.40	4.17	3.70	4.26	7.60	H	21.94	4.74	37.20	1	4.49	19.55	4.41	15.15	4.34	11.60	4.26	7.60	4.22	5.60	4.18	4.00	1
2		1.80		2.40	4.16	3.40	4.28	8.60	4.48	19.00	4.72	35.60	2	4.50	20.10	4.41	15.15	4.34	11.60	4.26	7.60	4.22	5.60	4.18	4.00	2
3		1.80		2.40	4.16	3.40	4.27	8.10	4.35	12.10	4.69	33.20	3	4.49	19.55	4.41	15.15	4.35	12.10	4.26	7.60	4.22	5.60	4.18	4.00	3
4		1.80		2.40	4.16	3.40	4.27	8.10	4.38	13.60	4.69	33.20	4	4.48	19.00	4.41	15.15	4.36	12.60	4.26	7.60	4.21	5.10	4.18	4.00	4
5		1.80		2.40	4.16	3.40	4.26	7.60	4.35	12.10	4.67	31.60	5	4.47	18.45	4.41	15.15	4.35	12.10	4.26	7.60	4.21	5.10	4.18	4.00	5
6		1.80	4.13	2.50	4.16	3.40	4.24	6.60	4.36	12.60	4.63	28.60	6	4.47	18.45	4.41	15.15	4.35	12.10	4.26	7.60	4.20	4.60	4.18	4.00	6
7		1.81	4.14	2.80	4.16	3.40	4.24	6.60	4.36	12.60	4.62	27.90	7	4.47	18.45	4.41	15.15	4.34	11.60	4.26	7.60	4.20	4.60	4.18	4.00	7
8		1.81	4.15	3.10	4.20	4.30	4.24	6.60	H	78.00	4.61	27.20	8	4.46	17.90	4.40	14.60	4.34	11.60	4.26	7.60	4.20	4.60	4.18	4.00	8
9		1.81	4.16	3.40	4.26	7.60	4.24	6.60	H	185.5	4.61	27.20	9	4.46	17.90	4.40	14.60	4.33	11.10	4.26	7.60	4.20	4.60	4.18	4.00	9
10		1.81	4.16	3.40	4.19	4.30	4.24	6.60	H	123.0	4.61	27.20	10	4.46	17.90	4.39	14.10	4.32	10.60	4.26	7.60	4.20	4.60	4.18	4.00	10
11		1.81	4.17	3.70	4.20	4.60	4.24	6.60	H	81.00	4.60	26.50	11	4.46	17.90	4.38	13.60	4.32	10.60	4.25	7.10	4.20	4.60	4.18	4.00	11
12		1.81	4.17	3.70	4.20	4.60	4.24	6.60	4.95	57.00	4.60	26.50	12	4.46	17.90	4.37	13.10	4.32	10.60	4.25	7.10	4.20	4.60	4.18	4.00	12
13		1.81	4.18	4.00	4.20	4.60	4.24	6.60	4.88	50.00	4.59	25.80	13	4.46	17.90	4.37	13.10	4.32	10.60	4.25	7.10	4.20	4.60	4.18	4.00	13
14		1.81	4.18	4.00	4.19	4.30	4.24	6.60	4.80	42.00	4.60	26.50	14	4.46	17.90	4.37	13.10	4.32	10.60	4.25	7.10	4.20	4.60	4.18	4.00	14
15		1.81	4.24	6.60	4.19	4.30	4.24	6.60	4.70	34.00	4.59	25.80	15	4.46	17.90	4.36	12.60	4.32	10.60	4.24	6.60	4.20	4.60	4.18	4.00	15
16		1.81	4.19	4.30	4.18	4.00	4.24	6.60	4.70	34.00	4.56	23.70	16	4.46	17.90	4.36	12.60	4.32	10.60	4.24	6.60	4.20	4.60	4.18	4.00	16
17		2.00	4.17	3.70	4.17	3.70	4.24	6.60	4.70	34.00	4.55	23.00	17	4.45	17.35	4.36	12.60	4.32	10.60	4.24	6.60	4.20	4.60	4.18	4.00	17
18		5.10	4.16	3.40	4.17	3.70	4.24	6.60	4.70	34.00	4.55	23.00	18	4.44	16.80	4.36	12.60	4.31	10.10	4.24	6.60	4.20	4.60	4.20	4.60	18
19		4.50	4.16	3.40	4.17	3.70	4.24	6.60	4.70	34.00	4.56	23.70	19	4.43	16.25	4.36	12.60	4.30	9.60	4.24	6.60	4.20	4.60	4.20	4.60	19
20		3.60	4.16	3.40	4.17	3.70	4.24	6.60	4.70	34.00	4.58	25.10	20	4.43	16.25	4.35	12.10	4.30	9.60	4.24	6.60	4.19	4.30	4.20	4.60	20
21		3.25	4.16	3.40	4.17	3.70	4.24	6.60	4.70	34.00	4.58	25.10	21	4.44	16.80	4.35	12.10	4.29	9.10	4.24	6.60	4.18	4.00	4.20	4.60	21
22		2.85	4.16	3.40	4.17	3.70	4.24	6.60	4.70	34.00	4.57	24.40	22	4.43	16.25	4.35	12.10	4.29	9.10	4.24	6.60	4.18	4.00	4.20	4.60	22
23		2.85	4.16	3.40	4.17	3.70	4.24	6.60	4.73	36.40	4.58	25.10	23	4.42	15.70	4.35	12.10	4.28	8.60	4.24	6.60	4.18	4.00	4.19	4.30	23
24		2.85	4.16	3.40	4.17	3.70	4.24	6.60	4.73	36.40	4.58	25.10	24	4.41	15.15	4.34	11.60	4.28	8.60	4.24	6.60	4.18	4.00	4.19	4.30	24
25		2.60	4.16	3.40	4.21	5.10	4.24	6.60	4.73	36.40	4.58	25.10	25	4.41	15.15	4.34	11.60	4.28	8.60	4.24	6.60	4.18	4.00	4.19	4.30	25
26		2.60	4.16	3.40	4.22	5.60	4.24	6.60	4.73	36.40	4.56	23.70	26	4.42	15.70	4.34	11.60	4.28	8.60	4.24	6.60	4.18	4.00	4.19	4.30	26
27		2.60	4.22	5.60	4.21	5.10	4.24	6.60	4.73	36.40	4.55	23.00	27	4.41	15.15	4.34	11.60	4.28	8.60	4.24	6.60	4.18	4.00	4.18	4.00	27
28		2.40	4.20	4.60	H	19.54	4.24	6.60	4.73	36.40	4.54	22.42	28	4.40	14.60	4.34	11.60	4.28	8.60	4.23	6.10	4.18	4.00	4.18	4.00	28
29		2.40	4.18	4.00	4.53	21.84	4.24	6.60	4.73	36.40	4.53	21.84	29	4.40	14.60	4.34	11.60	4.27	8.10	4.23	6.10	4.19	4.30	4.18	4.00	29
30		2.40	4.17	3.70	4.36	12.60	4.24	6.60	–	–	4.51	20.68	30	4.40	14.60	4.34	11.60	4.27	8.10	4.23	6.10	4.20	4.60	4.18	4.00	30
31		2.40	–	–	4.31	10.10	H	10.04	–	–	4.49	18.45	31	–	–	4.34	11.60	–	–	4.22	5.60	4.19	4.30	–	–	31
TOTAL		73.30		105.70		176.48		215.04		1247.24		813.39			515.00		406.45		306.50		214.10		140.90		124.20	
Mean Daily Discharge in Second-feet		2.37		3.52		5.69		6.94		43.27		26.24			17.17		13.11		10.22		6.91		4.54		4.14	
Second-feet per square mile		.13		.19		.30		.37		2.29		1.40			.91		.70		.54		.37		.24		.22	
Run-off, depth in inches																										
Run-off in acre-feet		145.35		209.60		349.96		426.53		2473.90		1612.95			1021.50		806.19		607.79		424.56		279.40		246.35	8604.08
Maximum Mean Daily Discharge in Second-feet		5.10		6.60		21.84		10.17		185.50		37.20			20.10		15.15		12.60		7.60		5.60		4.60	
Minimum Mean Daily Discharge in Second-feet		1.80		2.40		3.40		6.60		12.10		18.45			14.60		11.60		8.10		5.60		4.00		4.00	

Quarter: First WTK, Second WTK, Third WTK, Fourth WTK
Computed G.E.B. 11-1-32
Checked
Discharge applied WTK
Discharge checked
Date
G. H. copied WTK
G. H. checked
PERIOD YEAR



KEUFFEL & ESSER CO. N.Y. NO. 358-211.



P-3 R

SAN GABRIEL RIVER WEST FORK P.W.D. STATION
2 MILES ABOVE FORKS.

Location
One quarter mile above Camp Rincon Ranger Station on the south bank of West Fork of San Gabriel River 13.5 miles north of Azusa, Los Angeles County, California.

Drainage Area
102 square miles.

Installed by
County Road Department for Pasadena Water Department This station was moved from P. 1 which was about 1½ miles downstream.

Records Available
December 2, 1930 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California. Records from 1924 to November 19, 1930 were taken at P. 1.

Gage
Vertical Staff Gages on inside and outside of corrugated iron stilling well on south bank of river. Stevens continuous water stage recorder installed in house on top of stilling well.

Discharge Measurements
High water measurements made from cable car 15 feet above gage. Low water measurements made by wading near gage.

Extremes of Discharge
1930-1931
Maximum-1529 c.f.s. on April 26, 1931.
Minimum-0.85 c.f.s. on September 5, 1931.
1931-1932
Maximum-3787.5 c.f.s. on February 9, 1932
Minimum-0.28 c.f.s. on October 17, 1931.

Channel and Control
Channel is gravel and sand
Control of large boulders.

Diversions
Hydraulic Operations at No. 2 Dam Site also some diversion to Fish Hatchery in North Fork.

Regulation
None

Accuracy
Good

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

F. C. Dist. Form 164 DH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P3

Discharge measurements of SAN GABRIEL RIVER WEST FORK, P.W.D. STATION

at 2 miles above Forks, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating: Percent diff.	Method	Coef.	Meas. secs.	G. Ht. change: Total	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.		Hours	282
1	10/2	G. Patterson	7.0	3.7	.65	2.63	24.		.6		5		1/6	897
2	9	"	7.5	3.3	1.05	2.67	3.6		.6		8		1/4	"
3	16	"	9.0	3.3	.61	2.55	2.0		.6		5		1/4	"
4	18	"	7.0	3.7	.62	2.60	2.3		.6		7		1/4	"
5	18	"	25.5	20.2	1.60	3.08	32.4		.6		9		1/3	"
6	19	"	19.5	10.4	.97	2.75	10.1		.6		7		1/4	"
7	23	"	16.0	8.8	.59	2.65	5.2		.6		9		1/3	"
8	30	"	5.0	2.9	1.41	2.57	4.1		.6		4		1/6	"
9	11/6	"	15.0	7.83	.53	2.58	4.2		.6		8		1/6	"
10	15	"	34.0	27.4	1.80	3.21	49.3		.6		17		1/2	"
11	20	"	28.5	13.5	.78	2.80	10.5		.6		10		1/3	"
12	12/4	G. H. Delaney	35.0	16.4	.90	2.87	14.8		.6		11		1/3	F.C. 18
13	9	"	38.0	36.4	2.23	3.44	81.2		.6		10		1/4	"
14	9	Delaney - C. Lane	37.5	33.3	1.89	3.34	63.0		.6		10		1/3	"
15	10	" "	37.0	25.7	1.29	3.13	33.2		.6		11		1/4	"
16	11	G. H. Delaney	37.0	25.5	1.29	3.10	32.8		.6		11		1/4	"
17	18	"	37.0	21.5	1.03	2.98	22.3		.6		11		1/3	"
18	21	Delaney - C. Lane	37.5	26.6	1.33	3.14	35.4		.6		10		1/4	"
19	23	G. H. Delaney	37.0	25.6	1.30	3.12	33.6		.6		9		1/3	"
20	26	"	39.0	35.3	2.20	3.42	6.4		.6		10		1/3	"
21														
22	28	Delaney & Lane	70.0	148.	7.64	5.78	1129.		.6		10	.85	5/6	"
23	29	Delaney-J.V.Green	47.0	95.5	3.85	4.36	367.7		.6		10		1/2	"
24	30	G. H. Delaney	46.0	51.3	2.96	3.80	153.0		.6		9		1/3	"
25	31	"	47.0	45.9	2.50	3.66	123.0		.6		10		1/4	"
	1932													
26	1/8	Delaney - Green	43.5	29.8	1.53	3.26	45.8		.6		11		1/4	"

F. C. Dist. Form 104 (R) 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P 3

Discharge measurements of SAN GABRIEL RIVER WEST FORK - P.W.D. STATION

At 2 miles above Fo, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Percent diff.	rating	Method	Coef.	Meas. secs.	G. Ht. change Total	Time Hours	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.					No.			FO
27	1/12	G. H. Delaney	43.5	28.8	1.34	3.20	38.9		.6			10		1/3	18
28	15	Delaney - Lane	43.5	28.4	1.33	3.22	37.9		.6			10		1/4	"
29	22	Patterson-Green	43.0	25.0	1.42	3.13	35.5		.6			15		1/2	282 897
30	29	Patterson-Green	43.0	21.5	1.32	3.10	28.3		.6			11		1/4	"
31	2/3	Green - Lane	49.0	75.4	3.24	3.88	244.4		.6			11		1/2	282 965
32	2/4	" "	47.0	64.2	2.76	3.70	177.1		.6			9		5/12	"
33	8	" "	77.5	260.	6.33	6.02	1648.		.6			16	.75	1½	"
34	8	" "	77.5	275.	7.13	6.55	1960.		.6			16	.20	7/12	"
35	10	" "	72.5	212.	6.54	6.30	1386.		.6			14	.04	"	"
36															
37	11	" "	51.5	156.	4.96	5.00	773.0		.6			11	.02	1/3	"
38	12	"	49.5	112.	3.94	4.60	444.8		.6			11		"	"
39	12	" "	49.0	111.	4.11	4.50	458.0		.6			11		"	"
40	12	" "	49.0	105.	4.36	4.46	444.9		.6			11		5/12	"
41	15	" "	45.5	90.6	3.53	4.02	319.7		.6			9		1/2	"
42	16	" "	45.5	88.6	3.52	4.04	314.0		.6			9		1/3	"
43	16	" "	45.5	88.0	3.61	4.04	318.0		.6			9		"	"
44	17	" "	42.5	90.0	3.17	3.96	285.9		.6			9		"	"
45	18	" "	41.5	82.5	3.51	3.92	280.2		.6			9		1/4	"
46	19	" "	40.5	78.6	2.90	3.90	258.7		.6			9		1/2	"
47	20	" "	54.5	107.	3.16	3.86	338.8		.6			11		1/3	"
48	22	" "	59.0	108.	2.80	3.82	302.5		.6			12		1/3	"
49	23	" R. Delaney	59.5	111.	2.84	3.82	315.3		.6			12		1/3	"
50	26	"	60.0	107.	3.00	3.84	322.4		.6			12		1/2	"
51	3/1	"	59.0	185.	.76	3.80	235.2		.6			12		1/2	"
52	3/3	"	59.0	75.9	.54	3.64	198.7		.6			12		1/3	"
53	11	" R. Delaney	53.5	61.9	2.14	3.45	148.2		.6			11		"	"

F. C. Dist. Form 104 (R) 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. P3

Discharge measurements of SAN GABRIEL RIVER WEST FORK - P.W.D. Station

At 2 miles above Forks, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs.	G. Ht. change Total	Time Hours	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.			P.O.
54	3/16	Green - Delaney	53.0	58.6	2.17	3.34	127.5		.6		12		1/4	18
55	3/25	"	53.0	53.7	2.03	3.28	110.2		.6		11		1/3	282 965
56	4/1	"	51.0	50.7	1.88	3.20	95.2		.6		12		1/3	"
57	8	G. Patterson	36.0	48.0	1.53	3.12	73.5		.6		13		5/12	282 897
58	14	Patterson-Green	38.0	50.2	1.45	3.11	72.8		.6		10		1/3	282 965
59	20	G.H. Delaney	38.0	48.5	1.36	3.10	66.1		.6		10		1/4	"
60	21	J.V. Green	3.75	47.4	1.26	3.08	59.9		.6		10		1/3	"
61	28	"	37.0	45.8	1.35	3.06	61.7		.6		11		1/3	"
62	5/4	"	37.0	45.5	1.27	3.01	58.0		.6		12		"	"
63	12	"	37.0	42.3	1.16	2.95	49.1		.6		10		"	"
64	20	G. Patterson	27.5	23.0	1.77	2.87	40.8		.6		10		"	282 897
65	26	"	34.0	33.1	.92	2.83	30.5		.6		12		1/3	"
66	6/3	"	33.0	26.7	1.82	2.95	48.5		.6		10		5/12	"
67	10	"	22.0	19.8	1.28	2.79	25.4		.6		8		1/4	"
68	17	"	21.5	19.1	1.23	2.83	23.5		.6		8		1/3	"
69	24	"	33.0	27.8	.69	2.71	19.3		.6		12		1/3	"
70	7/2	"	22.0	12.3	1.48	2.70	18.2		.6		8		1/3	"
71	7/8	"	22.5	15.8	1.03	2.65	16.3		.6		8		1/3	"
72	14	"	14.0	13.8	.88	2.59	12.2		.6		7		1/4	"
73	22	"	19.0	10.2	.96	2.50	9.8		.6		7		"	"
74	28	" - J.L.Irwin	13.5	9.0	1.18	2.53	10.6		.6		8		1/6	"
75	8/12	J. L Irwin	16.0	17.0	.44	2.58	9.1		.6		6		1/3	P.O. 282 897
76	18	G. Patterson	12.0	7.6	.93	2.52	7.1		.6		6		1/4	"
77	26	"	10.0	6.3	.79	2.40	5.0		.6		6		1/4	"
78	9/2	"	11.0	6.6	.80	2.42	5.3		.6		6		1/4	"
79	8	"	7.0	3.8	.95	2.32	3.6		.6		7		1/4	"
80	9/15	"	12.0	7.4	.72	2.42	5.3		.6		8		1/4	"
81	23	"	11.0	6.3	.76	2.38	4.8		.6		6		"	"
82	30	"	13.0	8.5	.79	2.50	6.7		.6		8		"	"

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL RIVER WEST FORK
Pasadena's Station

At 2 miles above Forks for the Year Ending September 30, 1932

Drainage Area 102 Square Miles. [Patterson Observer.]

Gage Read Used rating table dated

File No. P3

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	2.48	2.20	2.58	4.52	2.93	17.74	3.50	95.00	H	646.0	4.00	230.0
2	2.47	2.00	2.58	4.52	2.90	16.00	3.48	90.60	H	431.7	3.98	224.0
3	2.45	1.60	2.58	4.52	2.90	16.00	3.40	73.00	4.06	251.0	3.95	215.0
4	2.47	2.00	2.58	4.52	2.88	15.04	3.34	61.40	3.85	185.0	3.89	197.0
5	2.49	2.40	2.58	4.52	2.87	14.56	3.32	58.20	3.75	157.0	3.84	182.2
6	2.50	2.60	2.58	4.52	2.86	14.08	3.29	53.40	3.73	151.4	3.82	176.6
7	2.52	3.08	2.59	4.76	2.86	14.08	3.25	47.00	3.91	203.0	3.81	173.8
8	2.52	3.08	2.62	5.56	2.90	16.00	3.24	45.60	H	1335.4	3.79	166.2
9	2.53	3.32	2.63	5.84	H	63.37	3.23	44.20	H	3111.5	3.77	162.6
10	2.55	3.80	2.65	6.40	3.12	31.76	3.20	40.00	H	1440.5	3.75	157.0
11	2.51	2.84	2.75	9.70	3.07	27.60	3.20	40.00	H	770.2	3.72	148.6
12	2.47	2.00	2.71	8.34	3.04	25.24	3.19	38.88	H	457.0	3.70	143.0
13	2.44	1.42	2.70	8.00	3.02	23.72	3.20	40.00	H	390.6	3.70	143.0
14	2.45	1.60	2.71	8.34	3.04	25.24	3.15	34.40	4.35	352.5	3.70	143.0
15	2.46	1.80	H	43.21	3.02	23.72	3.16	35.52	4.19	296.5	3.69	140.4
16	2.46	1.80	3.01	22.96	2.99	21.56	3.17	36.64	4.22	307.0	3.67	135.2
17	2.44	1.42	2.87	14.56	2.99	21.56	3.16	35.52	4.14	279.0	3.66	132.6
18	2.82	12.34	2.83	12.76	3.00	22.20	3.16	35.52	4.16	286.0	3.66	132.6
19	2.80	11.50	2.80	11.50	3.01	22.96	3.15	34.40	4.05	247.5	3.66	132.6
20	2.71	8.34	2.78	10.78	3.03	24.48	3.15	34.40	4.29	331.5	3.65	130.0
21	2.80	11.50	2.77	10.42	3.11	30.88	3.15	34.40	4.23	310.5	3.62	122.8
22	2.65	6.40	2.76	10.06	3.20	40.00	3.16	35.52	4.18	293.0	3.59	115.6
23	2.61	5.28	2.77	10.42	3.14	33.52	3.16	33.52	4.19	296.5	3.57	110.8
24	2.59	4.76	2.76	10.06	3.11	30.88	3.13	32.64	4.21	303.5	3.56	108.4
25	2.60	5.00	2.78	10.78	H	70.90	3.12	31.76	4.21	303.5	3.56	108.4
26	2.59	4.76	2.79	11.14	3.44	81.80	3.11	30.88	4.24	314.0	3.55	106.0
27	2.60	5.00	H	74.47	3.29	53.40	3.12	31.76	4.20	300.0	3.54	103.8
28	2.57	4.28	3.17	36.64	H	598.5	3.10	30.00	4.16	286.0	3.54	103.8
29	2.56	4.04	3.02	23.72	H	412.0	3.08	28.40	4.09	261.5	3.54	103.8
30	2.56	4.04	2.96	19.56	H	175.2	3.12	31.76	-	-	3.53	101.6
31	2.57	4.28	-	-	3.60	118.00	H	96.40	-	-	3.52	99.4
TOTAL		130.48		417.10		2101.99		1392.72		14298.80		4451.80
Mean Daily Discharge in Second-feet		4.21		13.90		67.81		44.93		493.06		143.61
Second-feet per square mile		.041		.136		.665		.440		4.834		1.408
Run-off, depth in inches												
Run-off in acre-feet		258.74		827.11		4168.23		2761.76		28354.52		8827.92
Maximum Mean Daily Discharge in Second-feet		12.34		74.47		598.50		96.40		111.5		230.90
Minimum Mean Daily Discharge in Second-feet		1.42		4.52		14.08		30.00		151.40		99.20

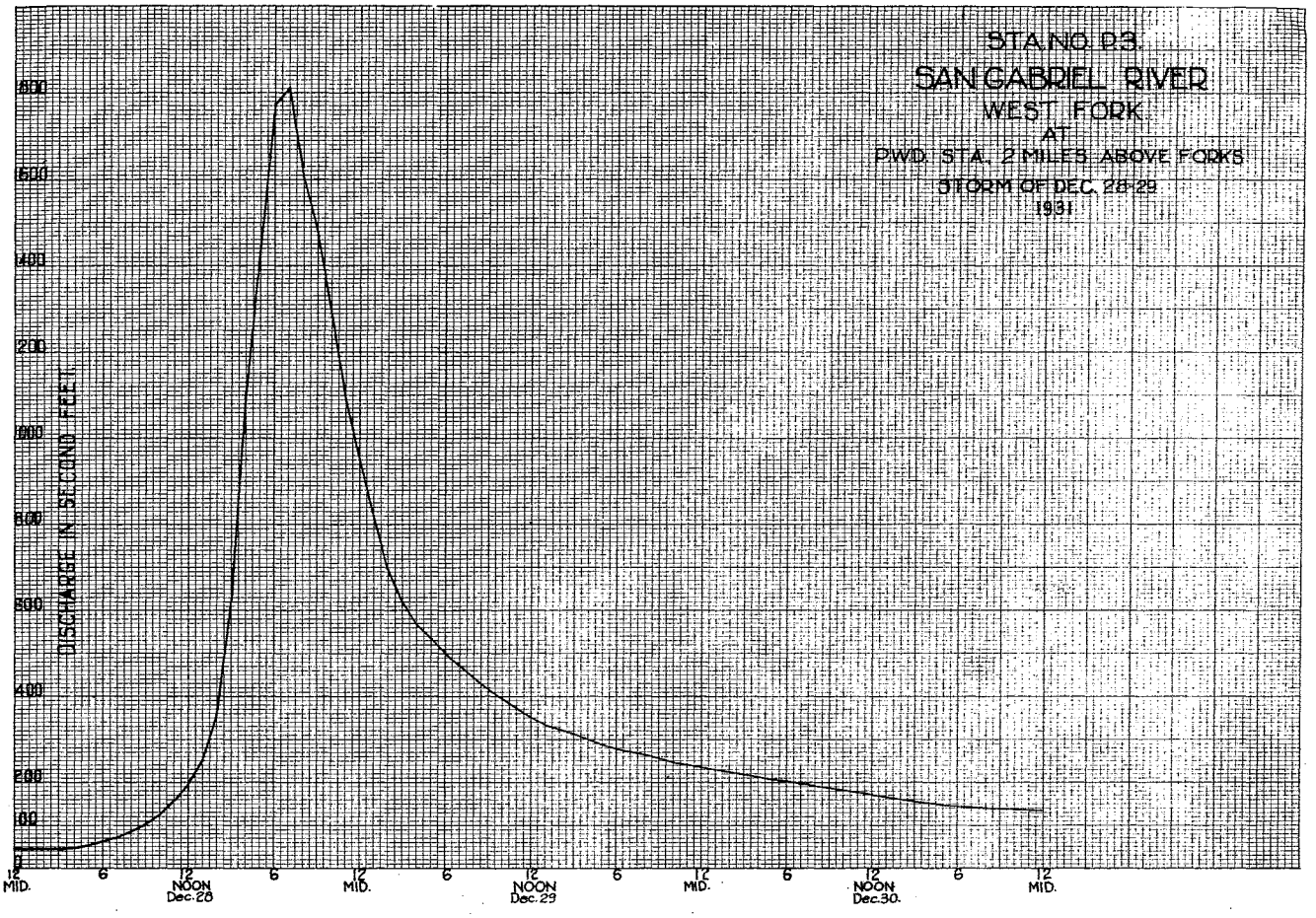
DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1	3.52	99.4	3.30	55.0	3.18	37.76	2.95	18.90	2.77	10.42	2.63	5.84
2	3.52	99.4	3.30	55.0	3.21	41.40	2.93	17.74	2.76	10.06	2.59	4.76
3	3.49	92.8	3.31	56.6	3.25	47.00	2.92	17.16	2.74	9.36	2.59	4.76
4	3.48	90.6	3.33	59.8	3.25	47.00	2.93	17.74	2.72	8.68	2.58	4.52
5	3.46	86.2	3.32	58.2	3.23	44.20	2.93	17.74	2.69	7.68	2.59	4.76
6	3.44	81.8	3.32	58.2	3.20	40.00	2.93	17.74	2.68	7.36	2.58	4.52
7	3.42	77.4	3.33	59.8	3.16	35.52	2.93	17.74	2.67	7.04	2.56	4.04
8	3.41	75.2	3.30	55.0	3.13	32.64	2.93	17.74	2.67	7.04	2.56	4.04
9	3.39	71.0	3.28	51.8	3.09	29.20	2.91	16.58	2.68	7.36	2.57	4.28
10	3.38	69.0	3.28	51.8	3.08	28.40	2.89	15.52	2.68	7.36	2.57	4.28
11	3.37	67.0	3.26	48.6	3.07	27.60	2.87	14.56	2.68	7.36	2.59	4.76
12	3.38	69.0	3.25	47.0	3.06	26.80	2.89	15.52	2.68	7.36	2.62	5.56
13	3.38	69.0	3.24	45.6	3.05	26.00	2.87	14.56	2.67	7.04	2.64	6.12
14	3.39	71.0	3.24	45.6	3.04	25.24	2.86	14.08	2.68	7.36	2.67	7.04
15	3.38	69.0	3.24	45.6	3.03	24.48	2.85	13.60	2.67	7.04	2.66	6.72
16	3.36	65.0	3.23	44.2	3.03	24.48	2.84	13.18	2.67	7.04	2.63	5.84
17	3.35	63.0	3.21	41.4	3.02	23.72	2.84	13.18	2.66	6.72	2.66	6.72
18	3.34	61.4	3.21	41.4	3.00	22.20	2.84	13.18	2.64	6.12	2.66	6.72
19	3.32	58.2	3.20	40.0	2.99	21.56	2.84	13.18	2.64	6.12	2.64	6.12
20	3.33	59.8	3.21	41.4	2.97	20.22	2.83	12.76	2.64	6.12	2.63	5.84
21	3.33	59.8	3.20	40.0	2.97	20.22	2.82	12.34	2.64	6.12	2.61	5.28
22	3.32	58.2	3.18	37.76	2.98	20.88	2.81	11.92	2.63	5.84	2.61	5.28
23	3.32	58.2	3.16	35.52	2.97	20.22	2.79	11.14	2.63	5.84	2.60	5.00
24	3.32	58.2	3.16	35.52	2.97	20.22	2.78	10.78	2.61	5.28	2.59	4.76
25	3.34	61.4	3.13	32.64	2.96	19.56	2.79	11.14	2.61	5.28	2.59	4.76
26	3.37	67.0	3.13	32.64	2.97	20.22	2.80	11.50	2.61	5.28	2.61	5.28
27	3.35	63.0	3.13	32.64	2.95	18.90	2.80	11.50	2.60	5.00	2.65	6.40
28	3.33	59.8	3.15	34.40	2.93	17.74	2.80	11.50	2.61	5.28	2.67	7.04
29	3.31	56.6	3.17	36.64	2.92	17.16	2.80	11.50	2.62	5.56	2.70	8.00
30	3.30	55.0	3.18	37.76	2.92	17.16	2.80	11.50	2.63	5.84	2.69	7.68
31	-	-	3.18	37.76	-	-	2.79	11.14	2.63	5.84	-	-
TOTAL		2092.40		1395.28		817.70		438.36		211.80		166.72
Mean Daily Discharge in Second-feet		69.75		45.01		27.26		14.14		6.83		5.56
Second-feet per square mile		.684		.441		.267		.139		.067		.055
Run-off, depth in inches												
Run-off in acre-feet		4149.23		2766.84		1621.50		869.27		420.00		330.61
Maximum Mean Daily Discharge in Second-feet		99.20		59.80		47.00		18.90		10.42		8.00
Minimum Mean Daily Discharge in Second-feet		55.00		32.64		17.16		10.78		5.00		4.04

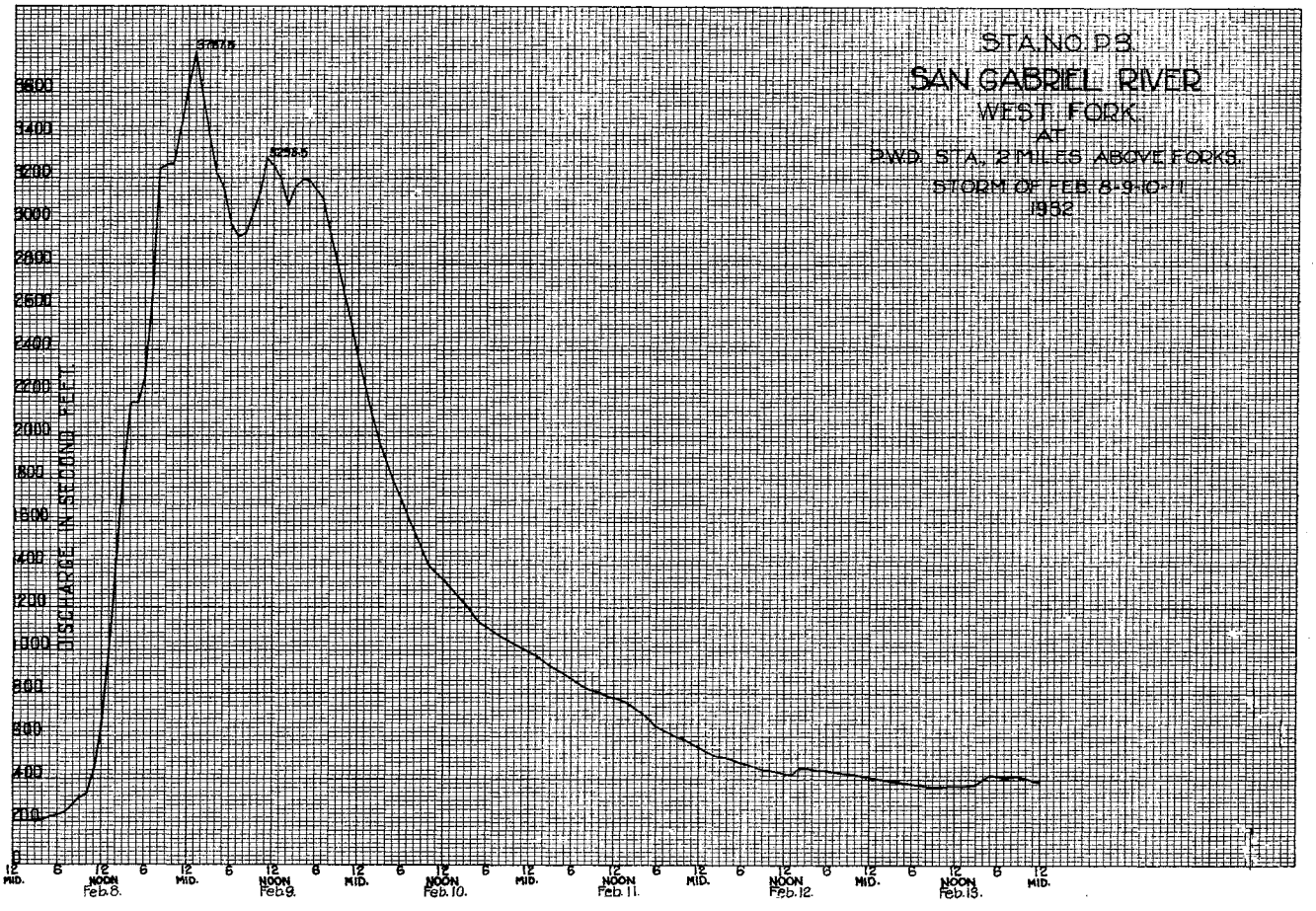
Maximum stage 8.73 feet at 1:00 AM on Feb. 9, 1932 Discharge 3787.5 Second-feet.
Minimum stage 2.37 feet at 6:00 PM on Oct. 17, 1931 Discharge .28 Second-feet.

Corrections used on Gage Hts.

	Fourth	Third	Second	First	Quarter	Checked	Date
WYK							
HAY							
Computed							
Checked							
Date							
HAY							
Dis. applied							
Dis. checked							
Date							
HAY							
G. H. applied							
G. H. checked							
Date							

PERIOD YEAR 55,355.73


STA. NO. P3.
SAN GABRIEL RIVER
WEST FORK
AT
PWD. STA. 2 MILES ABOVE FORKS
STORM OF DEC. 28-29
1931
DISCHARGE IN SECOND-FEET
800
600
400
200
0
12 MID.
6
12 NOON Dec. 28
6
12 MID.
6
12 NOON Dec. 29
6
12 MID.
6
12 NOON Dec. 30
6
12 MID.


STA. NO. P3.
SAN GABRIEL RIVER
WEST FORK
AT
PWD. STA. 2 MILES ABOVE FORKS.
STORM OF FEB. 8-9-10-11
1952
3787.5
3585.5
DISCHARGE IN SECOND-FEET
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
12 MID.
6
12 NOON Feb. 8.
6
12 MID.
6
12 NOON Feb. 9.
6
12 MID.
6
12 NOON Feb. 10.
6
12 MID.
6
12 NOON Feb. 11.
6
12 MID.
6
12 NOON Feb. 12.
6
12 MID.
6
12 NOON Feb. 13.
6
12 MID.

F-28 R

SAN GABRIEL RIVER AT EDISON INTAKE

Location
In SE 1/4 Sec. 31 T. 2 N. R. 9 W.
About 500' above submerged diversion dam and intake of Southern California Edison's conduit, about 10 miles North of Azusa, Los Angeles County, California. At same location as U.S.G.S. gage washed out by flood of February 1914.

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

Installed by
U.S.G.S. Water resources Branch in 1912.

Re-established
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 September 30, 1932 at Los Angeles County Flood Control District offices, Los Angeles, California.

Gage
Vertical staff gages inside and outside wall of concrete stilling well, on west bank of stream. An continuous water stage recorder installed in house on concrete stilling well on west bank of stream.

Discharge Measurements
High water measurements made from cable car near gage. Low water measurements are made by wading near gage.

Channel and Control
Channel-gravel and boulders.
Control-Changed during high flows.

Extremes of Discharge
1927-1928
Maximum-1832 c.f.s. February 4, 1928
Minimum-2.7 c.f.s. September 5, 1928
1928-1929
Maximum-990 c.f.s. March 10, 1929
Minimum-3.5 c.f.s. August 13, 1929
1929-1930
Maximum-799 c.f.s. May 3, 1930
Minimum-8.65 c.f.s. October 14, 1929.

F-28 R

Extremes of Discharge (Cont'd.)
1930-1931
Maximum-2905 c.f.s. April 26, 1931
Minimum-10.10 c.f.s. August 21, 1931.
1931-1932
Maximum-9110 c.f.s. Feb. 9, 1932
Minimum-9.6 c.f.s. Oct. 4, 1931.

Diversions
Placer minings dam and road construction diverts some of low flows.

Regulation
None

Accuracy
Good

Operation
Located and constructed by the Los Angeles County Flood Control District and operated by Los Angeles County Flood Control Distriot in conjunction with U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F-28

Discharge measurements of San Gabriel River

near Edison Intake, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage rating	Method	Coef.	Meas. occ.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.ft.	Ft. per sec.	Feet	Sec.ft.	Percent diff.			No.	Total	Hours	282
1	10/3	G. Patterson	47.0	31.0	.43	3.27	13.3		.6		12	0	1/2	897
2	4	G.Patterson &Lane	48.0	30.1	.38	3.26	11.5		.6		12	0	1/2	"
3	9	G. Patterson	21.5	13.0	1.19	3.36	15.5		.6		8	0	1/2	"
4	17	G.Patterson &Lane	22.0	13.5	1.07	3.33	14.4		.6		8	0	1/2	"
5	18	" "	50.0	56.4	1.55	4.09	87.6		.6		12	.02	1/2	"
6	19	" "	48.0	39.8	.94	3.70	37.6		.6		13	.01	5/12	"
7	24	G. Patterson	47.5	33.7	.59	3.46	20.0		.6		12	0	1/2	"
8	31	"	47.0	32.4	.56	3.38	18.2		.6		12	0	1/2	"
9	11/7	G.Patterson &Lane	45.5	31.3	.54	3.34	16.8		.6		12	0	1/2	"
10	13	G. Patterson	47.0	34.3	.64	3.48	22.0		.6		12	0	5/12	"
11	15	"	50.5	59.6	1.76	4.25	104.		.6		13	0	1/2	"
12	16	"	47.5	45.5	1.20	3.85	54.8		.6		13	0	5/12	"
13	21	"	47.0	36.7	.77	3.56	28.1		.6		12	0	1/4	"
14	27	G. H. Delaney	68.	57.8	1.6	4.11	92.7		.6		7	.22	3/4	18
15	27	"	76.	81.0	2.04	4.51	164.		.6		7	.13	1/2	"
16	27	"	77.	102.	2.60	4.60	266.		.6		8	.02	1/2	"
17	27	" & Butner	77.	80.5	2.17	4.57	175.		.6		7	.02	1/2	"
18	27	"	75.	72.	2.06	4.45	148.		.6		7	.01	1/2	"
19	28	"	49.	53.5	1.45	4.08	77.8		.6		11	.01	1/2	"
20	30	G. Patterson	48.0	43.7	1.03	3.77	45.2		.6		13	0	5/12	282 897
21	12/1	Geo. H. Delaney	47.5	40.3	.92	3.74	36.9		.6		12	0	1/4	18
22	2	G.Patterson&DeLaney	47.5	41.5	.95	3.70	39.4		.6		13	0	1/4	282 897
23	3	G. Patterson	47.5	40.3	.79	3.68	37.6		.6		13	0	1/2	"
24	5	G.Patterson&Delaney	47.5	40.5	.84	3.59	34.2		.6		13	0	1/4	"
25	8	Geo. H. Delaney	47.5	39.9	.85	3.53	34.1		.6		13	.01	1/2	16
26	9	"	54.0	60.8	2.22	4.40	135.		.6		11	0	1/2	"
27	9	G. Patterson	51.0	69.8	2.17	4.40	152.		.6		13	.01	1/2	282 897

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F-28

Discharge measurements of San Gabriel River

near Edison Intake, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage rating	Method	Coef.	Meas. occ.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.ft.	Ft. per sec.	Feet	Sec.ft.	Percent diff.			No.	Total	Hours	282
28	12/10	G. Patterson	49.0	53.1	1.56	4.05	82.8		.6		13	.01	1/2	897
29	12	"	48.5	48.8	1.34	3.94	65.3		.6		13	0	5/12	"
30	14	Patterson & Green	49.0	48.2	1.21	3.87	58.5		.6		13	.01	1/3	"
31	19	" "	48.5	44.2	1.10	3.82	48.7		.6		13	0	1/3	"
32	21	Delaney & Lane	49.	50.6	1.27	3.94	64.3		.6		13	0	1/3	18
33	26	Delaney & Green	50.	70.0	1.97	4.37	138.		.6		11	0	1/3	"
34	28	G. Patterson	95.0	234	4.17	5.63	975.		.6		10	.25	1/2	282 897
35	28	"	105.	331.	5.14	6.40	1705.		.6		11	.40	3/4	"
36	28	"	111	378	6.10	7.00	2304		.6		11	.40	5/6	"
37	28	Patterson & Lane	115	471	6.40	7.50	3010		.6		12	0	2/3	"
38	28	" "	118	501	7.18	7.58	3597		.6		12	.04	2/3	"
39	28	" "	107	374	6.10	6.82	2283		.6		11	.16	5/6	"
40	29	G. Patterson	101	292	4.37	6.15	1275		.6		10	.30		"
41	29	Patterson & Lane	83.0	183	5.11	5.59	935		.6		16	.02	2/3	"
42	29	" "	80.0	183	4.98	5.52	911		.6		17	.04	3/4	"
43	29	" "	80.0	181.	4.28	5.40	776		.6		9	.02	5/12	"
44	30	" "	75.0	132	3.10	4.90	409		.6		15	.02	3/4	"
	1932													
45	1/5	G. Patterson	49.5	60.8	2.33	4.25	141.6		.6		14	0	5/12	"
46	12	Patterson & Green	47.5	49.2	1.98	4.06	97.4		.6		14	0	1/3	"
47	15	" "	49.5	50.1	2.00	4.07	100		.6		14	0	1/3	"
48	23	" "	49.0	45.1	1.71	3.94	77.5		.6		13	0	5/12	"
49	30	" "	49.0	42.1	1.64	3.87	69.2		.6		13	0	1/3	"
50	2/1	Patterson & Lane	85.0	158	4.54	5.54	763.		.6		16	.08	3/4	"
51	2	" "	85.0	159	4.48	5.44	713		.6		16	.03	2/3	"
52	2	" "	83.0	149	4.32	5.28	644		.6		15	.01	3/4	"
53	3	Green & Lane	72.0	116.	3.51	4.86	409.3		.6		14	.01	3/4	"

F. C. Dist. Form 104 6M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F-28

Discharge measurements of San Gabriel River

near Edison Intake, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating Percent diff.	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1932													282
54	2/5	Patterson & Green	55.0	73.2	3.55	4.53	260.0		.6		12	0	1/3	897
55	8	Patterson & Keith	116	364	8.55	7.90	3102		.6		19	.20	11/12	"
56	8	Patterson & Banta	120	495	11.9	8.60	5855		.6		12	.30	3/4	"
57	9	Patterson & Lane	169	785	9.07	9.18	7101		.6		17	.07	5/6	"
58	9	Patterson &Delaney	177	855	10.6	9.34	9084		.6		16	.10	11/12	"
59	9	Patterson & Banta	177	824	10	9.21	8241		.6		16	.06	11/12	"
60	9	Patterson	155	720	9.32	8.22	6705		.6		16	.15	2/3	"
61	10	Patterson & Lane	165	689	9.46	7.79	5729		.6		16	.06	1	"
62	10	Patterson & Lane	165	623	7.85	7.45	4910		.6		16	.06	11/12	"
63	10	Patterson &William	174	470	7.92	7.02	3713		.6		15	.04	5/6	"
64	10	" &Delaney	122	290	7.10	6.51	2090		.6		12	.05	7/12	"
65	11	" "	115	232	7.47	6.97	1730		.6		11	.04	7/12	"
66	11	" & Williams	115	220	6.74	5.80	1478		.6		11	.01	1/2	"
67	12	" & Bollinger	110	198	5.62	5.16	1110		.6		11	.01	2/3	"
68	16	" & Williams	83.0	144	4.76	4.50	686		.6		9	0	5/12	"
69	16	" & Delaney	86.	140	4.59	4.46	634		.6		9	0	"	"
70	17	" & Green	86.	131	4.88	4.35	643		.6		8	0	"	"
71	18	G. Patterson	82.0	152	3.70	4.27	563		.6		9	0	"	"
72	20	Patterson & Lane	79.0	147	3.48	4.14	514		.6		9	0	1/3	"
73	22	" & Green	80.0	151	3.11	4.10	471		.6		10	0	1/2	"
74	23	" & Delaney	77.0	135	3.68	4.11	497		.6		9	0	1/3	"
75	26	G. Patterson	62.0	127	3.32	4.14	422		.6		12	0	7/12	"
76	3/2	J. V. Green	60.5	125	4.01	4.16	504		.6		12	0	2/3	"
77	4	Delaney & Green	60	112	3.86	4.02	434.1		.6		12	0	2/5	F.C. 18
78	11	" "	57.5	101	3.22	3.78	328.1		.6		12	0	5/12	282 965
79	18	" "	57	92.5	3.07	3.64	284		.6		11	0	1/3	F.C. 18
														"

F. C. Dist. Form 104 5M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 28

Discharge measurements of SAN GABRIEL RIVER

near EDISON INTAKE, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating Percent diff.	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1931													
80	3/25	Delaney & Green	54.0	89.6	2.95	3.58	265.		.6		11		1/3	F.C. 18
81	4/2	Green & Patterson	56.0	91.0	2.88	3.55	259.		.6		12		"	282 965
82	9	G. Patterson	54.0	75.0	3.05	3.40	229.		.6		12		5/12	282 895
83	14	Patterson & Delaney	54.0	77.0	2.70	3.36	208.		.6		10		1/3	282 965
84	16	Patterson &Thiel.	55.0	76.0	2.99	3.39	227.		.6		12		5/12	282 897
85	20	Green & Delaney	56.0	80.7	2.89	3.40	233.6		.6		12		1/4	282 965
86	21	"	55.5	78.1 [?]	2.68	3.36	209.6		.6		12		1/2	"
87	23	Patterson & Green	54.0	68.1	2.78	3.30	189.9		.6		12		5/12	282 897
88	25	G. Patterson	54.0	70.1	2.72	3.30	190.9		.6		12		5/12	"
89	28	J. V. Green	53.5	66.3	2.62	3.22	173.9		.6		12		1/2	282 965
90	30	Patterson & Green	53.0	63.6	2.62	3.20	166.3		.6		11		1/3	282 897
91	5/2	" "	53.0	63.0	2.67	3.22	168.1		.6		11		"	"
92	6	J. V. Green	53.0	62.1	2.45	3.18	152.3		.6		11		1/2	282 965
93	9	Patterson & Green	52.0	61.6	2.49	3.16	153.7		.6		17		5/12	282 897
94	14	G. Delaney	53.0	66.9 [?]	2.62	3.25	175.5		.6		11		1/3	F.C. 18
95	21	G. Patterson	53.0	63.1	2.60	3.20	163.8		.6		11		5/12	282 897
96	25	"	51.5	55.3	2.35	3.04	130.2		.6		12		"	"
97	28	"	52.5	56.9	2.43	3.08	138.0		.6		18		7/12	"
98	6/4	"	52.0	56.3	2.30	3.05	129.7		.6		13		1/2	"
99	11	Patterson & Green	51.0	49.8	2.30	2.92	114.5		.6		13		1/3	"
100	17	"	50.0	45.2	2.14	2.88	96.7		.6		13		5/12	"
101	25	"	50.0	41.5	1.86	2.80	77.4		.6		16		"	"
102	7/2	"	48.0	38.7	1.81	2.74	70.4		.6		16		1/2	"
103	8	"	37.5	33.5	1.68	2.64	56.2		.6		10		1/3	"
104	16	"	37.0	33.5	1.63	2.64	54.8		.6		10		"	"
105	23	"	36.0	31.8	1.51	2.57	47.9		.6		10		"	"
106	29	"	35.0	29.5	1.33	2.50	39.3		.6		10		"	"
107	8/5	J. L. Irwin	30.0	29.3	1.14	2.45	33.6		.6		10		1/3	897
108	12	"	30.0	30.5	1.18	2.48	36.0		.6		10		1/6	FC 2
109	19	G. Patterson	33.0	26.2	1.13	2.40	29.6		.6		10		1/3	282 897
110	26	"	32.0	24.4	1.03	2.35	25.2		.6		11		"	"
111	9/2	"	32.0	24.8	1.08	2.34	26.7		.6		11		"	"
112	8	"	31.5	23.6	.88	2.28	20.8		.6		11		"	"
113	16	"	31.0	23.1	.85	2.27	19.6		6		10		"	"
114	23	"	31.5	23.6	.88	2.28	20.8		.6		11		"	"
115	30	"	32.0	24.4	1.03	2.31	25.1		.6		11		"	"

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL RIVER,

Near Edison Intake for the Year Ending September 30, 1932

Drainage Area 202. Square Miles. [G. P. PATTERSON Observer.] Gage Read Continuous. Used rating table dated

Maximum stage 9.82 feet at 4:00 PM on 2-9-32. Discharge 9110 second-feet.
Minimum stage 3.18 feet at 8:00 PM on 10-4-31. Discharge 9.6 second-feet.
Adjustments used on gage heights

Day	Oct. Gage height	Oct. Discharge	Nov. Gage height	Nov. Discharge	Dec. Gage height	Dec. Discharge	Jan. Gage height	Jan. Discharge	Feb. Gage height	Feb. Discharge	Mar. Gage height	Mar. Discharge
1	3.34	15.0	3.37	16.5	3.65	35.5	4.66	207.8	H	1154.	5.29	543.5
2	3.32	14.0	3.38	17.0	3.67	37.3	4.68	216.4	H	765.0	5.25	517.5
3	3.27	12.1	3.38	17.0	3.66	36.4	4.54	170.0	5.12	433.0	5.20	485.0
4	3.22	10.6	3.36	16.0	3.64	34.6	4.45	152.5	4.93	335.0	5.14	446.0
5	3.26	11.8	3.35	15.5	3.64	34.6	4.39	141.2	4.78	261.0	5.08	410.0
6	3.30	13.0	3.35	15.5	3.62	32.8	4.33	130.4	4.71	229.5	5.05	395.0
7	3.31	13.5	3.36	16.0	3.63	33.7	4.29	123.3	4.93	335.0	5.01	375.0
8	3.33	14.5	3.41	18.6	H.	40.5	4.24	114.8	H	2537.	4.99	365.0
9	3.36	16.0	3.41	18.6	H	123.5	4.21	109.7	H	7534.	4.97	355.0
10	3.36	16.0	3.43	19.8	4.05	83.5	4.16	101.2	H	3749.	4.95	345.0
11	3.36	16.0	3.55	27.5	3.97	71.8	4.15	99.5	H	1721.	4.91	325.0
12	3.34	15.0	3.49	23.4	3.92	64.8	4.15	99.5	H	1126.	4.88	310.0
13	3.33	14.5	3.46	21.6	3.87	58.4	4.16	101.2	5.69	851.5	4.87	305.0
14	3.32	14.0	3.43	19.8	3.89	60.8	4.12	94.4	5.57	751.0	4.87	305.0
15	3.32	14.0	H	68.0	3.88	59.6	4.14	97.4	5.40	620.0	4.88	310.0
16	3.32	14.0	3.85	56.0	3.84	54.8	4.11	92.7	5.43	642.5	4.85	295.0
17	3.32	14.0	3.72	42.0	3.82	52.4	4.07	86.5	5.43	642.5	4.84	290.0
18	3.69	39.1	3.66	36.4	3.80	50.0	4.06	85.0	5.32	564.0	4.84	290.0
19	3.68	38.2	3.60	31.0	3.80	50.0	4.05	83.5	5.35	585.0	4.86	300.0
20	3.54	26.8	3.57	28.9	3.83	53.6	4.04	82.0	5.26	524.0	4.86	300.0
21	3.50	24.0	3.56	28.2	3.94	67.6	4.03	80.5	5.22	498.0	4.83	285.0
22	3.47	22.2	3.56	28.2	4.07	86.5	4.01	77.5	5.21	491.5	4.80	270.0
23	3.45	21.0	3.56	28.2	4.02	79.0	4.00	76.0	5.24	511.0	4.78	261.0
24	3.42	19.2	3.53	26.1	3.97	71.8	3.99	74.6	5.18	472.0	4.79	265.5
25	3.40	18.0	3.52	25.4	4.21	109.7	3.98	73.2	5.13	439.5	4.79	265.5
26	3.40	18.0	3.51	24.7	4.37	137.6	3.98	73.2	5.12	433.0	4.78	261.0
27	3.40	18.0	H	111.2	4.19	106.3	3.99	74.6	5.19	478.5	4.77	256.5
28	3.40	18.0	3.99	74.6	H	1232.	3.97	71.8	5.27	530.5	4.78	261.0
29	3.38	17.0	3.86	57.2	H	989.3	3.96	70.4	5.30	550.0	4.79	265.5
30	3.39	17.5	3.78	48.0	H	414.3	3.95	69.0	–	–	4.79	265.5
31	3.38	17.0	–	–	4.81	275.	H	170.8	–	–	4.78	261.0
TOTAL		552.0		976.9		4637.7		3300.6		29764.0		10183.5
Mean Daily Discharge in Second-feet		17.81		32.56		149.60		106.47		1026.34		328.50
Second-feet per square mile		.088		.161		.741		.527		5.081		1.626
Run-off, depth in inches												
Run-off in acre-feet		1035.39		1937.68		9198.88		6546.74		59036.89		20198.97
Maximum Mean Daily Discharge in Second-feet		39.1		111.2		1232.0		216.4		7534.0		543.5
Minimum Mean Daily Discharge in Second-feet		10.6		15.5		32.8		69.0		229.5		256.5

Day	Apr. Gage height	Apr. Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	Aug. Gage height	Aug. Discharge	Sept. Gage height	Sept. Discharge	Period Year
1	4.76	252.	4.50	162.0	4.29	123.3	3.95	69.0	3.69	39.1	3.57	28.9	
2	4.75	247.5	4.53	168.0	4.30	125.0	3.94	67.6	3.68	38.2	3.55	27.5	
3	4.75	247.5	4.53	168.0	4.37	137.6	3.93	66.2	3.66	36.6	3.53	26.1	
4	4.75	247.5	4.51	164.0	4.35	134.0	3.90	62.0	3.66	36.6	3.52	25.4	
5	4.73	238.5	4.48	158.2	4.33	130.4	3.89	60.8	3.65	35.5	3.50	24.0	
6	4.71	229.5	4.46	154.4	4.31	126.8	3.88	59.6	3.64	34.6	3.48	22.8	
7	4.71	229.5	4.47	156.3	4.26	118.2	3.86	57.2	3.64	34.6	3.46	21.6	
8	4.71	229.5	4.44	150.6	4.24	114.8	3.86	57.2	3.63	33.7	3.45	21.0	
9	4.69	220.7	4.44	150.6	4.23	113.1	3.86	57.2	3.63	33.7	3.45	21.0	
10	4.69	220.7	4.45	152.5	4.23	113.1	3.86	57.2	3.64	34.6	3.46	21.6	
11	4.69	220.7	4.49	160.1	4.23	113.1	3.86	57.2	3.65	35.5	3.47	22.2	
12	4.68	216.4	4.50	162.0	4.22	111.4	3.87	58.4	3.65	35.5	3.45	21.0	
13	4.68	216.4	4.52	166.0	4.20	108.0	3.86	57.2	3.64	34.6	3.44	20.4	
14	4.68	216.4	4.54	170.0	4.18	104.6	3.85	56.0	3.63	33.7	3.44	20.4	
15	4.68	216.4	4.55	172.0	4.17	102.9	3.83	53.6	3.62	32.8	3.43	19.8	
16	4.69	220.7	4.54	170.0	4.16	101.2	3.82	52.4	3.61	31.9	3.43	19.8	
17	4.68	216.4	4.53	168.0	4.15	99.5	3.81	51.2	3.60	31.0	3.44	20.4	
18	4.67	212.1	4.52	166.0	4.13	96.1	3.81	51.2	3.59	30.3	3.45	21.0	
19	4.66	207.8	4.49	160.1	4.10	91.0	3.82	52.4	3.58	29.6	3.46	21.6	
20	4.71	229.5	4.48	158.2	4.07	86.5	3.80	50.0	3.57	28.9	3.48	22.8	
21	4.68	216.4	4.48	158.2	4.05	83.5	3.79	49.0	3.55	27.5	3.47	22.2	
22	4.65	203.5	4.44	150.6	4.03	80.5	3.78	48.0	3.54	26.8	3.46	21.6	
23	4.61	186.3	4.41	144.9	4.03	80.5	3.77	47.0	3.53	26.1	3.45	21.0	
24	4.59	180.0	4.38	139.4	4.01	77.5	3.76	46.0	3.52	25.4	3.45	21.0	
25	4.61	186.3	4.36	135.8	4.00	76.0	3.75	45.0	3.50	24.0	3.45	21.0	
26	4.59	180.0	4.36	135.8	4.00	76.0	3.75	45.0	3.50	24.0	3.47	22.2	
27	4.57	176.0	4.36	135.8	3.99	74.6	3.74	44.0	3.53	26.1	3.47	22.2	
28	4.55	172.0	4.36	135.8	3.98	73.2	3.74	44.0	3.56	28.2	3.48	22.8	
29	4.52	166.0	4.35	134.0	3.96	70.4	3.72	42.0	3.58	29.6	3.49	23.4	
30	4.51	164.0	4.32	128.6	3.96	70.4	3.72	42.0	3.59	30.3	3.51	24.7	
31	–	–	4.31	126.8	–	–	3.71	41.0	3.59	30.3	–		
TOTAL		6366.2		4762.7		3013.2		1646.6		979.3		671.4	
Mean Daily Discharge in Second-feet		212.21		153.64		100.44		53.12		31.59		22.38	
Second-feet per square mile		1.051		.761		.497		.263		.156		.111	
Run-off, depth in inches													
Run-off in acre-feet		12627.36		9446.82		5976.68		3266.03		1942.44		1331.72	132,545.60
Maximum Mean Daily Discharge in Second-feet		252.0		168.0		137.6		69.0		39.1		28.9	
Minimum Mean Daily Discharge in Second-feet		64.0		126.8		70.4		41.0		24.0		19.8	

GP WTK HAY 28 -32 12

Quarter: First, Second, Third, Fourth — Computed, Checked, Date; Disch. applied, Disch. checked, Date; G. H. copied, G. H. checked, Date

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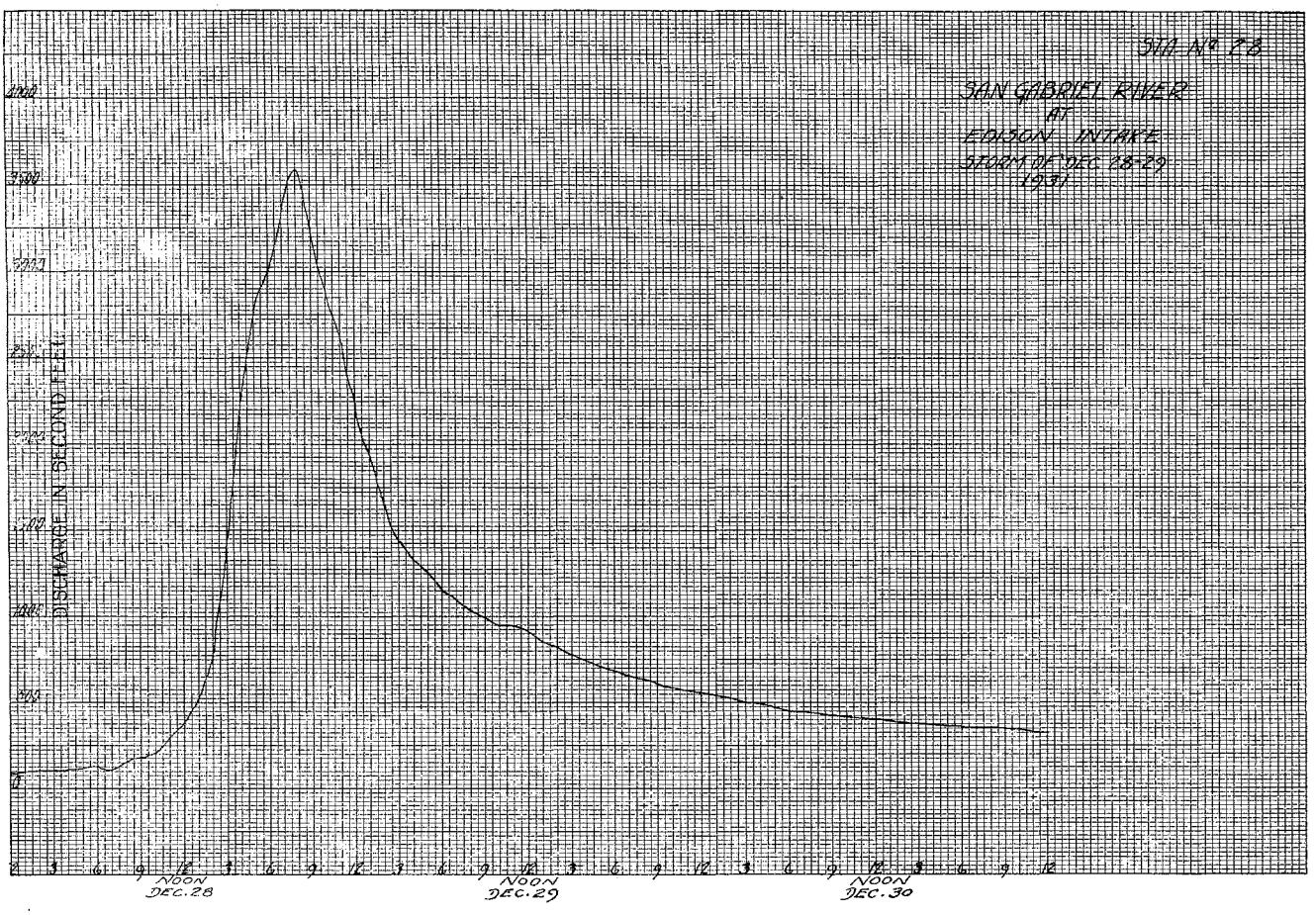
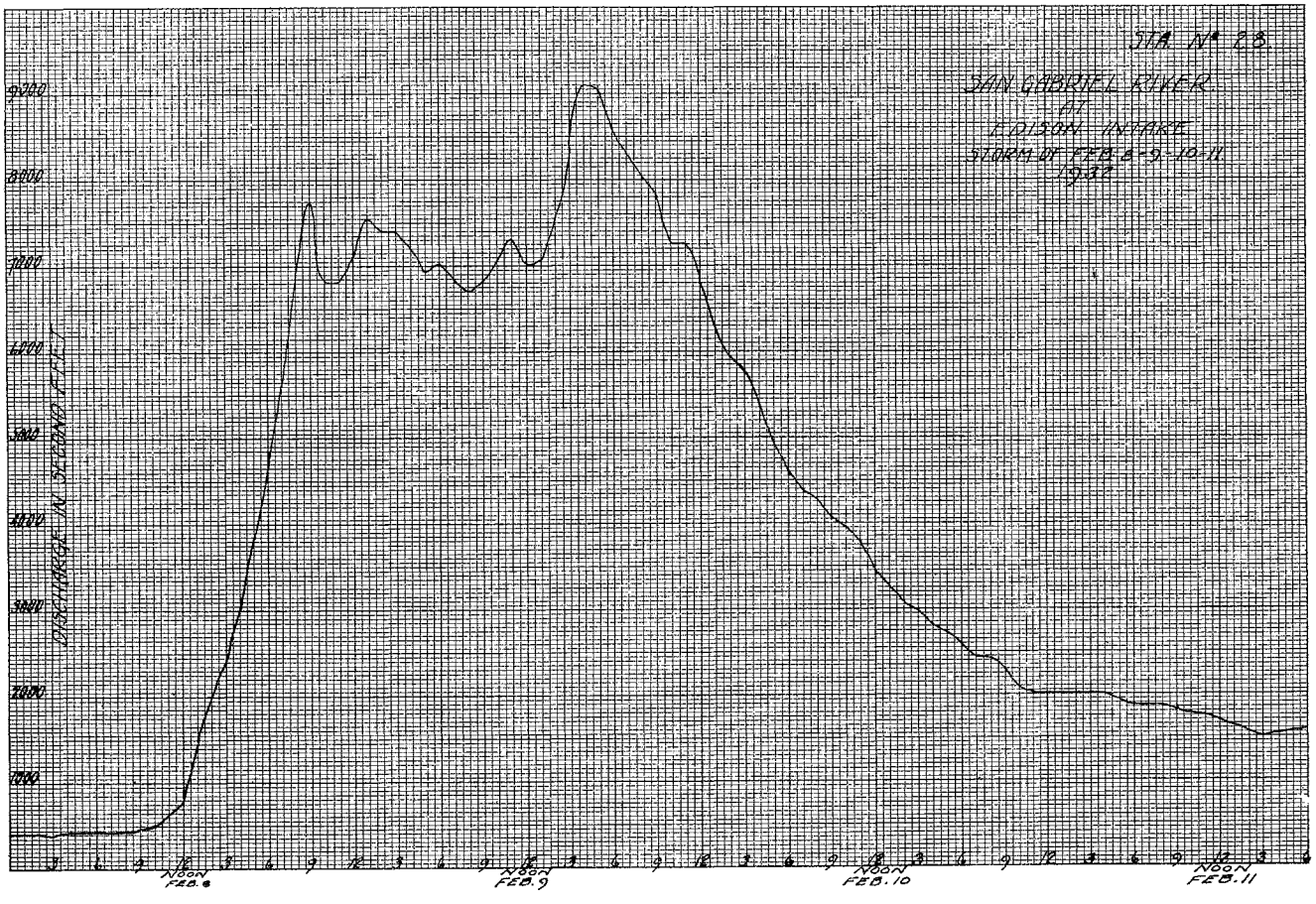

SHT. N° 28.
SAN GABRIEL RIVER
AT
EDISON INTAKE
STORM OF DEC. 28-29
1931
DISCHARGE IN SECOND FEET
NOON DEC. 28
NOON DEC. 29
NOON DEC. 30


SHT. N° 29.
SAN GABRIEL RIVER
AT
EDISON INTAKE
STORM OF FEB. 8-9-10-11
1932
DISCHARGE IN SECOND FEET
NOON FEB. 8
NOON FEB. 9
NOON FEB. 10
NOON FEB. 11

F-100 R

SAN GABRIEL SPREADING DITCH AT MOUTH OT SAN GABRIEL CANYON

Location
On upstream side of Canyon Line Railroad Bridge. Near mouth of San Gabriel Canyon. 2 miles North of Azusa, Los Angeles County, California.

Installed by
Los Angeles County Flood Control District
February 13, 1929.

Records Available
February 8, 1929 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

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

Discharge Meaasurements
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
1929-1930
Maximum-68.1 c.f.s. April 7, 1930
Minimum-Dry at various times of year
1930-1931
Maximum-78.1 c.f.s. May 5, 1931
Minimum-Dry at various times during year
1931-1932
Maximum-63. c.f.s. March 13, 1932
Minimum-Dry part of year

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

Regulation
By diversion gates

Accuracy
Good

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

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 100

Discharge measurements of San Gabriel Spreading Ditch

~~At~~ ~~Near~~ Mouth of Canyon, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs.	C. ft. change Total	Time Hours	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.				No.			
1	12-4	Lindsay-Cole	7.7	4.33	.95	.99	4.12		.6		5		1/18	883
2	12-11	Lindsay-Ebert	10.9	13.93	2.68	1.91	37.29		.6		11		1/3	883
3	12-18	Van de Goot-Lind.	9.3	8.25	1.89	1.42	15.56		.6		9		5/18	883
4	1932 1-6	Lindsay-Cole	11.5	16.71	3.78	2.35	76.69		.6		12		++	883
5	1-23	Lindsay	11.3	15.44	2.86	2.03	48.53		.6		11		++	883
6	1-29	Lindsay	10.4	11.84	2.58	1.71	30.93		.6		11			883
7	2-24	Lee-Martin	9.5	19.73	2.87	2.23	56.60		.6		5		++	883
8	3-4	Lindsay	11.7	18.74	3.06	2.29	57.40		.6		10		5/18	883
9	3-11	Lindsay	11.6	16.88	3.75	2.36	76.10		.6		12		++	883
10	3-18	Lindsay	6.3	6.38	1.10	2.35	75.59		.6		5			883
11	3-29	Lindsay	11.3	15.27	3.42	2.31	66.66		.6		12		++	883
12	3-31	Lindsay	10.0	13.64	2.95	2.03	50.62		.6		10		++	883
13	4-8	Lindsay	10.8	15.23	3.10	2.15	62.37		.6		11		++	883
14	4-15	Lindsay	10.2	13.47	2.73	2.09	52.13		.6		10		++	883
15	4-29	Lindsay	10.5	14.29	2.96	2.21	57.72		.6		10		++	883
16	5-6	Lindsay	11.3	16.90	2.89	2.23	63.53		.6		11		++	883
17	5-13	Lindsay	11.4	17.48	3.21	2.29	74.78		.6		11		++	883
18	5-20	Lindsay	11.2	16.66	3.11	2.20	69.37		.6		11		1/3	883
19	5-27	Lindsay	10.8	13.18	2.60	1.90	48.15		.6		11		++	883
20	6-3	Lindsay	10.8	13.07	2.48	1.87	43.91		.6		11		++	883
21	6-10	Lindsay	9.8	8.40	1.47	1.39	21.20		.6		10		++	883
22	6-17	Lindsay	0.6	.08	.63	.56	5.39		.6		5			883

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL SPREADING DITCH

At ~~Near~~ MOUTH OF CANYON for the Year Ending September 30, 19 32

Drainage Area ____ Square Miles. [Lindsay Observer.] Gage Read Continuous Used rating table dated ____

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 100

Maximum stage 2.37 feet at 3-13-32 Discharge 62.96 second-feet.
Minimum stage 0.0 feet at 10-1-31 to 2-3-32 Discharge 0.0 second-feet.
6-19-32 to 10-1-32

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1						DRY	2.22	53.40	2.14	48.72	2.29	57.68	1	1.98	39.92	2.00	41.00	1.75	28.80							1
2							2.30	58.30	2.13	48.14	2.31	58.96	2	2.01	41.54	2.00	41.00	1.75	28.80							2
3							2.31	58.96	2.20	52.20	2.29	57.68	3	2.03	42.62	2.13	48.16	1.75	28.80							3
4					1.04	5.10	2.32	59.62	2.20	52.20	2.29	57.68	4	2.03	42.62	2.16	49.88	1.75	28.80							4
5					1.10	6.40	2.34	60.94	2.17	50.46	2.29	57.68	5	2.07	44.78	2.16	49.88	1.75	28.80							5
6					1.05	3.30	2.34	60.94	2.17	50.46	2.32	59.62	6	2.09	45.86	2.14	48.72	1.57	21.30							6
7					1.08	5.96	2.33	60.28	2.17	50.46	2.35	61.60	7	2.09	45.86	2.16	49.88	1.57	21.30							7
8					1.11	6.62	2.30	58.30	2.04	43.16	2.36	62.26	8	2.09	45.86	2.18	51.04	1.57	21.30							8
9					1.72	27.48	2.27	56.54	1.37	13.88	2.37	62.92	9	2.07	44.78	2.20	52.20	1.57	21.30							9
10					1.94	37.80	2.24	54.60	.91	2.76	2.38	63.58	10	2.04	43.16	2.22	53.40	1.33	12.56							10
11					1.94	37.80	2.19	51.62	.90	2.60	2.39	64.24	11	2.03	42.62	2.24	54.60	1.18	8.28							11
12					1.85	33.40	2.15	49.30	1.66	24.92	2.38	63.58	12	2.01	41.54	2.26	55.82		.05							12
13					1.80	31.10	2.11	46.98	2.05	43.70	2.37	62.96	13	1.95	38.30	2.25	55.20		.05							13
14		DRY		DRY	1.77	29.72	2.11	46.98	2.06	44.24	2.36	62.26	14	1.86	33.88	2.27	56.44		.05		DRY		DRY		DRY	14
15					1.75	28.80	2.08	45.32	2.07	44.78	2.36	62.26	15	1.88	34.84	2.27	56.44		.05							15
16					1.65	24.50	2.14	48.72	2.08	45.32	2.36	62.26	16	1.89	35.32	2.27	56.44		.05							16
17					1.50	18.50	2.12	47.56	2.09	45.86	2.36	62.26	17	1.90	35.80	2.26	55.82		.05							17
18					1.42	15.62	2.09	45.86	2.10	46.40	2.35	61.60	18	1.91	36.30	2.25	55.20		.03							18
19					1.44	16.34	2.10	46.40	2.11	46.98	2.33	60.28	19	1.92	36.80	2.20	52.20		0							19
20					1.46	17.06	2.08	45.32	2.15	49.30	2.33	60.28	20	1.93	37.30	2.14	49.05									20
21					1.60	22.50	2.07	44.78	2.27	52.80	2.33	60.28	21	1.94	37.80	2.09	45.92									21
22					1.76	28.80	2.06	44.24	2.25	55.20	2.25	55.20	22	1.94	37.80	2.03	42.79									22
23					1.87	34.36	2.02	42.08	2.21	52.80	2.20	52.20	23	1.95	38.30	1.97	39.56	DRY								23
24					1.83	32.48	2.01	41.54	2.25	55.20	2.20	52.20	24	1.95	38.30	1.92	38.53									24
25					1.84	32.94	1.93	37.30	2.32	59.62	2.20	52.20	25	1.96	38.84	1.85	33.40									25
26					1.97	39.38	1.85	33.40	2.32	59.62	2.20	52.20	26	2.02	42.08	1.84	32.94									26
27					2.06	44.24	1.80	31.10	2.30	58.30	2.20	52.20	27	2.01	41.54	1.84	32.94									27
28					1.65	24.50	1.72	27.48	2.27	56.44	2.19	51.62	28	1.98	39.92	1.86	33.88									28
29					2.10	46.40	1.71	27.04	2.27	56.44	2.19	51.62	29	1.99	40.46	1.88	33.88									29
30					2.25	55.20	1.70	26.60	-	-	2.13	48.14	30	2.00	41.00	1.81	31.56									30
31					2.10	46.40	1.82	32.06	-	-	2.00	41.00	31	-	-	1.78	30.18									31
TOTAL,		0		0		754.10		1443.56		1312.96		1790.50			1205.74		1426.05		250.37							
Mean Daily Discharge in Second-feet		0		0		24.33		46.56		45.27		57.76			40.19		46.00		13.91							
Second-feet per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet		0		0		1496.95		2863.30		2603.60		3550.56			2391.59		2828.57		496.61							16,231.18
Maximum Mean Daily Discharge in Second-feet		0		0		55.20		60.94		59.62		64.24			45.86		56.44		28.80							
Minimum Mean Daily Discharge in Second-feet		0		0		0.0		26.60		2.60		41.00			33.88		30.18		0							

PERIOD YEAR

F-190 R

SAN GABRIEL RIVER AT FOOTHILL BOULEVARD BRIDGE

Location
On the highway bridge where Foothill Boulevard crosses the San Gabriel River. About 2 miles west of Azusa, Los Angeles County, California.

Drainage Area

Installed by
The Los Angeles County Flood Control District April 25, 1932.

Records Available
Stream measurements starting February 22, 1932. Recorder records April 25, 1932 to September 30, 1932 at office of the Los Angeles County Flood Control District, Los Angeles, Calif.

Gage
An automatic water stage recorder installed in house on top of corrugated iron pipe stilling well fastened to a bridge pier on downstream side near west end of bridge. Staff gage on pier by stilling well.

Discharge Measurements
High flows measured from cable 350 feet below station.
Low flows measured by wading near station.

Channel and Control
Main channel, sand and boulders with several high water channels. The west bank lined with concrete.
No control.

Extremes of Discharge
1931-1932
Maximum - Not determined
Minimum - Dry

Diversions
Power & Irrigation diversions above station at Edison Intake and mouth of San Gabriel Canyon.

Regulation
No regulation.

Accuracy
Fair.

Operation
Located and installed by the Los Angeles County Flood Control District and operated by the Los Angeles County Flood Control District in conjunction with U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 190

Discharge measurements of San Gabriel River

at Foothill Blvd. Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1932													
1	2-22	Lee-Martin	120.	120.30	3.50		422.73		.6		24		1	29
2	2-23	" "	125.	115.95	3.83		444.53		.6		23		½	29
3	2-24	" "	125.	119.	3.60		428.59		.6		21		½	29
4	2-25	" "	120.	125.75	3.45		433.88		.6		20		3/4	29
5	2-26	" "	108.	115.40	3.55		409.81		.6		22		2/3	29
6	3-1	" "	2 Streams				428.85		.6		23		5/6	29
7	3-2	" "	"	"			390.29		.6		22		½	29
8	3-3	" "	112.	117.0	3.44		402.18		.6		23		½	29
9	3-4	" "	2 Streams				351.0		.6		23		2/3	29
10	3-8	" "	60.	100.40	2.72		272.01		.6		13		½	29
11	3-9	" "	60.	97.25	2.55		248.28		.6		13		2/3	29
12	3-10	" "	60.	97.25	2.59	5.0	251.50		.6		12		3/4	29
13	3-11	" "	59.	88.90	2.63	4.96	234.57		.6		12		½	29
14	3-15	" "	41.	78.90	2.61	4.90	205.23		.6		11		¼	29
15	3-18	" "	55.	79.	2.26	4.87	178.42		.6		11		½	29
16	3-25	" "	57.	74.5	2.17	4.8	161.30		.6		12		½	29
17	4-5	" "	54.	58.75	1.69	4.59	99.78		.6		12		½	29
18	4-12	" "	52.	51.3	1.17	4.25	59.83		.6		11		½	29
19	4-25	" "	28.	26.25	.98		25.68		.6		10		1/3	29
20	4-26	" "	31.	30.45	1.07	5.55	32.73		.6		8		1/3	29
21	5-2	Lindsay-Harting	3 Streams				7.88		.6		14		1/3	282 883
22	5-6	Lindsay	8.3	2.97	.87	5.08	2.58		.6		13		¼	282 883
23	5-9	Lindsay-Harting	5.0	1.58	.53	4.67	.84		.6		6		1/6	282 883
24	5-13	Lindsay	5.0	1.65	.52	4.87	.86		.6		6		1/6	282 883
25	5-16	Lindsay	3 Streams				7.10		.6		12		5/12	282 883
26	5-20	Lindsay	4.0	1.28	.33		.42		.6		4		1/12	282 883

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 190

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL RIVER

At FOOTHILL BOULEVARD for the Year Ending September 30, 1932.

Drainage Area ______ Square Miles. [LEE - LINDSAY Observer.] Gage Read CONTINUOUS Used rating table dated ______

Day	October	November	December	January	Feb. Gage height	Feb. Discharge	Mar. Gage height	Mar. Discharge	Apr. Gage height	Apr. Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July	August	September
1					Mean Est	1000.00	#	428.85		117.46		11.09		.15			
2					*	700.00	#	390.29		113.06	#	7.88		.12			
3					#	318.42	#	402.18		108.66	#	2.78	#	.10			
4					#	198.55	#	351.00		104.26		2.72		.10			
5					#	135.41		331.00	#	99.79		2.65		.10			
6					#	115.40		311.00	#	97.56	#	2.58		.10			
7					Est. Mean	115.00		291.00	#	71.32		2.00		.10			
8					*	2300.0	#	272.01	#	61.57		1.42		.10			
9					*	6050.0	#	248.28		61.17	#	.84		.10			
10						3958.0	#	251.50		60.72		.84		.10			
11					#	1897.0	#	234.57		60.27		.85	#	.10			
12						1686.0		227.00	#	59.83		.85		.08			
13						1505.0		219.50	#	53.35	#	.86		.08			
14	DRY	DRY				1324.0		212.00		51.39		2.96		.06			
15						1143.0	#	205.23		49.43		5.04		.06			
16						962.00	#	210.43		47.47	#	7.10		.05			
17						781.00	#	198.69		45.51		5.43		.04			
18					#	599.31	#	178.42		43.55		3.76		.03	DRY	DRY	DRY
19			HAD FLOW THIS MONTH	HAD FLOW THIS MONTH		555.30		177.22	#	41.58		2.09		.02			
20						511.30		176.00		38.93	#	.42		Dry			
21						467.30		174.80		36.28		.40					
22					#	422.73		173.60		33.63		.38					
23					#	444.53	#	172.45		30.98		.36					
24					#	428.59	#	144.57		28.33		.34		DRY			
25					#	433.88	#	161.30	#	25.68		.32					
26					#	409.81		159.20	#	32.73		.31					
27						414.00		157.10	#	32.05	#	.30					
28						419.00		155.00	#	20.36		.27					
29						424.00		152.90		17.24		.24					
30					-	-	#	150.68		14.12		.21					
31					-	-	#	121.86	-	-		.18	-	-			
TOTAL						29,688.53		7039.63		1658.30		67.38		1.69			
Mean Daily Discharge in Second-feet						1,023.00		227.00		55.30		2.17		.06			
Second-feet per square mile																	
Run-off, depth in inches																	
Run-off in acre-feet						58,827.20		13,963		3290.0		133.70		3.37	0	0	0
Maximum Mean Daily Discharge in Second-feet																	
Minimum Mean Daily Discharge in Second-feet																	

Period Year: 76,217.27 (Incomplete)

Partly Records Incomplete. RHL

Maximum stage ______ feet at ______ Discharge ______ second-feet.
Minimum stage ______ feet at ______ Discharge ______ second-feet.

Recorder was not installed soon enough to give a record.
Report computed by interpolation between measurements.
Measured Flow

*# taken from Discharge notes

F-191 R

SAN GABRIEL RIVER AT EL MONTE BOULEVARD BRIDGE

Location
On the highway bridge where El Monte Boulevard crosses San Gabriel River, 2 miles east of El Monte, Los Angeles, County, California.

Drainage Area

Installed by
The Los Angeles County Flood Control District
February 22, 1932.

Records Available
Stream measurements only from February 22, 1932 to March 31, 1932. Recorder records from April 1, 1932 to September 30, 1932 at the offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
An continuous water stage recorder installed in shelter house on corrugated iron pipe stilling well fastened to bent on downstream side near west end of bridge. Staff gage on bridge bent at stilling well.

Discharge Measurements
High flows measured from Rock Company's Railroad Bridge.
Low flows measured by wading near gage.

Channel and Control
Channel sand and gravel
No control

Extremes of Discharge
1931-32
Not determined

Regulation
None

Diversions
Water diverted at Edison Intake and near mouth of San Gabriel Canyon for power and irrigation.

Accuracy
Fair

Operation
Station located and constructed by the Los Angeles County Flood Control District and operated by the Los Angeles County Flood Control District in conjunction with U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 191

Discharge measurements of San Gabriel River

at ~~Gage~~ El Monte Blvd. Bridge, during the year ending September 30, 1932

No.	Date 1933	Made by	Width Feet	Area of section Sq.-ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.-ft.	Rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
1	2-11	Brewster-J.G.L.	60.	45.75	4.96	1.77	222.18	.6			8		1	666
2	2-22	Lee-Martin	45.	12.31	1.31		16.66	.6			11		1/2	271
3	2-23	" "	38.	9.95	1.48		14.66	.6			11		1/2	271
4	2-24	" "	43.	10.80	1.41		15.29	.6			13		1/2	271
5	2-25	" "	42.	10.50	1.25		13.07	.6			11		1/3	271
6	2-26	" "	40.	10.80	1.53	3.00	16.51	.6			11		1/3	271
7	3-1	" "	40.	16.00	1.85	2.95	29.72	.6			11		1	271
8	3-2	" "	34.	14.40	1.86	2.94	26.82	.6			9		1	271
9	3-3	" "	38.	14.	1.74	2.96	24.36	.6			10		1/3	271
10	3-4	" "	39.	10.10	1.30	2.87	12.65	.6			10		1/3	271
11	3-8	" "	28.	6.50	.88	2.75	5.73	.6			10		1/3	271
12	3-10	" "	5.	1.40	1.20	2.66	1.72	.6			5		1/3	271
13	3-11	" "	8.	2.35	1.40	2.73	3.29	.6			8		1	271
14	3-15	" "	42.	12.20	1.24	2.95	15.21	.6			11		1/3	271
15	3-18	" "	28.	8.95	1.40	2.91	12.56	.6			9		1	271
16	3-25	" "	16.5	5.20	1.36	2.91	7.12	.6			10		1	271
17	4-1	Brewster	14.0	4.13	1.45	2.92	5.97	.6			7		1/3	666

F.C. Dist. Form 105 -1000-9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL RIVER

At ~~Gage~~ EL MONTE BOULEVARD for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 191

Drainage Area ..... Square Miles. [LEE Observer.] Gage Read Continuous Used rating table dated no table

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge	DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	DAY
1											Meas	29.72	1	Meas	5.97										1
2											"	26.82	2	I	4.47										2
3											"	24.36	3	I	2.98										3
4											"	12.65	4	I	1.49										4
5											I	10.92	5	Meas	Dry										5
6											"	9.19	6												6
7											"	7.46	7												7
8											Meas	5.73	8												8
9											I	3.72	9												9
10											Meas	1.72	10												10
11									No Previous	Record	"	3.29	11												11
12											I	6.27	12												12
13											I	9.25	13												13
14											I	12.23	14			DRY		DRY		DRY		DRY		DRY	14
15											Meas	15.21	15												15
16											I	14.32	16												16
17											I	13.44	17												17
18											Meas	12.56	18												18
19											I	11.78	19												19
20											I	11.00	20												20
21											I	10.22	21												21
22									Meas	16.65	I	9.44	22												22
23									"	14.66	I	8.66	23												23
24									"	15.29	I	7.89	24												24
25									"	13.07	Meas.	7.12	25												25
26									"	16.51	I	6.95	26												26
27									I	19.81	I	6.78	27												27
28									I	23.11	I	6.61	28												28
29									I	26.41	I	6.45	29												29
30											I	6.29	30												30
31											I	6.13	31												31
TOTAL									(inc)145.52		324.18			14.91		0		0		0		0		0		
Mean Daily Discharge in Second-feet											10.46			.50												
Second-feet per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet									(inc)288.57		642.85			29.57		0		0		0		0		0		960.99(inc)
Maximum Mean Daily Discharge in Second-feet											29.72			5.97												
Minimum Mean Daily Discharge in Second-feet											1.72			0												

Not determined on various times
Maximum stage ..... 0 ..... feet at .....
Minimum stage ..... 0 ..... feet at .....
Recorder started 3-31-32
I - interpolated between Meas.

Second-feet. Discharge — 0 — Second-feet.

Compared ..... Checked ..... Date .....
Ditch applied ..... Ditch checked ..... Date .....
G. H. copied ..... G. H. checked ..... Date .....

PERIOD YEAR

F-63 R

SAN GABRIEL RIVER AT WHITTIER BOULEVARD BRIDGE

Location
On highway bridge crossing the San Gabriel River at Whittier Boulevard, just west of Whittier, Los Angeles County, California.

Drainage Area
410 square miles.

Installed by
Originally established by the State of California, Division of Water Rights in 1923-1924. Re-established by Los Angeles County Flood Control District, July 1928.

Records Available
State of California, Division of Water Rights Bulletins for records previous to July 1928. July 1928 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
A continuous water stage recorder installed in wooden recorder house on top of stilling well attached to downstream end of bridge pier. A vertical staff gage in stilling well and one attached to outside of stilling well.

Discharge Measurements
High water measurements made from cable car 500' below bridge.
Low water measurements made by wading at station.

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

Extremes of Discharge
1928-1929
Maximum-297 c.f.s. March 10, 1929
Minimum-Dry at various times of year.
1929-1930
Maximum-5755 c.f.s. January 11, 1930
Minimum-Dry at various times during year.
1930-1931
Maximum-404 c.f.s. February 4, 1931
Minimum-Dry at various times during year.
1931-1932
Maximum-3830 on February 9, 1932
Minimum-Dry most of year.

Diversions
A number of canals divert water from stream above gage.

Regulation
Regulation on tributaries by Flood Control Dams.

Accuracy
Fair

Operation
Located and installed by the Los Angeles County Flood Control District and operated by Los Angeles County Flood Control District in conjunction with the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

F.C. File No. 63

Discharge measurements of SAN GABRIEL RIVER

at Whittier Blvd. Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No. (F.C.)
1	1931 12/9	Jordan & Brewster	53.	31.2	2.01	1.44	62.8		.6		13		1/2	"
2	11	Brewster	26.	11.0	1.42	1.07	15.7		.6		7		1/3	[illegible]
3	18	"	16.	7.02	1.55	1.04	10.8		.6		8		"	"
4	24	"	16.	6.94	1.62	1.07	11.2		.6		8		1/4	"
5	25	"												
6	28	"	60.0	46.0	2.39	1.46	110.		.6		11		1/3	"
7	28	"	233.	387.	5.40	2.95	2094.		.6		13		1/2	"
8a	1/8/32	"	28.	8.48	1.21	0.56	10.2		.6		8		1/3	"
8b	15	"	32.	10.9	1.38	0.67	15.2		.6		9		1/3	"
8c	22	"	20.	7.72	1.43	0.65	11.0		.6		10		"	"
8d	29	"	18.	7.22	1.48	0.65	10.6		.6		10		"	"
8e	2/5	"	25.	10.8	1.52	0.68	16.5		.6		7		1/6	"
9	8	Jordan - Stoner	234.	260.	4.42	2.26	1151.		.6		14		1 2/12	217 636
10	8	Jordan & Stoner	235.	370.	5.70	3.10	2112.		.6		15		1 1/4	"
12	8	Lindsay & Cole	235.	338.	5.78	2.93	1955.		.6		14		8/15	282 883
13	9	Burke & Hedge	234.	344.	4.45	2.17	1533.		.6		24		1/2	271 637
14	10	Jordan & Stoner	111.	102.	4.56	1.55	468.1		.6		12		5/12	271 636
15	11	Harting & Laird	75.	71.8	2.50	.94	178.6		.6		32		1/2	271 655
16	2/13	Brewster	64.	36.5	1.59	0.91	57.93		.6		7		1/3	271 666
17	19	"	55.	18.8	1.23		23.07		.6		7		1/4	"
18	26	"	44.	13.6	1.09	0.90	14.86		.6		11		1/3	"
19	3/4	"	40.	12.7	1.22	1.00	15.52		.6		10		1/4	"
20	11	"	44.	11.8	1.10	1.04	13.07		.6		11		5/12	"
21	18	"	33.	8.91	1.15	1.22	10.29		.6		11		1/3	"
22	25	"	26.	9.10	1.32	1.22	12.03		.6		7		1/3	"
23	4/1	"	20.	6.02	1.11	0.75	6.68		.6		10		1/4	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 63

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN GABRIEL RIVER

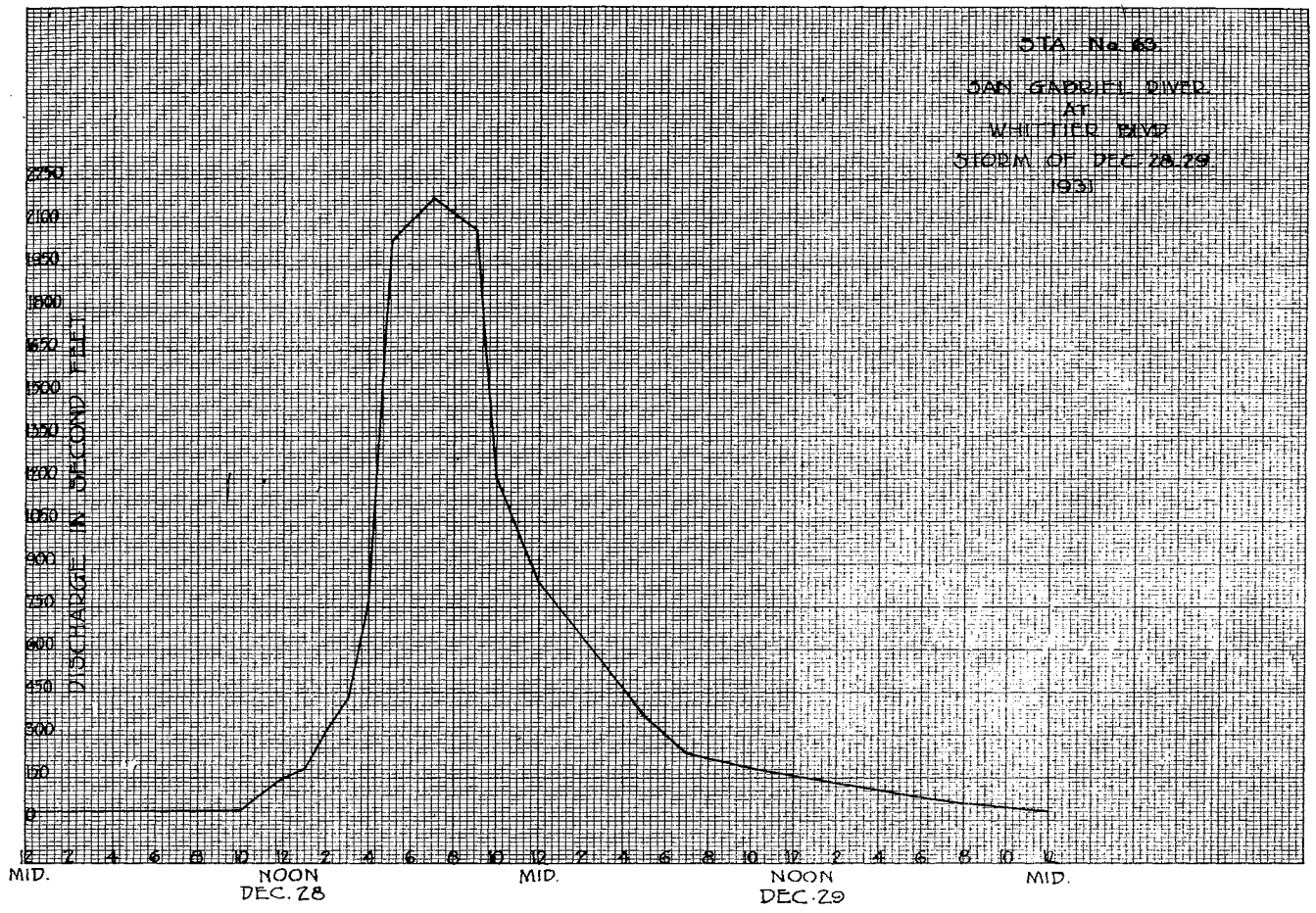
At Whittier Blvd. for the Year Ending September 30, 1932

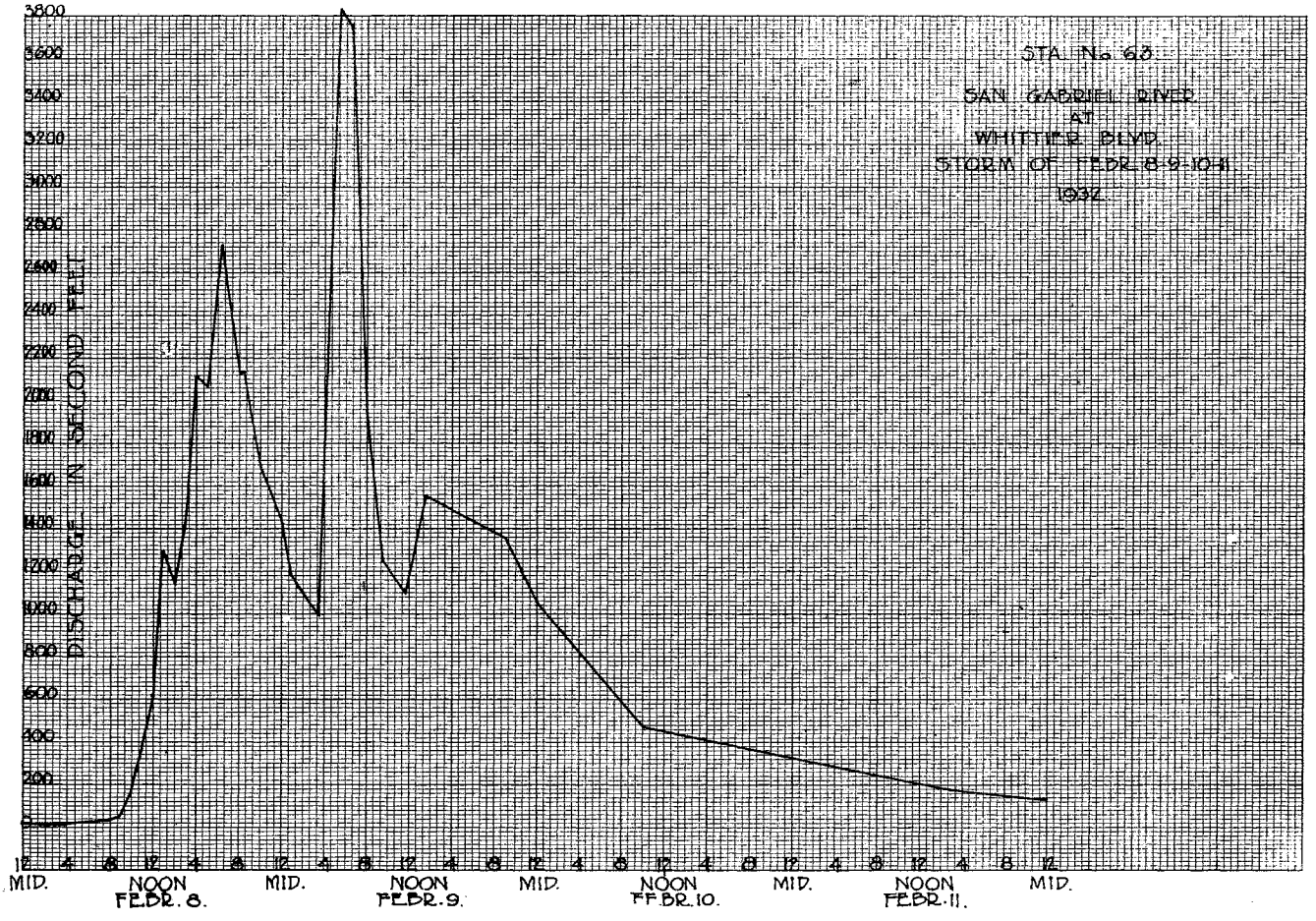
Drainage Area 410 Square Miles. [Brewster Observer.] Gage Read CONTINUOUS Used rating table dated 1931-32

Maximum stage 3.70 feet at 5:30 AM on 2-9-32 Discharge [illegible] second-feet
Minimum stage 0 feet at various times Discharge 0 second-feet
Adjustment Curve Used on G. H.

Day	Oct. Gage height	Oct. Discharge	Nov. Gage height	Nov. Discharge	Dec. Gage height	Dec. Discharge	Jan. Gage height	Jan. Discharge	Feb. Gage height	Feb. Discharge	Mar. Gage height	Mar. Discharge	Apr. Gage height	Apr. Discharge	May Discharge	June Discharge	July Discharge	Aug. Discharge	Sept. Discharge
1							.65	12.2	1.50	266.0	.68	15.8	.61	7.9					
2							.65	12.2	1.30	174.0	.65	12.2	.59	5.9					
3							.65	12.2	1.00	75.0	.61	7.9	.50	0					
4						DRY	.65	12.2	.84	39.9	.63	10.0							
5							.65	12.2	.70	18.4	.71	19.7							
6							.64	11.1	.67	14.6	.69	17.1							
7							.64	11.1	.65	12.2	.60	6.9							
8							.64	11.1	H	948.0	.60	6.9							
9					H	28.6	.63	10.0	H	1617.0	.59	5.9							
10					.63	10.0	.63	10.0	1.87	506.0	.68	15.8							
11					.65	12.2	.61	7.9	1.37	204.0	.66	13.4							
12					.61	7.9	.63	10.0	1.13	113.0	.62	8.9							
13		DRY		DRY	.63	10.0	.65	12.2	.93	58.3	.61	7.9		DRY	DRY	DRY	DRY	DRY	DRY
14					.67	14.6	.63	10.0	.94	60.6	.58	5.0							
15					.68	15.8	.67	14.6	.90	51.8	.54	1.8							
16					.65	12.2	.64	11.1	1.31	178.2	.57	4.1							
17					.66	13.4	.63	10.0	.93	58.3	.66	13.4							
18					.64	11.1	.64	11.1	.84	39.9	.62	8.9							
19					.64	11.1	.65	12.2	.76	26.7	.58	5.0							
20					.65	12.2	.65	12.2	.74	23.8	.58	5.0							
21					.67	14.6	.65	12.2	.72	21.0	.63	10.0							
22					.68	15.8	.65	12.2	.71	19.7	.64	11.1							
23					.67	14.6	.65	12.2	.70	18.4	.65	12.2							
24					.65	12.2	.66	13.4	.69	17.1	.65	12.2							
25					.89	49.7	.67	14.6	.68	15.8	.63	10.0							
26					.78	29.7	.67	14.6	.67	14.6	.62	8.9							
27					.79	31.3	.66	13.4	.71	19.7	.60	6.9							
28					H	657.0	.66	13.4	.74	23.8	.59	5.9							
29					H	236.8	.66	13.4	.71	19.7	.58	5.0							
30					.70	18.4	.65	12.2	–	–	.60	6.9							
31					.66	13.4	.75	25.2	–	–	.62	8.9							
TOTAL		0		0		1242.6		382.4		4655.5		289.6		13.8					
Mean Daily Discharge in Second-feet		0		0		40.08		12.34		160.53		9.34		0.35					
Second-feet per square mile		0		0		0.09776		0.03010		.39		2.28		.001					
Run-off, depth in inches		0		0		0.1127		0.0347		0.4464		.0265		.0015					
Run-off in acre-feet		0		0		2464.7		756.5		9234.2		574.4		27.4					
Maximum Mean Daily Discharge in Second-feet		0		0		647.0		25.2		1617.0		19.7		7.9					
Minimum Mean Daily Discharge in Second-feet		0		0		7.9		7.9		12.2		1.8		0.0					

Computed CES RHL 4/21; Checked RHL CES 4/21/32; Disch. applied RHL CES 4/21/32; G. H. copied / G. H. checked RHL CES 4/21/32


STA. No. 63.
SAN GABRIEL RIVER
AT
WHITTIER BLVD.
STORM OF DEC. 28,29
1931
DISCHARGE IN SECOND FEET
2250
2100
1950
1800
1650
1500
1350
1200
1050
900
750
600
450
300
150
0
12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
MID.
NOON
DEC. 28
MID.
NOON
DEC. 29
MID.


STA. No. 63
SAN GABRIEL RIVER
AT
WHITTIER BLVD.
STORM OF FEBR. 8-9-10-11
1932
DISCHARGE IN SECOND FEET
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12
MID.
NOON
FEBR. 8.
MID.
NOON
FEBR. 9.
MID.
NOON
FEBR. 10.
MID.
NOON
FEBR. 11.
MID.

F-42 R

SAN GABRIEL RIVER AT SPRING STREET NEAR LONG BEACH

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

Drainage Area
479 square miles.

Installed by
First installed by State Division of Water Rights 1924, re-established by Los Angeles County Flood Control District, February 6, 1928.

Records Available
Records previous to February 6, 1928 at offices of State of California Division of Water Rights. February 6, 1928 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

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

Discharge Measurements
Low water measurements are made by wading below bridge.
High flows are measured from upstream side of bridge.

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

Extremes of Discharge
No flow 1927-28, 1928-1929, 1929-1930 or 1930-1931.
1931-1932
Maximum-4487.5 c.f.s. Feb. 9, 1932
Minimum-Dry most of year

Diversions
Irrigation canals divert water at mouth of canyon and at Whittier Narrows.

F-42 R

Regulation
None

Accuracy
Fair

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

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 42

Discharge measurements of San Gabriel River

at Spring Street---Long Beach, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
1	1931 12-28	Seal	106.0	212.0	5.50	4.90	1136.9		.6		13	.16	3/4	FC 18
2	12-29	"	113.0	146.4	3.81	4.23	559.8		.6		12	.08	1/3	FC 23
3	12-29	Jordan	52.0	27.6	1.80	3.28	49.7		.6		11		"	FC 5
4	12-29	Seal	42.0	23.4	1.66	3.21	37.3		.6		11	.01	1/4	FC 18
5	1932 2-1	Seal-Cooper	112.0	74.0	2.22	3.58	164.9		.6		15		1/3	"
6	2-2	Cooper	43.0	21.6	1.14	3.17	24.6		.6		11	.01	1/2	FC 23
7	2-9	Jordan-Stoner	112.2	311.2	6.67	5.50	2075.3		.6		14		1	FC 5
8	2-12	Seal-Slaughter	13.0	8.07	1.52	2.96	12.3		.6		13		1/3	FC 18
9	2-16	" Cooper	112.7	96.0	1.78	3.69	171.6		.6		13	.01	1/4	"
10	2-17	Slaughter-Cooper	34.0	17.8	.71	3.15	12.7		.6		12		1/3	FC 23

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 42

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

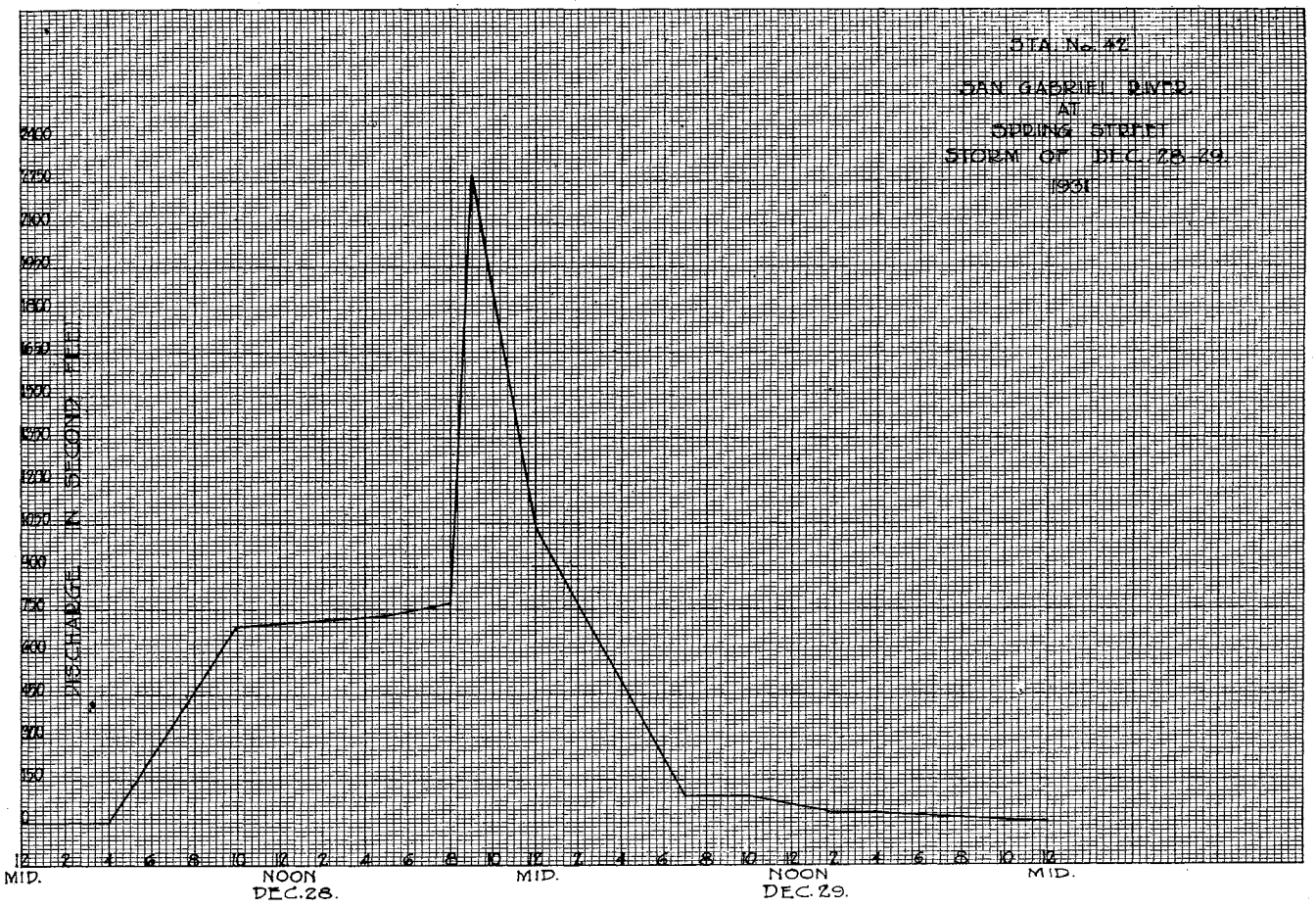
At Spring Street for the Year Ending September 30, 1932

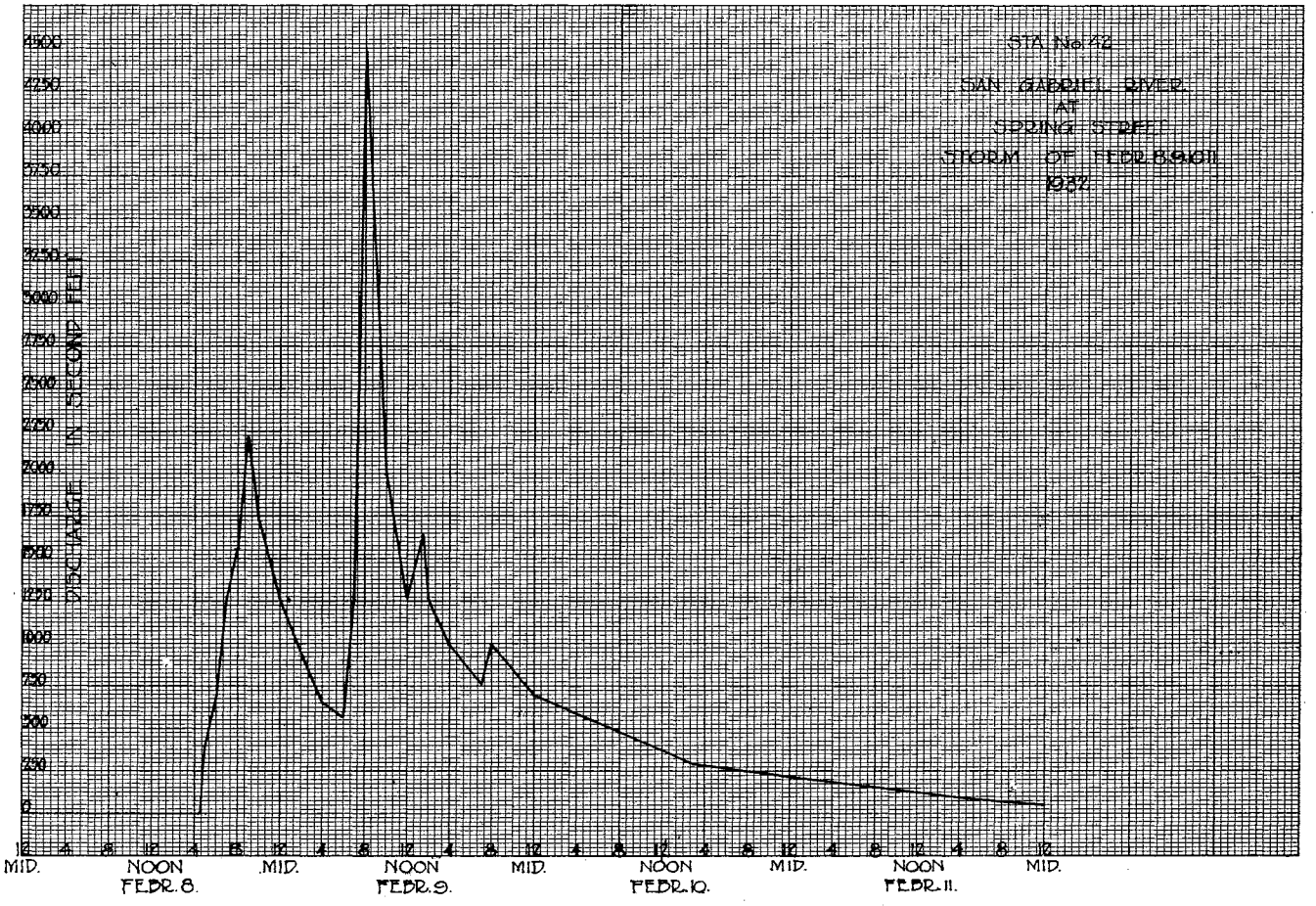
Drainage Area 479 Square Miles. [Seal-Jordan-Cooper Observer.] Gage Read Continuously Used rating table dated 10/1/31-6/6/32

Maximum stage 6.55 feet at 8 AM on Feb. 9, 1932 Discharge 4487.5 second-feet.
Minimum stage 2.60 feet at Various 90 times Discharge second-feet.
Adjustment curve used on Gage Height

Day	Oct. Gage height	Oct. Discharge	Nov. Gage height	Nov. Discharge	Dec. Gage height	Dec. Discharge	Jan. Gage height	Jan. Discharge	Feb. Gage height	Feb. Discharge	Mar. Gage height	Mar. Discharge	Apr. Gage height	Apr. Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	Aug. Gage height	Aug. Discharge	Sept. Gage height	Sept. Discharge
1									H	36.4														
2									H	53.0														
3									H	1.85														
4																								
5									Dry															
6										DRY														
7																								
8									H	411.8														
9									H	1274.1														
10									H	405.99														
11									H	135.46														
12									H	19.37														
13		Dry		Dry		Dry		Dry	H	0.51		Dry		Dry		Dry		Dry		Dry		Dry		Dry
14									Dry	0														
15										0														
16									H	70.55														
17									H	42.9														
18									H	.70														
19																								
20																								
21																								
22																								
23									Dry	DRY														
24																								
25																								
26																								
27																								
28					H	656.3																		
29					H	195.5																		
30					H	.41			–	–														
31					Dry	0			–	–														
TOTAL						852.23				2452.67														
Mean Daily Discharge in Second-feet						28.40				84.58														
Second-feet per square mile						0.059				.177														
Run-off, depth in inches																								
Run-off in acre-feet						1690.4				4864.9														
Maximum Mean Daily Discharge in Second-feet						656.31				1274.14														
Minimum Mean Daily Discharge in Second-feet						.41				.51														

Period / Year: Run-off in acre-feet 6555.30


STA. No. 42
SAN GABRIEL RIVER.
AT
SPRING STREET
STORM OF DEC. 28-29.
1931
DISCHARGE IN SECOND FEET
2400
2250
2100
1950
1800
1650
1500
1350
1200
1050
900
750
600
450
300
150
0
12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
MID.
NOON
DEC. 28.
MID.
NOON
DEC. 29.
MID.


STA. No. 42
SAN GABRIEL RIVER.
AT
SPRING STREET
STORM OF FEBR. 8-9-10-11
1932
DISCHARGE IN SECOND FEET
4500
4250
4000
3750
3500
3250
3000
2750
2500
2250
2000
1750
1500
1250
1000
750
500
250
0
12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12 4 8 12
MID.
NOON
FEBR. 8.
MID.
NOON
FEBR. 9.
MID.
NOON
FEBR. 10.
MID.
NOON
FEBR. 11.
MID.

SAN JOSE CREEK AT WORKMAN MILL ROAD BRIDGE

Location
Workman Mill Road Bridge over San Jose Creek about 3 miles north of Whittier, Los Angeles County, Calif.

Drainage Area
85 square miles

Installed
Recorder Station and Cable Station established in 1923 about 2000' above Workman Mill Road Bridge by the State of California Division of Water Rights. Recorder re-located January 2, 1929 by Los Angeles County Flood Control District on downstream side of Workman Mill Road Bridge. Cable Station moved to 200' above Workman Mill Road Bridge in March, 1931.

Records Available
Records previous to January 2, 1929 published in State of California Division of Water Rights Bulletins. From January 2, 1929 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles California.

Gage
An continuous water stage recorder installed in small wooden shelter house on top of corrugated iron pipe stilling well fastened to downstream end of bridge pier. Vertical staff gage set on bridge pier near stilling well.

Discharge measurements
High water flows are measured from Cable car 200' above bridge.
Low water flows are measured by wading near station.

Channel and control
Channel - shifting sand and silt,
No control.

Extremes of Discharge
1928-1929
Maximum-77 c.f.s. March 10, 1929
Minimum-Dry at various times during year
1929-1930
Maximum-264 c.f.s. January 15, 1930
Minimum-Dry at various times during year
1930-1931
Maximum-323 c.f.s. February 4, 1931
Minimum-.04 June 2 and 7, 1931
1931-1932
Maximum-1535 c.f.s. February 9, 1932
Minimum-.06 c.f.s. September 17, 1932

Diversion
None above gage

Regulation
None

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

F. C. Dist. Form 104 HH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.48

Discharge measurements of San Jose Creek

at ~~Xxxx~~ Workman Mill Road Bridge, during the year ending September 30, 19____

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271
26	1/22	Brewster	1.0	.32	1.31	1.77	0.42		.6		2	0	1/10	666
27	29	"	0.8	.13	.85	1.74	.11		.6		1	0	1/6	"
28	2/1	"	32.0	23.0	2.71	2.52	62.22		.6		9	0	1/3	"
29	5	"	1.0	.31	.97	1.83	.30		.6		2	0	1/6	"
30	8	"	75.0	185.	3.76	4.28	698.9		.6		8	0.10	1/3	"
31	8	" - J. G. L.	75.0	143.	4.06	3.70	583.4		.6		11	0	1/3	"
32	9	" "	85.0	209.	6.00	4.80	1256.		.6		10	0.20	1/2	"
33	9	" "	75.0	146.	5.00	4.07	732.9		.6		9	0	1/2	"
34	9	" "	75.0	147.	4.43	3.91	650.5		.6		10	.18	1/3	"
35	9	" "	40.0	92.3	4.72	3.20	435.4		.6		7	.10	1/2	"
36	10	Jordan - Stoner				1.89	Est. 1.5							
37	12	Brewster	3.0	.63	1.41	1.46	.89		.6		3	0	1/6	"
39	16	" J. G. L.	40.0	80.0	4.43	2.85	354.7		.6		7	0	1/4	"
38	16	" "	40.0	84.3	4.37	2.91	368.71		.6		6	.02	1/4	"
40	19	"	6.0	2.0	1.76	1.64	3.52		.6		6	0	1/6	"
41	26	"	2.0	.35	.91	1.34	.32		.6		2	0	1/6	"
42	3/4	"	2.0	.37	.73	1.33	0.27		.6		2	0	1/12	"
43	11	"	3.0	.48	.81	1.36	0.39		.6		3	0	1/10	"
44	18	"	2.0	.27	.81	1.32	0.22		.6		2	0	1/12	"
45	25	"	2.0	.20	.75	1.29	0.15		.6		2	0	1/10	"
46	4/1	"	3.0	.56	.80	1.36	.45		.6		3	0	1/10	"
47	8	"	3.0	.51	.69	1.35	.30		.6		3	0	1/6	"
48	15	"	3.0	.46	.72	1.36	.32		.6		3	0	1/10	"
49	22	"	3.0	.49	.88	1.44	.43		.6		3	0	1/6	"
50	29	"	3.0	.57	.79	1.50	.45		.6		3	0	1/12	"
51	5/6	"	3.0	.55	.60	1.56	.33		.6		3	0	1/6	"
52	13	"	0.8	.42	.83	1.60	.35		.6		1	0	1/12	"

F. C. Dist. Form 104 HH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.48

Discharge measurements of San Jose Creek

at ~~Xxxx~~ Workman Mill Road Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271
1	10/2	Brewster	0.8	0.28	1.04	2.20	0.29		.6		1	0	1/6	666
2	9	"	0.9	0.29	1.34	2.25	0.39		.6		1	0	1/12	"
3	16	"	0.8	0.24	1.08	2.20	0.26		.6		1	0	1/6	"
4	23	"	0.8	0.13	1.08	2.16	0.14		.6		1	0	1/12	"
5	30	"	0.8	0.13	1.00	2.15	0.13		.6		1	0	1/15	"
6	11/6	"	0.8	0.11	1.09	2.12	0.12		.6		1	0	1/12	"
7	13	"	0.8	0.26	1.12	2.21	0.29		.6		1	0	"	"
8	15	"	10.0	8.64	1.44	2.75	12.5		.6		5	0	1/6	"
9	15	"	4.0	3.62	1.33	2.53	4.81		.6		4	0	1/6	"
10	20	"	1.0	.10	1.00	2.10	.10		.6		2	0	1/6	"
11	27	"	1.2	.60	1.43	2.25	.86		.6		2	0	1/6	"
12	12/4	"	0.8	.24	1.00	2.17	.24		.6		1	0	1/12	"
13	9	"	54.0	59.9	2.31	2.94	138.9		.6		11	.02	1/3	"
14	9	"	5.0	3.20	1.56	2.55	5.00		.6		5	0	1/6	"
15	11	"	1.0	.29	1.00	2.20	.29		.6		2	0	1/12	"
16	18	"	0.8	.14	1.00	2.07	0.14		.6		1	0	"	"
17	24	"	0.8	.22	1.00	2.10	.22		.6		1	0	"	"
18	25	"	52.0	87.6	1.65	2.96	144.7		.6		9	0	1/3	"
21	28	" and Lee	80.0	209.	5.52	4.74	1157.		.6		9	0	1/3	"
19	28	" and Lee	36.0	49.0	2.90	3.09	142.1		.6		9	.02	1/4	"
20	28	" "	78.0	149.	4.61	4.38	690.2		.6		10	.06	1/2	"
22	29	" "	13.0	12.9	2.10	2.27	27.2		.6		7	0	1/4	"
22A	31	Brewster		Est.		1.56	.20							
	1932													
23	1/2	Brewster		Est.		2.17	8.00		.6					
24	8	"	1.0	.28	1.07	1.79	.30		.6		2	0	1/10	"
25	15	"	1.0	.52	1.38	1.80	.72		.6		2	0	1/6	"

F. C. Dist. Form 104 HH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.48

Discharge measurements of San Jose Creek

at ~~Xxxx~~ Workman Mill Road Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271
53	5/20	Brewster	1.0	.39	.92	1.66	.36		.6		2	0	1/6	666
54	27	"	1.0	.23	.96	1.72	.22		.6		2	0	1/6	"
55	6/3	"	1.0	.35	.60	1.60	.21		.6		2	0	1/12	"
56	10	"	1.0	.21	.76	1.52	.16		.6		2	0	"	"
57	17	"	1.0	.20	.60	1.48	.12		.6		2	0	1/6	"
58	24	"	1.0	.14	.50	1.45	.07		.6		2	0	1/12	"
59	7/1	"	1.0	.30	.47	1.56	.14		.6		2	0	"	"
60	8	"	1.0	.23	.57	1.54	.13		.6		2	0	"	"
61	15	"	1.0	.23	.48	1.52	.11		.6		2	0	"	"
62	22	"	1.5	.31	.65	1.69	.20		.6		2	0	"	"
63	29	"	1.5	.46	.72	1.72	.33		.6		3	0	1/10	"
64	8/5	"	1.0	.20	.75	1.63	.15		.6		2	0	1/12	"
65	12	"	1.0	.23	.91	1.67	.21		.6		2	0	"	"
66	18	"	1.0	.22	.82	1.64	.18		.6		2	0	"	"
67	25	"	1.0	.12	.83	1.54	.10		.6		2	0	"	"
68	9/1	"	1.0	.16	.62	1.54	.10		.6		2	0	"	"
69	7	"	1.0	.14	.57	1.51	.08		.6		2	0	1/6	"
70	15	"	0.8	.10	.70	1.51	.07		.6		2	0	1/4	"
71	22	"	1.0	.13	.62	1.51	.08		.6		2	0	1/12	"
72	29	"	1.0	.24	.42	1.52	.10		.6		2	0	"	"

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN JOSE CREEK

At Workman Mill Road Bridge for the Year Ending September 30, 19 32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 48

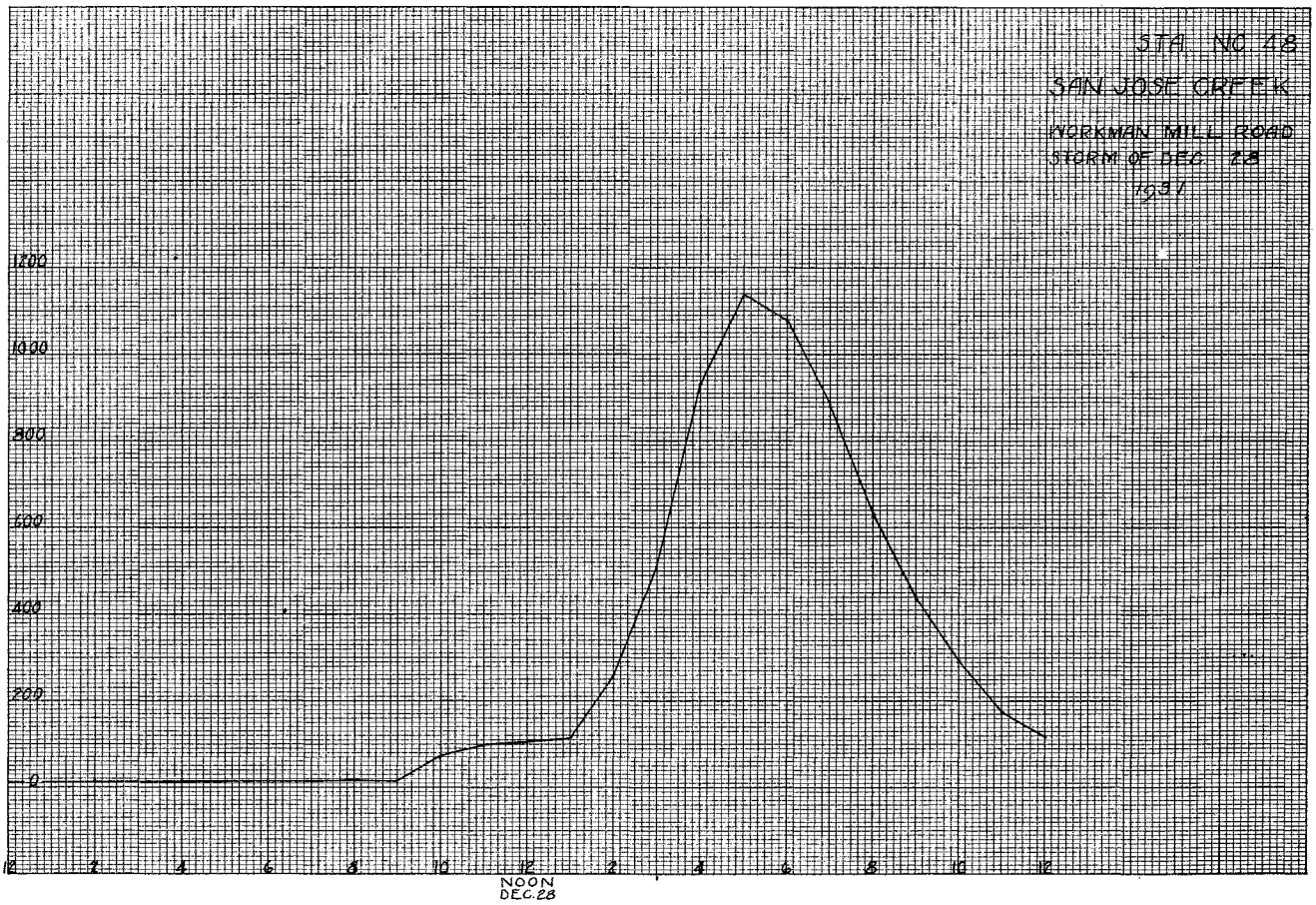
Drainage Area 85. Square Miles. [Brewster Observer.] Gage Read Continuous Used rating table dated

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	1.50	.30	1.33	.13	1.43	.23	2.02	7.60	2.57	39.6	1.51	.32	1	1.55	.40	1.58	.55	1.34	.14	1.33	.13	1.40	.20	1.30	.10	1
2	1.50	.30	1.32	.12	1.40	.20	2.05	8.50	2.35	24.0	1.58	.55	2	1.56	.45	1.55	.40	1.34	.14	1.33	.13	1.37	.17	1.30	.10	2
3	1.50	.30	1.32	.12	1.37	.17	1.92	5.30	1.95	5.90	1.59	.60	3	1.55	.40	1.55	.40	1.38	.18	1.34	.14	1.35	.15	1.29	.09	3
4	1.54	.38	1.32	.12	1.42	.22	1.86	4.30	1.99	6.78	1.50	.30	4	1.57	.50	1.53	.36	1.38	.18	1.36	.16	1.34	.14	1.27	.07	4
5	1.52	.34	1.32	.12	1.45	.25	1.77	2.95	1.62	.85	1.46	.26	5	1.58	.55	1.51	.32	1.38	.18	1.36	.16	1.33	.13	1.27	.07	5
6	1.53	.36	1.33	.13	1.37	.17	1.68	1.60	1.65	1.15	1.48	.28	6	1.54	.38	1.52	.34	1.35	.15	1.34	.14	1.35	.15	1.28	.08	6
7	1.51	.32	1.35	.15	1.33	.13	1.61	.75	1.73	2.35	1.51	.32	7	1.53	.36	1.52	.34	1.33	.13	1.33	.13	1.36	.16	1.27	.07	7
8	1.52	.34	1.36	.16	1.37	.17	1.51	.32	H	472.8	1.47	.27	8	1.52	.34	1.49	.29	1.33	.13	1.32	.12	1.37	.17	1.27	.07	8
9	1.52	.34	1.37	.17	2.27	19.20	1.52	.34	H	546.8	1.53	.36	9	1.50	.30	1.53	.36	1.35	.15	1.31	.11	1.40	.20	1.27	.07	9
10	1.50	.30	1.38	.18	1.45	.25	1.55	.40	2.16	13.4	1.48	.28	10	1.52	.34	1.53	.36	1.35	.15	1.31	.11	1.40	.20	1.28	.08	10
11	1.51	.32	1.39	.19	1.31	.11	1.57	.50	1.76	2.8	1.49	.29	11	1.49	.29	1.60	.65	1.33	.13	1.31	.11	1.40	.20	1.28	.08	11
12	1.52	.34	1.42	.22	1.33	.13	1.58	.55	1.64	1.05	1.48	.28	12	1.49	.29	1.62	.65	1.32	.12	1.30	.10	1.40	.20	1.27	.07	12
13	1.52	.34	1.46	.26	1.27	.07	1.59	.60	1.59	1.60	1.45	.25	13	1.52	.34	1.55	.40	1.32	.12	1.30	.10	1.39	.19	1.27	.07	13
14	1.49	.29	1.47	.27	1.37	.17	1.60	.65	1.86	4.30	1.45	.25	14	1.57	.50	1.54	.38	1.32	.12	1.30	.10	1.40	.20	1.27	.07	14
15	1.48	.28	1.73	2.35	1.55	.40	1.61	.75	1.91	5.10	1.45	.25	15	1.54	.38	1.55	.40	1.34	.14	1.30	.10	1.43	.23	1.27	.07	15
16	1.46	.26	1.65	1.15	1.40	.20	1.60	.65	3.37	206.2	1.42	.22	16	1.50	.30	1.54	.38	1.35	.15	1.34	.14	1.41	.21	1.27	.07	16
17	1.44	.24	1.50	.30	1.37	.17	1.60	.65	2.78	61.2	1.43	.23	17	1.50	.30	1.53	.36	1.32	.12	1.35	.15	1.39	.19	1.26	.06	17
18	1.45	.25	1.43	.23	1.35	.15	1.60	.65	2.40	27.0	1.42	.22	18	1.49	.29	1.52	.34	1.30	.10	1.36	.16	1.38	.18	1.27	.07	18
19	1.44	.24	1.36	.16	1.34	.14	1.59	.60	2.04	8.20	1.41	.21	19	1.48	.28	1.51	.32	1.29	.09	1.38	.18	1.36	.16	1.28	.08	19
20	1.42	.22	1.30	.10	1.35	.15	1.59	.60	1.59	.60	1.39	.19	20	1.54	.38	1.53	.36	1.29	.09	1.38	.18	1.34	.14	1.28	.08	20
21	1.40	.20	1.37	.17	1.50	.30	1.58	.55	1.55	.40	1.37	.17	21	1.54	.38	1.60	.65	1.29	.09	1.38	.18	1.32	.12	1.28	.08	21
22	1.38	.18	1.39	.19	1.58	.55	1.56	.45	1.58	.55	1.39	.19	22	1.54	.38	1.57	.50	1.30	.10	1.38	.18	1.32	.12	1.28	.08	22
23	1.35	.15	1.43	.23	1.47	.27	1.51	.32	1.52	.34	1.40	.20	23	1.53	.36	1.54	.38	1.28	.08	1.41	.21	1.30	.10	1.30	.10	23
24	1.35	.15	1.42	.22	1.42	.22	1.48	.28	1.51	.32	1.37	.17	24	1.52	.34	1.52	.34	1.27	.07	1.41	.21	1.30	.10	1.30	.10	24
25	1.35	.15	1.44	.24	2.63	44.40	1.44	.24	1.49	.29	1.37	.17	25	1.49	.29	1.49	.29	1.28	.08	1.42	.22	1.30	.10	1.29	.09	25
26	1.35	.15	1.52	.34	2.45	30.0	1.41	.21	1.50	.30	1.40	.20	26	1.56	.45	1.47	.27	1.30	.10	1.42	.22	1.29	.09	1.32	.12	26
27	1.35	.15	1.67	1.45	2.21	15.60	1.38	.18	1.50	.30	1.41	.21	27	1.53	.36	1.45	.25	1.30	.10	1.43	.23	1.30	.10	1.34	.14	27
28	1.35	.15	1.61	.75	H	288.1	1.35	.15	1.50	.30	1.41	.21	28	1.56	.45	1.41	.21	1.33	.13	1.44	.24	1.30	.10	1.32	.12	28
29	1.33	.13	1.52	.34	2.78	61.2	1.32	.11	1.50	.30	1.52	.34	29	1.57	.50	1.39	.19	1.34	.14	1.50	.30	1.30	.10	1.30	.10	29
30	1.33	.13	1.46	.26	2.10	11.0	1.55	.40	–	–	1.54	.38	30	1.61	.75	1.36	.16	1.36	.16	1.49	.29	1.30	.10	1.30	.10	30
31	1.33	.13	–	–	2.10	11.0	1.83	3.85	–	–	1.53	.36	31	–	–	1.34	.14	–	–	1.44	.24	1.30	.10	–	–	31
TOTAL,		7.73		10.82		485.32		45.00		1434.83		8.53			11.63		11.54		3.76		5.17		4.70		2.55	
Mean Daily Discharge in Second-feet		.25		.34		15.66		1.45		49.48		.28			.39		.37		.13		.17		.15		.09	
Second-feet per square mile		.003		.004		.184		.017		.581		.003			.005		.004		.002		.002		.002		.001	
Run-off, depth in inches																										
Run-off in acre-feet		15.33		21.46		962.39		89.26		2846.00		16.92			23.06		22.89		7.46		10.25		9.32		5.06	4029.40
Maximum Mean Daily Discharge in Second-feet		0.38		2.35		288.10		8.50		546.84		0.60			0.75		0.85		0.18		0.30		.23		.14	
Minimum Mean Daily Discharge in Second-feet		0.13		0.12		0.07		0.11		0.29		0.17			0.28		0.14		0.07		0.10		.09		.06	

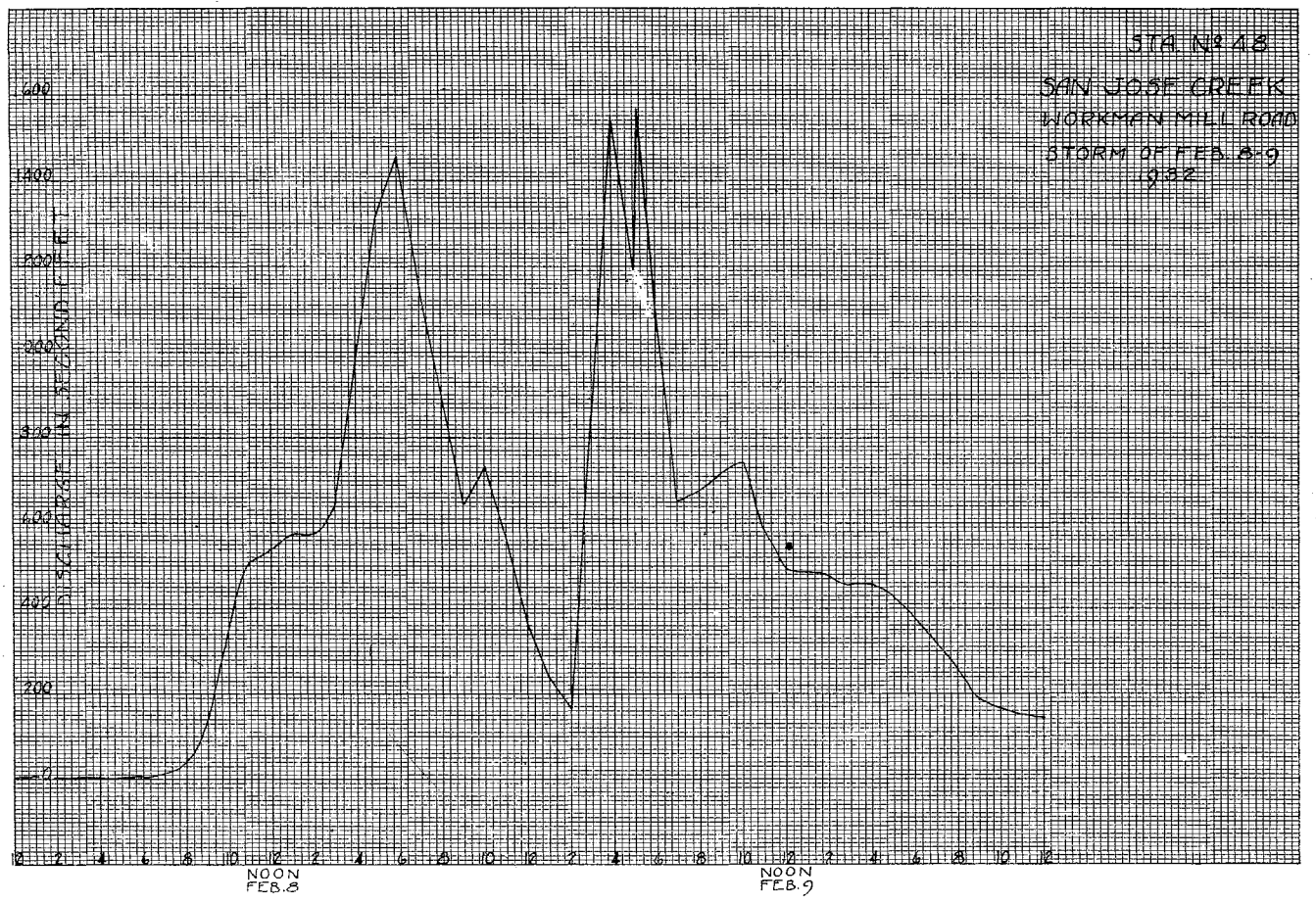
Maximum stage 5.02 feet at 5:15 AM on Feb. 9, 1932
Minimum stage 1.26 feet at 5:00 PM on Sept. 17, 1932
Discharge 1535 second-feet
Discharge .06 second-feet
Adjustment curve used on gage heights

	Fourth	Third	Second	First	Quarter	Fourth	Third	Second	First	Quarter	
O.E.B.											
W.W.											
O.E.B.											
W.W.											
O.E.B.											
Computed											
Checked											
Date											
Disch. applied											
Disch. checked											
Date											
G. H. applied											
G. H. checked											
Date											

PERIOD YEAR



KEUFFEL & ESSER CO., N.Y. NO. 359-211. 12 X 18 to the inch.



F-92 R

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, Los Angeles County, California.

Drainage Area
355 square miles.

Records Available
October 1, 1929 to September 30, 1932. Recorder started January 8, 1930 (weekly measurements only, from Oct. 1, 1929 to January 18, 1930.) at offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
An continuous water stage recorder in small house on top of corrugated iron pipe stilling well fastened to south bridge pier on downstream side, staff gage same location.

Discharge Measurements
High water flows made from cable at upstream end of pier.
Low flows made by wading.

Channel and Control
Channel sand and gravel.
No control.

Extremes of Discharge
1929-1930
Maximum-193.25 c.f.s. March 15, 1930
Minimum-.02 c.f.s. July 16, 1930
1930-1931
Maximum-2308 c.f.s. February 17, 1931
Minimum-.11 c.f.s. July 2, 3, and 4, 1931
1931-1932
Maximum-2065 c.f.s. Feb. 9, 1932
Minimum-0.10 Sept. 22, 1932

Diversions
None near station

Regulation
None

Operation, Located and
Constructed by the Los Angeles County Flood Control District and operated by the Los Angeles County Flood Control District in conjunction with the U.S.G.S. Water Resources Branch.

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C. 92

Discharge measurements of Santa Clara River

at ~~near~~ Old Highway Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ft. change Total	Time Hours	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							F.C.
1	10/6	R.A Waddicor	2.0	2.4	.58	5.10	.14		.6		4	0	1/6	13
2	9	"	2.0	.25	.64	5.10	.16		.6		4	0	1/12	"
3	16	"	2.3	.30	.67	4.78	.20		.6		5	0	1/12	"
4	23	"	2.6	.35	.74	2.52	.25		.6		5	0	1/6	"
5	30	"	2.0	.25	.76	"	.19		.6		4		1/12	"
6	11/6	"	2.3	.34	.88	2.90	.30		.6		5	0	1/6	"
7	13	"	2.3	.33	.79	2.94	.26		.6		5	0	1/6	"
8	20	"	2.3	.27	.89	3.08	.24		.6		5	0	1/6	"
9	27	Luce & Waddicor	22.	11.7	3.29	5.35	38.57		.6		11	.02	1/4	"
10	28	R. A. Waddicor-	2.6	.39	0.85	4.76	.33		.6		5	0	1/6	F.C. 27
11	12/4	"	1.6	.16	1.06	4.50	.17		.6		3	0	1/12	"
12	9	"	2.9	.34	.63	4.56	.21		.6		5	0	1/6	"
13	11	"	3.0	.35	.77	4.42	.27		.6		6	0	"	"
14	15	Luce & Waddicor	2.0	.43	1.07	4.56	.46		.6		6	0	1/12	F.C. 13
15	17	Waddicor & Turner	2.6	.32	1.24	4.34	.40		.6		5	0	1/6	F.C. 27
16	21	Luce and Lovelace	3.0	.50	.88	4.35	.44		.6		6	0	1/12	F.C. 13
16A	23	Waddicor	2.9	.41	.75	4.54	.30		.6		6	0	1/6	F.C. 27
17	25	Waddicor & Turner	8.0	1.83	1.37	5.24	2.51		.6		6	0	1/6	"
18	25	" "	23.	19.4	4.10	6.17	79.43		.6		8	.06	"	"
19	25	" "	24.	20.1	4.62	6.22	93.3		.6		7	.04	"	"
20	25	" "	25.	21.0	4.55	6.25	95.97		.6		7	.02	"	"
21	25	" "	38.	41.4	3.85	6.49	158.7		.6		7	0	1/2	"
22	25	" "	39.	42.8	3.36	6.48	143.9		.6		6	.02	1/4	"
23	25	" "	45.	218.	3.04	7.30	676.9		.6		5	.20	1/3	"
24	28	" "	53.0	162.54	4.37	6.98	707.6		.6		7	.24	2/3	"
25	28	" "	43.	161.	3.18	7.12	536.5		.6		5	.16	1/4	"

F. C. Dist. Form 164 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 92

Discharge measurements of SANTA CLARA

at OLD HIGHWAY BRIDGE, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1932													
26	1/8	Luce	2.5	.64	1.37	5.56	.88		.6				1/12	FC 13
27	15	Waddicor & Turner	3.9	.81	1.37	5.39	1.11		.6				1/6	FC 27
28	22	" "	3.4	.70	1.00	5.30	.70		.6				1/6	"
29	29	Waddicor	2.8	.50	.90	5.20	.45		.6				1/12	"
30	2/1	Turner & Lovelace	22.	6.12	2.92	6.70	17.9		.6				1/6	FC 25
31	2	Waddicor & Turner	21.	7.29	2.19	6.76	16.0		.6				1/6	FC 27
32	5	Waddicor	4.5	1.01	1.07	6.06	1.08		.6				"	"
33	8	Waddicor & Turner	22.	8.43	2.08	6.56	17.5		.6			.04	1/4	"
34	9	" "	68.	134.	7.28	9.20	975.8		.6			.08	1/3	"
35	9	" "	120.	308.	4.33	9.27	1334.		.6			.04	1/4	"
36	9	" "	75.	146.	4.87	9.24	711.4		.6			.06	1/3	"
37	9	" "	80.	166.	6.80	9.32	1137.		.6			.08	1/3	"
38	9	" "	85.	137.	7.09	2.54	975.9		.6			.19	2/5	"
39	9	" "	135.	296.	7.03	9.74	2081.		.6			.01	1/3	"
40	9	" "	105.	167.	4.77	9.61	800.0		.6			.12	1/2	"
41	10	" "	74.	15.3	2.91	10.80	44.5		.6			.52	1/2	"
42	19	Waddicor	39.	6.75	2.35	10.8	15.9		.6				1/4	"
43	26	"	9.5	1.86	1.42	11.5	2.65		.6				1/6	"
44	3/4	"	9.0	2.56	1.54	10.9	3.93		.6				"	"
44A	3/11	"	5.3	1.29	1.70	10.6	2.20		.6				"	"
45	18	"	5.0	1.16	1.62	10.6	1.88		.6				"	"
46	28	"	4.6	.83	.94	10.8	.78		.6				"	"
47	4/1	"	3.6	.69	1.11	10.8	.77		.6				"	"
48	4/8	"	3.1	.53	.83	10.9	.44		.6				"	"
49	15	"	3.5	.53	.66	10.9	.35		.6				"	"
50	21	"	3.0	.45	.89	10.9	.40		.6				"	"
51	29	"	2.3	.49	1.94	10.9	.46		.6				"	"

F. C. Dist. Form 164 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C. 92

Discharge measurements of SANTA CLARA RIVER

at Old Highway Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1932													
52	5/6	R. A. Waddicor	2.9	.53	1.00	10.9	.53		.6		6	0	1/6	F.C. 27
53	19	Luce	3.5	.75	.70	10.9	.59		.6		6	0	1/12	F.C. 13
54	26	"	3.1	.46	.73	6.0	.34		.6		6	0	"	"
55	6/3	"	3.4	.63	.70	6.0	.46		.6		7	0	"	"
56	11	"	3.3	.51	.96	5.68	.49		.6		4	0	"	"
57	25	"	2.2	.34	.70	5.82	.24		.6		4	0	"	"
58	30	" 3" Ventura Flume				.35	.22							
59	7/1	"	2.5	.32	.90	5.82	.29		.6		5	0	"	"
60	8	"	2.7	.32	.81	5.81	.26		.6		5	0	"	"
61	15	"	2.5	.29	.82	5.74	.24		.6		5	0	"	"
62	22	"	2.5	.28	.74	5.70	.21		.6		5	0	"	"
63	29	"	2.5	.30	.66	5.75	.20		.6		5	0	"	"
64	8/4	"	1.8	.29	.89	5.67	.26		.6		4	0	"	"
65	12	"	2.5	.34	.64		.22		.6		5	0	"	"
66	19	"	2.2	.35	.68	9.90	.24		.6		4	0	"	"
67	26	"	2.2	.24	.50	9.85	.13		.6		4	0	"	"
68	9/2	"	2.2	.24	.58	9.85	.14		.6		3	0	"	" Float Meas.
69	14	" Bollinger	2.2	.32	.78	9.28	.25				4	0	"	
70	21	"	1.9	.20	.85	9.18	.17				4	0	"	"

F. C. Dist. - Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 92

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SANTA CLARA RIVER

At/Near OLD HIGHWAY BRIDGE for the Year Ending September 30, 1932

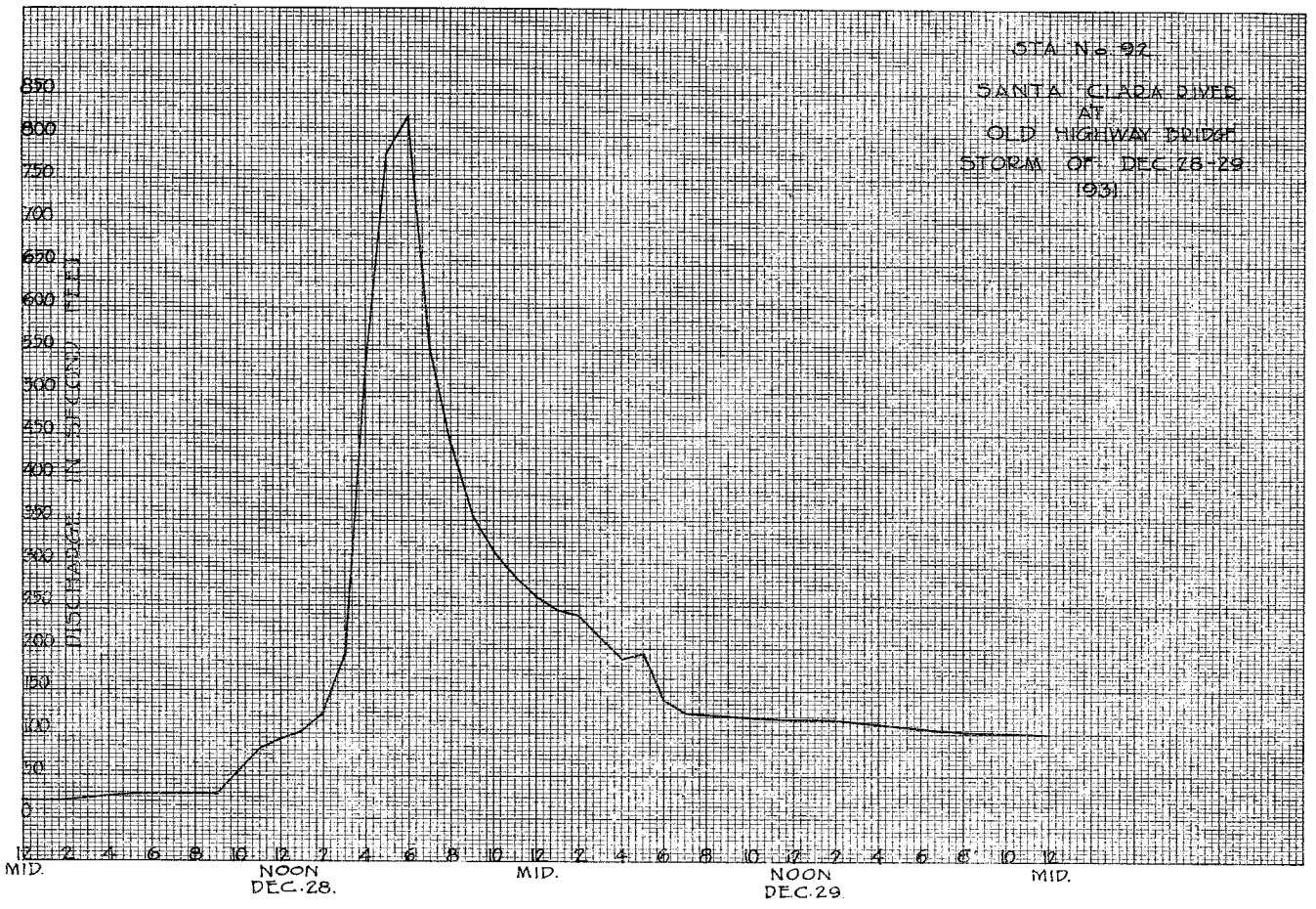
Drainage Area 355.3 Square Miles. [J. L. Luce Observer.] Gage Read CONTINUOUS Used rating table dated

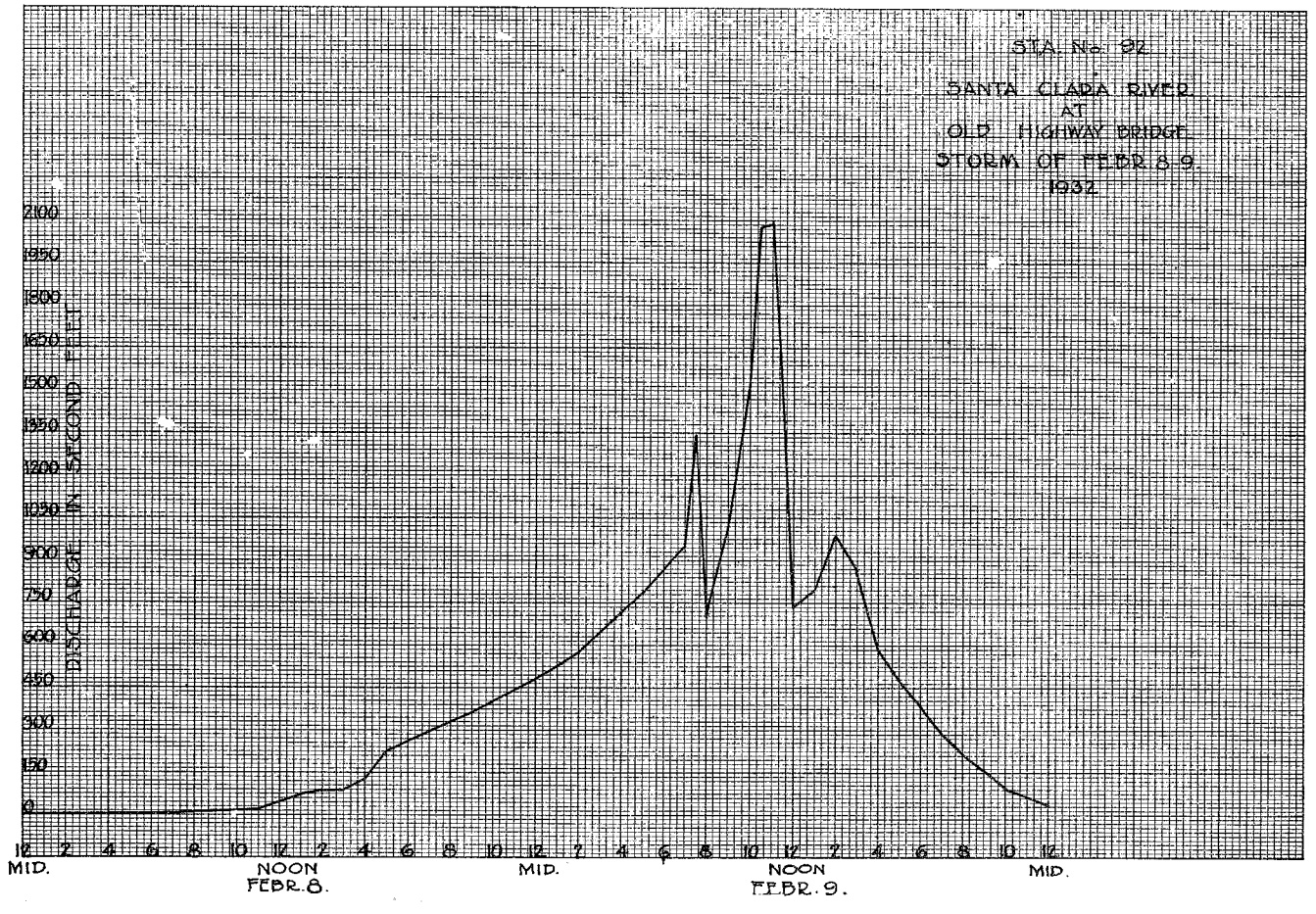
DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	5.03	.15	5.06	.30	5.07	.35	6.29	51.00	H	71.95	5.29	1.72
2	5.03	.15	5.06	.30	5.05	.25	H	41.80	5.63	9.05	5.36	2.52
3	5.03	.15	5.06	.30	5.03	.15	5.85	18.00	5.22	1.16	5.44	3.80
4	5.03	.15	5.06	.30	5.02	.10	5.76	13.90	5.19	.95	5.46	4.20
5	5.03	.15	5.06	.30	5.02	.10	5.65	9.75	5.20	1.00	5.42	3.40
6	5.03	.15	5.06	.30	5.02	.10	5.49	4.80	5.20	1.00	5.40	3.00
7	5.03	.15	5.05	.25	5.02	.10	5.33	2.16	5.19	.95	5.35	2.40
8	5.03	.15	5.05	.25	5.06	.30	5.19	.95	H	130.0	5.32	2.04
9	5.03	.15	5.05	.25	5.04	.20	5.17	.85	H	739.0	5.32	2.04
10	5.03	.15	5.05	.25	5.04	.20	5.16	.80	6.15	37.75	5.29	1.72
11	5.03	.15	5.12	.60	5.05	.25	5.18	.90	5.98	25.30	5.34	2.28
12	5.03	.15	5.10	.50	5.04	.20	5.16	.80	5.87	19.00	5.37	2.64
13	5.03	.15	5.05	.25	5.03	.15	5.12	.60	5.82	16.50	5.37	2.64
14	5.03	.15	5.05	.25	5.04	.20	5.10	.50	5.71	11.90	5.32	2.04
15	5.04	.20	H	6.18	5.04	.20	5.22	1.16	5.65	9.75	5.32	2.04
16	5.04	.20	5.32	2.04	5.04	.20	5.24	1.32	5.63	9.05	5.32	2.04
17	5.04	.20	5.15	.75	5.10	.50	5.19	.95	5.68	10.80	5.34	2.28
18	5.05	.25	5.21	1.08	5.10	.50	5.16	.80	5.66	10.10	5.32	2.04
19	5.05	.25	5.15	.75	5.10	.50	5.13	.65	5.81	16.00	5.27	1.56
20	5.05	.25	5.05	.25	5.10	.50	5.11	.55	5.67	10.45	5.27	1.56
21	5.06	.30	5.03	.15	5.15	.75	5.11	.55	5.56	6.80	5.26	1.48
22	5.06	.30	5.03	.15	5.06	.30	5.14	.70	5.39	2.88	5.25	1.40
23	5.06	.30	5.03	.15	5.05	.25	5.13	.65	5.35	2.40	5.22	1.16
24	5.06	.30	5.03	.15	5.05	.25	5.11	.55	5.45	4.00	5.19	.95
25	5.06	.30	5.03	.15	H	38.07	5.10	.50	5.48	4.60	5.16	.80
26	5.06	.30	5.03	.15	6.00	26.50	5.11	.55	5.32	2.04	5.18	.90
27	5.06	.30	H	9.20	5.86	18.50	5.12	.60	5.28	1.64	5.19	.95
28	5.06	.30	5.17	.85	H	212.2	5.11	.55	5.26	1.48	5.16	.80
29	5.06	.30	5.16	.80	H	138.0	5.11	.55	5.26	1.48	5.16	.80
30	5.06	.30	5.15	.75	6.68	103.8	5.10	.50	-	-	5.18	.90
31	5.06	.30	-	-	6.59	89.55	H	34.90	-	-	5.17	.85
TOTAL,		6.75		27.95		633.23		192.84		1158.98		58.95
Mean Daily Discharge in Second-feet		.22		.93		20.43		6.22		39.96		1.90
Second-feet per square mile		.001		.003		.058		.018		.112		.005
Run-off, depth in inches												
Run-off in acre-feet		13.39		55.44		1256.01		382.50		2298.84		116.93
Maximum Mean Daily Discharge in Second-feet		0.30		9.20		212.21		51.00		739.00		4.20
Minimum Mean Daily Discharge in Second-feet		0.15		0.15		0.10		.50		.95		.80

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1	5.16	.80	5.11	.55	5.09	.45	5.04	.20	5.06	.30	5.03	.15	
2	5.14	.70	5.11	.55	5.09	.45	5.04	.20	5.07	.35	5.03	.15	
3	5.14	.70	5.11	.55	5.09	.45	5.06	.30	5.08	.40	5.03	.15	
4	5.12	.60	5.13	.65	5.10	.50	5.06	.30	5.09	.45	5.03	.15	
5	5.12	.60	5.14	.70	5.12	.60	5.06	.30	5.08	.40	5.05	.25	
6	5.13	.65	5.15	.75	5.11	.55	5.05	.25	5.08	.40	5.05	.25	
7	5.11	.55	5.24	1.32	5.06	.30	5.05	.25	5.08	.40	5.05	.25	
8	5.09	.45	5.24	1.32	5.07	.35	5.04	.20	5.10	.50	5.05	.25	
9	5.10	.50	5.15	.75	5.05	.25	5.04	.20	5.10	.50	5.05	.25	
10	5.11	.55	5.14	.70	5.08	.40	5.05	.25	5.10	.50	5.03	.15	
11	5.10	.50	5.13	.65	5.10	.50	5.06	.30	5.12	.60	5.06	.30	
12	5.09	.45	5.13	.65	5.09	.45	5.06	.30	5.12	.60	5.05	.25	
13	5.09	.45	5.14	.70	5.09	.45	5.07	.35	5.12	.60	5.05	.25	
14	5.08	.40	5.14	.70	5.09	.45	5.07	.35	5.12	.60	5.05	.25	
15	5.08	.40	5.14	.70	5.09	.45	5.06	.30	5.12	.60	5.07	.35	
16	5.07	.35	5.14	.70	5.09	.45	5.07	.35	5.12	.60	5.05	.25	
17	5.08	.40	5.13	.65	5.10	.50	5.07	.35	+5.05	.25	5.07	.35	
18	5.09	.45	5.12	.60	5.11	.55	5.07	.35	5.05	.25	5.08	.40	
19	5.09	.45	5.13	.65	5.10	.50	5.08	.40	5.03	.15	5.07	.35	
20	5.08	.40	5.12	.60	5.07	.35	5.09	.45	5.03	.15	5.06	.30	
21	5.08	.40	5.11	.55	5.07	.35	5.08	.40	5.03	.15	5.04	.20	
22	5.07	.35	5.09	.45	5.07	.35	5.07	.35	5.03	.15	5.02	.10	
23	5.06	.30	5.11	.55	5.07	.35	5.06	.30	5.03	.15	5.02	.10	
24	5.07	.35	5.13	.65	5.07	.35	5.05	.25	5.03	.15	5.03	.15	
25	5.11	.55	5.14	.70	5.06	.30	5.04	.20	5.03	.15	5.09	.45	
26	5.14	.70	+5.06	.30	5.06	.30	5.03	.15	5.04	.20	5.21	1.08	
27	5.12	.60	5.06	.30	5.06	.30	5.02	.10	5.05	.25	5.22	1.16	
28	5.13	.65	5.07	.35	5.06	.30	5.02	.10	5.05	.25	5.20	1.00	
29	5.12	.60	5.07	.35	5.05	.25	5.02	.10	5.06	.30	5.19	.95	
30	5.11	.55	5.08	.40	5.04	.20	5.03	.15	5.04	.20	5.18	.90	
31	-	-	5.08	.40	-	-	5.04	.20	5.04	.20	-	-	
TOTAL,		15.40		19.44		12.00		8.25		10.75		11.14	
Mean Daily Discharge in Second-feet		.51		.63		.40		.27		.35		.37	
Second-feet per square mile		.001		.002		.001		.001		.001		.001	
Run-off, depth in inches													
Run-off in acre-feet		30.55		38.56		23.80		16.36		21.32		22.10	4275.80
Maximum Mean Daily Discharge in Second-feet		.80		1.32		.60		.45		.60		1.16	
Minimum Mean Daily Discharge in Second-feet		.30		.30		.20		.10		.15		.10	

Maximum stage 9.98 feet at 11 AM on Feb. 9, 1932 Discharge 2088. second-feet.
Minimum stage 5.02 feet at 8 PM on Sept. 22 Discharge .10 second-feet.
Adjustment used on gage heights.
+ recorder set at different gage heights

First Quarter: Computed HAV; Checked HAV. Second Quarter: Computed HAV; Checked HAV. Third Quarter: Disch. applied HAV; Disch. checked. Fourth Quarter: G. H. copied HAV; G. H. checked; Date.


STA. No. 92
SANTA CLARA RIVER
AT
OLD HIGHWAY BRIDGE
STORM OF DEC. 28-29
1931
DISCHARGE IN SECOND FEET
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
MID.
NOON
DEC. 28.
MID.
NOON
DEC. 29
MID.


STA. No. 92
SANTA CLARA RIVER
AT
OLD HIGHWAY BRIDGE
STORM OF FEBR. 8-9
1932
DISCHARGE IN SECOND FEET
2100
1950
1800
1650
1500
1350
1200
1050
900
750
600
450
300
150
0
12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
MID.
NOON
FEBR. 8.
MID.
NOON
FEBR. 9.
MID.

F-43 R

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 Street, Glendale, California.

Drainage Area
2.7 square miles.

Installed by
Los Angeles County Flood Control District.
January 30, 1928.

Records Available
January 30, 1928 to September 30, 1932, at the Los Angeles County Flood Control office, Los Angeles, California.

Gage
Stevens L type recorder in 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
Low flows made by wading above weir. High flow measurements made by cable or pipe suspension from planks below weir-notch.

Channel and Control
Concrete Flood Control Channel
Small notch weir serving as a control in the low flows and as a sand trap during high flows.

Extremes of Discharge
1927-28
Maximum-25 c.f.s. February 3, 1928
Minimum-Dry most of year
1928-1929
Maximum-62 c.f.s. March 10, 1929
Minimum-Dry most of year
1929-1930
Maximum-24 c.f.s. March 14, 1930
Minimum-Dry most of year
1930-1931
Maximum-20.16 c.f.s. February 4, 1931
Minimum-Dry most of year
1931-1932
Maximum-58.0 c.f.s. Feb. 9, 1932
Minimum Dry at various times during year

Diversions
Low flow diverted into Glendale City Sewer at Chevy Chase Drive, 600 feet above gage.

Regulation
None

Accuracy
Fair

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

F. C. Dist. Form 104 M 11-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Discharge measurements of Sycamore Upper Storm Drain

at Solway St.---Glendale, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
1	1931 12-28	Bollinger-Cron	7.2	1.26	4.80	.30	6.04		.6		8		1/6	271 650
2	1932 1-16	" Moon	4.0	.56	2.93	.27	1.64		.6		6		1/12	"
3	4-16	Bollinger				.10	.08		Weir					
4	4-20	"				.13	.11		"					
5	4-25	"				.16	.16		"					
6	4-27	"				.12	.11		"					
7	5-7	"				.11	.09		"					
8	5-11	"				.11	.09		"					
9	5-14	"				.13	.11		"					
10	5-28	"				.14	.09		"					
11	6-4	"				.13	.14		"					
12	6-18	"				.05	.02		"					
13	7-2	"				.03	.01		"					

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 43

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SYCAMORE, UPPER STORM DRAIN

At SOLWAY STREET, GLENDALE for the Year Ending September 30, 1932

Drainage Area 2.67 Square Miles. [O. E. Bollinger Observer.] Gage Read Continuously. Used rating table dated 10-1-31 to 9-30-32

Maximum stage 0.67 feet at 9:00 AM on February 9 Discharge 58.00 second-feet.
Minimum stage ...... feet at ...... on ...... Discharge ...... second-feet.
Dry at various times during the year.
Adjustments have been applied to gage heights.
After April 6, discharge were interpolated between measurements.

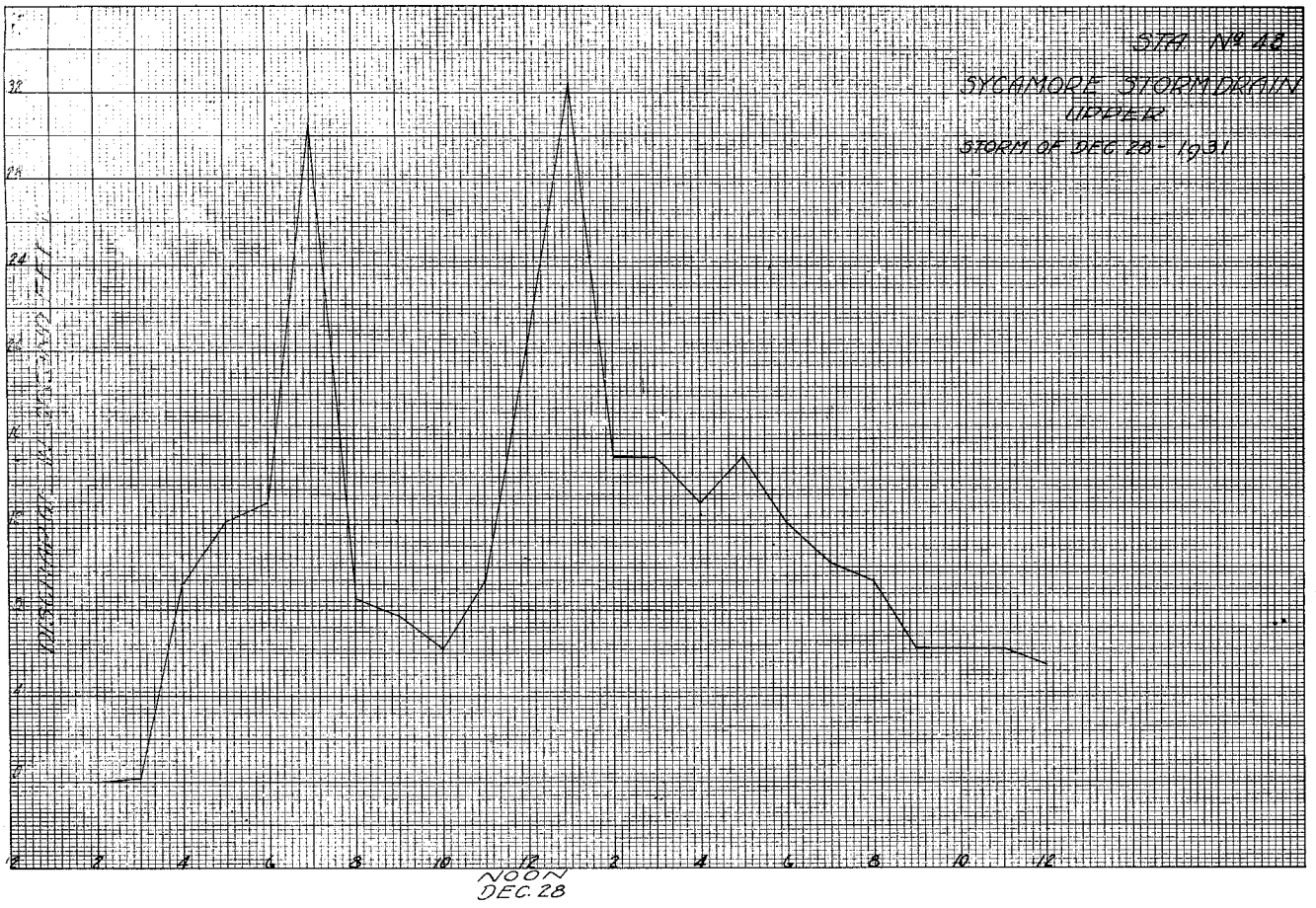
Day	Oct. Gage height	Oct. Discharge	Nov. Gage height	Nov. Discharge	Dec. Gage height	Dec. Discharge	Jan. Gage height	Jan. Discharge	Feb. Gage height	Feb. Discharge	Mar. Gage height	Mar. Discharge
1							0.10		0.31	5.49	0.27	2.97
2							H		0.29	4.14	0.26	2.47
3					DRY		Dry		0.28	3.53	0.26	2.47
4			DRY				"		0.27	2.97	0.26	2.47
5							"		0.26	2.47	0.26	2.47
6					Dry				H	1.90	0.26	2.47
7					"				0.21	0.72	0.25	2.02
8					0.15	0.15		DRY	H	10.78	0.25	2.02
9					0.07	0.07			H	11.74	0.25	2.02
10					0.01	0.01			0.38	11.13	0.25	2.02
11			Dry		0.13	0.13	Dry		0.32	6.21	0.24	1.62
12			Dry		Dry	Dry	"		0.25	2.02	0.24	1.62
13			Dry		"	"	H	0.16	H	2.56	0.23	1.27
14		DRY	0.11	0.11	0.13	0.13	Dry		0.30	4.80	0.23	1.27
15			0.17	0.21	0.06	0.06	H	1.14	0.30	4.80	0.23	1.27
16			0.01	0.01			0.05	0.05	0.35	8.55	0.22	0.97
17			Dry				Dry		0.34	7.74	0.22	0.97
18			Dry		DRY		"		0.30	4.80	0.22	0.97
19			Dry				"		0.30	4.80	0.21	0.72
20			Dry				"		0.29	4.14	0.21	0.72
21					0.16	0.17			0.29	4.14	0.21	0.72
22					0.06	0.06		DRY	0.29	4.14	0.20	0.52
23			DRY		0.01	0.01			0.28	3.53	0.20	0.52
24					Dry	Dry			0.28	3.53	0.20	0.52
25					H	3.04			0.28	3.53	0.19	0.38
26					0.07	0.07	Dry		0.27	2.97	0.19	0.38
27			0.20	0.52	Dry		"		0.27	2.97	0.19	0.38
28			0.01	0.01	H	10.86	"		0.27	2.97	0.19	0.38
29			Dry		0.12	0.12	"		0.27	2.97	0.19	0.38
30			Dry		0.03	0.03	"		-	-	0.19	0.38
31			-		0.21	0.72	H	4.22	-	-	0.19	0.38
TOTAL		0.00		0.86		15.63		5.94		136.04		39.74
Mean Daily Discharge in Second-feet		0.000		0.029		0.504		0.192		4.691		1.282
Second-feet per square mile		0.000		0.011		0.189		0.072		1.757		0.480
Run-off, depth in inches		0.000		0.012		0.218		0.083		1.895		0.554
Run-off in acre-feet		0.000		1.71		31.00		11.78		269.84		78.82
Maximum Mean Daily Discharge in Second-feet		0.0		0.52		10.86		4.22		11.74		2.97
Minimum Mean Daily Discharge in Second-feet		010		0.00		0.00		0.00		0.72		0.38

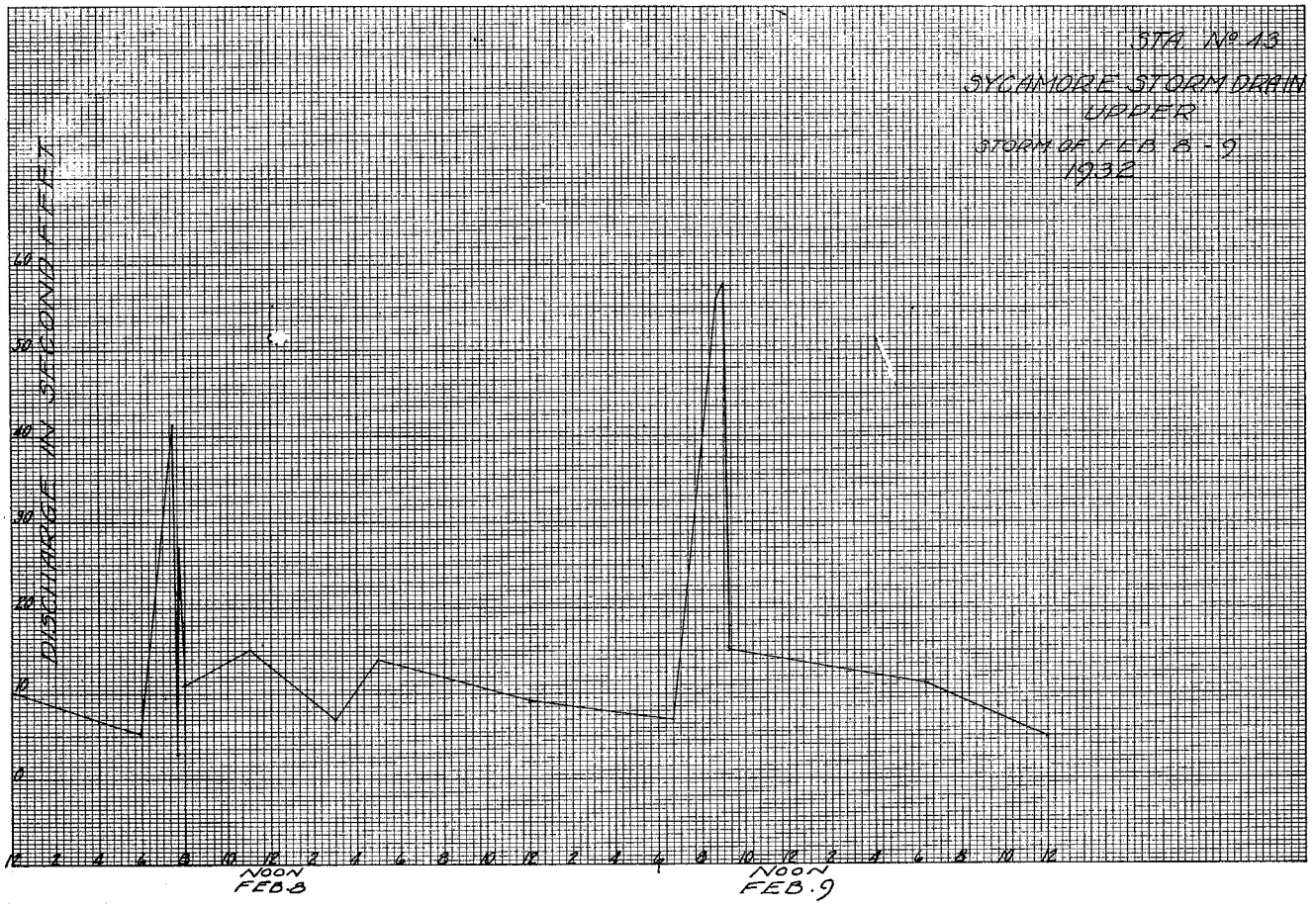
Day	Apr. Gage height	Apr. Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	Aug. Gage height	Aug. Discharge	Sept. Gage height	Sept. Discharge	Period Year
1	0.19	0.38		#0.10		#0.12		# .01					
2	0.19	0.38		#0.10		#0.13		.01					
3	0.19	0.38		#0.10		#0.13		# .01					
4	0.19	0.38		#0.09		0.14		# .01					
5	0.19	0.38		#0.09		#0.13		# .01					
6	0.19	0.38		#0.09		#0.12		# .01					
7		#0.35		0.09		#0.11		# .01					
8		#0.32		#0.09		#0.11		# .01					
9		#0.29		#0.09		#0.10		# .01					
10		#0.26		#0.09		#0.09		0					
11		#0.23		0.09		#0.08		0					
12		#0.20		#0.10		#0.07		0					
13		#0.17		#0.10		#0.06		0					
14		#0.14		0.11		#0.05		0					
15		#0.11		#0.11		#0.05		.00					
16		0.08		#0.11		#0.04		Dry		DRY		DRY	
17		#0.09		#0.11		#0.03							
18		#0.09		#0.10		0.02							
19		#0.10		#0.10		#0.02							
20		0.11		#0.10		#0.02							
21	RECORDER REMOVED	#0.12	RECORDER REMOVED	#0.10	RECORDER REMOVED	#0.02	RECORDER REMOVED						
22		#0.13		#0.10		#0.02		DRY					
23		#0.14		#0.10		#0.02							
24		#0.15		#0.10		#0.02							
25		0.16		#0.09		#0.02							
26		#0.13		#0.09		#0.02							
27		0.11		#0.09		#0.02		DRY					
28		#0.11		0.09		#0.02							
29		#0.11		#0.10		#0.01							
30		#0.10		#0.10		#0.01						(S)	
31	-	-		#0.11		-							
TOTAL		6.08		3.03		1.80		0.09		0		0	209.21′
Mean Daily Discharge in Second-feet		0.203		.097		0.06		0.003		0		0	
Second-feet per square mile		0.076		.036		0.022		0.001					
Run-off, depth in inches		0.085		0.042		.025							
Run-off in acre-feet		12.06		6.01		3.57		.18		0		0	415.0
Maximum Mean Daily Discharge in Second-feet		0.38		.11		0.14		.01					
Minimum Mean Daily Discharge in Second-feet		0.08		.09		.01		0					

#Interpolated Value

(s) Shower - No runoff

Quarter: First, Second, Third, Fourth — Computed OES OES OES, Checked, Date 6/28/32; Disch. applied OES OES OES, Disch. checked, Date 6/27/32; G. H. copied OES OES OES, G. H. checked, Date 6/27/32


STA. Nº 12
SYCAMORE STORM DRAIN
UPPER
STORM OF DEC 28 - 1931
DISCHARGE IN CUBIC FEET PER SECOND
32
28
24
20
16
12
8
4
0
2 4 6 8 10 12 2 4 6 8 10 12
NOON
DEC. 28


STA. Nº 13
SYCAMORE STORM DRAIN
UPPER
STORM OF FEB 8 - 9
1932
DISCHARGE IN CUBIC FEET PER SECOND
50
40
30
20
10
0
10 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12 2 4 6 8 10 12
NOON
FEB 8
NOON
FEB. 9

F-44 R

SYCAMORE STORM DRAIN LOWER STATION
ADAMS SQUARE - GLENDALE

Location
At Adams Square, Lower Chevy Chase Drive, Glendale, California.

Drainage Area
6.2 square miles.

Installed by
Los Angeles County Flood Control District
December 15, 1927.

Records Available
December 15, 1927 to September 30, 1932 at offices of the Los Angeles County Flood Control District, Los Angeles, California.

Gage
Stevens Type L Water stage register located in manhole of concrete drain in service station yard. One staff gage installed in stilling well, another on east wall of drain near inlets to stilling well.

Discharge Measurements
Made by wading near gage and by weir for 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 weir serving as control during low flows and as a sand trap during high flows.

Extremes of Discharge
1927-1928
Maximum-34 c.f.s. Feb. 3, 1928
Minimum-Dry most of year.
1928-1929
Maximum-904 c.f.s. November 14, 1928
Minimum-Dry most of year
1929-1930
Maximum-51.0 c.f.s. May 3, 1930
Minimum-Dry most of year
1930-1931
Maximum-212.c.f.s. February 3, 1931
Minimum-Dry most of year.
1931-1932
Maximum-191 c.f.s. Nov. 27, 1931
Minimum-Dry at various times during year

Diversion
None above gage.

Regulation
None

Accuracy
Fair

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

F.C. Dist. Form 104

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Discharge measurements of Sycamore Lower Storm Drain

at Adams Square---Glendale, during the year ending September 30, 1932

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	
	1931													
1	11-15	Bollinger	9.0	4.79	4.35	.66	20.72		.6		6	.04	1/4	FC 10
2	11-27	Bollinger-Bergman	9.0	2.85	3.64	.55	10.36		.6		7	.10	"	"
3	11-27	" "	9.0	3.52	3.68	.58	12.93		.6		6	.03	"	"
4	12-11	" Oron	7.5	1.35	1.29	.34	1.74		.6		5	.03	1/6	"
5	12-11	" "	7.5	1.20	1.27	.32	1.54		.6		5	.02	1/12	"
6	12-11	" "	7.0	1.09	1.23	.30	1.34		.6		5	.03	"	"
7	12-11	" "	9.0	2.43	4.22	.60	10.24		.6		8	.03	1/6	"
8	12-14	" "	9.0	1.91	3.11	.44	5.94		.6		6	.02	"	"
9	12-14	" "	8.0	1.94	3.39	.45	6.57		.6		6		"	"
10	12-14	" "	9.0	2.21	3.63	.60	8.06		.6		8	.03	"	"
	1932													
11	4-16	Bollinger				.12	.14		Weir					
12	4-20	"				.08	.08		Weir					
13	4-25	"				.16	.16		Weir					
14	4-27	"				.09	.05		Weir					
15	5-7	"				.11	.08		Weir					
16	5-14	"				.14	.11		Weir					
17	5-28	"				.09	.09		Weir					
18	6-4	"				.11	.12		Weir					
19	6-18	"				.5	.02		Weir					

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 44

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SYCAMORE, LOWER STORM DRAIN

At ADAMS SQUARE, GLENDALE for the Year Ending September 30, 1932

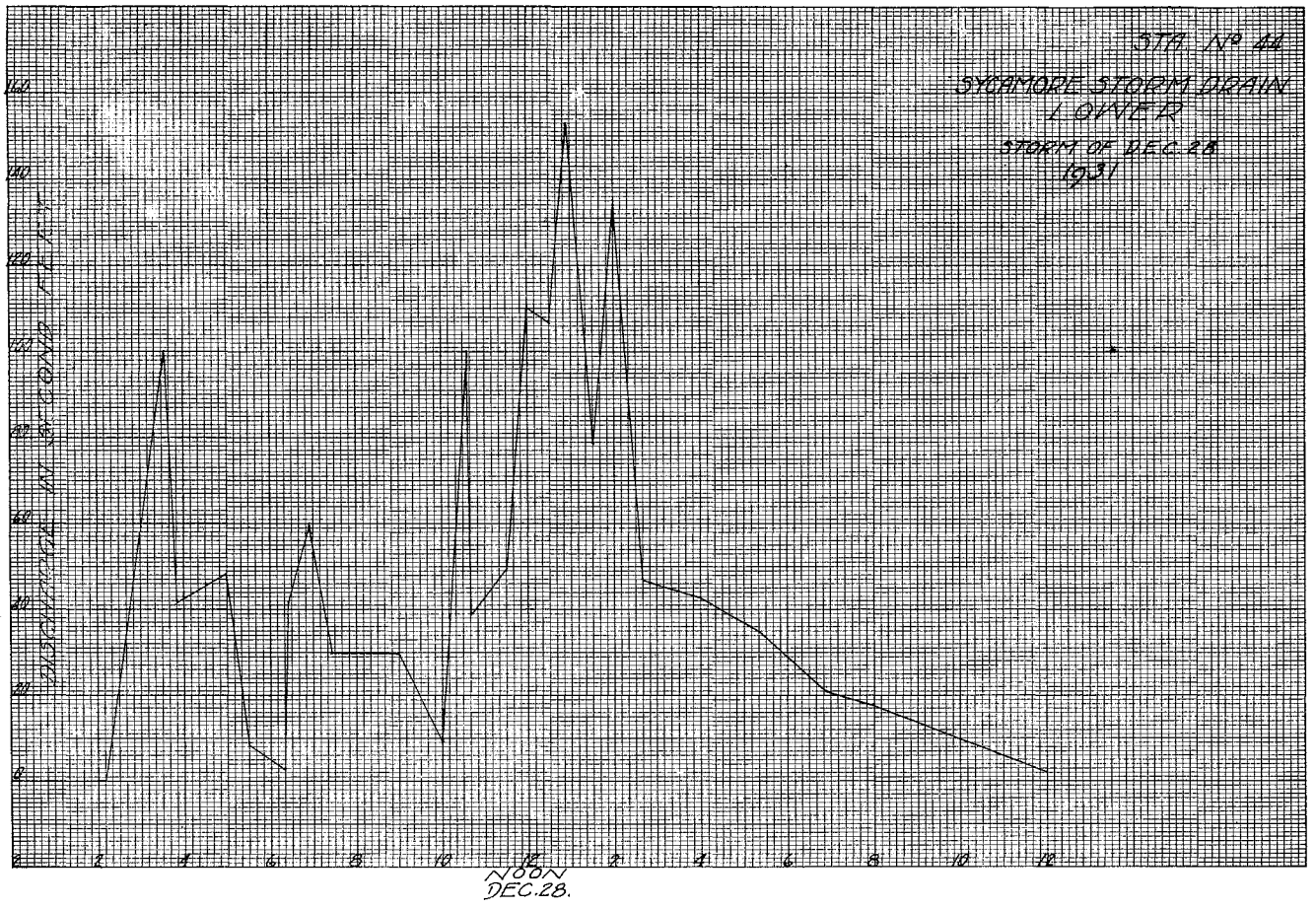
Drainage Area 6.2 Square Miles. [C. E. BOLLINGER Observer.] Gage Read Continuously Used rating table dated 10-1-31 to 9-30-32

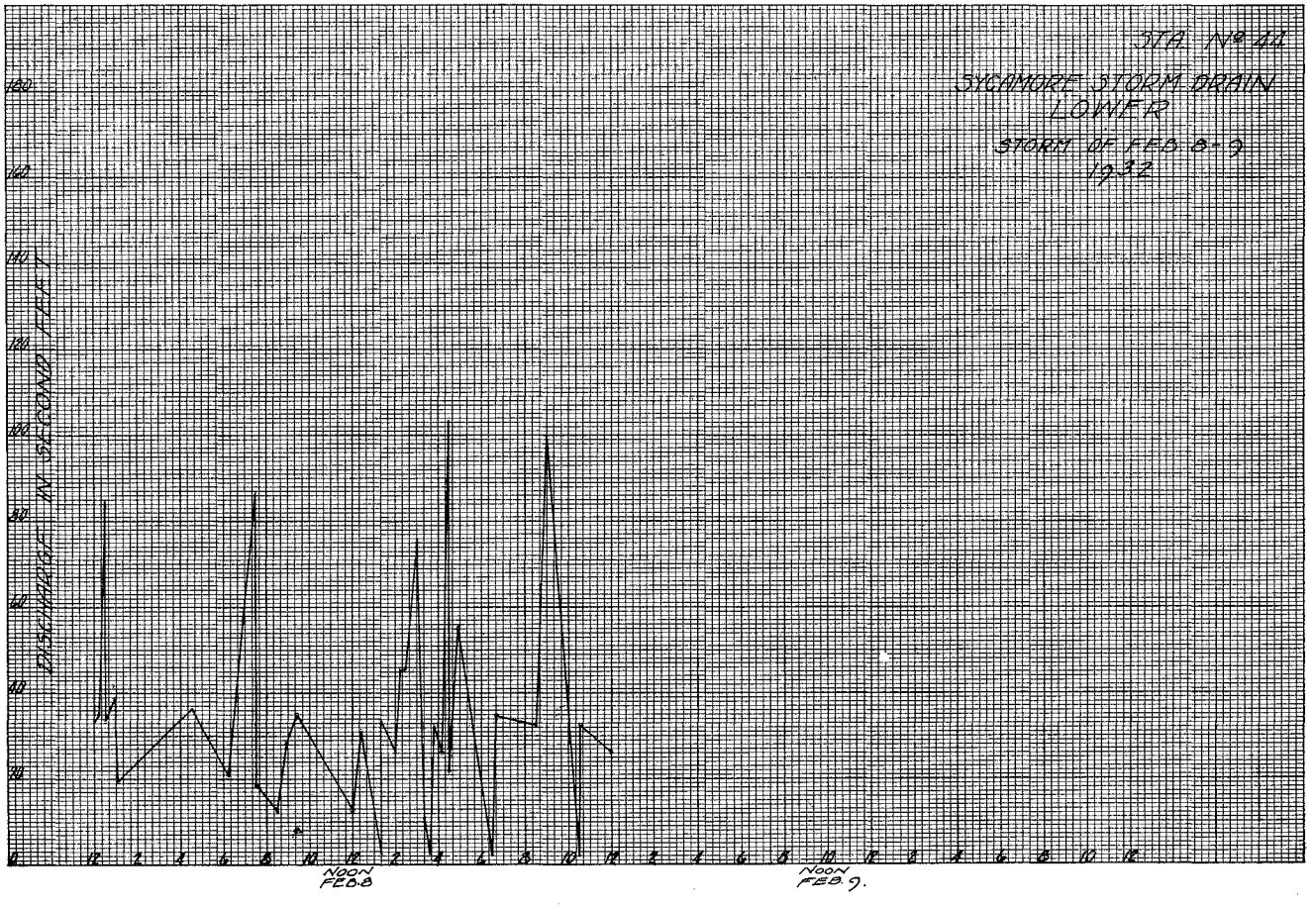
Maximum stage 1.60 feet at 6:20 AM on Nov. 27, 1931 Discharge 190.90 second-feet.
Minimum stage feet at on Discharge second-feet.
Dry at various times during the year
Adjustments have been applied to all gage heights.
+ Interpolated Values

DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1							.10	.10	H	9.81	.19	.49
2							H	3.15	.29	1.84	.19	.49
3									.24	1.04	.19	.49
4						DRY			.23	.91	.18	.41
5									.22	.79	.18	.41
6									H	1.71	.18	.41
7				DRY					H	1.26	.18	.41
8					H	14.47			H	32.52	.18	.41
9					.18	.41		DRY	H	25.19	.19	.49
10					.01	.01			.35	3.64	.19	.49
11					H	5.58			.27	1.49	.19	.49
12						Dry	H	.60	.20	.58	.19	.49
13						"	H	2.30	H	3.81	+.19	.49
14		DRY	.01	.01	H	9.15		Dry	H	3.74	+.19	.49
15			H	8.34	.04	.04	H	6.09	.26	1.33	.23	.91
16							.08	.08	H	30.33	+.18	.41
17									.35	3.64	+.17	.34
18	.15	.23				DRY			.30	2.03	+.17	.34
19	.08	.08							.28	1.66	.17	.34
20				DRY					.25	1.18	.16	.28
21					H'	9.76			.24	1.04	.16	.28
22					.13	.10		DRY	.24	1.04	.16	.28
23					.10	.10			.23	.91	.16	.28
24		DRY			.01	.01			.22	.79	.16	.28
25					H	13.55			.21	.68	.16	.28
26					.12	.14			.21	.68	.16	.28
27			H	10.05	.04	.04	.17	.34	.20	.58	.15	.23
28			.01	.01	H	35.14		Dry	.20	.58	.15	.23
29				Dry	.16	.28		"	.20	.58	.15	.23
30				"	Dry	Dry		"	–	–	.15	.23
31			–	–	H	2.12	H	26.45	–	–	.15	.23
TOTAL,		0.31		18.41		90.90		39.11		135.38		11.91
Mean Daily Discharge in Second-feet		0.01		0.614		2.93		1.262		4.67		0.384
Second-feet per square mile		.001		0.099		.473		0.204		.754		0.060
Run-off, depth in inches		.001		0.111		0.565		0.235		0.802		0.072
Run-off in acre-feet		0.61		36.52		180.30		77.57		268.53		23.62
Maximum Mean Daily Discharge in Second-feet		0.23		10.05		35.14		26.45		32.52		0.91
Minimum Mean Daily Discharge in Second-feet		0.00		0.00		0.00		0.00		0.58		0.23

DAY	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period Year
1	.15	.23	.06	.06	.08	.08							
2	.15	.23	.07	.07	.09	.09							
3	.15	.23	.07	.07	.13	.16							
4	.15	.23	.07	.07	.15	.23							
5	.14	.19	.08	.08	.07	.07							
6	.14	.19	.08	.08	.06	.06							
7	.14	.19	.08	.08	.05	.05							
8	.14	.19	.09	.09	.06	.06							
9	.14	.19	.09	.09	.06	.06							
10	.14	.19	.09	.09	.05	.05							
11	.13	.16	.10	.10	.03	.03							
12	.13	.16	.10	.10	.02	.02							
13	.13	.16	.10	.10	.04	.04							
14	.13	.16	.11	.12	.03	.03		DRY		DRY		DRY	
15	.12	.14	.10	.10	.03	.03							
16	.12	.14	.10	.10	.02	.02							
17	.12	.14	.11	.12	.02	.02							
18	.11	.12	.10	.10	.02	.02							
19	.11	.12	.10	.10		+ .02							
20	.10	.10	.10	.10		+ .02							
21	.09	.09	.10	.10		+ .02							
22	.09	.09	.10	.10		+ .02							
23	.08	.08	.10	.10		+ .02							
24	.08	.08	.10	.10		+ .01							
25	.15	.23	.09	.09		+ .01							
26	H	3.56	.10	.10		+ .01							
27	.05	.05	.10	.10		+ .01							
28	.05	.05	.09	.09		+ .01							
29	.05	.05	.08	.08		0					.06	.06	
30	.05	.05	.07	.07		0						Dry	
31	–	–	.07	.07	–	–					–	–	
TOTAL,		7.79		2.82		1.27		0		0		.06	
Mean Daily Discharge in Second-feet		0.260		0.091		.04						.002	
Second-feet per square mile		0.042		0.015		.006						0	
Run-off, depth in inches		0.047		0.017		.0067							
Run-off in acre-feet		15.451		5.59		2.52						.004	610.72
Maximum Mean Daily Discharge in Second-feet		3.56		0.12		.23						.06	
Minimum Mean Daily Discharge in Second-feet		0.05		.06		0						0	

Quarter: First, Second, Third, Fourth — G. H. copied / Computed / Checked / Date: OES OES OES J.S.L. 6/24/32; Disch. applied / Disch. checked / Date: OES OES OES 6/23/32; G. H. copied / G. H. checked / Date: OES OES OES 6/23/32


STA. Nº 44
SYCAMORE STORM DRAIN
& OLIVE RD
STORM OF DEC. 28
1931
DISCHARGE IN SECOND FEET
160
140
120
100
80
60
40
20
0
2
4
6
8
10
12
2
4
6
8
10
12
NOON
DEC. 28.


STA. Nº 44
SYCAMORE STORM DRAIN
LOWE RD
STORM OF FEB. 8-9
1932
DISCHARGE IN SECOND FEET
160
140
120
100
80
60
40
20
0
12
2
4
6
8
10
12
2
4
6
8
10
12
2
4
6
8
10
12
NOON
FEB. 8
NOON
FEB. 9.

F-54-R

TOPANGA CREEK AT HIGHWAY BRIDGE
2 MILES ABOVE MOUTH.

Location
On Topanga Canyon Highway bridge about 2 miles from ocean, about 6 miles northwest of Santa Monica, Los Angeles County, California.

Drainage Area
18 square miles.

Installed by
Los Angeles County Flood Control District.
January 1, 1930.

Records Available
January 1, 1930 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
An continuous water stage recorder located in small shelter house on top of corrugated iron stilling well at west wing wall of bridge.

Discharge Measurements
High water measurements are made from cable located 450 feet above recorder.
Low water measurements made by wading, near gage

Channel and Control
Rocky and full of boulders. No control.

Extremes of Discharge
1929-1930
Maximum-340 c.f.s. March 14, and 15, 1930.
Minimum-.01 c.f.s. at various times of year.
1930-1931
Maximum-386 c.f.s. February 4, 1931
Minimum-.01 c.f.s. at various times of year.
1931-1932
Maximum-1250 c.f.s. February 8
Minimum-.02 c.f.s. at various times of year.

Diversions
None

Regulation
None

Accuracy
Fair

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

F. C. Dist. Form 184 IH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 54

Discharge measurements of TOPANGA CREEK AT HIGHWAY BRIDGE

~~at~~ 2 Miles Above Mouth, during the year ending September 30, 19 32

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	
	1932													
25	2/12	Meunier	13.	16.6	1.41	2.33	23.4		.6		6		1/4	271 588
26	2/16	Meunier-Girovard	23	29.3	1.73	2.33	50.6		.6		7		1/6	"
27	2/18	Meunier	12	14.2	1.12	1.91	15.88		.6		5		1/3	"
28	2/25	"	10	7.7	0.66	1.70	5.07		"		4		1/4	"
29	3/3	"	10	8.0	0.32	1.63	2.6		Float					
30	3/11	"	8.3	6.7	0.17	1.55	1.11		.6		5		1/2	"
31	3/17	"	1.5	0.82	1.50	1.51	1.24		Float		1.			
32	3/24	"	1.5	0.45	1.51	1.43	0.68		"		1.			
33	3/31	"	1.5	0.60	1.13	1.39	0.68		"		1.			
34	4/7	"	1.1	0.33	1.0	1.37	0.32		"					
35	4/14	"	1.0	0.30	1.0	1.32	0.30		"					
36	4/21	"	1.2	0.13	0.85	1.30	0.11		"		1.			
37	4/26	"	1.5	3.38	1.42	1.40	4.80		"					
38	4/28	"	1.0	0.18	1.10	1.33	0.20		"		1.			
39	5/5	"	1.1	0.20	1.0	1.28	0.21		"		1.			
40	5/12	"	1.0	0.12	1.08	1.27	0.13		"		1.			
41	5/19	Hardgrove				1.25	0.23		Weir					
42	5/26	"				0.75	0.07		"					
43	6/3	"				0.76	0.07		"					
44	6/10	"				0.73	0.12		"					
45	6/17	"				0.73	0.06		"					
46	6/24	"				0.73	0.06		"					
47	7/1	"				0.72	0.06		"					
48	7/6	"				0.73	0.06		"					
49	7/16	"				0.69	0.04		"					
50	7/22	"				0.69	0.03		"					

F. C. Dist. Form 184 IH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 54

Discharge measurements of TOPANGA CREEK AT HIGHWAY BRIDGE

~~at~~ 2 Miles Above Mouth, during the year ending September 30, 19 32

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	
	1931													
1	11/27	Meunier-Laverty	18.	8.58	1.19	1.67	10.2		.6		9		1/3	271 588
2	12/4	"	1.5	0.12	0.68	1.38	.82		Float					
3	12/8	" Crom	1.6	0.40	2.72	1.48	1.09		"		1.0			
3a	12/9	" "	3.6	1.26	2.72	1.50	3.43		"		1.0			
4	12/11	"	3.7	1.00	1.60	1.53	1.69		"		1.0			
5	12/14	"	2.9	1.48	3.40	1.60	5.05		"		1.0			
6	12/18	"	1.9	0.59	0.47	1.49	0.23		"		1.0			
7	12/21	Meunier-Nesbit	18.6	7.74	1.03	1.80	7.95		.6		9		1/4	271 588
8	12/21	" "	18.0	4.73	0.78	1.64	3.68		"		8	.01	1/3	"
9	12/21	" "	12.5	4.89	0.66	1.63	3.22		"		5		1/4	"
10	12/21	" "	9.5	5.16	0.80	1.64	4.15		"		6		1/2	"
11	12/26	"	10.6	5.43	1.08	1.94	5.87		"		6		1/3	"
12	12/28	Meunier-Girovard	20.	23.1	2.39	2.61	55.2		"		9		1/4	"
13	12/28	" "	35	52.5	3.87	4.10	202.		Float					
14	12/31	"	13.2	4.50	0.97	1.88	4.36		.6		7		1/6	271 588
	1932													
15	1/8	Meunier	2.0	0.70	2.72	1.68	1.90		Float					
16	1/15	Meunier-Girovard	10.4	3.73	1.03	1.80	4.97		.6		6		1/4	271 588
17	1/22	"	4.3	2.18	0.66	1.60	1.40		"		3		"	"
18	1/29	"	1.7	0.34	1.7	1.59	0.58		Float					
19	1/31	Meunier-Girovard	30.	48.	3.55	3.90	170		Estimate					
20	2/2	" "	20.	22.4	1.95	2.70	43.7		.6		9		1/6	271 588
21	2/2	" "	20.	22.8	1.99	2.70	45.4		"		10		1/12	"
22	2/4	"	13.	11.8	1.0	2.08	11.9		"		9		1/3	"
23	2/8	Meunier-Girovard	38	72.4	7.12	3.85	515.		Float					
24	2/8	" "	43	137.	7.92	5.22	1085.		"					

F. C. Dist. Form 184 IH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 54

Discharge measurements of TOPANGA CREEK AT HIGHWAY BRIDGE

~~at~~ 2 Miles above Mouth, during the year ending September 30, 19 32

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	
51	7/30	Hardgrove				0.68	0.04		Weir					
52	8/5	"				0.69	0.04		"					
53	8/13	"				0.69	0.03							
54	8/25	"				0.69	0.04		"					
55	9/1	"				0.68	0.04		"					
56	9/16	"				0.68	0.03		"					
57	9/23	"				0.68	0.04		"					
58	9/29	J. L. Irwin				0.67	0.18		"					

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 54

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

2 miles above mouth for the Year Ending September 30, 1932

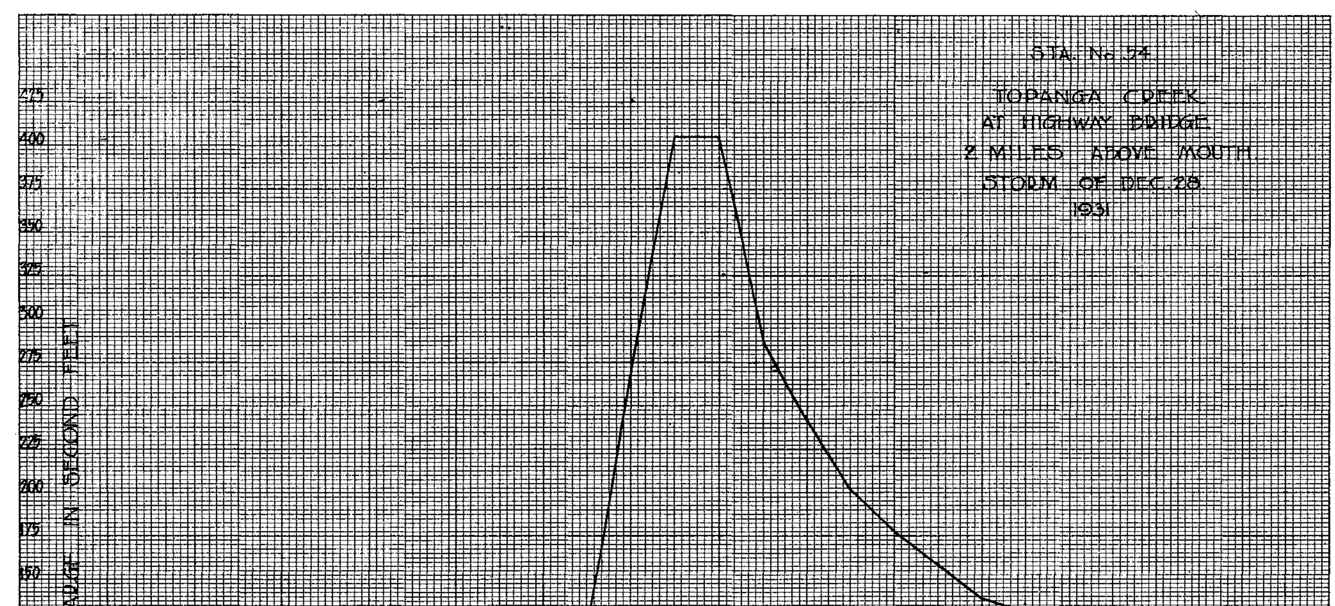
Drainage Area 18 Square Miles. [O. H. Meunier Observer.] Gage Read CONTINUOUS Used rating table dated Oct. 1, 1931

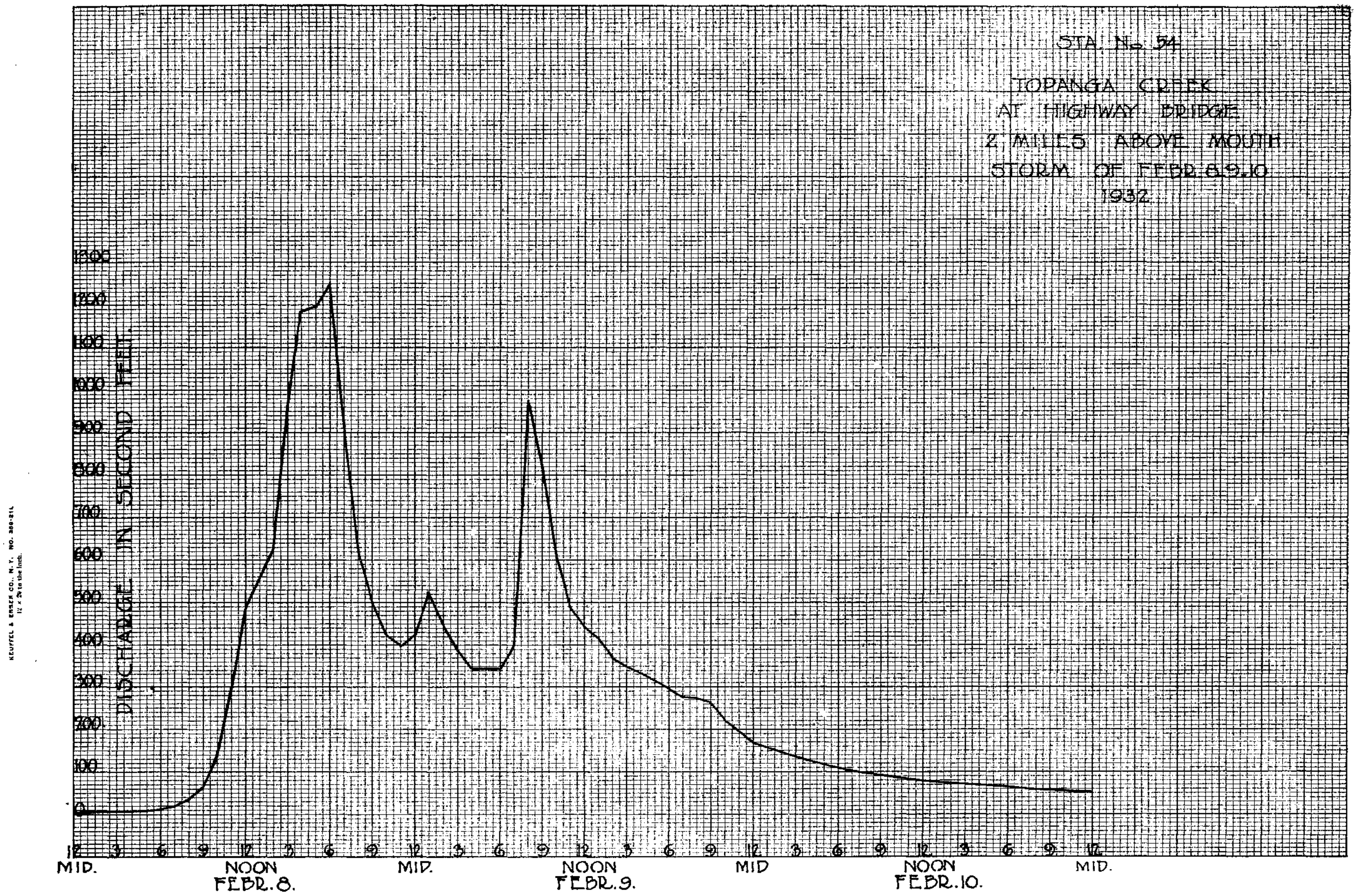
Maximum stage 5.40 feet at 6 PM on Feb. 3 — Discharge 1250.00 second-feet.
Minimum stage 1.31 feet at Various times of year — Discharge .02 second-feet.
Adjustment curve used on gage heights

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	1.31	.02	1.33	.06	1.52	1.30	1.72	4.40	H	99.02	1.63	2.95
2	1.31	.02	1.33	.06	1.50	1.00	1.79	5.80	2.48	39.40	1.62	2.80
3	1.31	.02	1.33	.06	1.48	.84	1.77	5.40	2.14	18.50	1.60	2.50
4	1.31	.02	1.32	.04	1.47	.76	1.74	4.80	2.00	12.50	1.60	2.50
5	1.31	.02	1.32	.04	1.47	.76	1.68	3.70	1.90	9.00	1.59	2.35
6	1.31	.02	1.32	.04	1.48	.84	1.62	2.80	1.83	6.90	1.57	2.05
7	1.32	.04	1.31	.02	1.48	.84	1.58	2.20	1.78	5.60	1.55	1.75
8	1.33	.06	1.31	.02	1.50	1.00	1.57	2.05	H	409.1	1.53	1.45
9	1.34	.08	1.31	.02	1.64	3.10	1.57	2.05	H	405.7	1.52	1.30
10	1.34	.08	1.31	.02	1.56	1.90	1.56	1.90	H	89.8	1.51	1.15
11	1.33	.06	1.31	.02	1.48	.84	1.56	1.90	2.46	37.80	1.50	1.00
12	1.33	.06	1.31	.02	1.54	1.60	1.56	1.90	2.25	24.25	1.51	1.15
13	1.32	.04	1.31	.02	1.60	2.50	1.56	1.90	2.12	17.50	1.51	1.15
14	1.32	.04	1.31	.02	1.70	4.00	1.56	1.90	2.09	16.10	1.51	1.15
15	1.31	.02	1.31	.02	1.64	3.10	1.67	3.55	2.13	18.00	1.51	1.15
16	1.31	.02	1.31	.02	1.56	1.90	1.71	4.20	2.45	37.00	1.50	1.00
17	1.31	.02	1.31	.02	1.49	.92	1.66	3.40	2.32	28.20	1.51	1.15
18	1.31	.02	1.31	.02	1.40	.20	1.64	3.10	2.09	16.10	1.49	.92
19	1.31	.02	1.31	.02	1.44	.52	1.60	2.50	2.01	12.90	1.48	.84
20	1.31	.02	1.31	.02	1.48	.84	1.57	2.05	1.93	10.05	1.48	.84
21	1.32	.04	1.32	.04	1.68	3.70	1.56	1.90	1.89	8.70	1.48	.84
22	1.32	.04	1.33	.06	1.54	1.60	1.53	1.45	1.85	7.50	1.47	.76
23	1.33	.06	1.33	.06	1.48	.84	1.52	1.30	1.82	6.60	1.46	.68
24	1.33	.06	1.34	.08	1.42	.36	1.51	1.15	1.78	5.60	1.45	.60
25	1.33	.06	1.34	.08	H	16.49	1.48	.84	1.74	4.80	1.44	.52
26	1.33	.06	1.58	2.20	1.81	6.30	1.46	.68	1.71	4.20	1.44	.52
27	1.32	.04	H	8.83	1.68	3.70	1.46	.68	1.68	3.70	1.43	.44
28	1.32	.04	1.58	2.20	H	127.08	1.46	.68	1.66	3.40	1.43	.44
29	1.33	.06	1.55	1.75	2.39	32.40	1.45	.60	1.66	3.40	1.43	.44
30	1.34	.08	1.55	1.75	1.84	7.20	1.44	.52	-	-	1.43	.44
31	1.33	.06	-	-	1.73	4.60	H	63.98	-	-	1.44	.52
TOTAL,		1.30		17.63		233.03		135.28		1361.42		37.35
Mean Daily Discharge in Second-feet		.04		.59		7.52		4.36		46.36		1.20
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		2.57		34.96		462.10		268.26		2699.70		74.07
Maximum Mean Daily Discharge in Second-feet		.08		8.83		127.08		63.98		409.12		2.95
Minimum Mean Daily Discharge in Second-feet		.02		.02		.20		.52		3.40		.44

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1	1.43	.44	1.42	.36	1.33	.06	1.33	.06	1.32	.04	1.31	.02	
2	1.44	.52	1.41	.28	1.33	.06	1.33	.06	1.32	.04	1.31	.02	
3	1.42	.36	1.41	.28	1.34	.08	1.33	.06	1.31	.02	1.31	.02	
4	1.44	.52	1.42	.36	1.34	.08	1.33	.06	1.31	.02	1.31	.02	
5	1.45	.60	1.39	.18	1.34	.08	1.33	.06	1.31	.02	1.31	.02	
6	1.44	.52	1.39	.18	1.34	.08	1.32	.04	1.31	.02	1.31	.02	
7	1.42	.36	1.39	.18	1.35	.10	1.31	.02	1.31	.02	1.31	.02	
8	1.41	.28	1.40	.20	1.35	.10	1.32	.04	1.31	.02	1.31	.02	
9	1.42	.36	1.36	.12	1.36	.12	1.32	.04	1.31	.02	1.31	.02	
10	1.40	.20	1.35	.10	1.36	.12	1.32	.04	1.31	.02	1.31	.02	
11	1.41	.28	1.34	.08	1.36	.12	1.32	.04	1.31	.02	1.31	.02	
12	1.40	.20	1.36	.12	1.35	.10	1.32	.04	1.31	.02	1.31	.02	
13	1.40	.20	1.36	.12	1.35	.10	1.33	.06	1.31	.02	1.31	.02	
14	1.41	.28	1.35	.10	1.34	.08	1.33	.06	1.31	.02	1.31	.02	
15	1.40	.20	1.35	.10	1.33	.06	1.34	.08	1.31	.02	1.31	.02	
16	1.39	.18	1.35	.10	1.33	.06	1.33	.06	1.31	.02	1.31	.02	
17	1.38	.16	1.36	.12	1.33	.06	1.34	.08	1.31	.02	1.31	.02	
18	1.38	.16	1.37	.14	1.33	.06	1.33	.06	1.31	.02	1.31	.02	
19	1.37	.14	1.38	.16	1.33	.06	1.33	.06	1.31	.02	1.32	.04	
20	1.36	.12	1.37	.14	1.33	.06	1.33	.06	1.31	.02	1.32	.04	
21	1.35	.10	1.35	.10	1.33	.06	1.33	.06	1.31	.02	1.32	.04	
22	1.34	.08	1.35	.10	1.33	.06	1.33	.06	1.31	.02	1.31	.02	
23	1.34	.08	1.34	.08	1.33	.06	1.33	.06	1.31	.02	1.31	.02	
24	1.34	.08	1.33	.06	1.33	.06	1.34	.08	1.31	.02	1.31	.02	
25	1.36	.10	1.33	.06	1.33	.06	1.32	.04	1.31	.02	1.31	.02	
26	1.74	4.80	1.33	.06	1.33	.06	1.32	.04	1.31	.02	1.31	.02	
27	1.44	.52	1.33	.06	1.33	.06	1.32	.04	1.32	.04	1.31	.02	
28	1.40	.20	1.33	.06	1.33	.06	1.32	.04	1.32	.04	1.31	.02	
29	1.42	.36	1.33	.06	1.33	.06	1.32	.04	1.32	.04	1.39	.18	
30	1.43	.44	1.33	.06	1.33	.06	1.32	.04	1.32	.04	1.39	.18	
31	-	-	1.33	.06	-	-	1.33	.06	1.33	.06	-	-	
TOTAL,		12.84		4.18		2.24		1.64		.78		.98	
Mean Daily Discharge in Second-feet		.43		.13		.07		.05		.02		.03	
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		25.46		8.29		4.44		3.25		1.55		1.94	3586.59
Maximum Mean Daily Discharge in Second-feet		4.80		.36		.12		.08		.06		.18	
Minimum Mean Daily Discharge in Second-feet		.08		.06		.06		.02		.02		.02	

Fourth WTK / Third / Second HAV / First / Quarter — Computed, Checked, Date
Fourth / Third / Second HAV / First / Quarter — Disch. applied, Disch. checked, Date
Fourth / Third / Second HAV / First / Quarter — G. H. copied, G. H. checked, Date





F-9 R

VERDUGO STORM DRAIN AT GLEN OAKS BOULEVARD, GLENDALE.

Location
On Glen Oaks Boulevard Bridge spanning Verdugo Wash, in 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, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California.

Gage
Staff gage on downstream side of bridge on North side of concrete channel at lower end of pier. A groove is cut in the concrete floor from the lowest point in the channel to the gage in order to obtain a reading at low flows. Stevens type L, 8 day water stage recorder installed in small wooden house on top of corrugated iron pipe stilling well.

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 very good.

Extremes of Discharge
1928-1929
Maximum-55.5 c.f.s. April 4, 1929
Minimum-Dry at various times during year.
1929-1930
Maximum-80.43 c.f.s. May 3, 1930
Minimum-Dry at various times during year.
1930-1931
Maximum-46.15 c.f.s. April 26, 1931
Minimum-.01 c.f.s. at various times during year.
1931-1932
Maximum-145 c.f.s. Feb. 9, 1932
Minimum-0.01 c.f.s. at various times

Regulation
None.

Diversions
Verdugo Canyon Water Company diverts low flow about 1 mile above gage.

Accuracy
Good

Operation
Located and Constructed by the Los Angeles County Flood Control District and operated by the Los Angeles County Flood District in conjunction with U.S.G.S. Water Resources Branch.

Discharge measurements of Verdugo Storm Drain

at Glen Oaks Blvd.--Glendale, during the year ending September 30, 1932.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. sect.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271
1	11-15	C. E. Bollinger	8.5	1.09	6.25	0.17	6.81		.6		5		1/6	650
2	12-14	Bollinger-Cron	9.0	1.02	6.00	.18	6.10		.6		7		1/6	"
3	12-21	" "	9.8	1.00	6.04	.17	6.04		.6		4		1/6	"
4	12-21	" "	9.8	.98	5.82	.17	5.71		.6		5		1/12	"
5	12-28	" "	10.4	1.61	4.98	.21	8.02		.6		7		1/6	"
6	1932 1-27	C. E. Bollinger	3.4	.17	1.06	.04	.18		Fl.		6			
7	2-8	Bollinger-Moore	12.5	2.29	6.65	.22	15.23		.6		10		1/6	271 650
8	3-11	" "	3.6	.34	.94	.38	.32		.6		5		1/12	"
9	3-18	" "	2.6	.22	1.50	.13	.33		.6		5		1/12	"
10	4-15	C. E. Bollinger	2.7	.11	2.18	.06	.24		Fl.		4			
11	4-23	"	2.3	.21	1.48	.08	.31		Fl.		5			
12	6-3	"	2.4	.16	1.44	.07	.23		Fl.		5		1/12	
13	6-18	"	1.8	.09	1.67	.07	.15		Fl.		4		1/12	
14	6-30	"	1.7	.12	.83	.07	.10		Fl.		2		1/12	
15	7-21	Luce	4.0	.13	.20	.05	.27		.6		4		1/12	FC 13
16	8-6	C. E. Bollinger	4.0	.25	1.92	.08	.48		Fl.		6		1/12	
17	8-12	"	3.1	.18	2.00	.04	.36		Fl.		6		1/12	
18	8-19	"	3.6	.27	2.81	.07	.76		Fl.		7		1/12	
19	8-26	"	3.6	.25	2.42	.06	.61		Fl.		6		1/12	
20	9-2	"	3.6	.28	2.00	.06	.56		Fl.		7		1/12	
21	9-16	"	2.8	.08	1.25	.01	.10		Fl.		4		1/12	

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 9

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of VERDUGO STORM DRAIN

At Glen Oaks Blvd. Bridge, Glendale **for the Year Ending September 30, 19**32

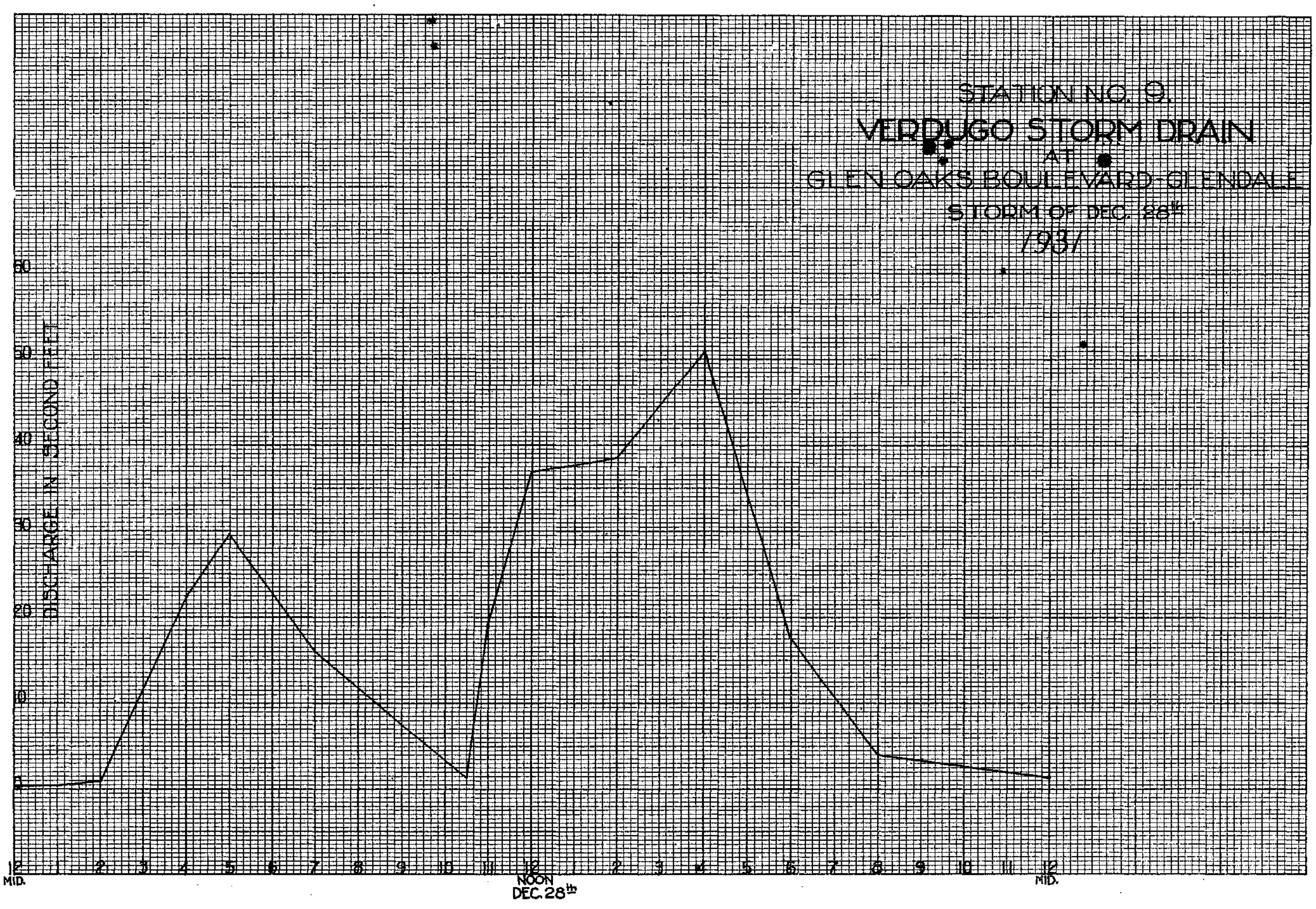
Drainage Area 22.50 Square Miles. [C. E. BOLLINGER Observer.] Gage Read Continuous Used rating table dated Oct.1,1931-9-30-32

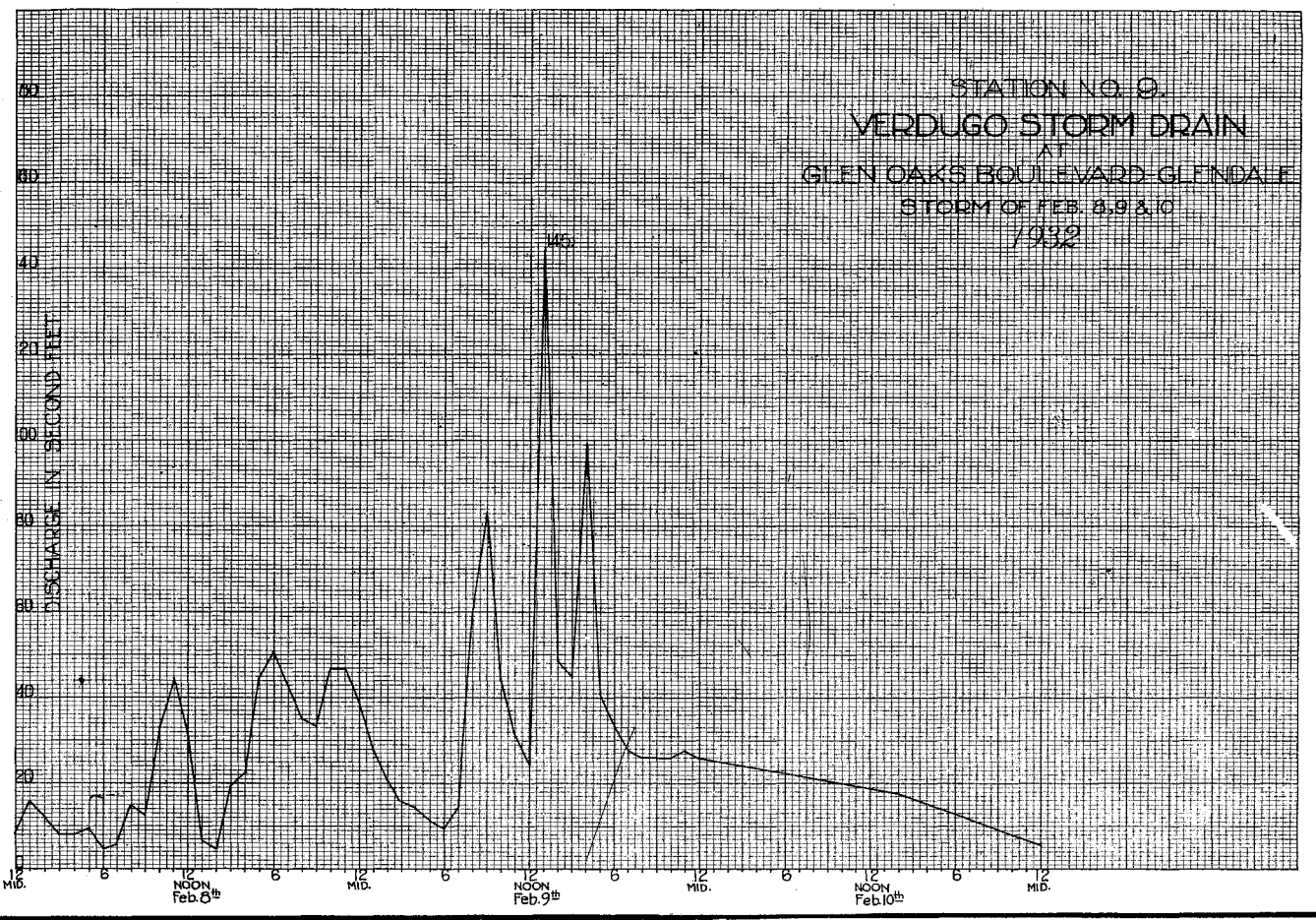
Maximum stage 0.78 feet at 1:00 PM on Feb. 5, 1932 Discharge 145.00 second-feet.
Minimum stage .01 feet at — on various times Discharge .01 second-feet.
adjustment curve used on gage heights.

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1	.02	.20	.02	.20	.03	.30	.04	.40	.20	11.20	.03	.30
2	.02	.20	.02	.20	.03	.30	.07	.90	.12	2.80	.11	2.20
3	.02	.20	.02	.20	.03	.30	.06	.70	.10	1.80	.16	5.60
4	.02	.20	.03	.30	.03	.30	.06	.70	.08	1.10	.14	4.00
5	.02	.20	.03	.30	.03	.30	.05	.50	.05	.50	.11	2.20
6	.02	.20	.03	.30	.03	.30	.05	.50	.07	.90	.09	1.40
7	.02	.20	.03	.30	.03	.30	.06	.70	.12	2.80	.07	.90
8	.02	.20	.03	.30	H	3.23	.05	.50	H	23.91	.06	.70
9	.02	.20	.03	.30	.07	.90	.03	.30	H	38.96	.02	.20
10	.02	.20	.06	.70	.03	.30	.02	.20	.23	16.00	.02	.20
11	.02	.20	.06	.70	.07	.90	.02	.20	.19	9.60	.02	.20
12	.02	.20	.05	.50	.03	.30	.03	.30	.19	9.60	.04	.40
13	.02	.20	.05	.50	.03	.30	.05	.50	.15	4.80	.06	.70
14	.02	.20	.05	.50	H	4.00	.02	.20	.25	19.20	.08	1.10
15	.02	.20	.20	11.20	.05	.50	.08	1.10	.12	2.80	.10	1.80
16	.02	.20	.08	1.10	.03	.30	.05	.50	.19	9.60	.04	.40
17	.02	.20	.05	.50	.03	.30	.05	.50	.10	1.80	.01	.10
18	.02	.20	.05	.50	.03	.30	.04	.40	.08	1.10	.01	.10
19	.02	.20	.05	.50	.03	.30	.04	.40	.06	.70	.02	.20
20	.02	.20	.05	.50	.03	.30	.05	.50	.07	.90	.04	.40
21	.02	.20	.05	.50	.09	1.40	.06	.70	.08	1.10	.02	.20
22	.02	.20	.05	.50	.03	.30	.05	.50	.06	.70	.02	.20
23	.02	.20	.05	.50	.03	.30	.03	.30	.05	.50	.02	.20
24	.02	.20	.05	.50	.03	.30	.02	.20	.04	.40	.03	.30
25	.02	.20	.05	.50	H	5.25	.02	.20	.04	.40	.03	.30
26	.02	.20	.05	.50	.03	.30	.02	.20	.03	.30	.02	.20
27	.02	.20	H	12.80	.03	.30	.05	.50	.02	.20	.02	.20
28	.02	.20	.06	.70	H	17.71	.03	.30	.02	.20	.02	.20
29	.02	.20	.05	.50	.05	.50	.03	.30	.02	.20	.11	2.20
30	.02	.20	.04	.40	.04	.40	.03	.30	–	–	.08	1.10
31	.02	.20	–	–	.05	.50	H	17.38	–	–	.04	.40
TOTAL		6.20		37.00		41.29		30.88		164.07		28.60
Mean Daily Discharge in Second-feet		.20		1.23		1.33		1.00		5.66		.92
Second-feet per square mile		.009		.054		.058		.044		.249		.040
Run-off, depth in inches												
Run-off in acre-feet		12.30		73.39		81.90		61.25		325.43		56.73
Maximum Mean Daily Discharge in Second-feet		.20		12.80		17.71		17.38		38.96		5.60
Minimum Mean Daily Discharge in Second-feet		.20		.20		.30		.20		.20		.10

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1	.02	.20	.01	.10	.01	.10	.01	.10	.02	.20	.03	.30	
2	.02	.20	.01	.10	.01	.10	.03	.30	.03	.30	.05	.50	
3	.02	.20	.01	.10	.01	.10	.02	.20	.03	.30	.03	.30	
4	.02	.20	.02	.20	.04	.40	.02	.20	.03	.30	.05	.50	
5	.06	.70	.01	.10	.02	.20	.02	.20	.04	.40	.05	.50	
6	.02	.20	.02	.20	.02	.20	.01	.10	.04	.40	.05	.50	
7	.02	.20	.01	.10	.01	.10	.01	.10	.03	.30	.05	.50	
8	.02	.20	.01	.10	.01	.10	.01	.10	.03	.30	.03	.30	
9	.02	.20	.01	.10	.01	.10	.01	.10	.03	.30	.04	.40	
10	.02	.20	.01	.10	.01	.10	.01	.10	.03	.30	.04	.40	
11	.02	.20	.01	.10	.01	.10	.01	.10	.03	.30	.03	.30	
12	.02	.20	.01	.10	.01	.10	.02	.20	.04	.40	.02	.20	
13	.02	.20	.01	.10	.01	.10	.01	.10	.09	1.40	.02	.20	
14	.02	.20	.01	.10	.01	.10	.02	.20	.06	.70	.01	.10	
15	.02	.20	.01	.10	.05	.50	.02	.20	.06	.70	.10	1.80	
16	.02	.20	.01	.10	.05	.50	.02	.20	.05	.50	.01	.10	
17	.02	.20	.01	.10	.03	.30	.02	.20	.03	.30	.01	.10	
18	.02	.20	.01	.10	.01	.10	.03	.30	.03	.30	.01	.10	
19	.02	.20	.01	.10	.02	.20	.03	.30	.05	.50	.01	.10	
20	.02	.20	.01	.10	.02	.20	.03	.30	.10	1.80	.02	.20	
21	.02	.20	.01	.10	.01	.10	.03	.30	.08	1.10	.02	.20	
22	.03	.30	.01	.10	.01	.10	.03	.30	.04	.40	.02	.20	
23	.03	.30	.01	.10	.01	.10	.03	.30	.02	.20	.02	.20	
24	.04	.40	.01	.10	.01	.10	.02	.20	.03	.30	.10	1.80	
25	.05	.50	.01	.10	.01	.10	.02	.20	.04	.40	.02	.20	
26	.09	1.40	.01	.10	.02	.20	.02	.20	.06	.70	.03	.30	
27	.05	.50	.02	.20	.01	.10	.02	.20	.05	.50	.04	.40	
28	.02	.20	.01	.10	.01	.10	.02	.20	.05	.50	.04	.40	
29	.02	.20	.01	.10	.01	.10	.02	.20	.05	.50	.07	.90	
30	.01	.10	.01	.10	.01	.10	.03	.30	.04	.40	.06	.70	
31	–	–	.01	.10	–	–	.03	.30	.04	.40	–	–	
TOTAL		8.60		3.40		4.80		6.30		15.40		12.70	
Mean Daily Discharge in Second-feet		.29		.11		.16		.20		.50		.42	
Second-feet per square mile		.013		.005		.007		.009		.022		.018	
Run-off, depth in inches													
Run-off in acre-feet		17.06		6.74		9.52		12.50		30.55		25.19	712.56
Maximum Mean Daily Discharge in Second-feet		1.40		.20		.50		.30		1.80		1.80	
Minimum Mean Daily Discharge in Second-feet		.10		.10		.10		.10		.20		.10	

HAV





F-47 R

WALNUT WASH AT 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, California.

Drainage Area
99 square miles

Installed by
Los Angeles County Flood Control District, December 15, 1928. Originally installed by State of California Division of Water Rights, 1923-1924.

Records Available
December 15, 1928 to September 30, 1932 at offices of Los Angeles County Flood Control District, Los Angeles, California. See State of California Division of Water Rights Bulletins for records previous to December, 1928.

Gage
Rational 7 day water stage recorder, installed in shelter house on corrugated iron pipe stilling well attached to downstream end of highway bridge pier. Vertical steff 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
1928-1929
Maximum-302 c.f.s. March 10, 1929
Minimum-Dry at various times during year
1929-1930
Maximum-900 c.f.s. January 11, 1930
Minimum-Dry at various times during year
1930-1931
Maximum-122.70 c.f.s. February 4, 1931
Minimum-Dry at various times during year.
1931-1932
Maximum-1781 c.f.s. Feb. 9, 1932
Minimum-Dry most of year.

Diversion
None above gage

Regulation
Los Angeles County Flood Control District 's Puddingstone and Big Dalton Dams regulate flow, of tributaries.

Accuracy
Fair

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

F. C. Dist. Form 164 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.47

Discharge measurements of Walnut Creek

at Covina Boulevard Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Marked	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Tenf	Hours	271
1	11/15	Brewster	8.0	6.61	1.39	2.05	9.22	.6			6		1/5	666
3	27	"	10.	10.4	1.75	2.36	18.28	.6			5	.02	1/5	"
4	12/4	"	3.0	.71	1.41	1.70	1.00	.6			3	0	1/6	"
5	9	"	92.	107.3	2.76	3.43	296.5	.6			11	.04	1/3	"
6	25	"	82.	69.18	2.75	3.07	190.5	.6			10	.04	"	"
7	28	" & Lee	83.	76.45	4.06	3.20	310.1	.6			11	0	1/2	"
8	28	" "	105	168.1	3.67	3.97	590.8	.6			11	.04	"	"
9	28	" "	105	261.8	4.83	4.85	1265.	.6			11	.30	"	"
	1932													
10	1/2	"												
11	1/31	"	105	159.9	3.77	3.88	602.3	.6			11	.01	1/3	"
13	2/1	"	90.	75.3	2.23	2.85	169.2	.6			10	0	"	"
14	8	"	90.	125.0	5.01	3.90	626.43	.6			9	0	"	"
15	8	"	90.	141.0	4.96	4.15	699.6	.6			9	0	"	"
16	8	" & J.G.L	95.	167.8	5.07	4.30	850.6	.6			10	0	"	"
17	9	" "	70.	271.8	6.32	5.25	1718.	.6			9	.10	1/2	"
18	9	" "	90.	119.5	4.81	3.75	574.6	.6			10	0	1/3	"
19	9	" "	90.	113.5	4.57	3.72	518.2	.6			9	.25	"	"
20	9	" "	90.	77.0	3.71	3.17	285.7	.6			9	.15	"	"
21	9	" "	65.	47.0	2.62	2.90	123.2	.6			7	0	1/6	"
23	16	" "	70.	48.0	2.74	2.90	131.6	.6			7	0	1/3	"
24	16	" "	25.	8.50	1.70	2.48	14.45	.6			5	0	1/6	"
25	18	" "	25.	12.7	2.13	2.60	26.89	.6			7	0	"	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 47

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

At COVINA BOULEVARD BRIDGE for the Year Ending September 30, 1932

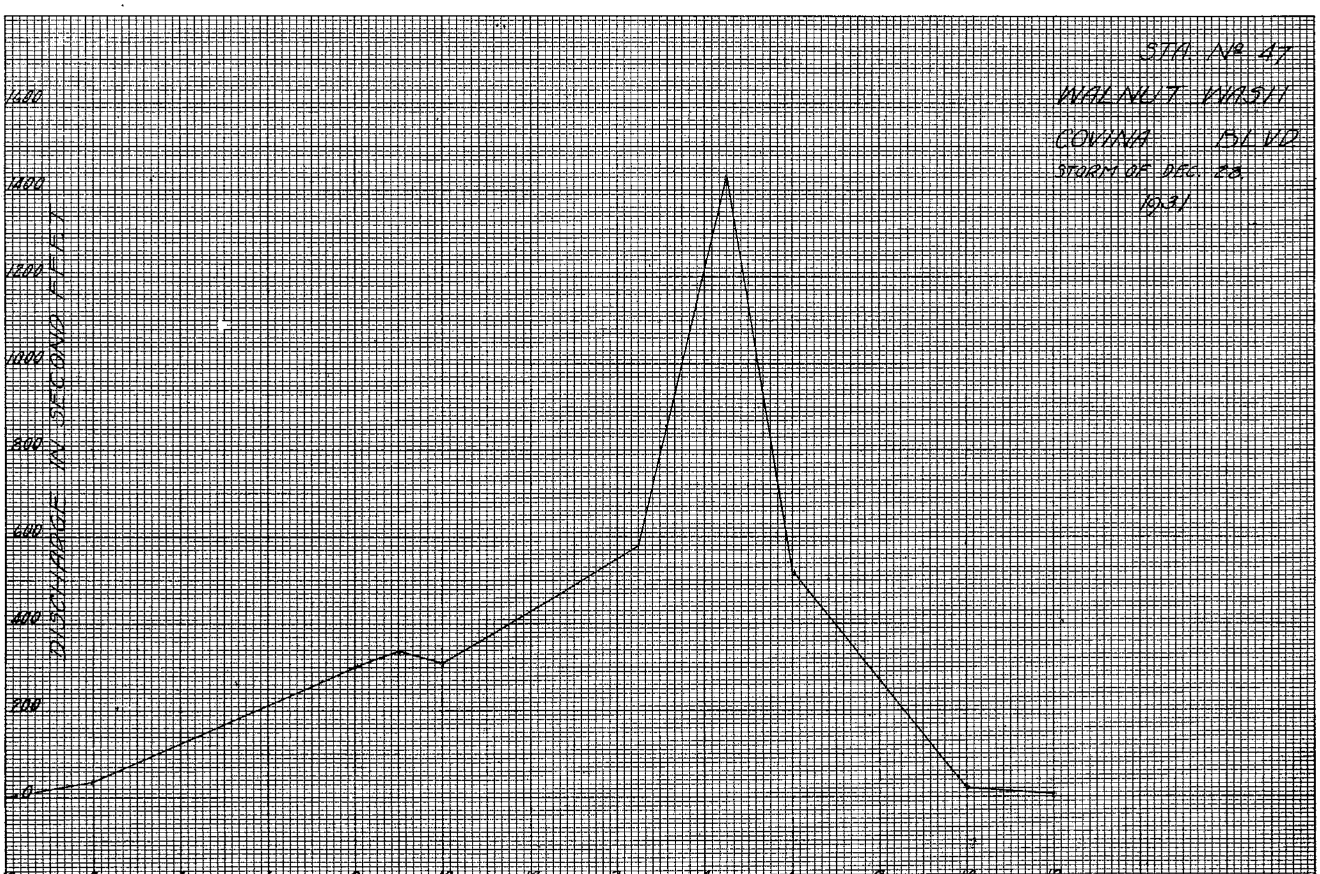
Drainage Area 99.14 Square Miles. [O. L. Brewster Observer.] Gage Read Continuous Used rating table dated 10-1-31 to 9-30-32

Maximum stage 5.29 feet at 3:30 AM on 2-9-32 Discharge 1781 second-feet.
Minimum stage 0 feet at Various times of year Discharge second-feet.

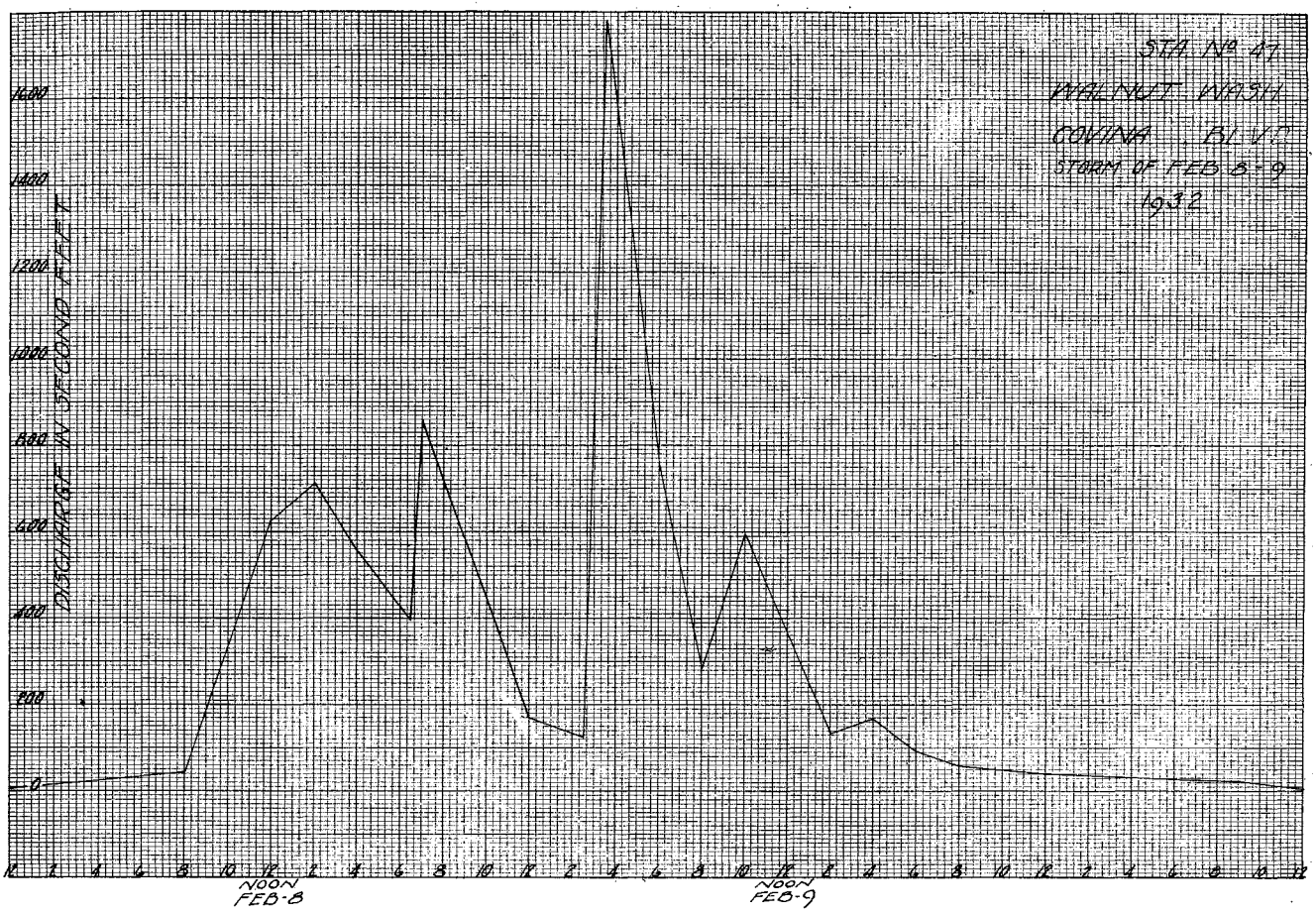
DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1					H	0.16		Dry	H	44.96														
2					H	0.71	H	1.25	H	11.14														
3					1.93	2.21																		
4					1.78	.66				DRY														
5					1.61	.01																		
6						Dry																		
7						"			H	1.55														
8				DRY	H	14.18			H	343.08														
9					H	35.99			H	365.45														
10									H	13.72														
11						DRY																		
12										DRY														
13																								
14		DRY	H	0.01	H	0.37			H	0.01		DRY		DRY		DRY		DRY		DRY		DRY		DRY
15			H	1.44						dry														
16			H	1.56				DRY	H	47.77														
17			H	0.71					H	1.06														
18									H	3.41														
19						DRY																		
20																								
21																								
22				DRY																				
23										DRY														
24																								
25					H	21.60																		
26						Dry																		
27			H	11.93	H	0.16																		
28			1.93	2.21	H	345.29																		
29			1.91	1.96																				
30			1.90	1.84		DRY	H	0.04	-	-														
31			-	-			H	144.12	-	-														
TOTAL,		0		21.66		421.34		145.41		832.15		0												
Mean Daily Discharge in Second-feet				0.722		13.592		4.691		28.695														
Second-feet per square mile				.00728		.1371		.04732		.28944														
Run-off, depth in inches				.0081		.15806		.05455		.31217														
Run-off in acre-feet		0		42.96		835.73		288.42		1650.57		0												
Maximum Mean Daily Discharge in Second-feet				11.93		345.29		144.12		365.45														
Minimum Mean Daily Discharge in Second-feet		0		0		0		0		0														

PERIOD / YEAR: Run-off in acre-feet 2817.68

Quarter checks: First / Second quarters — OES, RHL



NOON
DEC. 28



F.C. Dist.—Form 105—1000—9-31

Daily ~~Gage Height in Feet, and~~ Discharge, in Second-Feet, of RISING WATER

At ~~Dike~~ Whittier Narrows for the Year Ending September 30, 19 32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. .....

Drainage Area ..... Square Miles. [Brewster Observer.] Gage Read Weekly 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		34.8		31.7		42.5		49.7		50.0		55.0	1	M	53.7		45.3		40.2	M	35.8		35.5	M	37.5	1
2	M	34.8		31.6		41.9		49.7		51.0		53.0	2		52.5		45.3		40.2		36.0		35.0		37.6	2
3		34.8		31.5		41.1		49.7		52.0		52.3	3		51.3		45.3	M	40.1		36.2		34.5		37.7	3
4		34.8		31.3	M	40.3		49.7		53.1	M	51.7	4		50.0		45.3		40.1		36.4		34.0		37.8	4
5		34.9		31.2		41.0		49.7	M	54.3		52.7	5		48.8		45.3		40.1		36.7	M	33.2		37.9	5
6		34.9	M	31.0		41.9		49.7		54.3		53.7	6		47.6	M	45.3		40.2		36.9		33.5		37.9	6
7		34.9		31.3		42.7		49.7		54.3		54.8	7		46.3		44.8		40.2		37.1		33.8	M	37.9	7
8		35.0		31.6		43.5	M	49.7		55.0		55.8	8	M	45.2		44.3		40.2		37.3		34.1		37.5	8
9	M	35.0		32.0		44.3		49.7		57.0		56.8	9		45.4		43.8		40.3	M	37.5		34.4		37.1	9
10		34.9		32.4		45.0		49.7		59.0		57.6	10		45.6		43.3	M	40.3		37.2		34.7		36.7	10
11		34.8		32.8		45.9		49.4		59.8	M	57.6	11		45.8		42.8		40.3		36.9		34.9		36.3	11
12		34.7		33.2		46.9		49.0		60.0		57.2	12		46.1		42.3		40.3		36.5	M	35.0		35.9	12
13		34.5		33.6		47.9		48.9		60.0		56.8	13		46.4	M	41.8		40.3		35.0		35.5		35.5	13
14		34.3		34.0	M	49.0		48.8		60.0		56.4	14		46.7		41.6		40.2		35.7		36.0		35.1	14
15		34.1	M	34.4		48.8	M	48.7		60.0		56.0	15	M	47.0		41.4		40.2	M	35.4		36.5	M	34.8	15
16	M	33.9		34.8		46.6		48.4		60.0		55.6	16		46.8		41.2		40.2		36.0		37.0		35.0	16
17		33.9		35.4		45.6		48.0		60.0		55.2	17		46.6		41.0	M	40.2		36.7		37.6		35.3	17
18		33.9		36.0	M	44.9		47.7		59.8	M	54.9	18		46.4		39.8		39.5		37.5	M	38.2		35.6	18
19		33.9		36.8		44.8		47.4		59.8		55.0	19		46.2		39.5		38.8		38.3		37.9		35.9	19
20		34.1	M	37.6		44.7		47.1		59.8		55.1	20		46.0	M	39.1		38.1		39.0		37.6		36.2	20
21		34.1		38.6		44.		46.8		59.8		55.2	21		45.8		39.2		37.4		39.8		37.3		36.5	21
22		34.1		39.6		44.5	M	46.6		59.8		55.4	22	M	45.6		39.4		36.7	M	40.6		37.0	M	36.8	22
23		34.1		40.6		44.4		46.5		59.8		55.6	23		45.6		39.6		36.0		40.0		36.7		37.3	23
24		33.8		41.6	M	44.3		46.4		59.8		55.8	24		45.5		39.8	M	35.3		39.4		36.4		37.8	24
25		33.5		42.6		44.3		46.3		59.8	M	56.1	25		45.5		40.0		35.3		38.8	M	36.1		38.3	25
26		33.2		43.7		44.3		46.2	M	59.8		55.8	26		45.4		40.2		35.4		38.2		36.3		38.8	26
27		32.9	M	44.9		44.3		46.1		59.0		55.5	27		45.4	M	40.4		35.5		37.6		36.5		39.3	27
28		32.6		44.3		44.5		46.0		58.0		55.2	28		45.3		40.4		35.6		37.0		36.7		39.8	28
29		32.6		43.7		46.5	M	45.8		57.0		54.8	29	M	45.3		40.4		35.7	M	36.9		36.9	M	40.4	29
30	M	31.9		43.1		47.5		45.8	-	-		54.4	30		45.3		40.3		35.8		36.5		37.1		40.9	30
31		31.8	-	-		48.5		46.5	-	-		54.0	31	-	-		40.3	-	-		36.0		37.3	-	-	31
TOTAL		1055.5		1086.9		1387.0		1489.4		1672.0		1762.0			1405.1		1298.5		1158.7		1154.9		1113.2		1117.0	

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

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

Quarter: First / Second / Third / Fourth — Computed ..... Checked ..... Date .....
Ditch applied ..... Ditch checked ..... Date .....
G. H. copied ..... G. H. checked ..... Date .....
PERIOD YEAR

Mean Daily Discharge in Second-feet	
Second-feet per square mile	Interpolated from weekly measurements (Marked M) of surface flow in streams and canals in vicinity of Whittier Narrows.
Run-off, depth in inches	
Run-off in acre-feet	2094 / 2155 / 2750 / 2954 / 3316 / 3494 / 2786 / 2574 / 2298 / 2290 / 2207 / 2215 / 31133
Maximum Mean Daily Discharge in Second-feet	
Minimum Mean Daily Discharge in Second-feet	

U 1

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 Angeles National Forest, 1½ miles above mouth of Millard Canyon, 5½ miles northwest of Pasadena, and 3 miles above Devils Gate Dam.

Drainage Area
16.4 square miles.

Records Available
December 1910 to Sept. 30, 1932 at U.S.G.S. office Los Angeles, California.

Gage
Water stage recorder on west 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
1931-1932
Maximum-48.0 c.f.s. Dec. 28, 1931
Minimum-Dry at certain times of year.

Diversions
None

Regulations
None

Accuracy
Good

Operation
Constructed by U.S.G.S. Water Resources Branch and operated by U.S.G.S. Water Resources Branch in conjunction with the Los Angeles County Flood Control District.

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U1

Discharge measurements of ARROYO SECO, NEAR PASADENA U.S.G.S. STATION

at 3 MILES ABOVE FLOOD CONTROL DAM, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
490	10/9	Lindsay	0.5	.04	.75	1.38	.03		.6		1			282 883
491	16	"	0.5	.02	.46	1.34	.01		.6		1			"
492	23	"	1.0	.20	.75	1.37	.15		.6		2			"
493	30	"	0.5	.04	.77	1.31	.03		.6		1			"
494	11/6	"	0.5	.04	.75	1.37	.06		.6		1			"
495	12	"	0.7	.08	1.38	1.37	.11		.6		2			"
496	20	"	1.5	.36	.53	1.37	.19		.6		3			"
497	27	Lindsay & Burke	9.5	3.0	1.08	1.47	3.3		.6		9		2/5	"
498	27	H. J. Tompkins	2.	1.2	2.17	1.46	2.6		.6		4		1/4	953
499	12/4	Lindsay & Cole	2.1	.76	.78	1.41	1.0		.6		4		1/6	282 883
500	7	H. J. Tompkins	1.9	.85	1.06	1.44	9		.6		4		1/3	953
501	9	"	2.2	.9	2.34	1.50	2.1		.6		4		1/5	"
502	10	Lindsay & Cole	1.9	1.0	2.65	1.52	2.7		.6		4		1/4	282 883
503	14	" "	10.5	2.93	1.11	1.51	3.3		.6		9		1/4	"
504	17	Lindsay	2.2	.84	2.07	1.48	1.7		.6		4		1/12	"
505	18	H. J. Tompkins	1.9	8	2.00	1.48	1.6		.6		4		1/6	953
506	21	"	2.0	1.2	2.34	1.50	2.8		.6		4		1/12	"
507	21	Lindsay-Van der Goot	1.9	1.02	2.60	1.50	2.6		.6		4		"	282 883
508	23	Lindsay	1.9	.97	2.31	1.50	2.2		.6		4		"	"
509	26	"	10.2	4.54	2.74	1.84	12.		.6		10		1/4	"
510	26	H. J. Tompkins	10.5	4.	2.15	1.80	8.6		.6		10		1/2	953
511	28	Lindsay & Cole	10.0	7.11	3.71	2.02	23.		.6		10		1/5	883
512	28	H. J. Tompkins	45.	62.	7.20		446.		.6		9		1/2	953
513	29	Lindsay & Cole	30.5	10.5	4.81	3.28	51.		.6		12		1/3	883
514	30	H. J. Tompkins	10	5.2	3.65	1.85	19.		.6		10		1/4	953
515	31	Lindsay & Cole	9.8	4.9	2.93	1.83	14.		.6		10		1/4	983
516	1932 1/2	H. J. Tompkins	10	5.4	2.22	1.82	12.		.6		10		1/3	"
517	7	R. C. Croxell	7.5	2.4	3.09	1.82	7.4		.6		7		1/4	29567

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U1

Discharge measurements of ARROYO SECO, NEAR PASADENA U.S.G.S. STATION

at 3 miles above Flood Control Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
518	1/8	Lindsay-Harting	7.5	2.1	2.6	1.57	5.4		.6		8		1/10	883
519	14	H. J. Tompkins	7.	2.4	1.58	1.34	3.8		.6		7		1/4	953
520	15	Lindsay	7.	2.4	1.81	1.43	4.3		.6		7		1/6	883
521	16	H. J. Tompkins	6.5	2.1	1.43	1.34	3.		.6		6		1/6	"
522	19	"	6.	2.0	1.40	1.29	2.8		.6		6		1/12	"
523	21	Lindsay	6.4	1.63	1.35	1.24	2.20		.6		6		1/6	883
524	28	"	6.0	1.46	1.37	1.21	2.0		.6		6		1/6	"
525	30	H. J. Tompkins	6.	2.	1.20	1.20	2.4		.6		6		1/6	953
526	31	Lindsay-Cole	7.5	4.1	2.49	1.79	10.3		.6		5		1/6	883
527	2/1	"	25.0	10.5	6.61	2.69	69.2		.6		9		1/5	"
528	2	H. J. Tompkins	18.	11.	5.00	2.10	55.		.6		8		1/4	953
529	4	"	9.5	5.5	3.82	1.90	21.		.6		11		1/6	"
530	5	Harting	10.5	4.9	4.16	1.88	21.		.6		11		1/4	883
531	8	Lindsay-Cole	11.2	13.9	5.60	2.26	78.		.6		7		1/6	"
532	11	H. J. Tompkins	25.	17.	5.06	2.36	86.		.6		10		1/3	953
533	12	"	18	17.	3.29	2.20	56.		.6		9		1/4	"
534	12	Cole	13.	15.3	3.44	2.19	53.		.6		7		1/4	883
535	16	Lindsay-Cole	11.	13.1	3.23	2.16	42.		.6		6		1/6	"
536	19	Lindsay	11.2	12.5	2.69	2.14	34.		.6		6		1/6	"
537	24	H. J. Tompkins	10	11.	2.36	2.00	26.		.6		11		1/3	953
538	25	Lindsay	11	11.	2.21	2.00	24.		.6		7		1/6	883
539	3/3	"	11	9.4	1.74	1.42	16.		.6		8		1/6	"
540	8	H. J. Tompkins	11	8.5	1.53	1.86	13.		.6		11		1/3	953
541	10	Lindsay	11	8.66	1.38	1.85	12.		.6		9		1/4	883
542	14	H. J. Tompkins	10	7.4	1.26	1.80	9.3		.6		10		1/4	953
543	16	Lindsay	10.8	6.9	1.25	1.78	8.6		.6		9		1/4	883
544	23	H. J. Tompkins	9.7	6.3	1.16	1.71	7.4		.6		10		1/3	953
545	25	Lindsey	10.3	6.2	1.05	1.69	6.5		.6		8		1/4	883
546	4/1	R. Lindsay	10	4.97	1.05	1.55	5.2		.6		8		1/4	883
542	2	H. J. Tompkins	10	4.8	1.06	1.54	5.1		.6		10		1/4	953
548	7	R. Lindsay	10	4.63	.93	1.49	4.3		.6		10		1/4	282 883
549	9	H. J. Tompkins	8.6	4.6	.87	1.50	4.		.6		9		1/3	953
550	14	R. Lindsay	11	4.4	.81	1.47	3.8		.6		11		1/4	282 883
551	15	H. J. Tompkins	8.7	4.4	.77	1.48	3.4		.6		9		1/3	953
552	21	R. Lindsay	10.2	4.6	.83	1.47	3.8		.6		11		1/4	282 883
553	22	H. J. Tompkins	8.7	4.1	.78	1.46	3.2		.6		9		1/3	953
554	27	"	8.8	4.7	1.02	1.54	4.8		.6				1/3	"
555	28	R. Lindsay	10.3	4.6	.96	1.50	4.5		.6		11		1/4	282 883
556	5/5	H. J. Tompkins	8.8	4.2	.86	1.48	3.6		.6		9		1/4	953
557	5	R. Lindsay	10.3	4.4	.74	1.47	3.3		.6		11		1/4	282 883
558	12	R. Lindsay	10.3	4.0	.69	1.43	2.8		.6		11		1/4	"
559	14	H. J. Tompkins	8.8	4.	.70	1.44	2.8		.6		9			953
560	19	H. J. Tompkins	3.7	1.4	1.43	1.40	2.0		.6		4		1/3	"
561	19	R. Lindsay	3.7	1.4	1.34	1.40	1.8		.6		4		1/10	282 883
562	25	R. Lindsay	3.7	1.3	1.18	1.38	1.5		.6		4		1/10	"
563	26	H. J. Tompkins	3.7	1.3	1.00	1.38	1.3		.6		4		1/3	953
564	6/3	R. Lindsay	3.7	1.7	1.94	1.42	3.0		.6		4		1/12	282 883
565	6	H. J. Tompkins	3.8	1.5	1.54	1.40	2.3		.6		4		1/6	953
566	10	R. Lindsay	3.7	1.4	1.15	1.38	1.6		.6		4		1/12	282 883
567	14	H. J. Tompkins	3.8	1.5	.87	1.38	1.3		.6		4		1/4	953
568	17*	R. Lindsay	3.7	1.4	1.12	1.39	1.5		.6		4		1/12	282 883
569	23	H. J. Tompkins	2.2	.65	1.70	1.39	1.1		.6		4		1/4	953
570	24	R. Lindsay	3.7	1.22	.61	1.28	.74		.6		4		1/12	282 883
571	29	H. J. Tompkins	2.3	.70	.63	1.28	.44		.6		5		1/4	953
572	7/1	R. Lindsay	37.	1.04	.26	1.26	.27		.6		4		1/12	282 883
573	7	H. J. Tompkins	1.2	.3	.93	1.28	.28		.6		2		1/6	953
574	7/8	R. Lindsay	1.15	.30	1.27	1.28	.38		.6		2		1/30	883
575	15	"	1.0	.18	.94	1.19	.17		.6		2		"	"
576	15	H. J. Tompkins	1.0	.12	.75	1.28	.09		.6		2		1/12	953
577	22	R. Lindsay				1.20	.10		3" venturi flume					

F.C. Dist.—Form 105—1000—9-31

Discharge, in Second-Feet, of ARROYO SECO, U.S.G.S. STATION

Near PASADENA, CALIFORNIA for the Year Ending September 30, 19 32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U1

Drainage Area 16.4 Square Miles. [Observer.] Gage Read Used rating table dated

Discharge 480 second-feet. Dec. 28, 1931 Discharge second-feet.
Maximum stage 3.55 feet at 4 PM on Dry January 1 at various times of year
Minimum stage
≠ Estimated

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1						1.7		11.		104.		18.
2						1.3		13.		82.		17.
3						1.3		8.5		37.		16.
4						1.0		7.5		21.		16.
5						1.0		8		21.		15.
6						1.0		8.5		23.		15.
7						.9		7.		28.		14.
8				/1		1.4		5.5		162.		13.
9				.1		2.1		4.9		342.		13.
10				.1		2.7		≠ 4.5		142.		11.
11				.2		2.9		≠ 4.2		91.		11.
12				.1		3.1		≠ 4.0		55.		10.
13				.1		3.2		≠ 3.9		46.		9.5
14				.1		3.3		≠ 3.8		42.		9.
15				.3		2.7		≠ 4.3		37.		9.
16				.2		2.2		3.0		39.		9.
17				.2		1.7		2.9		36.		9.
18				.2		1.6		2.9		34.		8.5
19				.2		2.0		2.8		35.		8.5
20				.2		2.4		2.7		≠ 32.		8.5
21				.2		2.7		2.6		≠ 30.		8.
22				.2		2.5		2.5		≠ 28.		7.5
23				.2		2.2		2.4		≠ 27.		7.
24				.2		2.2		2.3		26.		7.
25				.2		5.5		2.3		24.		6.5
26				.2		9.5		2.2		23.		5.5
27				3.0		5.5		2.2		22.		5.5
28				3.3		128.		2.1		21.		5.5
29				2.2		≠ 51.		2.2		19.		5.5
30				1.9		31.		2.5		-		5.
31				-		14.		28,		-		5.
TOTAL,						293.6		1642.		1029.		308.
Mean Daily Discharge in Second-feet		Est. .06		.475		9.47		5.30		56.2		9.94
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		3.7		28.3		582		326		3230		611
Maximum Mean Daily Discharge in Second-feet												
Minimum Mean Daily Discharge in Second-feet												

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge
1		5.		4.0		2.4		.3				
2		5.		3.7		2.6		.3				
3		5.		3.6		2.8		.3				
4		4.9		3.6		2.8		.3				
5		4.7		3.5		2.6		.3				
6		4.6		3.4		2.3		.3				
7		4.2		3.5		2.1		.3				
8		4.1		3.5		1.8		.3				
9		4.0		3.3		1.8		.3				
10		4.0		3.1		1.6		.3				
11		3.8		3.0		1.5		.2				
12		3.7		2.9		1.5		.2				
13		3.7		2.8		1.4		.2				
14		3.6		2.8		1.3		.1				
15		3.7		2.7		1.3		.1				
16		3.7		2.6		1.5		.1				
17		3.7		2.3		1.5		.1				
18		3.6		2.2		1.4		.1				
19		3.4		1.9		1.3		.1				
20		3.6		1.8		1.2		.1				
21		3.5		1.8		1.1		.1				
22		3.5		1.8		1.0		.1				
23		3.4		1.7		.9		.				
24		3.5		1.7		.7						
25		3.6		1.5		.6						
26		9.5		1.5		.6						
27		5.5		1.6		.5						
28		4.9		1.8		.5						
29		4.5		1.9		.4						
30		4.2		2.1		.4						
31		-		2.2		-						
TOTAL,		128.1		79.8		43.4		4.5				
Mean Daily Discharge in Second-feet		4.27		2.57		1.45		.15		Est. .02		Est. .04
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		254		158		86.3		8.9		1.2		2.4
Maximum Mean Daily Discharge in Second-feet												
Minimum Mean Daily Discharge in Second-feet												

DAY	Fourth	Third	Second	First	Quarter	Computed	Checked	Date
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								PERIOD YEAR

DAY	Fourth	Third	Second	First	Quarter	Discharge applied	Discharge checked	Date
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31						G. H. copied	G. H. checked	Date

NOTE; Discharge less than .1 second feet on days for which no discharge is given

U 9

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 2½ miles northeast of Glendora and 2 miles below Flood Control Dam.

Drainage Area
7.5 square miles.

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

Records Available
December 1919 to September 30, 1932 at U.S.G.S. office, Los Angeles, California.

Gage
Stevens continuous water stage recorder installed in concrete wall and house on west bank 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
1931-1932
Maximum-57 c.f.s. on February 11, 1932
Minimum-Dry most of year.

Diversions
The Glendora Consolidated Mutual Irrigation Company's dam diverts water 1/2 a mile and 1½ miles above gage through a 10" pipe line. A 12" pipe line diverts water at the dam.

Regulation
Flow regulated by Los Angeles County Flood Control District's Big Dalton Dam above gage.

Accuracy
Good.

Operation
Constructed by U.S.G.S. Water Resources Branch and operated by U.S.G.S. Water Resources Branch in conjunction with Los Angeles County Flood Control District.

F. C. Dist. Form 104 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U9

Discharge measurements of BIG DALTON CREEK, NEAR GLENDORA U.S.G.S. STATION

BELOW FLOOD CONTROL DAM, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. nos.	G. Ht. change	Time	Notes No.
	1931		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
177	28	Brewster & Lee	3.0	2.50	1.83	1.28	4.6	.6			3		1/6	271 666
178	29	F. C. Ebert	2.7	1.7	1.12	1.14	1.9	.6			6		1/4	272-14
179	30	"	2.8	1.6	.59	1.09	.95	.6			6		"	"
180	31	H. J. Tompkins	1.8	.9	1.05	1.06	.95	.6			2		1/12	953
182	1932 1/5	F. C. Ebert	2.7	1.3	.27	1.03	.33	.6			5		1/6	27214
183	8	Brewster	1.0	.20	.95	1.02	.19	.6			2		1/10	271 666
184	15	"	1.0	.19	.68	1.00	.13	.6			2		1/12	"
185	19	"	10.	6.22	2.94	1.52	18	.6			10		1/3	"
186	19	"	10.	6.19	2.91	1.52	18	.6			10		"	"
187	19	"	10.	5.38	2.70	1.46	15	.6			10		1/4	"
188	19	"	10.	4.51	2.4	1.41	11	.6			10		1/3	"
189	19	"	8.	6	1.49	1.35	8.9	.6			8		1/4	"
190	19	"	8.	5.65	1.29	1.32	7.3	.6			8		1/4	"
191	19	"	8.	5.53	1.15	1.29	6.4	.6			8		1/6	"
192	20	"	4.	.61	1.01	1.06	.60	.6			4		"	"
193	22	"	1.5	.33	.91	1.00	.30	.6			3		"	"
194	29	"	1.5	.23	.57	.98	.13	.6			3		1/10	"
195	2/1	"	7.0	4.47	.80	1.20	3.6	.6			7		1/6	"
196	1	F. C. Ebert	8.1	4.2	.74	1.19	3.1	.6			8		"	27214
197	2	Brewster & J.G.L.	7.0	4.4	.78	1.20	3.4	.6			7		"	271 666
198	2	F. C. Ebert	8.0	4.2	.83	1.20	3.5	.6			8		1/4	27214
199	5	Brewster	4.0	1.09	1.26	1.10	1.4	.6			4		1/10	271 666
200	8	F. C. Ebert	9.4	6.2	1.77	1.41	11	.6			9		1/3	27214
201	9	Brewster & J.G.L.	7.0	6.5	2.59	1.48	17	.6			7		1/6	271 666
202	9	F. C. Ebert	13	7.2	2.78	1.49	20	.6			13		1/3	27214
203	10	"	8.4	6.6	2.12	1.43	14	.6			9		"	"
204	15	"	15	9.4	2.45	1.52	23	.6			14		"	"
205	16	"	9	5.2	1.90	1.34	9.9	.6			10		1/4	"

F. C. Dist. Form 104 HH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U9

Discharge measurements of BIG DALTON, NEAR GLENDORA U.S.G.S. STATION

at below Flood Control Dam
near , during the year ending September 30, 1932

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	
206	2/16	Brewster & J. G.L.	8.0	6.48	2.82	1.48	18		.6		8		1/5	271 666
207	19	"	12.	916.	2.86	1.54	26		.6		12		1/4	"
208	20	F. C. Ebert	14.5	9.8	2.65	1.53	26		.6		13		1/3	27214
209	26	Brewster	8.0	4.53	1.15	1.24	5.2		.6		8		1/6	271 666
210	3/1	F. C. Ebert	9.1	4.4	1.25	1.25	5.5		.6		10		1/3	27214
211	4	Brewster	8.0	4.75	1.54	1.30	7.3		.6		8		1/6	271 666
212	7	H. J. Tompkins	9	3.7	.84	1.18	3.1		.6		9		1/6	953
213	11	Brewster	3.0	1.16	.90	1.07	1.0		.6		3		1/6	271 666
214	16		2.8	0.91	0.56	1.06	.50		.6				1/4	622
215	18	Brewster	3.0	1.01	.74	1.06	.75		.6		3		1/10	271 666
217	25	"	3.0	.94	.52	1.04	.49		.6		3		1/6	"
218	4/1	"	1.5	.27	.78	1.00	.21		.6		3		1/12	"
219	8	"	2.0	.43	.77	1.03	.33		.6		4		1/6	"
220	15	"	1.0	.15	.80		.12		.6		2		1/12	"
221	22	"	1.0	.16	.81		.13		.6		2		1/6	"
222	29	"	1.0	.15	.60		.09		.6		2		1/12	"
223	5/6	"	0.8	.11	.82		.09		.6		1		1/10	"
224	13	"	0.8	.11	.45		.96		.6		1		1/12	"
225	20	"	0.8	.10	.40		.04		.6		1		1/12	"

F.C. Dist.—Form 105—1000—9-31

Daily ~~Gage Height in Feet, and~~ Discharge, in Second-Feet, of DALTON CREEK, U.S.G.S. STATION

~~At~~ Near CLENDORA, CALIFORNIA for the Year Ending September 30, 19 32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 9

Drainage Area 7.5 Square Miles. [Observer.] Gage Read 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						0		.8		4.4		5	1		.3		.1								1
2						0		.7		3.2		6	2		.2		.1								2
3						0		.6		2.1		9	3		.2		.1								3
4						0		.4		1.9		9	4		.2		.1								4
5						0		.3		1.4		6	5		.2		.1								5
6						0		.3		+1.4		5	6		.2		.1								6
7						0		.2		+1.4		3.7	7		.2		.1								7
8						0		.2		13		1.9	8		.5		0								8
9						0		.2		19		1.2	9		.2		0								9
10						0		.2		13		1.1	10		.2		0								10
11						0		.2		18		1.1	11		.2		0								11
12		NO FLOW		NO FLOW		0		.2		8.5		1.1	12		.1		0								12
13						0		.2		12		.9	13		.1		0								13
14						0		.2		11		.8	14		.1		0								14
15						0		.2		10		.7	15		.1		0								15
16						0		.2		11		.6	16		.1		0								16
17						0		.2		11		.8	17		.1		0								17
18						0		.7		11		.9	18		.1		0								18
19						0		6.		11		.8	19		.1		0								19
20						0		.9		14		.8	20		.1		0								20
21						0		.5		27		.7	21		.2		0								21
22						0		.5		28		.7	22		.1		0								22
23						0		.4		34		.6	23		.1		0								23
24						0		.3		18		.5	24		.1		0								24
25						0		.2		7		.5	25		.1		0								25
26						0		.2		6		.5	26		.1		0								26
27						0		.2		4.4		.5	27		.1		0								27
28						.6		.1		2.7		.5	28		.1		0								28
29						2.7		.1		2.5		.4	29		.1		0								29
30						1.1		.1		–		.4	30		.1		0								30
31						.9		.3		–		.3	31		–		0								31
TOTAL,						5.3		15.		307.		62.			4.6		.7								
Mean Daily Discharge in Second-feet		0		0		0.17		0.51		10.6		2.0			0.15		0.02	0		0		0		0	
Second-feet per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet		0		0		10.5		31.4		610.		123			9.1		1.4	0		0		0		0	785
Maximum Mean Daily Discharge in Second-feet																									
Minimum Mean Daily Discharge in Second-feet																									

Maximum stage 1.76 feet at 3 PM on Feb. 11, 1932 Discharge 57 second-feet.
Minimum stage Dry feet at most of year Discharge second-feet.
+ Estimated

Quarter: First / Second / Third / Fourth — Compared — Checked — Date

Quarter: First / Second / Third / Fourth — Disch. applied — Disch. checked — Date

Quarter: First / Second / Third / Fourth — G. H. copied — G. H. checked — Date

PERIOD YEAR

BIG ROCK CREEK U.S.G.S. STATION

Location
In N.E. ¼ Sec. 20 T. 4 N., R. 9 W., a quarter of a mile south of the boundary line of the Angeles National Forest, about 1-3/4 miles southeast of Valyermo, Los Angeles County, California.

Drainage Area
23.25

Records Available
1/13/23 to 9/30/32 at U.S.G.S. Water Resources Branch, office at Los Angeles, Calif.

Gage
Stevens Continuous Water Stage Recorder in wooden well and shelter on west bank.

Discharge Measurements
Made from foot bridge 20 feet below the gage or by wading.

Channel and Control
Boulders and gravel which may shift at high stages; fairly permanent at low and medium stages.

Extremes of Discharge
1931-32-Maximum-251 c.f.s. Feb. 8, 1932
Minimum-2.4 c.f.s. Nov. 1, 1931

Accuracy
Stage Disch. relation not permanent. Rating curve fairly well defined. Water stage recorder record excellent. Daily discharge ascertained by apolying mean daily gage height to rating table. Records good.

Operation
Constructed by U.S.G.S. Water Resources Branch and operated by the U.S.G.S. Water Resources Branch in conjunction with the L.A.C.F.C. District.

F. C. Dist. Form 184 M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U14

Discharge measurements of BIG ROCK CREEK U.S.G.S. STATION

near VALYERMO, CALIF. 1931-32, during the year ending September 30, 19

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
			Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.							
186	10/1	K. R. Melin	8.6	6.5	0.52	1.13	3.4		.6		9		1/4	142 F.C.
187	3	Luce	9.5	59	.47	1.07	3.0		.6		7		1/6	13
188	8	Waddicor	8.9	6.3	.45	1.08	2.9		.6		7		"	" F.C.
189	12	Luce	9.5	5.8	.5	1.08	2.8		.6		8		1/4	25
190	15	K R Melin	8.5	5.9	.46	1.06	2.7		.6		9		1/6	142 F.C.
191	18	Luce	9.6	5.9	.51	1.07	3.0		.6		7		1/6	25
192	21	K R Melin	8.5	5.7	.51	1.08	2.9		.6		9		1/6	142 F.C.
193	24	Luce	9.5	5.4	.55	1.09	3.0		.6		8		"	25
194	Nov.1	"	9.5	5.3	.45	1.06	2.4		.6		8		"	"
195	4	K R Melin	10	6.2	.50	1.08	3.1		.6		10		1/6	142 F.C.
196	7	R.A.Waddicor	87	5.8	.46	1.09	2.7		.6		8		"	13
197	16	K. R. Melin	9	5.4	.57	1.13	3.1		.6		9		1/4	142 F.C.
198	22	Luce	9.2	5.11	.53	1.09	2.7		.6		8		1/6	13
199	28	"	9.5	6.14	.59	1.10	3.6		.6		8		"	"
200	Dec.4	K.F. Schumacher	9	6.2	.56	1.10	3.5		.6		9		1/10	85.4 F.C.
201	5	Luce	9.5	6.07	.58	1.10	3.6		.6		8		1/6	13
202	9	Luce & Lovelace	9.5	65.4	.69	1.16	4.6		.6		9		"	"
.03	13	"	9.6	6.55	.62	1.13	4.1		.6		8		1/4	"
204	19	"	9.6	6.26	.59	1.13	3.7		.6		9		1/6	"
205	22	W. R. Melin	9	6.9	.77	1.73	5.3		.6		9		1/6	142
206	31	"	14	12	1.17	1.42	14		.6		14		1/4	142 F.C.
207	Jan.3	Luce	14	123	.96	1.34	11.4		.6		10		1/4	13
208	9	"	12.5	10.6	.84	1.27	8.9		.6		9		1/6	"
209	16	Luce & Lovelace	13	10.4	.77	1.25	8.0		.6		9		1/15	"
210	18	K. R. Melin	12	9.3	.80	1.24	7.4		.6		12		1/12	142 F.C.
211	23	Luce	126	9.9	.77	1.22	7.6		.6		9		1/6	13
212	25	H.J. Tompkins	9.6	7.1	.96	1.21	6.8		.6		10		1/3	953
213	30	Luce	9.3	7.3	.84	1.19	6.2		.6		10		1/6	F.C. 13

F. C. Dist. Form 184 M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U14

Discharge measurements of BIG ROCK CREEK U.S.G.S. STATION

near Valyermo, California, 1931-32, during the year ending September 30, 19

Sheet 2 of 2

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
			Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.							
214	Feb.3	K. R. Melin	13	9.5	.75	124	7.1		.6		17		¼	142
215	15	"	19	14	2.71	1.93	38		.6		13		¼	147 F.C.
216	19	Luce	16	13.3	2.47	1.77	33		.6		10		1/6	25
217	22	Luce - Turner	15	13.7	1.9	1.78	26		.6		11		1/6	13
218	27	" Lindsay	17	18.8	2.56	2.03	48		.6		12		"	"
219	Mar.3	K. R. Melin	16	18	7.56	2.06	46		.6		14		1/3	142 F.C.
220	9	Luce & Waddicor	15.5	16	2.45	1.92	39		.6		10		1/6	13
221	19	K. R. Melin	21	18	2.50	1.95	45		.6		18		1/4	142 F.C.
222	26	Luce	16.5	16	2.36	1.94	38		.6		12		"	13
223	30	Ebert & Melin	23	18	2.56	1.96	46		.6		17		1/3	22214 F.C.
224	Apr. 14	Luce	17.5	17	2.8	2.05	48		.6		12		1/5	13
225	22	K. R. Melin	19	16	2.25	1.92	36		.6		16		1/4	1185
226	May 6	"	19	14	2.29	1.83	32		.6		15		1/4	"
227	20	"	21	18	2.44	1.96	44		.6		16		"	946
228	6/3	"	21	18	2.61	1.99	47		.6		15		"	"
229	24	"	17	13	1.92	1.28	25		.6		14		"	"
230	27	"	17	13	1.77	1.76	23		2.8		13		1/2	953
231	7/12	K. F. Schumacher	11	8.7	1.45	1.72	17		.6		11		3/20	1185
232	29	K. R. Melin	14	12	1.25	1.65	15		.6		13		1/6	946 F.C.
233	8/6	Luce	19	10.4	1.34	1.58	14		.6		11		"	13
234	8	K. F. Schumacher	12.5	9.8	1.22	1.56	12		.6		11		1/6	1185 F.C.
235	20	Luce	9	5.40	2.25	1.39	13		.6		9		"	13
236	22	K.F. Schumacher	14	11	1.00	1.40	11		.6		12		"	854 F.C.
237	22	Luce	8.5	5.20	2.56	1.40	13		.6		9		"	13
238	9/8	K. R. Melin	13.5	7.2	1.26	1.36	9.1		.6		11		1/6	946
239	14	Bollinger	8.2	4.50	2.04	1.33	9.2		.6		9		"	271 F.C. 668
240	24	K. R.Melin	12	5.5	1.25	1.33	6.9		.6		10			946

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 14

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of ROCK CREEK, U.S.G.S. STATION

Near VALYERMO, for the Year Ending September 30, 1932

Drainage Area Not Meas. Square Miles. [Observer.]

Gage Read ____ Used rating table dated ____

Maximum stage 4.15 feet at 9 PM on Feb. 8, 1932 Discharge 251. second-feet.
Minimum stage 1.06 feet at 5 PM on Nov. 1, 1931 Discharge 2.4 second-feet.
Estimated

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1		3.2		2.6		3.6		13.		10		53
2		3.6		2.8		3.6		12.		7.5		49
3		3.4		2.9		3.6		11.		7		46
4		3.4		3.0		3.6		10.		7		44
5		3.0		2.9		3.6		10.		7		42
6		3.0		2.9		3.4		9.5		8		42
7		3.0		2.8		3.2		9.5		10		41
8		3.0		2.8		3.9		9.		128		41
9		3.2		2.9		5		9.		154		40
10		3.2		2.9		4.1		8.5		88		40
11		3.0		3.0		4.1		8.5		60		40
12		2.9		2.9		4.1		8.5		51		39
13		2.8		2.8		4.1		8.5		45		39
14		2.9		2.9		4.1		8.		42		39
15		2.9		3.9		4.1		8.		38		39
16		2.9		3.2		3.9		8.		38		39
17		3.0		3.0		3.9		7.5		36		40
18		3.2		2.9		3.6		7.5		35		41
19		3.2		2.8		3.6		7.5		32		45
20		3.0		2.8		3.6		7.5		28		46
21		2.9		2.8		5.		7.5		26		43
22		3.0		2.8		5.5		7.5		25		40
23		3.0		2.9		5.5		7.5		28		37
24		3.0		3.0		5.		7.5		31		37
25		3.0		3.2		7.		7.		36		39
26		3.0		3.4		6.		7		41		38
27		2.9		3.6		5.5		7		48		40
28		2.9		3.6		20.		6.5		52		41
29		2.8		3.6		26.		6.5		54		44
30		2.6		3.6		17.		6.5		-		45
31		2.6		-		14.		7.5		-		45
TOTAL,		93.5		91.2		193.2		259.		1172.5		1294.
Mean Daily Discharge in Second-feet		3.02		3.04		6.23		8.35		40.4		41.7
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		186		181		383		513		2,320		2,560
Maximum Mean Daily Discharge in Second-feet												
Minimum Mean Daily Discharge in Second-feet												

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period Year
1		46		33		46		22		15		11	
2		48		35		46		22		15		11	
3		48		36		48		21		15		11	
4		47		34		45		20		15		11	
5		47		33		45		20		15		10	
6		45		33		44		20		15		10	
7		44		33		42		20		13		10	
8		43		34		41		18		13		9.5	
9		43		36		40		18		13		9	
10		43		39		40		17		13		8.5	
11		44		40		39		17		13		8.5	
12		45		43		39		17		12		8.5	
13		47		43		37		18		12		8.5	
14		49		45		36		17		12		8.5	
15		48		45		34		17		11		8.5	
16		46		46		33		17		12		8	
17		45		46		33		17		12		8	
18		44		47		32		17		12		# 8	
19		43		46		31		16		12		# 8	
20		44		47		30		17		12		# 8	
21		41		47		30		16		12		# 7.5	
22		37		46		28		16		12		# 7.5	
23		36		46		28		16		11		# 7.5	
24		35		46		28		15		11		7.5	
25		36		46		26		15		11		7.5	
26		35		46		26		15		12		7.5	
27		34		46		26		15		12		7.5	
28		32		47		24		15		12		7.5	
29		32		46		24		15		12		11	
30		32		46		22		15		12		10	
31		-		46		-		15		12		-	
TOTAL,		1259		1302		1043		536		391		264.5	
Mean Daily Discharge in Second-feet		42.0		42.0		34.8		17.6		12.6		8.82	21.6
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		2,500		2,580		2,070		1,060		775		525	15,700
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

Fourth / Third / Second / First Quarter — Computed, Checked, Date; Disch. applied, Disch. checked, Date; G. H. copied, G. H. checked, Date

U 4

BIG SANTA ANITA CREEK U.S.G.S. STATION

NEAR SIERRA MADRE CALIF.

Location
In SW¼ NE¼ 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, 1932 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 by 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
1931-1932
Maximum-336 c.f.s. Feb. 9, 1932
Minimum-Less than .10 several times during year.

Diversions
None

Regulation
None

Accuracy
Good

Operation
Constructed by U.S.G.S. Water Resources Branch and operated by U.S.G.S. Water Resources Branch in conjunction with the Los Angeles County Flood Control District.

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U4

Discharge measurements of BIG SANTA ANITA CREEK, NEAR SIERRA MADRE
U.S.G.S. STATION
near Above Flood Control Dam, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
406	10/6	H. J. Tompkins				0.52	.06		vol					
407	13	"				.58	.07		vol.					
408	20	"	.9	.22	.82	.64	.18		.6		2		1/6	953
409	27	"	.9	.28	.89	.70	.25		.6		2		"	"
410	30	R. Lindsay	.9	.27	.96	.68	.26		.6		2		1/30	282 883
411	11/3	H. J. Tompkins	.9	.28	.68	.66	.19		.6		2		1/3	"
412	10	"	.9	.36	.86	.68	.31		.6		2		"	"
413	13	R. Lindsay	1.3	.47	.94	.75	.44		.6		3		1/20	282 883
414	16	H. J. Tompkins	1.2	.7	1.72	.86	1.2		.6		2		1/6	"
415	24	"	.8	.46	1.20	.76	.55		.6		2		1/5	"
416	28	"	2.2	1.2	1.92	.97	2.3		.6		4			"
417	12/3	"	2.2	.95	.95	.82	.9		.6		4		1/4	"
418	4	R. Lindsay	2.3	.86	1.10	.83	.94		.6		4		1/12	282 883
419	8	H. J. Tompkins	2.2	.8	.88	.80	.7		.6		5		1/6	"
420	9	"	2.9	1.9	2.05	1.07	3.9		.6		6		1/3	"
421	10	R. Lindsay	3.0	1.58	1.89	.98	3.0		.6		6		1/10	282 883
422	15	H. J. Tompkins	2.9	1.4	1.67	.96	2.2		.6		6		1/6	"
423	23	"	3.	1.4	1.36	.94	1.9		.6		6		1/3	"
424	26	"	5.5	4	1.25	1.14	5		.6		6		1/3	"
425	29	"	26	17	1.47	1.76	25		.6		13		1/3	"
426	1/4	"	11	4	1.40	1.12	5.6		.6		11		1/4	"
427	12	"	3.5	1.4	2.00	1.00	2.8		.6		7		1/5	"
428	20	"	3.7	1.4	1.65	.98	2.3		.6		8		1/4	282 883
429	21	R. Lindsay	3.7	1.34	1.77	.98	2.4		.6		6		1/6	"
430	22	H. J. Tompkins	3.8	1.5	1.53	.98	2.3		.6		7		1/4	"
431	30	"	5.0	1.6	1.25	.96	2.0		.6		5		1/4	"
432	2/1	"	26	24	1.79	2.14	43.0		.6		13		1/3	"
433	3	"	19.5	17	1.24	1.65	21.0		.6		11		1/4	"

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U4

Discharge measurements of BIG SANTA ANITA CREEK, NEAR SIERRA MADRE U.S.G.S. STATION

at Above Flood Control Dam, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
434	2/5	H. J. Tompkins	20.2	12	1.25	1.45	15		.6		11		1/5	953
435	8	"	28	38	2.58	2.78	98		.6		7		1/6	"
436	9	"	28	52	4.52	4.07	261.		Float		8		1/2	"
437	11	"	24.5	26	2.27	2.36	59		.6		11		1/3	"
438	17	"	21.3	20	1.40	1.80	28		.6		11		1/3	"
439	20	"	21	18	1.39	1.72	25		.6		11		1/3	"
440	25	"	17	15	1.34	1.62	20		.6		9		1/3	"
441	26	R. Lindsey	19.5	18.7	1.0	1.60	19		.6		10		2/5	282 883
442	3/1	H. J. Tompkins	16.5	14	1.07	1.52	15		.6		10		1/4	"
443	9	"	20	13	.77	1.36	10		.6		14		1/4	"
444	17	"	13.5	6.2	1.26	1.28	7.8		.6		14		1/4	"
445	23	"	13	6	1.13	1.22	6.8		.6		13		1/2	"
446	24	"	7	3.8	1.76	1.20	6.7		.6		7		1/4	"
447	4/1	"	6.5	3.4	1.62	1.15	5.5		.6		6		1/6	"
448	6	"	7.2	2.9	1.52	1.14	4.4		.6		7		1/2	"
449	12	"	7	2.8	1.36	1.08	3.8		.6		7		1/5	"
450	19	"	7	2.7	1.33	1.06	3.6		.6		7			"
451	26	"	6.5	3.1	1.45	1.11	4.5		.6		7		1/4	"
452	5/3	"	6.5	2.2	1.41	1.06	3.1		.6		7		1/4	"
453	10	"	6.5	2	1.35	1.04	2.7		.6		7		1/6	"
454	17	"	6	2	1.15	.98	2.3		.6		6		1/6	"
455	24	"	3.5	1.2	1.09	.92	1.3		.6		6		1/6	"
456	31	"	6	1.5	1.00	.96	1.5		.6		6		1/6	"
457	6/7	"	6	2	1.25	.98	2.5		.6		6		1/4	"
458	14	"	6	2	.95	.94	1.9		.6		6		1/3	"
459	21	"	6	1.5	1.00	.90	1.5		.6		6		1/4	"
460	28	"	5	1.3	.73	.88	.95		.6		5		1/6	"
461	7/5	"	4.7	1.4	.72	.87	.10		.6		5		1/6	"

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U4

Discharge measurements of BIG SANTA ANITA CREEK U.S.G.S. STATION

at Above Flood Control Dam, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
462	7/12	H. J. Tompkins	4.7	1.5	.67	.84	1.0		.6		8		1/4	953
463	19	"	4	1.4	.57	.81	.8		.6		8		1/4	"
464	26	"	.8	.3	1.31	.74	.42		.6		2		1/12	"
465	8/2	"	.6	.24	1.12	.70	.27		.6		2		"	"
466	9	"	.6	.24	1.00	.68	.24		.6		2		"	"
467	17	"	.7	.28	1.11	.70	.31		.6		2		1/6	"
468	22	"	.7	.28	.51	.64	.18		.6		2		1/6	"
469	30	"				.72	.22		Vol					
470	9/6	"	.8	.16	.88	.65	.14		.6		2		1/4	953
471	13	"	.8	.16	.56	.64	.09		.6		2		1/12	"
472	17	"	.8	.16	.50	.60	.08		.6		2		1/6	"
473	27	"	1.	.2	.60	.64	.12		.6		2		"	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U4

Discharge, in Second-Feet, of SANTA ANITA CREEK, U.S.G.S. STATION

Near SIERRA MADRE, CALIFORNIA for the Year Ending September 30, 1932

Drainage Area 10.5 Square Miles. [Observer.] Gage Read Used rating table dated

Maximum stage 4.50 feet at 9 AM on Feb. 9, 1932 Discharge 336 second-feet

Minimum stage .10 at various times during year Discharge second-feet

+ Estimated

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1				.2		1.0		7.5		65		15
2				.2		1.0		7		36		15
3				.2		1.0		6		22		14
4				.2		.9		5.5		18		13
5				.2		.9		5		15		13
6				.2		.8		4.6		14		12
7				.2		.7		4.0		13		11
8				.2		1.0		3.6		87		10
9				.3		4.6		3.4		236		10
10				.4		3.1		3.1		125		9.5
11				.7		3.3		2.9		64		9.5
12				.5		2.6		2.9		44		9.
13				.4		2.2		2.8		36		8.5
14				.4		2.3		2.6		33		8.5
15				3.6		2.2		2.9		28		8.5
16				1.4		1.8		2.6		30		8.
17				.9		1.7		2.5		30		7.5
18		.2		.7		1.5		2.5		28		7.5
19		.1		.6		1.5		2.3		27		7.5
20		.2		.6		1.5		2.3		25		7
21		.2		.6		2.0		2.3		23		7
22		.2		.6		2.0		2.3		23		7
23		.3		.6		1.9		2.2		22		6.5
24		.3		.6		1.9		2.2		21		7
25		.3		.6		4.9		2.2		20		+ 7
26		.3		.6		5.5		2.2		19		+ 7
27		.3		4.0		3.8		2.2		18		+ 6.5
28		.2		2.0		78.		2.2		17		+ 6.5
29		.2		1.4		28.		2.0		16		+ 6
30		.2		1.1		13.		2.0		–		+ 6
31		.2		–		9.5		13.		–		+ 6
TOTAL,		4.33		24.21		186.11		110.8		1155.		276.5
Mean Daily Discharge in Second-feet		0.14		0.81		6.0		3.57		39.8		8.92
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		8.6		48.2		369.		220		2,290.		548.
Maximum Mean Daily Discharge in Second-feet												
Minimum Mean Daily Discharge in Second-feet												

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1		5.5		2.9		1.3		.6		.3		.2	
2		5.5		2.9		1.5		.7		.3		.2	
3		5.5		3.1		1.9		.8		.3		.2	
4		4.9		3.1		2.0		.8		.3		.2	
5		4.6		3.1		2.2		.8		.2		.2	
6		4.0		3.1		2.2		.7		.2		.1	
7		3.6		3.1		2.0		.6		.2		.1	
8		3.6		2.9		1.8		.6		.2		.1	
9		3.6		2.8		1.8		.6		.2		.1	
10		3.4		2.6		1.7		.6		.2		.1	
11		3.6		2.5		1.7		.7		.3		.1	
12		3.6		2.5		1.7		.7		.3		.1	
13		3.6		2.5		1.7		.7		.3		.1	
14		3.6		2.6		1.7		.6		.3		.1	
15		3.6		2.6		1.7		.5		.3		.1	
16		3.8		2.6		1.8		.6		.3		.1	
17		3.8		2.5		2.0		.6		.3		.1	
18		3.8		2.3		1.9		.6		.3		.1	
19		3.8		2.2		1.6		.6		.3		.1	
20		4.9		2.2		1.4		.6		.2		.1	
21		4.2		2.0		1.2		.6		.2		.1	
22		4.0		1.9		1.1		.5		.2		.1	
23		3.8		1.7		1.0		.5		.2		.1	
24		3.8		1.3		1.0		.5		.2		.1	
25		4.2		1.2		1.0		.5		.2		.1	
26		4.9		1.2		.9		.4		.2		.1	
27		4.4		1.2		.9		.4		.2		.1	
28		3.8		1.3		.7		.4		.2		.1	
29		3.4		1.4		.7		.3		.2		.2	
30		3.3		1.3		.6		.3		.2		.2	
31		–		1.3		–		.3		.2		–	
TOTAL,		122.1		69.9		44.7		17.7		7.5		3.7	
Mean Daily Discharge in Second-feet		4.07		2.25		1.49		.57		.24		.12	5.52
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		242.		138.		88.7		35.1		14.9		7.3	4,010.
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

First Quarter / Second / Third / Fourth — Computed / Checked / Date — Disch. applied / Disch. checked / Date — G. H. copied / G. H. checked / Date

U 11

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, 1932 at office of U.S.G.S. Water Resources Branch, Los Angeles California.

Gage
Water stage recorder on west 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 - 1931-32
Maximum- 1330 c.f.s. Feb. 8, 1932
Minimum- .10 during Oct. and Nov.

Diversions
Several ranches divert part of the low flow for irrigation above the station.

Regulation
Flow regulated by the Los Angeles County Flood Control District Big Tujunga Dam No. 1

Accuracy
Fair

Operation
Constructed by U.S.G.S. Water Resources Branch and operated by U.S.G.S. Water Resources Branch in conjunction with the Los Angeles County Flood Control District.

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U11

Discharge measurements of BIG TUJUNGA CREEK, NEAR SUNLAND U.S.G.S. STATION

at near Submerged Dam, during the year ending September 30, 19 32

Sheet 1 of

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	Oct.		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	F.C.
660	23	J. L. Irwin	1.5	.18	.56	0.44	0.10						1/10	24
661	Nov. 21	"	1.2	.08	.33	.46	.04							"
662	27	H. J. Tompkins	16	7.6	0.94	.86	7.0	.6			6		1/3	953
663	30	"	2.4	.8	1.06	.48	.48	.6			4		1/12	"
664	12/7	"	2.3	.5	1.20	.50	.6	.6			4		1/4	"
665	8	J. L. Irwin	2	.25	1.00	.50	.24	.6					1/6	FC 24
666	9	H. J. Tompkins	8	3.1	1.16	.76	3.6	.6			8		1/5	953
667	9	J. L. Irwin	17	6	.73	.78	4.3	.6					1/3	FC 24
668	11	Browne-Ash	16	5.2	.41	.68	2.2	.6					1	"
669	14	" Moon	17	6	.28	.60	1.7	.6					1/2	"
670	18	Browne-Ash	17	5.8	.28	.60	1.7	.6					1/2	"
671	18	H. J. Tompkins				.62	1.7	.6			5		1/4	953
672	21	"	3.9	1.5	1.33	.66	2.0	.6			6		1/6	"
673	24	Browne	2.5	.90	1.2	.60	.08	.6					1/3	FC 24
674	25	"	6	1.3	.45	.60	.6	.6					1/2	"
675	26	H. J. Tompkins	10	5.9	1.70	.92	10.	.6			10		1/4	953
676	28	"	18	13	3.00	1.20	39.	.6			8		1/6	"
677	28	J. L. Irwin	17	13.9	9.14	1.17	28.	.6					1/3	FC 24
678	29	"	22	12.5	2.6	1.26	32.	.6					1/2	"
679	30	H. J. Tompkins	14	7.0	2.29	1.02	16	.6			12		1/3	953
680	1/2	"	14	5.8	2.24	.92	13	.6			12		1/6	"
681	7	Troxell & Ebert	9.5	4.1	1.39	.71	5.7	.6			8		1/4	27214
682	8	Browne	18	4.9	.92	.70	4.5	.6					1/2	FC 24
683	9	H. J. Tompkins	8	3.6	1.58	.70	5.7	.6			8		1/3	953
684	14	"	7.5	2.9	1.45	.64	4.2	.6			8		1/6	"
685	14	Browne	18	4.67	.81	.64	3.8	.6					1/3	FC 24
686	15	H. J. Tompkins	8	3.5	1.63	.70	5.7	.6			8		1/4	953

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U11

Discharge measurements of BIG TUJUNGA CREEK, NEAR SUNLAND U.S.G.S. STATION

at near Submerged Dam, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Gage 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	F.C.
687	1/15	Browne	19	5.2	.93	1.68	4.8		.6				5/12	24
688	19	H. J. Tompkins	8	3.6	1.53	.73	5.5		.6		8		1/4	953
689	22	Browne-Irwin	23	11.2	2.06	1.16	.23		.6		11		1/3	FC 24
690	29	Browne	19	7.44	1.02	.86	7.6		.6		10		1/5	"
691	2/1	Irwin	35	29	3.57	1.80	104.		.6		7	.03	1/4	8932
692	1	"	39	44.7	3.78	1.85	168.		.6		8	.06	1/2	"
693	2	"	36	29.3	3.45	1.87	108.		.6		7		1/4	"
694	3	H. J. Tompkins	17	13	3.70	1.51	48.		.6		13	.02	5/12	953
695	5	"	16	19	3.37	1.42	64.		.6		8		1/3	"
696	5	Browne	32	18	2.56	1.42	46.		.6		8		1/2	FC 24
697	6	H. J. Tompkins	16	18	3.39	1.44	61		.6		9		1/3	953
698	8	J. L. Irwin	64	29.1	2.71	1.57	79.		.6		16	.02	1/3	8932
699	8	"	37	41.4	4.11	2.00	170.		.6		7	.04	1/3	"
700	8	"	43	49.4	3.73	2.08	185.		.6		8		1/4	"
701	8	"	47	58.1	4.4	2.18	255.		.6		9			"
702	9	"	54	124.7		2.26	854.		.6		10		2/3	"
703		"	50	89		2.17	482.		.6		10		1/2	"
704	13	H. J. Tompkins	19	16	3.82	1.36	61		.6		8		1/4	953
705	15	J. L. Irwin	48	91.2	5.47	2.21	500.		.6		9		3/4	8932
706	16	"	51	108.	5	2.40	535.		.6		10		1/3	"
707	17	"	48	92.2	5.7	2.36	525.		.6		10		2/3	"
708	20	H. J. Tompkins	20	23	2.34	1.30	54		.6		10		1/2	953
709	26	"	19	16	1.75	1.06	28		.6		11		1/3	"
710	3/4	Browne	24	15	1.65	.98	25		.6		6		1/3	FC 24
711	8	H. J. Tompkins	20	12	1.17	.90	14		.6		10		1/6	953
712	11	Browne	23	13.4	1.23	.90	17		.6		6		1/3	FC 24
713	15	H. J. Tompkins	20	11	1.27	.88	14		.6		10		1/4	953
714	3/19	J. L. Irwin	17	6.25	2.24	0.88	13		.6		10		1/3	8932
715	25	H. J. Tompkins	16	7.8	1.12	.84	8.6		.6		8		1/6	953
716	30	"	11.5	8.8	1.14	.85	10		.6		11		1/4	"
717	4/2	"	10.5	8.1	1.08	.86	8.8		.6		11		1/3	"
718	8	"	11.5	9.5	1.26	.92	12		.6		12		1/3	"
719	15	"	19	13	1.54	1.06	20		.6		10		1/6	"
720	15	J. L. Irwin	21	15.6	1.08	1.02	17		.6		11		1/2	LAWD 8932
721	22	"	18.5	14.6	.90	.97	14		.6		6		1/4	FC 2
722	22	H. J. Tompkins	19	13	1.46	.98	19		.6		9		1/3	953
723	27	"	20	14	1.57	1.00	22		.6		10		1/3	"
724	5/5	"	11	9	1.05	.84	9.5		.6		11		1/3	"
725	6	J. L. Irwin	17	16	.68	.96	12		.6		6		1/3	FC 2
726	10	Moon	24	18.4	.94	.97	17		.6		9		1/6	"
727	13	H. J. Tompkins	19	13	1.31	.96	17		.6		10		1/3	953
728	14	J. L. Irwin	24	18.2	.82	.96	15		.6		8		1/3	FC 2
729	19	H. J. Tompkins	20	12	1.25	.94	15		.6		10		1/4	953
730	21	J. L. Irwin	14	15	1.96	.92	16		.6				1/2	FC 2
731	26	H. J. Tompkins	18	12	1.25	.88	15		.6		9		1/4	953
732	27	J. L. Irwin	28	16	.92	.89	15		.6		9		1/2	FC 2
733	6/3	H. J. Tompkins	18	13	1.31	.92	17		.6		9		1/4	953
734	7	J. L. Irwin	14	14.2	1.60	.92	23		.6				1/2	FC 2
735	9	H. J. Tompkins	20	13	1.32	.90	17		.6		10		1/4	953
736	15	"	19	13	1.23	.94	16		.6		9		1/4	"
737	24	"	19	12	1.25	.90	15		.6		10		1/3	"
738	7/2	J. L. Irwin	19	17	.96	.98	16		.6		8		1/2	FC 2
739	2	H. J. Tompkins	19	12	1.33	.97	16		.6		9		1/4	953
740	7	"	20	13	1.46	.96	19		.6		10		5/12	"
741	9	J. L. Irwin	30	18	.92	.98	17		.6		9		2/3	FC 2
742	7/15	H. J. Tompkins	17	13	1.23	.95	16		.6		9		1/3	953
743	16	J. L. Irwin	29	16.8	.92	.96	15		.6		9		1/2	FC 2
744	22	H. J. Tompkins	17	14	1.29	1.00	18		.6		9		1/3	953
745	28	"	17	12	1.42	.99	17		.6		9		1/3	"
746	8/3	"	17	11	1.18	.96	13		.6		9		1/3	"
747	12	"	14	8.9	.87	.78	7.7		.6					"
748	15	"	14	7.8	.85	.76	6.68		.6		13		1/3	"
749	18	J. L. Irwin	23	9.6	.70	.76	6.7		.6					FC 2
750	24	H. J. Tompkins	12	7.9	.99	.80	7.8		.6		12		1/3	953
751	25	Irwin-Patterson	19	20.4	.48	5.3	9.9		.6				1/6	FC 2
752	9/2	H. J. Tompkins	12	6.8	.78	.80	5.3		.6		12		1/4	953
753	12	"	12	7.3	.94	.81	6.9		.6		11		1/2	"
754	20	"	12	7.2	.96	.76	6.9		.6		12		1/2	"

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of TUJUNGA CREEK, U.S.G.S. STATION

Near SUNLAND for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 11

Drainage Area 106. Square Miles. [..... Observer.] Gage Read ..... Used rating table dated .....

Maximum stage 3.35 feet at Midnight on Feb. 8, 1932 Discharge 1330 second-feet.
Minimum stage .10 feet at during on Oct. & Nov. Discharge second-feet.
NOTE: Discharge Estimated Oct. 4 to Nov. 25, Dec. 1, 6, Jan. 25, 26 and Sept. 5, 11.

DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1		.1		.1		.8		11.		127.		26.
2		.1		.1		.8		14.		112.		25.
3		.2		.1		.7		10.		60.		25.
4		.2		.1		.7		8.		55.		24.
5		.2		.1		.7		6.5		55.		21.
6		.2		.1		.6		5.5		64.		18.
7		.2		.1		.6		5.		67.		16.
8		.2		.1		.8		5.		277.		15.
9		.2		.1		2.9		4.5		854.		15.
10		.2		.1		1.4		4.3		482.		17.
11		.2		.1		2.2		4.0		480.		17.
12		.2		.1		2.0		4.0		271.		16.
13		.2		.1		1.7		4.7		76.		15.
14		.2		.1		2.6		4.3		310.		15.
15		.2		.1		2.4		4.7		518.		14.
16		.2		.1		2.1		6.5		480.		14.
17		.2		.1		2.0		16.		540.		15.
18		.2		.1		1.7		6.5		310.		16.
19		.2		.1		1.5		6.		60.		14.
20		.2		.1		1.4		8.		56.		14.
21		.2		.1		1.7		12.		60.		13.
22		.2		.1		1.7		19.		105.		12.
23		.1		.2		1.6		11.		39.		11.
24		.1		.2		2.2		6.		37.		10.
25		.1		.2		15.		6.		30.		8.5
26		.2		.2		9.		6.		27.		9.
27		.2		3.7		7.		7.		27.		9.5
28		.2		2.2		99.		7.		26.		9.5
29		.1		.8		32.		7.		26.		10.
30		.1		.8		17.		7.		–		10.
31		.1		–		14.		52.		–		9.5
TOTAL		5.4		10.5		229.8		278.5		56.31		462.
Mean Daily Discharge in Second-feet		0.17		0.35		7.41		8.98		194.		14.9
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		10.		20.8		456.		552.		11,200		916
Maximum Mean Daily Discharge in Second-feet												
Minimum Mean Daily Discharge in Second-feet												

DAY	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period / Year
1		8.5		16.		16.		15.		14.		5.5	
2		8.5		16.		16.		15.		14.		5.	
3		8.		14.		17.		16.		13.		5.	
4		8.5		15.		18.		16.		8.		5.	
5		12.		13.		19.		17.		7.		5.	
6		13.		12.		19.		17.		7.		5.	
7		13.		15.		19.		17.		7.		6.	
8		13.		15.		19.		18.		7.		6.	
9		18.		16.		18.		18.		7.		6.	
10		20.		16.		18.		18.		7.		7.	
11		20.		17.		17.		17.		7.		7.	
12		19.		15.		16.		17.		7.		7.	
13		19.		15.		16.		17.		7.		6.5	
14		19.		15.		16.		16.		7.		6.	
15		19.		15.		16.		16.		6.5		6.5	
16		18.		13.		16.		15.		6.5		6.5	
17		17.		14.		16.		16.		6.		7.	
18		17.		15.		16.		16.		6.		6.5	
19		17.		15.		16.		17.		6.		6.5	
20		17.		12.		16.		17.		6.		6.5	
21		17.		14.		16.		18.		7.		6.5	
22		17.		15.		21.		17.		7.		6.5	
23		18.		16.		16.		17.		8.		6.5	
24		18.		16.		14.		17.		8.5		6.5	
25		19.		16.		16.		16.		9.5		6.5	
26		24.		16.		14.		16.		11.		6.5	
27		22.		16.		14.		16.		11.		6.5	
28		20.		16.		14.		16.		9.5		6.5	
29		19.		16.		15.		16.		7.		7.	
30		16.		16.		14.		15.		4.7		7.	
31		–		16.		–		14.		4.5		–	
TOTAL		494.5		46.7		492.		509.		247.7		187.5	
Mean Daily Discharge in Second-feet		16.5		15.1		16.4		16.4		7.86		6.25	24.6
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		982		928		976		1,010		485		372	17,900
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

Quarter / First / Second / Third / Fourth — Computed, Checked, Date; Disch. applied, Disch. checked, Date; G. H. copied, G. H. checked, Date

F. C. Dist. Form 104 12-31

U 2

EATON CREEK U.S.G.S. STATION

NEAR PASADENA, CALIF.

Location
Near line between secs. 2 and 11, T. 1 N., R. 12 W., at mouth of canyon just above Mount Wilson Toll Bridge, and 4 miles north-east of Pasadena.

Drainage Area
6.5 square miles.

Records Available
March 1, 1918 to Sept. 30, 1932 at U.S.G.S. office, Los Angeles, California.

Gage
Water Stage Recorder on east bank just above toll road bridge.

Discharge Measurements
Made by wading near gage.

Extremes of Discharge
1931-1932
Maximum- 361 c.f.s. Feb. 9, 1932
Minimum- Dry most of year.

Diversions
City of Pasadena diverts water above the station.

Regulation
None.

Accuracy
Good.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U2

Discharge measurements of EATON CREEK, NEAR PASADENA U.S.G.S. STATION

at Mt. Wilson Toll Road, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
118	12/26	Lindsey	3.7	1.22	1.38	1.41	1.7		.6		4		1/12	282 883
119	28	Lindsey-Cole	11.3	5.14	2.8	1.85	14.1		.6		8		1/4	"
120	28	"	20.0	23.7	6.92	2.86	164.2		.6		6		9/30	"
121	31	W. E. Cole	3.0	.57	.58	1.43	.33		.6		6		1/4	271 655
122	2/1	Lindsey-Cole	12.6	7.04	4.22	1.96	30		.6		8		1/6	282 883
123	2	H. J. Tompkins	11	5.5	3.82	1.95	21		.6		11		5/6	953
124	4	"	9	4	2.38	1.78	9.5		.6		9		1/6	"
125	5	Harting	2	.66	1.21	1.49	.8		.6				1/6	271 655
126	8	Lindsey-Cole	13.8	7.13	4.22	2.01	30.12		.6		8		1/6	282 883
127	8	"	17.7	13.1	4.57	2.34	60		.6		10		1/4	"
128	10	Lindsey	17	17.4	4.52	2.40	79		.6		9		1/4	"
129	11	H. J. Tompkins	20	10	4.10	2.11	41.		.6		10		1/4	"
130	12	Cole	11	6.62	3.01	1.90	20.		.6				11/60	282 883
131	12	H. J. Tompkins	10	6.7	2.68	1.90	18		.6		10		1/4	"
132	16	Lindsey-Cole	10	6.	2.37	1.88	14		.6		6		1/12	"
133	19	Lindsey	9.5	4	1.48	1.68	5.8		.6		5		"	"
134	25	"	9.6	3.67	1.68	1.65	6.2		.6		6		1/6	"
135	3/3	"	5.5	1.94	.77	1.60	1.5		.6		6		1/6	

F. C. D. Form 105 –1000– 9-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U2

Daily ~~Gage Height, in Feet, and~~ Discharge, in Second-Feet, of EATON CREEK, NEAR PASADENA U.S.G.S. STATION

NEAR PASADENA CALIFORNIA

for the Year Ending September 30, 1932

Drainage Area 6.5 Square Miles. [Observer.] Gage Read Used rating table dated

Maximum stage 3.52 feet at 2 PM on Feb. 9, 1932 Discharge 361 second-feet.

Minimum stage Dry feet at Most of year on Discharge second-feet.

+ Estimated

DAY	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge	DAY
1				0		0		.1		40		2.9	1
2				0		0		.1		18		2.2	2
3				0		0		0		6.5		1.5	3
4				0		0		0		8.		.8	4
5				0		0		0		1.2		.6	5
6				0		0		0		.6		.8	6
7				0		0		0		1.2		.4	7
8				0		+ .1		0		48.		0	8
9				0		+ .3		0		133.		0	9
10				0		0		0		80.		0	10
11				0		0		0		40.		0	11
12				0		0		0		23.		0	12
13				0		0		0		14.		0	13
14		DRY		0		+ .1		0		10.		0	14
15				0		+ .1		0		6.5		0	15
16				0		0		0		9.5		0	16
17				0		0		0		8.5		0	17
18				0		0		0		7.5		0	18
19				0		0		0		6.		0	19
20				0		0		0		6.		0	20
21				0		0		0		7.5		0	21
22				0		0		0		+ 7.		0	22
23				0		0		0		+ 6.5		0	23
24				0		0		0		+ 6.		0	24
25				0		.9		0		5.5		0	25
26				0		.7		0		4.1		0	26
27				.2		0		0		2.6		0	27
28				.1		56.		0		2.3		0	28
29				0		25.		0		2.1		0	29
30				0		5.5		0		–		0	30
31				–		.3		12.		–		0	31
TOTAL,				.3		89.		12.2		511.1		9.2	

April, May, June, July, August and September: daily columns (Gage height, Discharge) not filled in.

	October	November	December	January	February	March	April	May	June	July	August	September	Period Year
Mean Daily Discharge in Second-feet	0	.01	2.87	.39	17.6	.30	0	0	0	0	0	0	1.70
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet	0	.6	176	24	1,010.	18.4	0	0	0	0	0	0	1230
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

Fourth / Third / Second / First / Quarter — Computed / Checked / Date; Disch. applied / Disch. checked / Date; G. H. copied / G. H. checked / Date

U 7

FISH CREEK U.S.G.S. STATION

NEAR DUARTE, CALIFORNIA.

Location
In SW¼ SW¼ Sec. 15, T. 1 N. R. 10 W., about 3/4 of a mile above mouth of canyon and 4 miles northeast of Duarte.

Drainage Area
6.5 square miles

Records Available
July 23, 1916 to Sept. 30, 1932 at U.S.G.S. office in Los Angeles, California.

Gage
Water stage recorder, installed July 28, 1917 on left bank. Vertical staff gage at same site and elevation.

Discharge Measurements
Made by wading

Channel and Control
Gravel and boulders; apparently permanent. Both banks are high and not subject to overflow. Concrete control has been built a short distance below gage.

Extremes of Discharges
1931-1932
Maximum- 415 c.f.s. Dec. 28, 1931
Minimum- Less .10 several times during year.

Diversions
None above gage.

Regulation
None

Accuracy
Good

Operation
Constructed by the U.S.G.S. Water Resources Branch and operated by U.S.G.S. Water Resources Branch in conjunction with the Los Angeles County Flood Control District.

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U7

Discharge measurements of FISH CREEK, NEAR DUARTE U.S.G.S. STATION

ABOVE MOUTH OF CANYON, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
620	10/9	Lindsay	0.5	.04	.75	1.64	.03		.6				1/60	282 883
621	14	H. J. Tompkins				1.72	.09		vol					
622	16	Lindsay	0.5	.10	.39	1.66	.04		.6		1		1/60	282 883
623	20	H. J. Tompkins	1. 7	. 6	.54	1.76	.32		.6					953
624	23	Lindsay	1.6	.56	.61	1.75	.34		.6		3		1/12	282 883
625	28	H. J. Tompkins	1.7	.48	.38	1.72	.18		.6					953
626	30	Lindsay	1.6	.46	.37	1.68	.17		.6		3		1/12	282 883
627	11/5	H. J. Tompkins	1.0	.32	.47	1.72	.15		.6					953
628	6	Lindsay	1.0	.32	.53	1.70	.17		.6		2		1/30	282 883
629	11	H. J. Tompkins	1.8	1.0	1.00	1.90	1.0		.6					953
630	13	Lindsay	1.8	.90	.48	1.77	.43		.6		4		1/12	282 883
631	17	H. J. Tompkins	2.1	.7	1.22	1.86	.85		.6					953
632	20	Lindsay	2.7	1.47	.39	1.79	.58		.6		5		1/12	282 883
633	27	Lindsey-Burke	9.1	6.9	2.09	2.69	14.49		.6		7		2/15	"
634	28	H. J. Tompkins	2.9	2.3	1.13	2.10	2. 0		.6					953
635	12/2	"	2.3	.8	1.12	1.84	.9		.6					
636	4	Lindsey-Cole	2.8	1.67	.45	1.82	.75		.6		5		1/6	282 883
637	10	H. J. Tompkins	4.7	3.5	1.80	2.30	6.3		.6					953
638	11	Lindsey	7.0	4.4	1.29	2.33	5.7		.6		7		1/5	282 883
639	17	H. J. Tompkins	3.1	2.2	.91	2.02	2.		.6					953
640	18	Lindsey-VanderGoot	5.0	1.9	1.04	2.00	2.		.6		5			282 883
641	26	"	6.5	4.1	1.46	2.30	6.0		.6		7		1/6	"
642	27	H. J. Tompkins	5.0	2.9	1.45	2.18	4.2		.6					953
644	29	Lindsey-Cole	15.	12.	2.47	2.82	29.		.6		14		4/15	282 883
645	31	H. J. Tompkins	16	6.6	1.24	2.46	8.2		.6					953
646	1/5	"	4.3	2.2	2.04	2.30	4.5		.6					"
647	8	Lindsey-Harting	3.9	1.85	1.57	2.27	2.9		.6		7		1/6	282 883
648	15	Lindsey	3.9	1.82	1.68	2.26	3.1		.6		4		1/6	"

F. C. Dist. Form 104 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U7

Discharge measurements of FISH CREEK, NEAR DUARTE U.S.G.S. STATION

~~at~~ ~~CREEK~~ Above Mouth of Canyon, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							
649	1/16	H. J. Tompkins	4.1	2.2	1.18	2.24	2.6		.6					953
650	18	"	4.	2.1	1.05	2.24	2.2		.6					"
651	22	Lindsey	3.9	1.88	1.12	2.22	2.1		.6		7		1/6	282 883
652	28	"	3.8	1.81	1.02	2.21	1.8		.6		7		1/6	"
653	2/1	Lindsey-Cole	18	18	2.7	3.07	48		.6		10		1/5	"
654	2	F. C. Ebert	19	16	2.63	2.99	42		.6					27214
655	4	H. J. Tompkins	14	9	2.11	2.66	19		.6					953
656	5	Harting	17	7.85	1.66	2.54	13		.6		11		1/3	271 666
657	10	F. C. Ebert	.23	28	3.25	3.34	91		.6					27214
658	12	"	17	17	1.94	2.85	33		.6					"
659	16	"	17	16	1.63	2.72	26		.6					"
660	19	H. J. Tompkins	16	16	1.65	2.75	27		.6					953
661	19	Lindsey	16	16	1.54	2.74	25		.6		9		1/4	282 883
662	23	F. C. Ebert	17	14	1.29	2.60	18		.6					27214
663	25	H. J. Tompkins	16	11	1.36	2.51	15		.6				1/4	953
664	26	Lindsey	16	12.5	1.04	2.50	13		.6		9		1/4	282 883
665	3/3	Lee - Martin	11	6.60	1.25	2.40	8.2		.6				1/3	29
666	4	Lindsey	15.7	10.3	.81	2.38	8.4		.6		9		1/4	282 883
667	4	Lee - Martin	10	5.50	1.33	2.37	7.3		.6				1/3	29
668	5	H. J. Tompkins	11	6	1.32	2.36	7.6		.6				1/3	953
669	10	Lindsey	15.5	9.13	.67	2.30	6.2		.6		12		1/4	282 883
670	11	Lee - Martin	9	4.70	1	2.29	4.4		.6				1/3	29
671	15	H. J. Tompkins	10	5.7	1.02	2.26	5.8		.6				1/4	953
672	18	Lee- Martin	7	4.00	1.04	2.24	4.2		.6				1/3	29
673	25	Lindsey	5.8	2.5	1.49	2.17	3.7		.6		6		1/6	282 883
674	25	Lee - Martin	6	320	3.12	2.18	3.6		.6				1/5	29
675	26	H. J. Tompkins	4	3.6	.96	2.17	3.5							
676	4/1	F. C. Ebert	12	6.3	.52	2.14	3.3		.6				1/3	27214

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 7

Discharge measurements of FISH CREEK, NEAR DUARTE U.S.G.S. STATION

~~at~~ ~~CREEK~~ Above Mouth of Canyon, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							
704	6/24	Lindsey	3.3	1.06	.68	1.96	.7		.6		6		1/6	282 883
705	25	H. J. Tompkins	3.4	1.2	.67	1.96	.8		.6		11		1/4	953
706	7/6	"	3.4	1.2	.58	1.94	.7		.6		5		1/6	"
707	8	Lindsey	2.1	.48	.94	1.90	.45		.6		4		1/12	282 883
708	13	H. J. Tompkins	3.3	1.2	.54	1.94	.65		.6		7		1/6	953
709	20	"	3.2	.9	.44	1.88	.4		.6		7		1/6	"
710	22	Lindsey	1.6	.32	.72	1.86	.23		.6		3		1/20	282 883
711	27	H. J. Tompkins	1.4	.28	.57	1.86	.16		.6		2		1/12	953
712	29	Lindsey	1.6	.29	.55	1.84	.16		.6		3		1/12	282 883
713	30	H. J. Tompkins	1.5	.3	.37	1.84	.11		.6		2		1/6	953
714	8/3	"	1.4	.28	.36	1.84	.10		.6		2		1/12	"
215	5	Lindsey				1.82	.11		Weir					
216	10	H. J. Tompkins	1.4	.28	.39	1.86	.11		.6		2		1/4	"
717	12	Lindsey				1.87	.26		Weir					
718	18	H. J. Tompkins	1.5	.3	.30	1.83	.09		.6		2		1/6	"
719	19	Brewster	1.0	.12	1.00	1.83	.12		.6		2		1/12	271 666
720	23	H. J. Tompkins	.7	.14	.07	1.78	.01		.6		2		1/4	953
721	26	Brewster	1.0	.11	.55	1.78	.06		.6		2		1/12	271 666
722	31	H. J. Tompkins				1.90	.33		Vol.					
723	9/2	Brewster	1.5	.22	.91	1.87	.20		.6		3		1/12	"
724	7	H. J. Tompkins	.4	.04	.50	1.80	.02		.6		2		1/6	953
725	8	Lindsey				1.78	.02		Weir					
726	10	H. J. Tompkins	4	.04	.50	1.78	.02		.6		2		1/12	"
727	16	Lindsey				1.80	.07		Weir					
728	19	H. J. Tompkins	.8	.16	.62	1.86	.1		.6		2		1/12	"
729	23	Lindsey				1.84	.12		Weir					
730	29	H. J. Tompkins	.9	.28	.79	1.88	.22		.6		2		1/6	"

F. C. Dist. Form 104 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U7

Discharge measurements of FISH CREEK, NEAR DUARTE U.S.G.S. STATION

~~at~~ ~~CREEK~~ ABOVE MOUTH OF CANYON, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G. Ht. change Total	Time Hours	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							
677	4/1	Lindsey	5.7	2.25	1.30	2.12	2.9		.6		6		1/6	282 883
678	5	Lee - Martin	6	2.25	1.21	2.13	2.7		.6				1/4	29
679	7	H. J. Tompkins	4.0	3.2	.78	2.10	2.5		.6		8		1/4	953
680	8	Lindsey	5.7	2.24	1.20	2.09	2.7		.6		6		1/4	282 883
681	12	Lee - Martin	6	2.40	1.02	2.06	2.5		.6				1/3	29
682	13	H. J. Tompkins	4.0	1.6	1.50	2.06	2.4		.6		8		1/3	953
683	15	Lindsey	5.7	2.06	1.19	2.06	2.5		.6		6		1/6	282 883
684	20	Lee - Martin	7	3.05	1.24	2.19	3.8		.6					29
685	21	H. J. Tompkins	4.0	1.7	1.47	2.06	2.5		.6		8		1/4	953
686	22	Lindsey	7.3	2.56	1.17	2.06	3.0		.6		7		1/6	282 883
687	26	H. J. Tompkins	4.0	2.0	1.90	2.12	3.8		.6		7		1/4	953
688	29	Lindsey	3.9	1.65	1.42	2.06	2.4		.6		7		1/6	282 883
689	5/2	H. J. Tompkins	4.0	1.7	1.18	2.04	2.0		.6		6		1/10	953
690	6	Lindsey	4	1.81	1.30	2.06	2.4		.6		7		1/6	282 883
691	10	H. J. Tompkins	3.9	1.8	1.28	2.05	2.3		.6		6		1/6	953
692	13	Lindsey	3.8	1.58	1.25	2.04	2.0		.6		7		1/4	282 883
693	16	H. J. Tompkins	3.9	1.7	1.12	2.02	1.9		.6		7		1/4	953
694	20	Lindsey	3.9	1.54	1.13	2.01	1.7		.6		7		1/6	282 883
695	23	H. J. Tompkins	3.4	1.2	.83	1.98	1.0		.6		6		1/4	953
696	27	Lindsey	3.7	1.30	.99	2.00	1.3		.6		7		1/6	282 883
697	6/1	H. J. Tompkins	3.4	1.2	.75	2.00	.9		.6					953
698	3	Lindsey	3.9	1.7	1.24	2.06	21		.6		7		1/6	282 883
699	4	H. J. Tompkins	3.9	1.6	1.19	2.04	1.9		.6		6		1/4	953
700	10	Lindsey	3.6	1.28	.95	1.98	1.2		.6		7		1/6	282 883
701	11	H. J. Tompkins	3.6	1.2	.71	1.98	.85		.6		4		1/3	953
702	18	"	3.5	1.2	.92	2.02	1.1		.6		6		1/3	"
703	20	"	3.5	1.2	.79	1.98	.95		.6		6		1/6	"

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U7

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of FISH CREEK, U.S.G.S. STATION

Near DUARTE, CALIFORNIA for the Year Ending September 30, 1932.

Drainage Area 5.5 Square Miles. [Observer.] Gage Read Used rating table dated

Maximum stage 4.61 feet at 4 PM on Dec. 28, 1931 Discharge 415 second-feet.

Minimum stage Less than .10 several times during year. second-feet.

NOTE: Discharge less than 0.1 second foot on days for which no discharge is given.

≠ Estimated.

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge
1				.2		1.1		6.5		79		9.5
2				.2		.9		7.5		48		8.5
3				.2		.8		6		26		8
4				.2		.8		5.5		18		8
5				.2		.7		4.8		13		8
6				.2		.6		4.4		11		7.5
7				.2		.6		3.5		10		7.5
8				.3		1.1		3.0		78		7
9				.4		9.5		≠3.0		213		7
10				.4		7.5		≠3.0		97		6.5
11		.1		1.0		5.5		≠3.0		48		6
12		.1		.9		4.5		≠3.1		33		6
13		.1		.7		3.2		≠3.1		29		6
14		.1		.6		3.2		≠3.2		27		6
15				4.9		3.5		3.2		24		6
16				1.6		2.6		2.7		28		5.5
17				1.0		2.2		2.4		30		4.8
18		.4		.8		1.9		1.8		29		4.2
19		.6		.7		1.6		1.5		26		4.0
20		.3		.6		1.5		1.8		24		4.0
21		.4		.6		1.9		1.8		22		3.8
22		.4		.6		2.0		2.1		20		3.7
23		.4		.6		1.7		2.1		18		3.7
24		.4		.5		1.5		2.1		16		3.8
25		.3		.6		4.9		2.1		15		3.7
26		.3		.6		6		2.1		14		3.7
27		.2		6.5		4.3		2.1		12		3.4
28		.2		3.9		127		2.1		11		3.2
29		.2		2.2		35		1.8		11		3.2
30		.1		1.4		14		1.8		–		3.2
31		.2		–		8		28		–		3.2
TOTAL,				32.8		259.6		121.1		1030		168.6
Mean Daily Discharge in Second-feet		0.165		1.09		8.37		3.91		35.5		5.44
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		10.1		64.9		515		240		2,040		334
Maximum Mean Daily Discharge in Second-feet												
Minimum Mean Daily Discharge in Second-feet												

Day	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge	Period Year
1		3.0		2.0		.8		.5		.1		.3	
2		3.0		2.0		1.1		.6		.1		.2	
3		2.9		2.2		1.8		.6		.1		.2	
4		2.7		2.3		1.8		.7		.1		.1	
5		2.6		2.4		1.8		.7					
6		2.4		2.4		1.7		.6					
7		2.4		2.4		1.2		.6					
8		2.3		2.3		1.0		.6					
9		2.3		2.2		1.0		.6		.1			
10		2.3		2.3		.9		.6		.1			
11		2.3		2.2		.9		.5		.2			
12		2.3		1.9		.8		.5		.2			
13		2.3		1.9		.8		.6		.2			
14		2.3		1.9		.8		.5		.2			
15		2.3		1.9		.9		.4		.2			
16		2.3		1.9		.9		.4		.2			
17		2.3		1.8		1.1		.3		.1		.1	
18		2.2		1.6		1.0		.3		.1		.1	
19		2.2		1.6		.9		.4		.1		.2	
20		3.2		1.6		.7		.4				.4	
21		2.7		1.4		.7		.4				.4	
22		2.7		1.3		.7		.3				.2	
23		2.6		1.1		.7		.3				.1	
24		2.6		1.0		.6		.2				.1	
25		3.2		1.0		.6		.2				.1	
26		3.5		1.2		.7		.2				.1	
27		2.9		1.2		.7		.2				.1	
28		2.6		1.1		.6		.2				.1	
29		2.3		1.0		.6		.1		.1		.2	
30		2.2		.9		.5		.1		.4		.3	
31		–		.9		–		.1		.4		–	
TOTAL,		76.9		52.9		28.3		12.7					
Mean Daily Discharge in Second-feet		2.56		1.71		.94		.41		.11		.12	4.90
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		152		105		56.1		25.2		6.8		7.3	3,560
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

U 12

HAINES CREEK U.S.G.S. STATION NEAR TUJUNGA

Location
In N.E. ¼ NE ¼ Sec. 18, T. 2 N., R. 13 W., 800' above mouth of canyon and 1½ miles northeast of Tujunga.

Drainage Area
1.2 square miles.

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

Records Available
Feb. 1917 to Sept. 30, 1932 at U.S.G.S. Water Resources Branch, office at Los Angeles, Calif.

Gage
Water Stage Recorder located on west side of stream.

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–3.8 c.f.s. Feb. 9, 1932
Minimum–Dry most of year

Diversions
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

Operation
Constructed by U.S.G.S. Water Resources Branch and operated by the U.S.G.S. Water Resources Branch in conjunction with the Los Angeles County Flood Control District.

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 12

Discharge measurements of Haines Creek U.S.G.S. Station

near Tujunga, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1931													
144	11-16	H. J. Thompkins				.26	.0009		Vol					
	1932													
145	2-10	" "				.62	.62		Vol					
146	2-16	" "				.46	.22		Vol					
1	26	Turner	.8	.10	.8	–	.08		.6		2		1/12	FC 25
147	3-10	"	7	.14	1.21	–	.17		.6		1			FC 30
148	11	Thompkins				.46	.17		Vol					
3	26	Turner				–	.028		Flume					
149	31	Thompkins				.40	.09		Vol					
150	4-2	"				.38	.08		"					
4	11	Turner					.04		"					
5	18	"				.32	.04		"					
6	26	"				.35	.035		"					
7	5-2	"				.35	.027		"					
8	9	"				.35	.02		"					
151	20	Thompkins				.30	.013		"					
152	26	"				.30	.010		"					
153	6-9	"				.28	.005		"					

F.C. Dist. Form 105 1000 9-31

Daily Discharge, in Second-Feet, of HAINES CREEK, U.S.G.S. STATION

Near TUJUNGA, CALIFORNIA for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 12

Drainage Area 1.2 Square Miles. (Observer.) Gage Read ... Used rating table dated ...

Maximum stage .96 feet at 1 PM on Feb. 9, 1932 Discharge 3.8 second-feet.
Minimum stage Dry most of year Discharge ... second-feet.
a - Estimated

Day	October Gage height	October Discharge	November Gage height	November Discharge	December Gage height	December Discharge	January Gage height	January Discharge	February Gage height	February Discharge	March Gage height	March Discharge	April Gage height	April Discharge	May Gage height	May Discharge	June Gage height	June Discharge	July Gage height	July Discharge	August Gage height	August Discharge	September Gage height	September Discharge
1										0.02		0.16		0.09		0.04								
2										.01		.18		.08		.04								
3										0		.18		.08		.04								
4										0		.18		.08		.03								
5										0		.18		.07		.03								
6										.01		.19		.07		.03								
7										.01		.19		.06		.03								
8										.08		.18		.06		.03								
9										1.7		.18		.06		.03								
10										.80		.18		.06		.03								
11										.65		.18		.06		.02								
12										.41		.19		.06		.02								
13										.22		.19		.06		.02								
14										.22		.19		.06		.02								
15										.20		.18		.06		.02								
16										.22		.18		.06		.02								
17										.22		.16		.06		.02								
18										.22		.14		.06		.01								
19										.20		.14		.06		.01								
20										.19		.14		.06		.01								
21										.20		.14		.06		.01								
22										.22		.13		.06		.01								
23										.20		.12		.06		.01								
24										.19		.10		.06		.01								
25										.16		.10		.06		.01								
26										.16		.10		.07		.01								
27										.16		.09		.06		.01								
28										.16		.09		.06		.02								
29										.16		.09		.05		.02								
30										–		.09		.05		.02								
31										–		.09		–		.01								

	October	November	December	January	February	March	April	May	June	July	August	September	Period Year
TOTAL					6.99	4.63	1.90	.64					
Mean Daily Discharge in Second-feet	a .0006	a .0009	a .005	a .005	0.241	0.149	0.063	0.021	a .004	a 0.001	a 0.0005	a 0.0004	0.0401
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet	.04	.05	.31	.31	13.9	9.16	3.75	1.29	.24	.06	.03	.02	29.2
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

U3

LITTLE SANTA ANITA CREEK USGS STATION

NEAR SIERRA MADRE, CALIFORNIA

Location
Near center of W½, Sec. 9, T. 1 N., R. 11 W., 2 miles northeast of Sierra Madre. 2 miles above Flood Control Debris Dam.

Drainage Area
1.9 square miles.

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

Records Available
April 15, 1916 to Sept. 30, 1932 at U.S.G.S. office, Los Angeles, California.

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

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

Channel and Control
Red consists of gravel and boulders. Right bank is rock cliff. Left banks is stone wall 5' high. Control is small concrete dam with triangular notch at left end, just below gage. Controlnot permanent for high stage on account of gravel deposited in pool just above dam.

Extremes of Discharge
Maximum-47 c.f.s. on Feb. 9, 1932
Minimum-Dry at various times of year.

Diversions
None above station

Regulation
None

Accuracy
Good

Co-operation
Constructed by U.S.G.S. Water Resources Branch and operated by the U.S.G.S. Water Resources Branch in conjunction with the Los Angeles County Flood Control District.

F. C. Dist. Form 104 (2) 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U3

Discharge measurements of LITTLE SANTA ANITA, NEAR SIERRA MADRE U.S.G.S. STATION

Above Flood Control Dam, during the year ending September 30, 1932

Sheet 1 of

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
364	Oct. 13	H. J. Tompkins				0.39	.007		vol					
365	19	"				.46	.04		vol					
366	27	"				.44	.022		vol					
367	11/3	"				.42	.013		vol					
368	12	"				.52	.134		vol					
369	12	Lindsey	55.	.14	.59	.48	.08		.6		1	1		282 883
270	17	H. J. Tompkins		.08	.35	.52	.03		.6		2		1/3	953
371	21	"				.51	.062		vol					
372	24	"				.50	.051		vol					
373	28	"	.9	.15	.60	.62	.09		.6		3		1/12	"
374	12/10	Lindsey	.95	.16	1.08	.64	.17		.6					282 883
375	10	H. J. Tompkins	.93	.17	.59	.64	.10		.6		2		1/6	"
376	15	"	1.1	.22	.50	.68	.11		.6		2		"	"
377	23	"	1.0	.18	.55	.64	.1		.6		2		1/12	"
378	27	"	1.1	.22	.64	.74	.14		.6		2		1/6	"
379	30	"	4	1.3	1.08	1.10	1.4		.6		7		1/4	"
380	1/4	"	1.4	.35	1.08	.88	.38		.6		3		"	"
381	13	"	1.1	.24	1.00	.76	.24		.6		3		1/12	"
382	20	"	1.1	.3	.50	.72	.15		.6		1		"	"
383	2/1	"	4.7	1.8	2.67	1.32	4.8		.6		5		5/6	"
384	4	"	14	7.2	3.80	1.70	28		.6		13		1/4	"
385	12	"	4.5	2	2.65	1.30	5.3		.6		9		1/6	"
386	17	"	4	1.6	2.25	1.24	3.6		.6		8		1/6	"
387	34	"	4	1.6	1.63	1.20	2.6		.6		8		1/7	"
388	3/1	"	4	1.6	1.19	1.16	1.9		.6		8		1/4	"
389	10	"	3.5	1.2	.92	1.04	1.1		.6		7		1/6	"
390	11	Lindsey	3.6	1.16	.95	1.04	1.1		.6		7		1/5	"
391	17	H. J. Tompkins	3.7	1.1	.86	.98	.45		.6		7		1/4	"

F. C. Dist. Form 104 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U3

Discharge measurements of LITTLE SANTA ANITA, NEAR SIERRA MADRE U.S.G.S.STATION

~~Near~~ ABOVE FLOOD CONTROL DAM, during the year ending September 30, 1932

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	
392	3/25	H. J. Tompkins	3.5	1.	.80	.42	0.8		.6		7		1/4	953
393	4/1	"	3.	.85	.71	.86	.6		.6		6		1/6	"
394	7	"	3.2	.9	.72	.85	.65		.6		6		1/4	"
395	12	"	1.3	.28	1.11	.78	.31		.6		4			"
396	19	"	1.2	.27	1.08	.78	.29		.6		4		1/6	"
397	28	"	1.4	.34	1.35	.80	.46		.6		4		1/12	"
398	5/4	"	1.3	.28	1.15	.78	.32		.6		2		1/12	"
399	11	"	1.2	.27	1.11	.76	.30		.6		4		1/4	"
400	12	Lindsey	3	.87	.52	.75	.45		.6					282 883
401	18	H. J. Tompkins	1.1	.28	.79	.74	.22		.6		3		1/6	"
402	25	"	2.	.6	.43	.70	.26		.6		4		"	"
403	6/2	"	2.	.75	.41	.72	.31		.6		5		1/12	"
404	8	"	1.9	.5	.46	.70	.23		.6		4		1/6	"
405	16	"	1.9	.48	.46	.68	.22		.6		5		1/6	"
406	23	"	1.8	.49	.29	.66	.14		.6		5		"	"
407	29	"	1.6	.60	.3	.66	.19		.6		4		1/4	"
408	7/6	"	2	.33	.42	.60	.14		.6		5		1/6	"
409	13	"	1.9	.32	.43	.60	.14		.6		5		1/12	"
410	20	"	2.	.4	.30	.57	.12		.6		4		1/6	"
411	29	"	.7	.08	.37	.54	.03		.6		2			"
412	8/4	"	.7	.07	.14	.52	.01		.6		2			"
413	10	"	.7	.07	.29	.53	.02		.6		2			"
414	18	"					.04		Vol					"
415	23	"				.48	.02		vol					"
416	31	"				.52	.06		vol					"

F.C. Dist.—Form 105—1000—9-31

~~Daily Gage Height and~~ Discharge, in Second-Feet, of LITTLE SANTA ANITA CREEK
U.S.G.S. STATION
Near SIERRA MADRE, CALIFORNIA for the Year Ending September 30, 19 32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

U 3
File No.

Drainage Area 1.9 Square Miles. [Observer.] Gage Read 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								.7		6.5		1.9	1		.6		.4		.3		.1					1
2								.7		3.7		1.7	2		.6		.4		.3		.1					2
3								.5		2.5		1.7	3		.6		.3		.4		.1					3
4								.4		1.8		1.6	4		.6		.3		.3		.2					4
5								.4		1.5		1.5	5		.7		.3		.3		.1					5
6								.3		1.3		1.5	6		.7		.3		.3		.1					6
7								.3		1.2		1.4	7		.7		.3		.3		.1					7
8						.1		.3		9.5		1.3	8		.6		.3		.2		.1					8
9						.2		.3		26.		1.2	9		.5		.3		.2		.1					9
10						.1		.2		10.		1.2	10		.5		.3		.2		.1					10
11				.2		.2		.2		7.		1.1	11		.4		.3		.2		.1					11
12				.1		.1		.2		4.9		1.0	12		.3		.3		.2		.1					12
13								.2		4.4		1.0	13		.3		.3		.2		.1					13
14						.2		.2		4.2		1.0	14		.3		.3		.2		.1					14
15				.3		.1		.2		3.5		1.0	15		.3		.2		.2		.1					15
16						.1		.2		3.5		1.0	16		.3		.2		.2		.1					16
17								.2		3.5		1.0	17		.3		.2		.2		.1					17
18								.2		3.2		1.1	18		.3		.2		.2		.1					18
19								.2		3.0		1.0	19		.3		.2		.2		.1					19
20								.2		3.0		1.1	20		.4		.2		.2		.1					20
21						.1		.2		3.0		1.1	21		.4		.3		.1							21
22						.1		.2		3.0		1.0	22		.4		.3		.1							22
23						.1		.2		3.0		.9	23		.4		.3		.1							23
24						.1		.2		2.7		.9	24		.4		.3		.1							24
25						.4		.2		2.5		.8	25		.5		.3		.1							25
26						.2		.2		2.3		.8	26		.6		.3		.1							26
27				.4		.1		.2		2.2		.8	27		.5		.3		.1							27
28						6.		.3		2.0		.7	28		.4		.3		.1							28
29						1.9		.3		2.0		.7	29		.4		.3		.1							29
30						1.3		.3		–		.7	30		.4		.3		.1							30
31						1.0		3.6		–		.6	31		–		.3		–							31
TOTAL								120		126.9		34.5			13.7		8.9		5.8							
Mean Daily Discharge in Second-feet		.018		.071		.428		.39		4.58		1.11			4.56		.29		.193		.092		.028		.032	.607
Second-feet per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet		1.11		4.22		26.3		240		252.		68.2			27.1		17.8		11.5		5.66		1.72		1.90	442
Maximum Mean Daily Discharge in Second-feet																										
Minimum Mean Daily Discharge in Second-feet																										

Maximum stage 1.92 feet at 8 AM on Feb. 9, 1932 Discharge 47. second-feet.
Minimum stage Discharge second-feet.
NOTE: Discharge less than 1 c.f.s. on days for which no discharge is given

Quarter: First Second Third Fourth — Computed — Checked — Date
Quarter: First Second Third Fourth — Check applied — Check checked — Date
Quarter: First — C. H. copied — C. H. checked — Date
PERIOD YEAR

ROGERS CREEK U.S.G.S. STATION NEAR

AZUSA, CALIF.

Location
In NW¼, NW¼ Sec. 23, T. 1 N., R. 10 W., one half mile above mouth of creek and 2½ miles north of Azusa.

Drainage
6.4 square miles.

Records Available
May 8, 1916 to September 30, 1932, U.S.G.S. office in Los Angeles, California.

Gage
Water stage recorder on north bank near mouth of canyon.

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

Extremes of Discharge
1931-1932
Maximum-296 c.f.s. on Dec. 28, 1931
Minimum-Dry at various times during year.

Diversion
Two small diversions above station.

Regulation
None

Accuracy
Fair

Operation
Constructed by U.S.G.S. Water Resources Branch and operated by U.S.G.S. Water Resources Branch in conjunction with Los Angeles County Flood Control District.

F. C. Dist. Form 104 HH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U6

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

at Above Mouth of Canyon, during the year ending September 30, 1932

Sheet 2 of 3

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	
485	2/9	F. C. Ebert	25	28	6.54	4.69	183.		.6		10		5/12	27214
486	10	Lindsay	23.	21.04	3.59	4.04	76		.6		10		1/4	282 883
487	12	Cole	11.6	11.73	2.26	3.55	27		.6		6		1/4	"
488	15	F. C. Ebert	16	11	1.73	3.32	19		.6		10		1/4	27214
489	16	Lindsay-Cole	13.5	11	2.07	3.40	23		.6		6		1/6	282 883
490	23	F. C. Ebert	16	9.6	1.56	3.17	15		.6		12		1/4	27214
491	26	Lee - Martin	12	6.7	1.93	3.08	13		.6		6		1/4	29
492	26	Lindsay	11.5	8.57	1.37	3.08	12		.6		10		1/6	282 883
493	3/1	F. C. Ebert	14	7.0	1.29	3.04	9		.6		14			27214
494	2	Lee-Martin	10	5.10	1.55	3.03	7.9		.6		5		1/4	29
495	3	H. J. Tompkins	12	5.5	1.35	3.02	7.4		.6		11		1/4	953
496	4	Lindsay	10.6	7.04	1.03	3.00	7.3		.6		7		1/6	282 883
497	11	Lee - Martin	6	3.40	1.06	2.93	3.6		.6		6		1/4	29
498	11	R. Lindsay	10.5	6.10	.73	2.93	4.5		.6		7		1/6	282 883
499	16	H. J. Tompkins	12	5.1	.84	2.90	4.3		.6		12		1/4	953
500	18	Lee - Martin	5.0	3.35	1.01	2.90	3.4		.6		5		1/6	29
501	24	R. Lindsay	8.7	3.79	.74	2.86	2.8		.6		8		1/5	282 883
502	25	Lee - Martin	8.	3.40	.66	2.35	2.3		.6		4		1/4	29
503	28	H. J. Tompkins	5	2.0	.90	2.83	1.8							
504	31	R. Lindsay	8.5	3.33	.62	2.82	2.1		.6		6		1/10	282 883
505	4/1	F. C. Ebert	8.2	3.0	.57	2.81	1.7		.6		8		1/3	27214
506	4	R. Lindsay	5.8	2.01	.54	2.74	1.1		.6		6		1/6	282 883
507	5	Lee - Martin	4.0	2.35	0.70	2.81	1.6		.6		4		1/4	29
508	7	R. Lindsay	8.0	3.01	.62	2.80	1.9		.6		8		1/6	282 883
509	12	Lee - Martin	8.0	2.3	.39	2.74	.9		.6		4		1/6	29
510	18	H. J. Tompkins	2.5	.9	.72	2.72	.65							
511	20	Lee - Martin	.6	2.7	.75	2.85	2.0		.6		6		1/4	29
512	22	R. Lindsay	5.7	2.0	.55	2.75	1.1		.6		6		1/6	282 883

F. C. Dist. Form 104 HH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U6

Discharge measurements of ROGERS CREEK U.S.G.S. STATION

at Above Mouth of Canyon, during the year ending September 30, 1932

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	
457	11/27	Lindsay-Burke	6.6	4.01	1.85	2.72	7.4		.6		7		7/60	282 883
458	12/2	H. J. Tompkins	2.6	.18	.61	2.20	.1		.6					953
459	4	Cole-Lindsay	2.5	.67	.33	2.18	.22		.6		5		1/6	282 883
460	9	F. C. Ebert	11	4.5	.80	2.55	3.6		.6					27214
461	10	H. J. Tompkins	10	4.2	.79	2.52	3.3		.6					953
462	11	Lindsay	5.4	2.0	1.27	2.50	2.6		.6		6		1/3	282 883
463	14	R. Lindsay	5.4	1.25	.81	2.37	1.0		.6		5		1/12	"
464	17	H. J. Tompkins	3.	.43	1.12	2.34	.48		.6					953
465	18	Lindsay-VanderGoot	2.7	1.12	.77	2.31	.86		.6		5		1/12	282 883
466	21	Lindsay- "	5.3	1.35	.56	2.32	.75		.6		5		1/6	"
469	23	"	2.6	.96	.68	2.28	.65		.6		5		1/12	"
468	28	Lindsay-Cole	17.0	14.78	3.84	3.78	57.		.6		9		1/4	"
469	29	F.C.Ebert-Dalton	13.2	8.3	2.65	3.26	22		.6					27214
470	30	F. C. Ebert	12	4.6	1.80	2.88	8.3		.6					"
471	31	W. E. Cole	8.4	3.05	1.68	2.77	5.1		.6		5		1/5	271 655
472	1/5	F.C.Ebert-Tompkins	4.9	2.0	1.10	2.54	2.2		.6					27214
473	7	H. J. Tompkins	5.	1.6	1.12	2.50	1.8		.6					953
474	8	Lindsay-Harting	5.0	1.1	1.35	2.49	1.5		.6		5		1/6	282 883
475	15	Lindsay	5.1	1.09	1.29	2.48	1.4		.6		5		1/6	"
476	18	F. C. Ebert	5.	1.4	.9	2.44	1.1		.6					27214
477	22	Lindsay	4.6	.68	.76	2.40	.5		.6		5		1/12	282 883
478	22	H. J. Tompkins	3	.4	.70	2.40	.28		.6					953
479	29	Lindsay	4.9	7.4	.81	2.40	.6		.6		5		1/12	282 883
480	2/1	F. C. Ebert	16	11	3.18	3.52	35.		.6					27214
481	2	"	14.5	9.0	3.33	3.41	30.		.6					"
482	4	"	8.5	5.5	2.36	3.01	13.		.6					"
483	8	"	15.	11	3.45	3.56	38		.6					"
484	8	"	16	13	4.77	3.82	62		.6					"

F. C. Dist. Form 104 HH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U6

Discharge measurements of ROGERS CREEK U.S.G.S. STATION

at Above Mouth of Canyon, during the year ending September 30, 1932

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.	Ft	Sec.-ft.	Percent diff.			No.	Total	Hours	
513	4/29	R. Lindsay	5.8	2.12	.67	2.78	1.4		.6		6		1/6	282 883
514	2	H. J. Tompkins	2.5	.9	.67	2.70	.6		.6					953
515	6	R. Lindsay	3.1	1.16	.63	2.72	.7		.6		3		1/12	282 883
516	13	R. Lindsay	3.1	1.02	.57	2.68	.6		.6		6		1/6	"
517	16	H. J. Tompkins	2.3	.75	.58	2.68	.4		.6					953
518	20	R. Lindsay	3.0	.83	.27	2.22	.2		.6		3		1/12	282 883
519	23	H. J. Tompkins	2.3	.16	.31	2.16	.05		.6		3			953
520	27	R. Lindsay	1.0	.23	.61	2.16	.14		.6		2		1/20	282 883
521	28	H. J. Tompkins	2.5	.17	.24	2.18	.04		.6		3			953
522	5/3	R. Lindsay	2.2	.73	.97	2.28	.7		.6		4		1/12	282 883

F.C. Dist.—Form 105—1000—9-31

Daily Discharge, in Second-Feet, of ROGERS CREEK, U.S.G.S. STATION

Near Azusa, California for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U6

Drainage Area 6.4 Square Miles. [Observer.] Gage Read Used rating table dated

Maximum stage 5.15 feet at 5 PM on Dec. 28, 1931 Discharge 296 second-feet.
Minimum stage Dry at various times during year second-feet.

≠ Estimated

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1		0		0		.4		5		64		9
2		0		0		.3		5		33		8
3		0		0		.3		4.1		19		7.5
4		0		0		.3		2.7		12		7.5
5		0		0		.2		2.1		9.5		7
6				0		.2		1.8		7.5		6.5
7				0		≠ .1		1.6		7		6
8				0		.2		1.6		64		5.5
9				0		6		1.5		164		5
10				0		3.2		1.4		84		4.4
11				0		2.6		1.4		42		3.8
12				0		1.7		1.4		28		3.8
13				0		1.1		1.4		24		3.8
14				0		1.1		1.3		22		4.1
15				0.2		1.6		1.4		20		4.4
16				.1		1.2		1.4		24		4.4
17				0		1.1		1.2		26		3.5
18				0		.8		1.2		24		3.0
19				0		.7		1.0		22		3.0
20				0		.6		.7		20		2.8
21				0		.8		.5		18		2.3
22				0		.7		.4		16		2.1
23				0		.6		.4		15		2.1
24				0		.5		.4		14		2.1
25				0		2.7		.5		13		2.0
26				0		3.2		.6		12		2.1
27				3.2		2.2		.6		12		2.0
28				2.3		81.		.6		11		1.8
29				.9		26.		.6		10		1.8
30				.6		9.5		.6		–		2.0
31				–		6		15.		–		2.0
TOTAL				7.3		156.9		59.4		837		125.3
Mean Daily Discharge in Second-feet		0		0.24		5.06		1.92		28.9		4.04
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		0		14.5		311.		118		1,660		248
Maximum Mean Daily Discharge in Second-feet												
Minimum Mean Daily Discharge in Second-feet												

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1		1.7		1.8		.1							
2		1.7		.8		.1							
3		1.8		.7		.7							
4		1.8		.8		.6							
5		1.5		.8		.5							
6		1.7		.7		.4							
7		2.0		.8		.3							
8		1.5		.7		.3							
9		1.0		.6		.2							
10		.9		.6		.2							
11		.8		.6		.2							
12		.8		.5		.2							
13		.9		.6		.2							
14		.8		.5		.2							
15		.8		.4		.2							
16		.7		.4		.1							
17		.7		.4		.1							
18		.6		.4		.1							
19		.7		.3		.1							
20		1.5		.2		0							
21		1.3		.2		0							
22		1.2		.2		0							
23		1.0		.2		0							
24		1.0		.2		0							
25		1.4		.1		0							
26		1.7		.1		0							
27		1.7		.1		0							
28		1.6		.1		0							
29		1.4		.1		0							
30		1.2		.1		0							
31		–		.1		–							
TOTAL		37.4		13.3		4.8							
Mean Daily Discharge in Second-feet		1.25		0.43		0.16		0		0		0	3.39
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		74.4		26.4		9.5		0		0		0	2,460
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

Quarter: First, Second, Third, Fourth — Computed, Checked, Date; Disch. applied, Disch. checked, Date; G. H. copied, G. H. checked, Date

U 15

SAN ANTONIO CREEK U.S.G.S. STATION NEAR

CLAREMONT, CALIF.

Location
1 NW¼ of SE¼ Sec. 36, T. 2 N., R. 8 W., one-half mile below Southern California Edison Co.'s Sierra Power Plant, and 8 miles NE of Claremont, California.

Drainage Area
16.9 square miles.

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

Records Available
March 1901 to Sept. 30, 1932 at U.S.G.S. Water Resources Branch, office at Los Angeles, California.

Gage
Stevens continuous water stage recorder.

Channel and Control
Sand and boulders.

Extremes of Measurements
1931-1932
Maximum-191 c.f.s. on February 9, 1932
Minimum-0.30 Oct. 1 & 2, 1931.

Diversions
So. Calif. Edison Co. diverts water above station for power purposes which is measured separately.

Control
None.

Accuracy
Fair.

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

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 15

Discharge measurements of San Antonio Creek U.S.G.S. Station

near Claremont, Calif., during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
	1931													
430	10-5	H. J. Tompkins	1.6	.38	1.11	3.30	0.42		.6		4		¼	953
431	10-5	K.R. Melin	2.0	.45	.82	3.28	0.37		"		4		1/12	142
432	10-22	K.E. Schumacher	2.2	.39	1.03	3.04	.40		"		6		1/6	854
433	10-29	"	Mean of 2 meas.			3.05	.37		"					854
434	10-30	H.J. Tompkins	1.8	.44	1.12	3.06	.49		"		4		¼	953
435	11-5	K.E. Schumacher	3.0	.54	.68	3.05	.37		"		7			854
436	11-18	"	3.0	.65	.92	3.16	.6		"		9		¼	854
437	11-19	H.J. Tompkins	2.0	.49	1.13	3.15	.55		"		4		1/6	953
438	11-25	K.E. Schumacher	2.9	.5	.86	3.10	.43		"		8		1/12	854
439	12-3	Schumacher-Melin	2.7	.5	.96	3.10	.48		"		9		1/6	854
440	12-5	H.J. Tompkins	2.6	.67	.66	3.10	.44		"		5		1/6	953
441	12-9	K.E. Schumacher	3.5	1.2	1.17	3.19	1.4		"		10		1/6	854
442	12-16	H.J. Tompkins	2.8	.85	.88	3.14	.75		"				1/12	953
443	12-24	R. S. Lord	2.9	.68	1.10	3.13	.75		"		9		1/5	314
444	12-28	"	5.	1.6	1.00	3.21	1.6		"		10		1/6	314
445	12-29	"	7.4	4.1	1.90	3.45	7.8		"		13		¼	314
446	1932 1-1	"	4.6	1.3	1.05	3.00	1.4		"		11		¼	314
447	1-14	"	4.6	1.2	1.00	3.18	1.2		"		9		1/6	314
448	1-21	"	4.7	1.4	1.00	3.18	1.4		"		9		1/6	314
449	1-28	"	4.6	1.2	.92	3.17	1.1		"		9		1/6	314
450	2-2	"	6.8	3.0	1.40	3.32	4.2		"		12		¼	314
451	2-8	"	19.	16.	2.94	4.08	47.		"		18		¼	314
452	2-11	F. C. Ebert	22.	17.	3.18	3.45	54.		"		16		¼	214
453	2-15	R. S. Lord	20.4	15.	2.53	3.26	38.		"		21		1/3	314
454	2-25	Lord & Ebert	20.	12.	2.16	3.09	26.		"		17		¼	314
455	2-27	H.J. Tompkins	12.	10.	2.60	3.14	26.		"		10		¼	953
456	3-3	R. S. Lord	20.1	14.	2.65	3.26	37.		"		20		¼	314

F. C. Dist. Form 104 M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 15

Discharge measurements of San Antonio Creek U.S.G.S. Station

at near Claremont, Calif., during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. sect.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
457	3-10	R. S. Lord	20.5	15.	2.62	3.39	.39		.6		20		1/3	314
458	3-17	"	20.5	14.	2.57	3.23	.36		.6		27		1/3	314
459	3-24	"	20.5	14.	2.57	3.19	.36		.6		20		1/4	314
460	4-1	Lord-Schumacher	20.	13.	2.84	3.33	.37		.6		19			314
461	4-8	R. S. Lord	20.	14.	2.57	3.23	.36		.6		19		1/4	314
462	4-15	"	20.	14.	2.36	3.17	.33		.6		19		1/4	314
463	4-16	H.J. Tompkins	13.	12.	2.41	3.30	.29		.6		11		1/2	953
464	4-22	R. S. Lord	20.	14.	2.36	3.17	.33		.6		18		1/4	314
465	4-29	"	19.	11.	1.91	3.00	.21		.6		18		1/4	315
466	5-6	"	20.	11.	1.82	2.99	.20		.6		16		1/4	315
467	5-13	"	20.	12.	1.98	3.08	.23		.6		16		1/4	315
468	5-20	"	20.	13.	2.38	3.16	.31		.6		16		1/4	315
469	5-27	"	20.			3.36	.39		.6		16		1/3	315
470	6-3	"	20.	11.	1.82	3.00	.20		.6		16		1/6	131
471	6-10	"	12.	8.5	1.29	2.94	.11		.6		12		1/6	131
472	6-17	"	11.	7.1	1.18	2.79	8.4		.6		11		1/4	131
473	6-27	H.J. Tompkins	4.6	1.8	1.33	2.58	2.4		.6		7		1/6	953
474	7-1	R. S. Lord	4.0	1.8	.74	1.87	1.4		.6		8		1/6	131
475	7-8	"	4.4	1.8	.73	1.87	1.3		.6		8		1/6	131
476	7-15	"	3.8	1.6	.81	1.86	1.3		.6		8		1/6	131
477	7-22	"	3.4	1.4	.78	1.85	1.1		.6		7		1/6	131
478	7-27	"	3.5	1.4	.71	1.85	1.0		.6		7		1/13	131
479	8-1	"	4.5	1.7	.53	1.85	.9		.6		7		1/6	131
480	8-8	"	4.0	1.5	.53	1.85	.8		.6		6		1/6	131
481	8-15	"	4.0	1.4	.66	1.84	.9		.6		9		1/6	131
482	8-22	"				1.83	.7		.6		6		1/4	131
483	8-29	"	3.0	1.1	.73	1.85	.8		.6					215
484	9-12	"	3.0	1.0	.56	1.83	.5		.6		8		1/6	215
485	9-19	"	2.8	1.1	.59	1.83	.6		.6		5		1/6	215

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height and Discharge, in Second-Feet, of SAN ANTONIO CREEK, U.S.G.S. STATION

at Near CLAREMONT, CALIFORNIA for the Year Ending September 30, 19 32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 15

Drainage Area ..... Square Miles. [..... Observer.] Gage Read ..... Used rating table dated .....

Discharge ..... second-feet. Maximum stage ..... feet at ..... on ..... Discharge ..... second-feet. Minimum stage ..... feet at ..... on .....

+ Estimated

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	0.3		0.4		0.5		2.0		6.5		33		1	37		20		20		1.4		1.1		0.7	1
2	.3		.4		.5		1.8		4.2		35		2	39		20		20		1.4		1.1		.5	2
3	.4		.4		.5		1.8		2.6		37		3	39		+ 20		19		1.4		1.1		.5	3
4	.4		.4		.5		1.5		2.2		37		4	39		+ 20		18		1.4		1.0		.5	4
5	.4		.4		.4		1.4		1.8		39		5	39		+ 20		16		1.2		.8		.5	5
6	.4		.4		.4		1.4		2.0		39		6	38		20		15		1.2		.8		.5	6
7	.5		.4		.4		1.4		2.8		39		7	37		20		14		1.2		.7		.5	7
8	.5		.4		.7		1.2		33.		39		8	36		20		13		1.2		.7		.5	8
9	.5		.4		1.6		1.1		+120.		40		9	35		19		10		1.2		.7		.4	9
10	.5		.4		1.4		1.1		66.		39		10	34		19		10		1.2		.8		.4	10
11	.5		.4		1.3		1.4		54		39		11	34		20		9		1.2		1.0		.4	11
12	.5		.4		1.0		1.3		51		39		12	33		21		9		1.2		1.0		.4	12
13	+.5		.4		.9		1.3		49		39		13	34		24		8.5		1.2		1.0		.4	13
14	.4		.4		.8		1.2		45		39		14	35		26		8		1.2		1.0		.4	14
15	.4		.7		.8		1.1		39		38		15	35		28		8		1.2		+1.0		.4	15
16	.4		.7		.7		1.1		39		37		16	35		30		8		1.2		+1.0		.4	16
17	.4		.8		.6		1.2		36		36		17	35		31		8		1.1		+1.0		.4	17
18	.4		.6		.6		1.2		30		35		18	35		32		7		1.1		+1.0		.4	18
19	.4		.6		.6		1.2		28		35		19	34		32		5.5		1.2		1.0		.7	19
20	.4		.6		.6		2.2		26		36		20	35		31		4.4		1.2		1.0		.8	20
21	.4		.6		.7		1.3		25		36		21	35		31		3.8		1.1		1.0		.7	21
22	.4		.6		.8		1.3		25		36		22	33		29		3.0		1.1		.8		.7	22
23	.4		.5		.8		1.2		25		35		23	30		33		2.6		1.1		.8		.7	23
24	.4		.5		.8		1.2		25		36		24	29		42		2.2		1.1		.8		.5	24
25	.4		.4		.8		1.3		26		36		25	28		40		2.0		1.1		.8		.5	25
26	.4		.4		.9		1.3		27		37		26	28		39		1.8		1.1		.8		.7	26
27	.4		.6		.8		1.2		27		36		27	26		39		+ 1.8		1.1		.8		.7	27
28	.4		.6		+13.		1.1		29		36		28	24		27		+ 1.7		1.1		.8		.7	28
29	.4		.5		7.5		1.1		32		37		29	22		24		1.6		1.1		.8		.7	29
30	.4		.5		4.7		1.1		-		37		30	21		23		1.5		1.1		.8		.7	30
31	.4		-		2.9		2.6		-		36		31	-		21		-		1.1		.7		-	31
TOTAL	12.9		14.8		48.5		42.6		879.1		1148.			994		821		252.4		36.7		27.7		16.3	
Mean Daily Discharge in Second-feet	0.42		0.49		1.56		1.37		30.3		37.0			33.1		26.5		8.41		1.18		0.89		0.54	11.7
Second-feet per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet	25.8		29.2		95.9		84.2		1,740		2,280			1,970		1,630		500		72.6		55.0		32.3	8520
Maximum Mean Daily Discharge in Second-feet																									
Minimum Mean Daily Discharge in Second-feet																									

Discharge: Computed ..... Checked ..... Date .....
Ditch applied ..... Ditch checked ..... Date .....
G. H. applied ..... G. H. checked ..... Date .....
PERIOD / YEAR

F.C. Dist.—Form 30—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of SAN ANTONIO CREEK U.S.G.S. STATION SOUTHERN CALIFORNIA EDISON CO'S. CANAL

Near CLAREMONT, CALIFORNIA for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 15

Drainage Area ..... Square Miles. [..... Observer.] Gage Read ..... 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		7.4		7.0		7.4		12.0		16.6		25	1		25		25		24		24		16.6		14.4	1
2		7.4		6.8		7.3		12.2		13.6		25	2		25		25		24		24		17.0		14.4	2
3		7.2		6.8		7.2		12.3		13.2		25	3		25		25		24		23		17.1		14.1	3
4		7.5		6.8		7.2		12.6		13.0		25	4		25		25		24		23		16.6		13.4	4
5		7.2		6.7		6.8		12.3		12.8		25	5		25		25		24		23		16.7		13.0	5
6		6.8		6.7		7.0		12.2		13.2		25	6		25		25		24		23		16.2		12.7	6
7		7.5		6.9		7.0		12.3		14.4		25	7		25		25		24		22		16.4		12.6	7
8		7.0		6.7		7.6		12.2		20.		25	8		25		25		24		22		16.4		12.6	8
9		7.2		7.0		8.6		12.2		19.4		25	9		25		25		24		22		16.4		11.8	9
10		7.5		7.0		8.5		11.8		23.		25	10		25		25		24		22		16.5		11.8	10
11		7.4		7.4		8.4		12.0		25.		25	11		25		25		24		22		16.5		11.6	11
12		7.0		7.0		7.9		12.4		25.		25	12		25		25		24		21		16.1		11.2	12
13		7.0		7.0		7.7		13.0		25.		25	13		25		25		25		22		15.4		11.1	13
14		7.4		7.2		7.6		12.4		25.		25	14		25		25		25		21		15.8		11.0	14
15		7.1		10.4		7.6		12.6		25.		25	15		25		25		25		21		15.6		10.9	15
16		7.2		8.0		7.6		12.2		25.		25	16		25		25		25		19.4		15.4		11.6	16
17		6.8		8.1		7.5		12.2		25.		25	17		25		25		25		19.3		15.1		11.6	17
18		9.2		7.9		7.4		12.3		25.		25	18		25		25		25		19.0		14.9		11.8	18
19		8.0		7.8		7.6		11.8		25.		25	19		25		25		25		19.0		15.2		11.4	19
20		7.8		7.7		7.1		11.6		25.		25	20		25		25		25		19.0		15.4		10.9	20
21		7.7		7.8		7.9		11.7		25.		25	21		25		25		25		19.0		15.8		10.4	21
22		7.6		7.6		7.6		11.3		25.		25	22		25		25		25		18.3		15.8		11.2	22
23		7.6		7.6		7.6		11.3		25.		25	23		25		25.6		25		18.8		15.8		11.4	23
24		7.4		6.7		7.4		11.2		25.		25	24		25		12.4		25		18.8		15.4		11.6	24
25		7.0		6.5		8.3		11.2		25.		25	25		25		12.4		25		18.8		15.4		11.6	25
26		7.4		7.0		8.4		11.3		25.		25	26		25		12.4		25		18.1		15.6		11.6	26
27		7.5		8.6		8.2		11.2		25.		25	27		25		12.4		25		17.4		15.0		11.1	27
28		6.8		7.4		14.0		11.2		25.		25	28		25		24		24		17.2		15.4		11.4	28
29		7.0		7.4		17.8		11.2		25.		25	29		25		24		24		17.2		14.9		11.8	29
30		7.0		7.4		13.2		11.1		-		25	30		25		24		24		17.4		14.9		11.5	30
31		7.0		-		12.2		11.7		-		25	31				24		-		17.0		14.8		-	31
TOTAL,		227.6		220.9		263.6		369.0		634.2		775			750		714.2		735		628.7		490.1		357.5	
Mean Daily Discharge in Second-feet		7.34		7.36		8.50		11.9		21.9		25.0			25.0		23.0		24.5		20.3		15.8		11.9	
Second-feet per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet		451		438		523		732		1,260		1,540			1,490		1,410		1,460		1,250		972		708	
Maximum Mean Daily Discharge in Second-feet																										
Minimum Mean Daily Discharge in Second-feet																										

Maximum stage ..... on ..... Discharge ..... second-feet.
Minimum stage ..... on ..... Discharge ..... second-feet.

Quarter: Fourth / Third / Second / First — Computed ..... Checked ..... Date .....
Quarter: Fourth / Third / Second / First — Disch. applied ..... Disch. checked ..... Date .....
Quarter: First / Second / Third / Fourth — G. H. copied ..... G. H. checked ..... Date .....
PERIOD YEAR

F.C. Dist.—Form 165—1000—9-31

Daily Gage Height, in Feet, and Discharge, in Second-Feet, of U.S.G.S. STATION SAN ANTONIO CREEK & SOUTHERN CALIFORNIA EDISON CO'S. CANAL

Near CLAREMONT, CALIFORNIA for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 15

Drainage Area 16.9 Square Miles. [..... Observer.] Gage Read ..... 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		7.7		7.4		7.9		14.0		23.		58.	1		62.		45		44		25		17.7		15.1	1
2		7.7		7.2		7.8		14.0		17.8		60.	2		64.		45		44		25		18.1		14.9	2
3		7.6		7.2		7.7		14.1		15.8		62.	3		64.		45		43		24		18.2		14.6	3
4		7.9		7.2		7.7		14.1		15.2		62.	4		64.		45		42		24		17.6		13.9	4
5		7.6		7.1		7.2		13.7		14.6		64.	5		64.		45		40		24		17.5		13.5	5
6		7.2		7.1		7.4		13.6		15.2		64.	6		63.		45		39		24		17.0		13.2	6
7		8.0		7.3		7.4		13.7		17.2		64.	7		62.		45		38		23		17.1		13.1	7
8		7.5		7.1		8.3		13.4		53.		64.	8		61.		45		37		23		17.1		13.1	8
9		7.7		7.4		10.2		13.3		139.		65.	9		60.		44		34		23		17.1		12.2	9
10		8.0		7.4		9.9		12.9		89.		64.	10		59.		44		34		23		17.3		12.2	10
11		7.9		7.8		9.7		13.4		79.		64.	11		59.		45		33		23		17.5		12.0	11
12		7.5		7.4		8.9		13.7		76.		64.	12		58.		46		33		22		17.1		11.6	12
13		7.5		7.4		8.6		14.3		74.		64.	13		59.		49		34		23		16.4		11.5	13
14		7.8		7.6		8.4		13.6		70.		64.	14		60.		51		33		22		16.8		11.4	14
15		7.5		11.1		8.4		13.7		64.		63.	15		60.		53		33		22		16.6		11.3	15
16		7.6		8.7		8.3		13.3		64.		62.	16		60.		55		33		21		16.4		12.0	16
17		7.2		8.9		8.1		13.4		61.		61.	17		60.		56		33		20		16.1		12.0	17
18		9.6		8.5		8.0		13.5		55.		60.	18		60.		57		32		20		15.9		12.2	18
19		8.4		8.4		8.2		13.0		53.		60.	19		59.		57		30		20		16.2		12.1	19
20		8.2		8.3		7.7		13.8		51.		61.	20		60.		56		29		20		16.4		11.7	20
21		8.1		8.4		8.6		13.0		50.		61.	21		60.		56		29		20		16.8		11.1	21
22		8.0		8.2		8.4		12.6		50.		61.	22		58.		54		28		19.4		16.6		11.9	22
23		8.0		8.1		8.4		12.5		50.		60.	23		55.		52		28		19.9		16.6		12.1	23
24		7.8		7.2		8.2		12.4		50.		61.	24		54.		54		27		19.9		16.2		12.1	24
25		7.4		6.9		9.1		12.5		51.		61.	25		53.		52		27		19.9		16.2		12.1	25
26		7.8		7.4		9.3		12.6		52.		62.	26		53.		51		27		19.2		16.4		12.3	26
27		7.9		9.2		9.0		12.4		52.		61.	27		51.		51		27		18.5		15.8		11.8	27
28		7.2		8.0		27.		12.3		54.		61.	28		49.		51		26		18.3		16.2		12.1	28
29		7.4		7.9		25		12.3		57.		62.	29		47.		48		26		18.3		15.7		12.5	29
30		7.4		7.9		17.9		12.2		-		62.	30		46.		47		26		18.5		15.7		12.2	30
31		7.4		-		15.1		14.3		-		61.	31		-		45		-		18.1		15.5		-	31
TOTAL,		240.5		235.7		311.8		411.6		1512.8		1923.			1744		1534		989		661.		517.8		373.8	
Mean Daily Discharge in Second-feet		7.76		7.86		10.1		13.3		52.2		62.0			58.1		49.5		33.0		21.3		16.7		12.5	
Second-feet per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet		477.		468		621		818		3,000		3,810			3,460		3,040		1,960		1,310		1,030		744	
Maximum Mean Daily Discharge in Second-feet																										
Minimum Mean Daily Discharge in Second-feet																										

Maximum stage 5.15 on Feb. 9, 1932 X AM Discharge 191
Minimum stage ..... on Oct. 1 and 2 Discharge 0.30

Quarter: Fourth / Third / Second / First — Computed ..... Checked ..... Date .....
Quarter: Fourth / Third / Second / First — Disch. applied ..... Disch. checked ..... Date .....
Quarter: First / Second / Third / Fourth — G. H. copied ..... G. H. checked ..... Date .....
PERIOD YEAR

U 10

SAN DIMAS CREEK U.S.G.S. STATION NEAR SAN DIMAS, CALIFORNIA

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

Drainage Area
18.4 square miles.

Records Available
From Nov. 8, 1916 to Sept. 30, 1932 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
1931-1932
Maximum-96 c.f.s. on February 9, 1932
Minimum-Less than .01 at various times during year.

Diversions
None

Regulation
Regulated by Los Angeles County Flood Control District Dam.

Accuracy
Good

Operation
Constructed by the U.S.G.S. Water Resources Branch and operated by U.S.G.S. Water Resources Branch in conjunction with the Los Angeles County Flood Control District.

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U10

Discharge measurements of SAN DIMAS CREEK U.S.G.S. STATION

~~at~~ ~~near~~ Below Flood Control Dam, during the year ending September 30, 19 32

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.	Ft.	Sec.-ft.	Percent diff.			No.	Total	Hours	
583	2/8	F. C. Ebert	17	12	2.42	1.71	29		.6		13		1/3	27214
584	8	Brewster-J.G.L.	11	10.79	2.53	1.72	27		.6		11		1/4	271 666
585	9	Brewster	16	31.6	2.29	2.05	72		.6		8		"	"
586	10	F. C. Ebert	22	24	3.00	2.02	72		.6		11		1/3	27214
587	11	Brewster-J.G.L.	13	18.1	3.96	2.00	72		.6		11		1/4	271 666
588	15	F. C. Ebert	7	3.9	.54	.47	2.1		.6		7			27214
589	16	"	19	19	3.68	2.05	70		.6		17		5/12	"
590	19	Brewster	13	17.5	3.85	1.98	67		.6		10		1/4	271 666
591	20	F. C. Ebert	20	20	3.05	1.97	61		.6		19		1/2	27214
592	26	Brewster	10	10.35	1.49	1.48	15.4		.6		9		1/4	271 666
593	3/1	F. C. Ebert	9.4	8.2	.84	.89	6.7		.6		11		1/3	27214
594	4	Brewster	5	4.45	.85	.63	3.8		.6		5		1/6	271 666
595	7	H. J. Tompkins	8	3.9	.87	.58	3.4		.6		8		1/6	953
596	11	Ash	4	1.34	.33		.44		.6					622
597	11	Brewster	3	1.17	.54	.20	.63		.6		3		1/10	271 666
598	18	"	2	.83	.53	.18	.44		.6		4		1/12	"
599	25	"	2	.75	.52	.16	.39		.6		4		1/10	"
600	4/1	"	4	1.84	1.34	.37	2.5		.6		4		"	"
601	5	H. J. Tompkins	7	.3	.60	.36	1.8		.6		7		1/3	953
602	8	Brewster	4	2.44	1.08	.51	2.6		.6		4		1/6	271 666
603	9	"	6	2.87	.90	.51	2.6		.6		6		1/4	"
604	9	"	6	2.94	.87	.51	2.6		.6		6		"	"
605	15	"	6	3.18	.87	.51	2.8		.6		6		"	"
606	21	H. J. Tompkins	6.2	3.3	.82	.50	2.7		.6		6		"	953
607	22	Brewster	6	3.1	.80	.50	2.58		.6		6		1/6	271 666
608	29	H. J. Tompkins	6.5	3.2	.78	.50	2.5		.6		7		1/4	953
609	29	Brewster	6	3.23	.78	.50	2.5		.6		6		1/6	271 666
610	5/6	"	6	3.34	.74	.50	2.5		.6		6		1/5	"

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U 10

Discharge measurements of SAN DIMAS CREEK U.S.G.S. STATION

~~at~~ ~~near~~ Below Flood Control Dam, during the year ending September 30, 19 32

Sheet 1 of 3

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.	Ft.	Sec.-ft.	Percent diff.			No.	Total	Hours	
555	10/3	Brewster	0.6	.07	.86	0.06	0.06		.6		1		1/10	271 666
556	10	"	0.8	.11	.64	.07	.07		.6		1		1/6	"
557	17	"	0.8	.09	.67	.06	.06		.6		1		1/10	"
558	24	"	0.8	.11	.82	.07	.09		.6		1		1/12	"
559	31	"	0.8	.11	1.0	.08	.11		.6		1		"	"
560	11/7	"	0.8	.09	1.1	.08	.10		.6		1		"	"
561	14	"	0.8	.10	1.1	.08	.11		.6		1		"	"
562	21	"	0.8	.12	1.0	.08	.12		.6		1		1/6	"
563	28	"	0.8	.11	1.09	.09	.12		.6		1		1/10	"
564	12/5	"	0.8	.11	1.0	.08	.11		.6		1		1/12	"
565	11	"	1.0	.17	1.12	.10	.19		.6		2		1/6	"
566	18	"	1.0	.12	0.67	.08	.08		.6		2		1/12	"
567	24	"	3.0	1.5	.87	.36	1.3		.6		3		1/6	"
568	28	F. C. Ebert	6.7	2.8	1.00	.51	2.8		.6		12		1/3	27214
569	28	Brewster	12	9.5	2.07	1.60	20.		.6		6		1/6	271 666
570	29	F. C. Ebert	7.8	2.7	1.33	.64	3.6		.6		8		1/4	27214
571	29	Brewster	.11	7.2	1.78	1.28	.13		.6		6		1/4	271 666
572	31	F. C. Ebert	10	5.8	1.90	1.25	11		.6		11		1/3	27214
573	31	H. J. Tompkins	10	6	1.82	1.25	11		.6		5		1/6	953
574	1/5	F. C. Ebert	11	4.7	1.55	.98	7.3		.6		10		1/4	27214
575	8	Brewster	6	3.58	1.6	.78	5.7		.6		6		1/6	271 666
576	15	"	1.5	.45	.73	.14	.33		.6		3		1/10	"
577	22	"	1.5	.42	.64	.10	.27		.6		3		"	"
578	29	"	1.5	.47	.57	.10	.27		.6		3		"	"
579	2/1	F.C. Ebert	6.8	2.8	1.25	.58	3.5		.6		7		1/6	27214
580	2	"	6	2.9	1.18	.63	3.4		.6		7		1/4	"
581	5	"	16	8.3	1.93	1.51	.16		.6		15		5/12	"
582	5	Brewster	10	7.87	2.04	1.50	16		.6		10		1/4	271 666

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U10

Discharge measurements of SAN DIMAS CREEK U.S.G.S. STATION

~~at~~ ~~near~~ Below Flood Control Dam, during the year ending September 30, 19 32

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.	Ft.	Sec.-ft.	Percent diff.			No.	Total	Hours	
611	May 9	H. J. Tompkins	6.3	3.1	.87	0.48	2.7		.6		6		1/4	953 271
612	13	Brewster	6.	3.16	.72	.48	2.3		.6		6		1/6	666
613	20	"	6.	3.24	.70	.48	2.3		.6		6		"	"
614	21	H. J. Tompkins	6.	3	.87	.48	2.6		.6		6		1/4	953 271
615	27	Brewster	6	3.29	.68	.47	2.2		.6		6		1/6	666
616	28	H. J. Tompkins	6	3.1	.78	.46	2.4		.6		6		"	953 271
617	6/3	Brewster	6	3.2	.76	.49	2.4		.6		6		1/4	666
618	10	"	6	3.3.	.68	.45	2.2		.6		6		1/6	"
619	13	H. J. Tompkins	6.3	3.3	.67	.46	2.2		.6		6		1/6	953
620	17	Brewster	6	3.35	.63	.45	2.1		.6		6		"	271 666
621	24	"	4	2	1.04	.41	2.1		.6		4		1/6	"
622	29	H. J. Tompkins	3.8	1.9	1.00	.42	1.9		.6		4		"	953
623	7/1	Brewster	4	1.9	1.04	.41	2.0		.6		4		"	271 666
624	8	H. J. Tompkins	5	3.4	1.59	.74	5.4		.6		5		1/5	953
625	8	Brewster	5	3.11	1.53	.74	4.8		.6		5		1/6	271 666
626	14	H. J. Tompkins	5	2.2	1.00	.42	2.2		.6		5		1/4	953
627	15	Brewster	4.0	2.0	.95	.40	1.8		.6		4		1/6	271 666
628	21	H. J. Tompkins	4.0	2.0	.95	.38	1.9		.6		4		1/4	953
629	22	Brewster	4.0	1.87	.96	.39	1.8		.6		4		1/12	271 666
630	27	H. J. Tompkins	4.	.9	.24	.10	.22				4		"	953
631	29	Brewster	1.0	.12	.58	.07	.07		.6		2		1/6	271 666
632	8/5	"	0.5	.06	.33	.04	.02		Float		1		1/12	"
633	12	"	1.0	.12	.83	.08	.10		.6		2		"	"
634	9/15	"	0.8	.10	.40	.05	.04		.6		2		"	"
635	22	"	0.8	.12	.83	.07	.10		.6		2		"	"
636	29	"	1.5	.39	1.08	.16	.42		.6		3		1/12	"

F.C. Dist.—Form 105—1000—9-31

Daily Gage Height in Feet and Discharge, in Second-Feet, of SAN DIMAS CREEK, U.S.G.S. STATION

xx Near SAN DIMAS, CALIFORNIA for the Year Ending September 30, 19 32

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U10

Drainage Area 18.4 Square Miles. (Observer.) Gage Read 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		.1		11		6.5		6.5	1		2.0		2.4		2.4		2.1					1
2				.1		.1		11		3.5		7	2		2.0		2.4		2.4		2.1					2
3				.6		.1		9		2.0		7	3		2.0		2.4		2.5		2.1					3
4				.1		.1		9		1.5		5.5	4		2.0		2.4		2.4		2.1					4
5				.1		.1		7.5		9		3.9	5		2.0		2.4		2.4		2.7					5
6				.6		.1		7		16		3.8	6		2.1		2.4		2.4		4.2					6
7				.2		.1		6.5		15		3.7	7		2.7		2.4		2.3		4.4					7
8				.1		.2		6		21		3.8	8		2.7		2.4		2.3		5					8
9		.1		.1		.3		2.6		76		≠ 2.4	9		2.7		2.4		2.3		4.8					9
10		.1		.1		.2		.5		70		≠ .7	10		2.7		2.4		2.3		3.2					10
11		.1		.1		.2		.4		68		.7	11		2.8		2.4		2.3		2.9		.1			11
12		.1		.1		.1		.4		54		.7	12		2.8		2.4		2.2		2.5		.1			12
13				.7		.1		.4		47		.7	13		2.8		2.4		2.2		2.2		.1			13
14				.2		.2		.4		55		.7	14		2.8		2.4		2.2		2.1		.2			14
15				.4		.2		.4		18		.6	15		2.8		2.4		2.2		2.0		.2			16
16				.2		.1		.4		68		.6	16		2.9		2.4		2.2		2.0		.1			16
17				.2		.1		.4		68		.6	17		2.9		2.4		2.2		2.0		.1			17
18				.2		.1		.3		68		.6	18		2.8		2.4		2.2		2.0					18
19				.1		.1		.3		68		.6	19		2.7		2.4		2.2		2.0				.1	19
20				.2		.3		.3		63		.7	20		2.7		2.4		2.2		2.0				.1	20
21				.2		.5		.3		58		.6	21		2.5		2.4		2.2		1.9				.1	21
22		.1		.1		.8		.4		52		.5	22		2.6		2.4		2.2		1.9				.1	22
23				.1		1.2		.4		30		.5	23		2.6		2.4		2.2		1.0					23
24				.1		1.3		.4		19		.5	24		2.6		2.3		2.3		1.0					24
25		.1		.1		1.3		.4		18		.5	25		2.7		2.3		2.3		1.0					25
26		.1		.1		1.3		.4		17		.5	26		2.8		2.4		2.2		.9				.2	26
27		.3		.3		1.2		.4		13		.4	27		2.7		2.4		2.1		.3				.3	27
28		.1		.2		8		.4		7		.4	28		2.6		2.4		2.0		.2				.3	28
29				.2		7.5		.4		7		.5	29		2.5		2.4		2.0		.1				.4	29
30		.4		.1		11		.4		-		1.1	30		2.4		2.4		2.0		.1				.4	30
31		.1		-		11		1.0		-		1.9	31		-		2.4		-						-	31
TOTAL,				6.0		48.		78.7		1018.5		58.2			77.0		74.2		67.3							
Mean Daily Discharge in Second-feet		0.093		0.20		1.55		2.54		35.1		1.88			2.57		2.39		2.24		2.03		0.075		0.10	
Second-feet per square mile																										
Run-off, depth in inches																										
Run-off in acre-feet		5.7		11.9		95.3		156		2,020		116			153		147		133		125		4.6		6.2	2974
Maximum Mean Daily Discharge in Second-feet																										
Minimum Mean Daily Discharge in Second-feet																										

Maximum stage 2.14 feet at 9 AM on Feb. 9, 1932 Discharge 96 Second-feet.
Minimum stage Less than .01 at various times during year Discharge Second-feet.
NOTE: Discharge less than 0.1 second foot on days for which no discharge is given

≠ Estimated

Fourth / Third / Second / First / Quarter — Computed / Checked / Date

Fourth / Third / Second / First / Quarter — Disch. applied / Disch. checked / Date

Fourth / Third / Second / First / Quarter — G. H. copied / G. H. checked / Date

PERIOD YEAR

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U8

Discharge measurements of SAN GABRIEL RIVER U.S.G.S. STATION

xx near MOUTH OF CANYON, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G.Ht. change Total	Time Hours	Meter No.
			Feet	Sq.ft.	Ft. per sec.	Feet	Sec.-ft.							
798	12/2	H. J. Tompkins	29.	17	1.18	2.30	20		.6		12		1/3	953
799	9	F. C. Ebert	46.	27	1.78	2.50	48		.6		10		1/4	27214
800	10	H. J. Tompkins	22.	13	.67	2.10	8.7		.6		8		1/6	953
801	11	Lindsey & Ebert	13.5	5.1	.63	2.04	3.2		.6		7		"	282 883
802	26	F. C. Ebert	47.5	31	1.74	2.54	54		.6		12	.01	5/12	27214
803	28	"	80.	59	1.76	2.80	104		.6		17	+03	1/2	"
804	29	"	130	173.	3.84	3.92	665		.6		13	-03	5/6	"
805	30	"	93.5	97	2.58	3.16	250		.6		19	-01	5/12	"
806	31	W. E. Cole	103	76.1	2.65	3.15	200		.6		20		7/12	271 2555
807	31	H. J. Tompkins	95	72	2.18	2.88	158		.6		18		1/2	953
808	1/5	F. C. Ebert	61	46	1.13	2.47	52		.6		20		1/3	27214
809	7	H. J. Tompkins	36	30	1.17	2.36	35		.6		12		1/3	953
810	8	Lindsay-Harting	51.0	38.4	.63	2.28	24		.6		16		1/3	282 883
811	15	R. Lindsay	19.0	11.3	.68	2.10	7.7		.6		9		1/4	"
812	18	F. C. Ebert	15	8.1	.28	2.00	2.3		.6		6		1/4	27214
813	22	Lindsey	35	.65	.80	1.92	.5		.6		7		1/6	282 883
814	2/1	Anderson-Mills	140.	193.9	4.12	4.25	800		.6		26		1	FC 26
815	1	Ebert-Anderson	120.	171.0	4.03	4.09	690		.6		24		1/2	27 214
816	1	Anderson-Mills	120.	154.5	3.52	3.90	545		.6		24	-03	3/4	FC 26
817	2	" "	120.	169.5	3.84	4.08	650		.6		16		2/3	"
818	2	" "	120.	163.5	3.72	4.04	608		.6		14		2/5	"
819	2	" "	110.	158.0	3.48	3.94	551		.6		16		1/2	"
820	2	" "	120.	154.7	3.40	3.91	526		.6		16		2/5	"
821	2	F. C. Ebert	119.	138.0	3.54	3.75	488		.6		15	-.02	2/3	27214
822	4	"	72.	72.	2.65	3.16	191		.6		24		5/6	"
822A	6	Patterson-Lane	91.0	73.8	2.12	2.48	156		.6		13		1/3	FC 22
823	8	Anderson-Mills	117.	115.4	2.87	3.49	331.		.6		23		3/5	FC 26
824	8	" "	114.	131.1	3.23	3.64	425		.6		24		3/5	"

U 8

SAN GABRIEL RIVER AT MOUTH OF CANYON U.S.G.S. STATION, NEAR AZUSA, CALIF.

Location
In NW ¼ Sec. 23, T. 1 N., R. 10 W., .4 mile above mouth of Canyon and 2½ miles north of Azusa.

Drainage Area
214 square miles

Records Available
1894 to Sept. 30, 1932 at U.S.G.S. Offices. Records include flow of So. Calif. Edison Company's Canal.

Gage
Water stage recorder on east bank at cable 2000 feet above mouth of canyon, and 1000 feet above the tunnel diversion; station originally installed November 18, 1922, but the location has been changed several times since.

Discharge Measurements
Made from cable 200 feet below station or by wading.

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

Extremes of Discharge
1931-32
Maximum-7500 c.f.s. on Feb. 9, 1932
Minimum-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

Operation
Constructed by the U.S.G.S. Water Resources Branch and operated by U.S.G.S. Water Resources Branch in conjunction with Los Angeles County Flood Control District

F. C. Dist. Form 104 HR 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U8

Discharge measurements of SAN GABRIEL RIVER U.S.G.S. STATION

at / near MOUTH OF CANYON, during the year ending September 30, 19 32

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	
825	2/8	Anderson-Mills	137	225.3	4.98	4.58	1124		.6		16		3/5	FC-26
826	8	" "	146	333.6	6.71	5.56	2238		.6		15		3/5	"
827	8	" "	152	382.6	6.64	5.90	2540		.6		16		1/2	"
828	9	" "	175	685.5	8.81	6.88	6040		.6		17		2/3	
829	9	Ebert-Anderson	175	696	9.33	7.05	6490		.6		18		2/3	FC-27
830	9	Anderson-Mills	180	653.8	9.67	6.85	5670		.6		18		5/6	FC-26
831	10	" "	152	399.5	7.38	5.71	2950		.6		16		5/6	"
832	10	" "	152	374.6	7.25	5.68	2720		.6		16		2/3	"
833	10	" "	151	390.2	6.41	5.57	2510		.6		16		2/3	"
834	10	" "	149	344.5	6.21	5.45	2080		.6		15		3/5	"
835	11	" "	140	272.0	5.51	5.08	1500		.6		14		5/6	"
836	11	" "	140	274.5	5.33	5.07	1460		.6		15		3/5	"
837	11	" "	140	260.0	5.03	4.96	1310		.6		14		1/2	"
838	12	Ebert-Dalton	130	217.0	5.07	4.50	1100		.6		14		3/4	27214
839	14	Anderson-Mills	140	182.0	4.07	4.22	744		.6		14		1/2	FC-26
840	14	" "	138	167.3	4.43	4.20	723		.6		27		5/6	"
841	15	F. C. Ebert				4.08	675		.6		27	+.01	3/4	27214
842	16	Anderson-Mills	140	172.0	4.08	4.22	703		.6		14		2/3	FC-26
843	16	" "	140	172.5	4.01	4.20	693		.6		15		1/2	"
844	16	" "	140	167.5	4.0	4.16	670		.6		18		"	"
845	17	" "	140	162.7	3.82	4.10	622		.6		19		3/5	"
846	19	Lindsay	127	148.3	3.26	3.92	484		.6		13		7/12	282 883
847	20	F. C. Ebert	129	145.0	3.58	3.88	520		.6		26		1	27214
848	23	"	129	140.0	3.54	3.83	495		.6		26		1	"
849	24	Lee-Martin	117	135.0	3.72	3.86	502		.6		12			29
850	26	Lee-Martin	127	133.6	3.64	3.89	485		.6		14			29

SHEET 2 of 4 SHEETS

F. C. Dist. Form 104 HR 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U8

Discharge measurements of SAN GABRIEL RIVER U.S.G.S. STATION

at / near Mouth of Canyon, during the year ending September 30, 19 32

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	282
878	4/29	R. Lindsay	63	69.80	1.24	2.88	87		.6		12		1/3	883
879	5/2	Patterson-Lindsay	43	53.2	1.67	2.83	89		.6		10		1/3	282 897
880	2	H. J. Tompkins	63	71	1.23	2.88	87		.6		12		1/2	953
881	6	R. Lindsay	61	67.25	1.07	2.83	72		.6		12		1/3	282 883
882	7	H. J. Tompkins	59	68	1.16	2.83	79		.6		12		2/3	953
883	9	Lindsay-Harting	60	66.10	1.08	2.82	72		.6		11		1/4	282 883
884	9	H. J. Tompkins	65	63	1.14	2.82	72		.6		12		3/4	953
885	13	Lindsay	64	70.64	1.27	2.90	89		.6		12		1/3	282 883
886	16	Lindsay	63.5	71.11	1.38	2.93	98		.6		12		1/3	"
887	16	H. J. Tompkins	65	72	1.35	2.93	97		.6		12		3/4	953
888	20	Lindsay	61.5	67.24	1.13	2.84	76		.6		12		5/12	282 883
889	21	H. J. Tompkins	65	67	1.19	2.84	80		.6		12		2/3	953
890	23	R. Lindsay	55	61.5	1.07	2.80	66		.6		11		1/3	282 883
891	23	H. J. Tompkins	62	62	1.08	2.78	67		.6		12		1/2	953
892	27	Lindsay	58	58.6	.92	2.72	54		.6		11		1/3	282 883
893	28	H. J. Tompkins	61	58	.90	2.71	52		.6		12		2/3	953
894	6/1	"	38	41	1.02	2.66	42		.6		12		1/2	"
895	3	R. Lindsay	59	58.74	.94	2.73	56		.6		11		1/3	282 883
896	4	H. J. Tompkins	38	44	1.18	2.72	52		.6		8		1/4	953
897	6	"	37	42	1.00	2.68	42		.6		8		1/2	"
898	11	"	36	35	.74	2.54	26		.6		8		1/3	"
899	13	"	36	34	.56	2.48	19		.6		8			"
900	18	"	Two Channels			2.40	16		.6		10		1/4	"
901	20	"	"	"		2.28	8.2		.6		10		1/4	"
902A			"	"		2.08	1.8							
902	25	H. J. Tompkins	8	2.8	.61	2.06	1.7							

F. C. Dist. Form 104 HR 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U8

Discharge measurements of SAN GABRIEL RIVER U.S.G.S. STATION

at / near Mouth of Canyon, during the year ending September 30, 19 32

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	282
851	2/26	R. Lindsay	120	142	3.53	3.85	504		.6		13		1/2	883
852	3/1	F. C. Ebert	130	151	3.48	3.95	525		.6		26			27214
853	2	Lee & Martin	124	129	3.41	3.88	443		.6		14		3/4	29
854	4	Lindsay	120	135.6	3.28	3.76	440		.6		15		5/12	282 883
855	7	H. J. Tompkins	100	118	3.02	3.62	357		.6		20		1	953
856	9	"	101	112	2.96	3.56	332		.6		20		1	"
857	11	Lee & Martin	117	109	2.84	3.49	287		.6		16			29
858	11	Lindsay	98.5	110.5	2.68	3.48	296		.6		17		5/12	282 883
859	16	H. J. Tompkins	99	100	2.44	3.33	244		.6		20		1	953
860	18	Lee & Martin	90	95.75	2.31	3.31	221		.6		14		3/5	29
861	22	H. J. Tompkins	88	94	2.22	3.25	209		.6		14		1	953
862	24	R. Lindsay	73.5	93.91	2.18	3.26	204		.6		14		1/3	282 883
A862	25	Lee & Martin	74	90.70	2.09	3.26	190		.6		15		1/2	29
863	28	H. J. Tompkins	75	94	2.19	3.25	206		.6		16		1	953
864	31	R. Lindsay	79	92.23	2.07	3.24	192		.6		16		5/12	282 883
865	4/1	F. C. Ebert	80	90	2.01	3.26	181		.6		20		7/12	27214
866	5	Lee & Martin	72	87.10	1.96	3.20	170		.6		15		2/3	29
867	5	H. J. Tompkins	69	92	1.82	3.20	167		.6		14		5/6	953
868	7	R. Lindsay	79.5	86.75	1.79	3.15	155		.6		15		5/12	282 883
869	11	H. J. Tompkins	65	85	1.71	3.09	145		.6		13		3/4	953
870	12	Lee & Martin	71	79.75	1.70	3.09	134		.6		14		1/2	29
871	15	R. Lindsay	69	84.25	1.74	3.11	145		.6		13		1/3	282 883
872	18	H. J. Tompkins	69	83	1.63	3.06	135		.6		13		3/4	953
873	20	Lee & Martin	71	82.45	1.73	3.09	143		.6		15		1/2	29
874	22	R. Lindsay	66.5	78.21	1.59	3.04	124		.6		13		1/3	282 883
875	25	Patterson-Green	46	58	1.87	2.97	108		.6		10		1/4	282 897
876	25	H. J. Tompkins	64	76	1.46	2.98	111		.6		12		6/10	953
877	26	Lee & Martin	68	74.30	1.53	2.99	114		.6		15		1/2	29

F.C. Dist.—Form 105—1000—9-31

Discharge, in Second-Feet, of SAN GABRIEL RIVER, U.S.G.S.STATION

Near AZUSA, CALIFORNIA for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U8

Drainage Area 214 Square Miles. [Observer.] Gage Read Used rating table dated

≠ Estimated

Day	October Discharge	November Discharge	December Discharge	January Discharge	February Discharge	March Discharge	April Discharge	May Discharge	June Discharge	July Discharge	August Discharge	September Discharge	Day
1	0	0	7.5	119	783.0	517	184	78	41	.1			1
2	0	0	18	114	580	493	191	87	41	.1			2
3	0	0	.3	82	295	476	184	87	53	.1			3
4	0	0	≠ .1	66	195	446	173	85	53	.1			4
5	0	0	≠ .1	52	149	396	166	78	46	0			5
6	0	0	0	42	132	365	159	76	41	0			6
7	0	0	0	34	186	354	152	76	38	0			7
8	0	0	0	22	2200	349	142	71	31	0			8
9	0	0	24	20	5830	326	136	74	29	0			9
10	0	0	12	16	2610	312	133	78	41	0			10
11	0	0	3.4	12	1370	290	133	80	24	0			11
12	0	0	1.6	10	1170	277	133	80	20	0			12
13	0	0	≠ 1.0	13	938	260	136	85	16	0			13
14	0	0	≠ 1.8	10	783	256	139	90	16	0			14
15	0	0	≠ .8	9	684	256	139	94	16	0			15
16	0	0.4	≠ .4	8.5	659	245	139	92	16	0			16
17	0	.3	≠ .2	3.4	622	226	130	87	16	0			17
18	0	0	≠ .1	2.3	574	218	127	85	15	0			18
19	0	0	0	1.8	535	226	124	78	12	0			19
20	0	0	0	1.6	503	237	142	76	9	0			20
21	0	0	0	1.0	492	226	136	74	6.5	0			21
22	0	0	0	.5	482	210	121	74	4.5	0			22
23	0	0	0	.3	482	199	108	61	3.0	0			23
24	0	0	0	.3	492	195	101	55	2.1	0			24
25	0	0	4.4	.3	482	195	106	53	1.5	0			25
26	0	0	55	.5	487	195	115	53	.9	0			26
27	0	25	18	.5	508	199	106	51	.5	0			27
28	0	21	904	≠ .3	535	203	97	51	.5	0			28
29	0	5	826	.2	541	203	87	53	.5	0			29
30	0	≠ .5	271	.2	-	191	76	49	.3	0			30
31	0	-	185	4.8	-	180	-	46	-	0			31
TOTAL,		52.2	2334.7	647.5	25299	8721	4015	2257	594.3	.4			
Mean Daily Discharge in Second-feet	0	1.74	75.3	20.9	872	281	134	72.8	19.8	.013	0	0	Period Year: 120
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet	0	104	4,630	1,290	50,200	17,300	7,970	4,480	1,180	.8	0	0	87,200
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

F.C. Dist.—Form 105—1000—9-31

Discharge, in Second-Feet, of SAN GABRIEL RIVER U.S.G.S. STATION SOUTHERN CALIFORNIA EDISON CO'S CANAL

Near AZUSA, CALIFORNIA for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U8

Drainage Area Square Miles. [Observer.] Gage Read Used rating table dated

Day	October Discharge	November Discharge	December Discharge	January Discharge	February Discharge	March Discharge	April Discharge	May Discharge	June Discharge	July Discharge	August Discharge	September Discharge	Day
1	12.	14.6	14	81	79	79	80	81	80	71	43	31	1
2	12.6	14.6	17	81	80	79	80	75	80	69	43	30	2
3	11.2	14.8	34	81	79	79	80	81	79	69	43	30	3
4	11.4	14.4	32	81	80	79	80	81	79	67	41	27	4
5	11.	14.2	32	81	80	80	80	81	79	66	40	25	5
6	10.6	14.4	28	81	80	80	80	81	79	65	40	26	6
7	11.2	14.6	29	81	80	81	80	81	79	63	38	25	7
8	12.4	16.5	29	81	79	81	80	81	79	62	38	25	8
9	13.2	16.7	68	81	79	81	80	81	64	63	37	24	9
10	13.2	16.7	78	81	38	81	80	81	63	63	37	23	10
11	13.2	24	68	81	80	81	80	81	78	63	39	24	11
12	13.2	19.4	62	81	80	82	80	81	79	63	39	22	12
13	11.8	18.9	56	81	79	81	80	81	79	65	38	23	13
14	11.2	19	56	81	80	81	80	81	79	62	38	22	14
15	11.8	37	57	81	80	81	80	81	79	60	36	22	15
16	11.2	44	50	81	79	81	80	81	79	57	36	22	16
17	11	36	47	81	80	81	80	81	79	57	35	23	17
18	26	31	47	80	80	81	80	81	78	56	34	24	18
19	37	27	48	80	80	81	80	81	78	56	32	24	19
20	27	25	48	78	80	81	80	81	78	54	32	24	20
21	23	24	58	76	80	81	80	81	78	53	31	24	21
22	22	24	80	75	79	81	80	81	78	52	31	24	22
23	20	24	72	71	79	81	80	81	78	48	30	24	23
24	20	20	65	69	79	80	80	81	78	48	30	23	24
25	18.7	22	69	69	79	80	80	81	78	47	30	22	25
26	18	22	81	69	79	80	81	81	77	47	30	23	26
27	17.6	39	81	69	79	80	82	81	76	48	31	23	27
28	16.7	49	80	68	79	80	81	81	75	48	33	23	28
29	16	46	79	66	79	80	81	80	71	48	33	23	29
30	13.7	44	81	63	-	80	81	79	70	45	35	23	30
31	14.6	-	81	72	-	80	-	79	-	44	34	-	31
TOTAL,	492.5	746.8	1727	2382	2264	2494	2406	2500	2306	1779	1107	728	
Mean Daily Discharge in Second-feet	15.9	24.9	55.7	76.8	78.1	80.5	80.2	80.6	76.9	57.4	35.7	24.3	Period Year: 57.2
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet	978	1,480	3420	4720	4490	4950	4770	4960	4580	3530	2200	1450	41,500
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

F.C. Dist.—Form 105—1000—9-31

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U8

Discharge, in Second-Feet, of U.S.G.S. STATION SAN GABRIEL RIVER AND SOUTHERN CALIFORNIA EDISON CO'S CANAL

Near AZUSA, CALIFORNIA for the Year Ending September 30, 1932

Drainage Area 214 Square Miles. [Observer.] Gage Read Used rating table dated

Maximum stage 7.25 feet at 2 PM on Feb. 9, 1932 Discharge 7500 second-feet.
Minimum stage Dry feet at part of year Discharge second-feet.

Day	October Discharge	November Discharge	December Discharge	January Discharge	February Discharge	March Discharge	Day	April Discharge	May Discharge	June Discharge	July Discharge	August Discharge	September Discharge	Day
1	12	14.6	22	200	862	596	1	264	159	121	71	43	31	1
2	12.6	14.6	35	195	660	572	2	271	162	121	69	43	30	2
3	11.2	14.8	34	163	374	555	3	264	168	132	69	43	30	3
4	11.4	14.4	32	147	275	525	4	253	166	132	67	41	27	4
5	11	14.2	32	133	229	476	5	246	159	125	66	40	25	5
6	10.6	14.4	28	123	212	445	6	239	157	120	65	40	26	6
7	11.2	14.6	29	115	266	435	7	232	157	117	63	38	25	7
8	12.4	16.5	29	103	2280	430	8	222	152	110	62	38	25	8
9	13.2	16.7	92	101	5910	407	9	216	155	93	63	37	24	9
10	13.2	16.7	90	97	2650	393	10	213	159	104	63	37	23	10
11	13.2	24	71	93	1450	371	11	213	161	102	63	39	24	11
12	13.2	17.4	64	91	1250	359	12	213	161	99	63	39	22	12
13	11.8	18.9	57	94	1020	341	13	216	166	95	65	38	23	13
14	11.2	19	58	91	863	337	14	219	171	95	62	38	22	14
15	11.8	37	58	90	764	337	15	219	175	95	60	36	22	15
16	11.2	44	50	90	738	326	16	219	173	95	57	36	22	16
17	11	36	47	84	702	307	17	210	168	95	57	35	23	17
18	26	31	47	82	654	299	18	207	166	93	56	34	24	18
19	37	27	48	82	615	307	19	204	159	90	56	32	24	19
20	27	25	48	80	583	318	20	222	157	87	54	32	24	20
21	23	24	58	77	572	307	21	216	155	84	53	31	24	21
22	22	24	80	76	561	291	22	201	155	82	52	31	24	22
23	20	24	72	71	561	280	23	188	142	81	48	30	24	23
24	20	20	65	69	571	275	24	181	136	80	48	30	23	24
25	18.7	22	73	69	561	275	25	186	134	80	47	30	22	25
26	18	22	136	70	566	275	26	196	134	78	47	30	23	26
27	17.6	64	99	70	587	279	27	188	132	76	48	31	23	27
28	16.7	70	984	68	614	283	28	178	132	76	48	33	23	28
29	16	51	905	66	620	283	29	168	133	72	48	33	23	29
30	13.7	44	352	63	-	271	30	157	128	70	45	35	23	30
31	14.6	-	266	77	-	260	31	-	125	-	44	34	23	31
TOTAL	492.5	797.8	4061	3030	27,570	11,215		6,421	4,757	2,900	1,779	1,107	728	
Mean Daily Discharge in Second-feet	15.9	26.6	131	97.7	951	362		214	153	96.7	57.4	35.7	24.3	1.77
Second-feet per square mile														
Run-off, depth in inches														
Run-off in acre-feet	978	1580	8060	6010	54,700	22,300		12,700	9,410	5,750	3,530	2,200	1,450	129,000
Maximum Mean Daily Discharge in Second-feet														
Minimum Mean Daily Discharge in Second-feet														

(Gage height columns blank. Last column: PERIOD / YEAR.)

U 5

SAWPIT CREEK U.S.G.S. STATION NEAR MONROVIA, CALIF.

Location
In SW¼ SW¼ Sec. 13, T. 1 N., 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
November 8, 1916 to Sept. 30, 1932 at U.S.G.S. office. In Los Angeles, California.

Gage
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
1931-32
Maximum- 52. c.f.s. on Feb. 9, 1932.
Minimum- Dry at 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 partly regulated by the Los Angeles County Flood Control District's Dam.

Accuracy
Good

Operation
Constructed by U.S.G.S. Water Resources Branch and operated by U.S.G.S. Water Resources Branch in conjunction with the Los Angeles County Flood Control District.

F. C. Dist. Form 104

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U5

Discharge measurements of SAWPIT CREEK U.S.G.S. STATION

In 1/2 Mile Below Dam, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
150	11/13	Lindsey	4.1	.51	1.61	.51	.80		.6		4		1/12	282 883
151	20	"	1.5	.12	.83	.30	.10		.6		3		"	"
152	12/28	Lindsey & Cole	7.0	3.9	4.50	1.25	18.		.6		7		2/15	"
153	29	"	5.3	4.58	3.24	.98	10.48		.6		5		1/5	"
154	31	Cole	5.5	3.43	1.63	.82	5.6		.6		5		4/15	271 655
155	1/5	H. J. Tompkins F. C. Ebert	6	1.7	1.77	.60	3.0		.6		6		1/6	953
156	7	H.C.Troxell	4.5	1.2	.50	.44	.6		.6		7		1/6	29567
157	8	Lindsey-Harting	2.0	.34	.91	.38	.31		.6		4		1/12	282 883
158	2/1	F. C. Ebert	8.	5.0	2.40	1.22	12.		.6		9		1/6	27214
159	1	"	8.	4.0	2.75	1.19	11.		.6		9		"	"
160	1	Lindsey & Cole	6.	1.92	2.05	.69	3.94		.6		6		1/10	282 883
161	2	F. C. Ebert	5.7	2.6	1.38	.66	3.6		.6		9		1/3	27214
162	4	"	6.5	2.4	2.17	.80	5.2		.6		12		1/4	"
163	8	Lindsey & Cole	5.0	2.86	2.23	.97	6.4		.6		5		1/12	282 883
164	8	F. C. Ebert	8.4	4.1	3.41	1.26	14.		.6		9		1/3	27214
165	10	"	10.	7.6	3.29	1.45	25.		.6		10		1/3	"
166	10	Lindsey	10.	7.4	2.83	1.40	21.27		.6		8		1/4	282 883
167	12	Cole	8.2	7.6		1.25	14.		.6				1/5	"
168	16	Lindsey & Cole	9.2	7.07	1.86	1.20	13.		.6		6		1/6	"
169	16	F. C. Ebert	9.	7.1	1.97	1.21	14.		.6				1/3	27214
170	19		9.5	6.91	1.99	1.20	13.67		.6		7		1/6	282 883
171	23	F. C. Ebert	8.5	6.3	1.91	1.11	12.		.6		9			27214
172	25	Lindsey	6.5	3.89	1.44	.76	5.6		.6		6		1/6	282 883
173	3/2	F.C. Ebert	5.3	2.2	1.27	.54	2.8		.6		10		1/4	27214
174	3	Lindsey	5.6	2.23	1.32	.55	2.9		.6		5		1/12	282 883
175	6/3	Lindsey	3.7	.96	.71	.21	.70		.6		4		"	"
176	10	"	2.5	.59	.49	.12	.29		.6		5		"	"

F. C. Dist. Form 104 [illegible] 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U5

Discharge measurements of SAWPIT CREEK U.S.G.S. STATION

~~at~~ near 1/2 Miles Below Dam, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (Ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
178	6/23	H. J. Tompkins	2.0	.4	.35	.06	.14		.6		2		1/6	953
179	24	Lindsey	1.0	.2	.57	.06	.12		.6		2		1/30	282 883
180	7/1	"	1.0	.21	.67	.07	.14		.6		2		"	"
181	9	"	1.0	.20	.75	.06	.15		.6		2		"	"
182	15	"				.05	.12		Venturi	Flume				
183	22	"				.08	.18		"					
184	23	H. J. Tompkins	2.	.42	.65	.08	.27		.6		4		1/6	953
185	29	Lindsey				.06	.14		Venturi	Flume				
186	8/8	"				.08	.15		"					
187	19	Brewster	1.0	.12	1.00	.05	.12		.6		2		1/12	271 666
188	26	"	1.0	.21	1.10	.12	.23		.6		2		"	"
189	9/2	"	1.0	.16	1.00	.09	.16		.6		2		"	"
190	8	Lindsey	1.0	.13	.69	.06	.09		.6		2		1/30	

F.C. Dist.—Form 105—1000—9.31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U5

~~Daily Gage Height, in Feet, and~~ Discharge, in Second-Feet, of SAWPIT CREEK, U.S.G.S. STATION

~~at~~ Near MONROVIA, CALIFORNIA for the Year Ending September 30, 1932

Drainage Area 5.3 Square Miles. [Observer.] Gage Read Used rating table dated

Maximum stage 2.02 feet at 4 PM on Feb.9, 1932 Discharge 52 second-feet.
Minimum stage Dry ~~at~~ at various times of year Discharge second-feet.

+ Estimated

DAY	OCTOBER Gage height	OCTOBER Discharge	NOVEMBER Gage height	NOVEMBER Discharge	DECEMBER Gage height	DECEMBER Discharge	JANUARY Gage height	JANUARY Discharge	FEBRUARY Gage height	FEBRUARY Discharge	MARCH Gage height	MARCH Discharge
1				0		0		+ 5.5		7.5		3.1
2				0		0		+ 5		4.2		2.8
3				0		0		+ 4.5		4.5		2.9
4				0		0		+ 3.5		7		2.8
5				0		0		+ 3.0		4.7		2.8
6				0		0		+ 1.5		4.3		2.8
7				0		0		.5		5		2.1
8				0		.1		.4		9		.5
9				0		.2		.2		31		.3
10				0		.2		.2		21		.3
11				0		.1		.1		17		.2
12				0		.1		.1		16		.2
13				0.3		0		.1		15		.2
14				+ .7		.1		.1		15		.2
15				+ .6		0		.1		15		.2
16				+ .6		0		0		14		.2
17				+ .5		0		0		14		.2
18				+ .3		0		0		14		.1
19				+ .2		0		0		14		.1
20				.1		0		0		13		.1
21				+ .1		.1		0		13		.1
22				0		.1		0		12		.1
23				0		.1		0		12		0
24				0		.1		0		8		0
25				0		.2		0		5.5		0
26				0		.2		0		5		0
27				.1		.2		0		4.7		0
28				0		11		0		3.2		0
29				0		10		0		3.1		0
30				0		7.5		0		–		0
31				–		6.5		1.1		–		0
TOTAL,				3.5		36.8		25.9		311.7		22.3
Mean Daily Discharge in Second-feet		0		0.12		1.19		0.84		10.7		0.72
Second-feet per square mile												
Run-off, depth in inches												
Run-off in acre-feet		0		7.0		73.2		51.3		616		44.2
Maximum Mean Daily Discharge in Second-feet												
Minimum Mean Daily Discharge in Second-feet												

DAY	APRIL Gage height	APRIL Discharge	MAY Gage height	MAY Discharge	JUNE Gage height	JUNE Discharge	JULY Gage height	JULY Discharge	AUGUST Gage height	AUGUST Discharge	SEPTEMBER Gage height	SEPTEMBER Discharge	PERIOD YEAR
1		0		0		0.2		0.2		0.1		0.2	
2		0		0		.6		.2		.1		.2	
3		0		0		.6		.2		.1		.1	
4		0		0		.6		.2		.1		.1	
5		0		0		.5		.2		.1		.1	
6		0		0		.4		.2		.1		.2	
7		0		0		.4		.2		.1		.2	
8		0		0		.4		.2		.1		.1	
9		0		0		.3		.2		.1		.1	
10		0		0		.3		.2		.1		.1	
11		0		0		.3		.2		.1		.1	
12		0		0		.3		.2		.1		.1	
13		0		0		.3		.2		.1		0	
14		0		0		+ .3		.2		.1		0	
15		0		0		+ .3		.2		.1		0	
16		0		0		+ .3		.1		.1		0	
17		0		0		+ .2		.1		.1		0	
18		0		0		+ .2		.1		.1		0	
19		0		0		+ .2		.1		.1		.2	
20		0		0		+ .2		.2		.1		.2	
21		0		+.1		+ .2		.2		.1		.1	
22		0		0		+ .2		.2		.3		0	
23		0		0		.2		.2		.3		0	
24		0		0		.2		.2		.2		0	
25		0		0		.2		.2		.2		0	
26		0		0		.2		.2		.2		0	
27		0		0		.2		.2		.2		0	
28		0		0		.2		.2		.2		0	
29		0		0		.2		.2		.2		0	
30		.1		0		.2		.2		.2		0	
31		–		0		–		.2		.2		–	
TOTAL,		.1		.1		8.9		5.8		4.3		2.1	
Mean Daily Discharge in Second-feet		0.003		0.003		0.30		0.19		0.14		0.07	1.15
Second-feet per square mile													
Run-off, depth in inches													
Run-off in acre-feet		0.2		0.2		17.7		11.5		8.5		4.2	834
Maximum Mean Daily Discharge in Second-feet													
Minimum Mean Daily Discharge in Second-feet													

Quarter: Fourth, Third, Second, First — Computed, Checked, Date; Disch. applied, Disch. checked, Date; G. H. copied, G. H. checked, Date

F.C. Dist.—Form 105—1000—9-31

SAWPIT CREEK U.S.G.S. STATION

~~Daily Gage Height, in Feet, and~~ Discharge, in Second-Feet, of MONROVIA PIPE LINE

Near NEAR MONROVIA, CALIF. for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U5

Drainage Area ..... Square Miles. [..... Observer.] Gage Read ..... 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		0.6		0.5		0.8		1.1		0.5		1.5	1		1.2		1.4		1.2		0.9		0.8		0.8	1
2		.6		.5		.8		1.3		.4		1.5	2		1.2		1.4		1.2		.9		.8		.8	2
3		.6		.5		.8		1.1		.9		1.5	3		1.2		1.4		1.2		.9		.6		.8	3
4		.5		.5		.8		1.7		1.5		1.5	4		1.2		1.4		1.2		.9		.6		.8	4
5		.5		.5		.8		1.7		1.4		1.5	5		1.2		1.4		1.1		.9		.6		.8	5
6		.5		.5		.8		1.7		1.4		1.4	6		1.2		1.4		1.1		.9		.6		.8	6
7		.5		.5		.8		1.7		.9		1.4	7		1.2		1.4		1.1		.9		.6		.8	7
8		.5		.5		.8		1.7		.5		1.4	8		1.2		1.4		1.1		.9		.6		.8	8
9		.5		.5		1.1		1.7		.6		1.4	9		1.2		1.4		1.1		.8		.6		.8	9
10		.5		.6		1.1		1.6		.6		1.4	10		1.2		1.4		1.1		.8		.6		.8	10
11		.5		.6		1.3		1.5		.8		1.4	11		1.2		1.4		1.1		.8		.6		.8	11
12		.5		.6		1.1		1.5		.9		1.4	12		1.2		1.4		1.1		.8		.6		.8	12
13		.5		.6		1.0		1.5		0		1.4	13		1.2		1.4		1.1		.8		.6		.8	13
14		.5		.6		.9		1.5		.9		1.4	14		1.2		1.4		1.1		.8		.8		.8	14
15		.5		1.1		.8		1.5		.9		1.4	15		1.2		1.3		1.1		.8		.8		.8	15
16		.5		.6		.9		1.5		1.5		1.4	16		1.2		1.3		1.1		.8		.8		.8	16
17		.5		.6		.9		1.5		1.5		1.4	17		1.2		.5		1.1		.8		.8		.8	17
18		.5		.8		.9		1.5		1.5		1.4	18		1.2		1.3		1.1		.8		.8		.8	18
19		.4		.6		.9		1.4		1.5		1.4	19		1.2		1.3		1.0		.8		.8		.8	19
20		.5		.6		.9		1.3		1.5		1.4	20		1.2		1.3		1.0		.8		.8		.8	20
21		.6		.6		.9		1.3		1.5		1.4	21		1.1		1.2		1.0		.8		.8		.8	21
22		.6		.6		.9		1.2		1.5		1.4	22		1.2		1.2		1.0		.8		.8		.8	22
23		.6		.6		.9		1.2		1.5		1.4	23		1.3		1.2		.9		.8		.8		.8	23
24		.6		.6		.9		1.2		1.5		1.4	24		1.3		1.2		.9		.8		.8		.8	24
25		.6		.6		1.1		1.2		1.5		1.4	25		1.3		1.2		.9		.8		.8		.8	25
26		.6		.6		1.1		1.2		1.5		1.4	26		1.5		1.2		.9		.8		.8		.8	26
27		.6		.9		1.1		1.2		1.5		1.2	27		1.4		1.2		.9		.8		.8		.8	27
28		.5		.8		.8		1.2		1.5		1.2	28		1.4		1.2		.9		.8		.8		.8	28
29		.5		.8		1.7		1.2		1.5		1.2	29		1.4		1.2		.9		.8		.8		.8	29
30		.5		.8		1.1		1.2		-		1.2	30		1.4		1.2		.9		.8		.8		.8	30
31		.5		-		1.5		1.3		-		1.2	31		-		1.2		-		.8		.8		-	31
TOTAL,		16.4		18.7		30.2		43.4		33.2		42.9			37.3		39.8		31.4		25.6		22.6		24	
Mean Daily Discharge in Second-feet		0.53		0.62		0.97		1.40		1.14		1.38			1.24		1.28		1.05		0.83		0.73		0.80	.10
Second-feet per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet		32.5		37.1		59.9		86.1		65.6		84.8			73.8		78.7		62.5		50.8		44.8		47.6	724
Maximum Mean Daily Discharge in Second-feet																									
Minimum Mean Daily Discharge in Second-feet																									

Discharge ..... second-feet. Discharge ..... second-feet. on ..... feet at ..... on ..... feet at .....

Maximum stage ..... Minimum stage .....

Quarter: Fourth, Third, Second, First — Computed ..... Checked ..... Date .....

Quarter: Fourth, Third, Second, First — Disch. applied ..... Disch. checked ..... Date .....

Quarter: First, Second, Third, Fourth — G. H. copied ..... G. H. checked ..... Date .....

PERIOD YEAR

F.C. Dist.—Form 105—1000—9-31

~~Daily Gage Height, in Feet, and~~ Discharge, in Second-Feet, of SAWPIT CREEK AND MONROVIA PIPE LINE U.S.G.S. STATION

Near MONROVIA, CALIFORNIA for the Year Ending September 30, 1932

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. U5

Drainage Area ..... Square Miles. [..... Observer.] Gage Read ..... 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		.6		.5		.8		6.6		8.0		4.6	1		1.2		1.4		1.4		1.1		.9		1.0	1
2		.6		.5		.8		6.3		4.6		4.3	2		1.2		1.4		1.8		1.1		.9		1.0	2
3		.6		.5		.8		5.6		5.4		4.4	3		1.2		1.4		1.8		1.1		.7		.9	3
4		.5		.5		.8		5.2		8.5		4.3	4		1.2		1.4		1.8		1.1		.7		.9	4
5		.5		.5		.8		4.7		6.1		4.3	5		1.2		1.4		1.6		1.1		.7		.9	5
6		.5		.5		.8		3.2		5.7		4.2	6		1.2		1.4		1.5		1.1		.7		1.0	6
7		.5		.5		.8		2.2		5.4		3.5	7		1.2		1.4		1.5		1.1		.7		1.0	7
8		.5		.5		.9		2.1		9.5		1.9	8		1.2		1.4		1.5		1.1		.7		.9	8
9		.5		.5		1.3		1.9		32.		1.7	9		1.2		1.4		1.4		1.0		.7		.9	9
10		.5		.6		1.3		1.8		22.		1.7	10		1.2		1.4		1.4		1.0		.7		.9	10
11		.5		.6		1.4		1.6		17.8		1.6	11		1.2		1.4		1.4		1.0		.7		.9	11
12		.5		.6		1.2		1.6		16.9		1.6	12		1.2		1.4		1.4		1.0		.7		.9	12
13		.5		.9		1.0		1.6		15		1.6	13		1.2		1.4		1.4		1.0		.7		.8	13
14		.5		1.3		1.0		1.6		15.9		1.6	14		1.2		1.4		1.4		1.0		.9		.8	14
15		.5		1.7		.8		1.6		15.9		1.6	15		1.2		1.3		1.4		1.0		.9		.8	15
16		.5		1.2		.9		1.5		15.5		1.6	16		1.2		1.3		1.4		.9		.9		.8	16
17		.5		1.1		.9		1.5		15.5		1.6	17		1.2		.5		1.3		.9		.9		.8	17
18		.5		1.1		.9		1.5		15.5		1.5	18		1.2		1.3		1.3		.9		.9		.8	18
19		.4		.8		.9		1.4		15.5		1.5	19		1.2		1.3		1.2		.9		.9		1.0	19
20		.5		.7		.9		1.3		14.5		1.5	20		1.2		1.3		1.2		1.0		.9		1.0	20
21		.6		.7		1.0		1.3		14.5		1.5	21		1.1		1.3		1.2		1.0		.9		.9	21
22		.6		.6		1.0		1.2		13.5		1.5	22		1.2		1.2		1.2		1.0		1.1		.8	22
23		.6		.6		1.0		1.2		13.5		1.4	23		1.3		1.2		1.1		1.0		1.1		.8	23
24		.6		.6		1.0		1.2		9.5		1.4	24		1.3		1.2		1.1		1.0		1.0		.8	24
25		.6		.6		1.3		1.2		7.0		1.4	25		1.3		1.2		1.1		1.0		1.0		.8	25
26		.6		.6		1.3		1.2		6.5		1.4	26		1.5		1.2		1.1		1.0		1.0		.8	26
27		.6		1.0		1.3		1.2		6.2		1.2	27		1.4		1.2		1.1		1.0		1.0		.8	27
28		.5		.8		11.8		1.2		4.7		1.2	28		1.4		1.2		1.1		1.0		1.0		.8	28
29		.5		.8		11.7		1.2		4.6		1.2	29		1.4		1.2		1.1		1.0		1.0		.8	29
30		.5		.8		8.6		1.2		-		1.2	30		1.5		1.2		1.1		1.0		1.0		.8	30
31		.5		-		8.0		2.4		-		1.2	31		-		1.2		-		1.0		1.0		-	31
TOTAL,		16.4		22.2		67.0		69.3		345.7		65.2			37.4		39.9		40.3		31.4		26.9		26.1	
Mean Daily Discharge in Second-feet		0.53		0.74		2.16		2.24		11.9		2.10			1.25		1.29		1.34		1.01		0.87		0.87	2.15
Second-feet per square mile																									
Run-off, depth in inches																									
Run-off in acre-feet		32.5		44.0		133.		138		684		129			74.4		79.3		79.7		62.1		53.4		51.8	1,560
Maximum Mean Daily Discharge in Second-feet																									
Minimum Mean Daily Discharge in Second-feet																									

Discharge ..... second-feet. Discharge ..... second-feet. on ..... feet at ..... on ..... feet at .....

Maximum stage ..... Minimum stage .....

Quarter: Fourth, Third, Second, First — Computed ..... Checked ..... Date .....

Quarter: Fourth, Third, Second, First — Disch. applied ..... Disch. checked ..... Date .....

Quarter: First, Second, Third, Fourth — G. H. copied ..... G. H. checked ..... Date .....

PERIOD YEAR

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 116

Discharge measurements of Arroyo Ditch

at near ½ mi. North of Whittier Blvd., during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-2	Brewster	7.5	5.08	.98	.61	4.96	.6			7		1/6	271 666
2	10-9	"	7.5	5.85	1.42	.73	8.28	.6			7		1/6	"
3	10-16	"	7.5	5.65	1.15	.69	6.47	.6			7		"	"
4	10-23	"	7.5	5.94	1.25	.72	7.41	.6			7		"	"
5	10-30	"	7.5	6.39	1.24	.76	7.95	.6			7		"	"
6	11-6	"	7.5	6.12	1.24	.74	7.56	.6			7		"	"
7	11-13	"	7.5	6.35	1.32	.76	8.41	.6			7		"	"
8	1932 3-18	"	7.5	4.56	.99	.52	4.50	.6			7		1/6	"
9	3-25	"	7.5	5.51	2.32	.78	12.57	.6			7		"	"
10	4-1	"	7.5	5.25	2.08	.72	10.90	.6			7		"	"
11	4-8	"	7.5	6.44	2.42	.86	15.58	.6			7		1/6	"
12	4-15	"	7.5	5.17	1.84	.69	9.51	.6			7		1/6	"
13	4-22	"	7.5	4.55	1.41	.60	6.42	.6			7		1/4	"
14	4-29	"	7.5	5.29	1.61	.69	8.54	.6			7		"	"
15	5-6	"	7.5	4.67	1.42	.63	6.62	.6			7		1/5	"
16	5-13	"	7.5	4.40	1.13	.56	4.96	.6			7		1/6	"
17	5-20	"	7.5	4.32	1.31	.58	5.64	.6			7		1/4	"
18	5-27	"	7.5	4.65	1.58	.64	7.34	.6			7		1/6	"
19	6-3	"	7.5	4.88	1.60	.68	7.80	.6			7		1/4	"
20	6-10	"	7.5	3.93	1.06	.56	4.16	.6			7		1/4	"
21	6-17	"	7.5	4.27	1.17	.59	5.00	.6			7		"	"
22	6-24	"	7.5	3.62	1.00	.52	3.62	.6			7		"	"
23	7-1	"	7.5	3.27	.74	.48	2.43	.6			7		"	"
24	7-8	"	7.5	3.33	.83	.49	2.75	.6			7		"	"
25	7-15	"	7.5	3.39	.76	.50	2.56	.6			7		1/6	"
26	7-22	"	7.5	3.67	.86	.56	3.16	.6			7		"	"
27	7-29	"	7.5	3.59	.75	.54	2.71	.6			7		1/5	"
28	8-5	"	7.5	4.36	.90	.64	3.91	.6			7		"	"
29	8-12	Brewster	7.5	4.25	.93	.64	3.94	.6			7		1/4	666
30	8-18	"	7.5	4.19	.89	.64	3.74	.6			7		1/6	"
31	8-25	"	7.5	3.45	.71	.54	2.46	.6			7		1/4	"
32	9-1	"	7.5	2.97	1.16	.58	3.45	.6			7		1/5	"
33	9-7	"	7.5	3.96	1.11	.62	4.39	.6			7		1/6	"
34	9-15	"	7.5	3.31	1.29	.64	4.28	.6			7		1/4	"
35	9-22	"	7.5	3.90	1.56	.68	6.08	.6			7		1/6	"
36	9-29	"	7.5	4.85	1.22	.68	5.92	.6			7		"	"

F. C. Dist. Form 104 1M 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 58

Discharge measurements of Arroyo Seco

at near Avenue 26 Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	3-11	Bollinger-Moore	5.20	1.39	.72	1.49	1.00	.6			7		1/6	271 660
2	3-18	" "	5.20	1.05	.87	1.46	.91	.6			6			"
3	3-25	" "	3.80	.60	.75	1.45	.45	.6			5		1/6	"
4	4-1	Bollinger	4.50	.54	.54	1.41	.29	.6			4		1/18	"
5	4-8	"	3.50	.45	.82	1.36	.37	.6			5		1/6	"
6	4-15	"	2.20	.35	.74	1.38	.26	.6			3		"	"
7	4-22	"	.90	.15	1.00		.16	.6			2		1/12	"
8	4-29	"	2.40	.50	.80	1.39	.39	Float			5			
9	5-6	"	1.90	.38	.66	1.39	.25	Float			4			
10	5-13	"	2.20	.42	.57	1.50	.24	"			5			
11	5-21	"	1.80	.37	.54	1.50	.20	"			4			
12	5-27	"	2.50	.52	.35	1.51	.18	"			5			
13	6-3	"	1.60	.31	.45	1.51	.14	"			4			
14	6-10	"	1.50	.23	.48	1.47	.11	"			3			

Discharge measurements of Arroyo Seco

at near (Miscellaneous Measurements), during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		250' above inflow to Dam												
	2-27	Turner	4.3	1.39	1.77		2.46		.6		8		1/6	FC 25
		Inflow to Gravel Pit above Dam												
	2-27	Turner	11.5	8.70	1.78		15.68		.6		5		½	FC 25
		Cable Crossing below Dam												
	2-26	Turner	3.4	.47			0.25		.6		5		1/12	FC 25
		Leak through Gate												
	2-26	Turner	3.0	.34			.25		.6		4		1/12	FC 25
		Gravel Pit inflow												
	2-26	Turner	11.7	10.4	1.60		16.60		.6		11		½	FC 25
		250' above inflow to Devil's Gate												
	2-26	Turner	7.5	1.32	1.43		1.88		.6		8		1/6	FC 25
		150' below Devil's Gate Dam												
	1-11	Lindsey obs, Dalton	9.7	11.93	4.07		48.54		.6		10		½	282 883
		Below Devil's Gate Dam - 100' below Gate Tunnel												
	1-13	Lindsey & Cornick	13.0	10.01	1.35		13.60		.6		13		½	282 883
		Below Devil's Gate Dam - 100' below Gate Tunnel												
	1-14	Lindsey	13.0	10.38	1.34		13.78		.6		13		1/3	282 883
		150' below Devil's Gate												
	1-11	Lindsey	9.7	12.72	3.95		50.41		.6		10		½	282 883
		Below Devil's Gate Dam - below Gate Tunnel												
	1-13		13.0	10.24	1.43		14.52		.6		13		½	282 883
		Below Devil's Gate Dam - 100' below Gate Tunnel												
	1-11	Lindsey	13.0	12.92	1.24		15.97		.6		13		½	282 883
		Below Devil's Gate Dam - 100' below Gate Tunnel												
	1-12	Lindsey	13.0	11.15	1.39		15.52		.6		13		1/3	282 883
		Below Devil's Gate Dam - 100' below Gate Tunnel												
	1-11	Lindsey & Dalton	13.3	13.98	1.47		20.63		.6		13		1/3	282 883
		Below Devil's Gate Dam - 100' below Gate Tunnel												
	1-11	Lindsey	14.4	21.99	2.07		49.49		.6		15		5/12	282 883
		Below Devil's Gate Dam - 100' below Gate Tunnel												
	1-11	Lindsey	14.4	21.65	2.27		49.21		.6		15		1/3	282 883
		Below Devil's Gate Dam - 100' below Gate Tunnel												
	1-11	Lindsey & Dalton	14.8	22.20	2.21		49.18		.6		15		1/3	282 883

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. _____

Discharge measurements of Arroyo Seco

at near (Miscellaneous Measurements), during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Mouth of Canyon												282
	2-8	Lindsey & Cole	43.0	31.35	6.13	4.75	192.21		.6		9		1/6	883
		Mouth - Pas. Rec. Sta.												282
	2-10	Lindsey	40.5	30.95		4.05	187.93		.6		9		1/6	883
		1 mi. above Dam												
	3-14	Turner	2.	.59	.42		.25		.6		4		1/6	FC 30
		Devil's Gate Dam (leak through gate)												
	3-14	Turner	1.5	.37	.51		0.19		.6		3		1/12	FC 30
		Devil's Gate Dam (leak through gate)												
	3-15	Turner	1.4	.45	.31		.14		.6		2		1/12	FC 30
		1 mi. above Dam												
	3-15	Turner	2.4	.72	.37		.26		.6		5		1/12	FC 30
		1 mi. above Dam												
	3-19	Turner	2.0	.54			.26		.6		4		1/12	FC 30
		Dam (leak through gate)												
	3-19	Turner	1.5	.35	.40		0.14		.6		3		1/12	FC 30
		Dam (leak through gate)												
	3-23	Turner					.05		Flume					
		1 mi. above Dam												
	3-23	Turner					0.222		Flume					
		Devil's Gate Dam (leak through gate)												
	3-26	Turner					0.02		Flume					
		1 mi. above Dam												
	3-26	Turner					0.089		Flume					
		Devil's Gate Dam (leak through gate)												
	3-30	Turner					0.027		Vol.					
		Devil's Gate Dam (leak through gate)												
	4-4	Turner					0.017		Vol.					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Arroyo Seco

at near (Miscellaneous Measurements), during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Inflow to Dam												
	4-26	Turner	5.0	1.77	1.84		3.27		.6		10		1/6	FC 30
		Inflow to Dam												
	4-27	Turner	6.0	2.12	1.86		3.94		.6		6		1/6	FC 30
		1 mi. above Dam (flume)												
	3-10	Turner	6.0	2.40	.75		1.90		.6		7		1/6	FC 30
		Devil's Gate Dam (leak through gate)												
	3-10	Turner	1.5	.20	.95		0.19		.6		3		1/12	FC 30
		1 mi. above Dam (flume)												
	3-11	Turner	6.	2.28	.60		1.33		.6		7		1/6	FC 30
		1 mi. above Dam (flume)												
	3-12	Turner	6.	1.92			0.58		.6		7		1/6	FC 30
		Devil's Gate Spillway (Leakage from Dam)												
	3-5	Turner	1.3	.25	1.12		0.28		.6		3		1/12	FC 25
		Inflow to Gravel Pit - Devil's Gate Dam												
	3-5	Turner	7.0	1.95	1.17		2.27		.6		7		1/6	FC 25
		1 mi. above Dam (flume)												
	3-7	Turner	6.0	2.70			2.90		.6		7		1/4	FC 25
		Inflow to Gravel Pit above Dam												
	3-2	Turner	9.0	4.29	1.53		6.57		.6		5		1/6	FC 25
		Outflow from Gravel Pit above Dam												
	3-1	Turner	5.0	2.44	1.07		2.61		.6		6		1/6	FC 25
		1 mi. above Dam												
	3-1	Turner	11.0	6.54	1.46		9.54		.6		8		1/3	FC 25
		150' above inflow to Dam												
	3-1	Turner	4.8	1.33	1.52		2.03		.6		7		1/6	FC 25
		200' above inflow to Dam												
	2-29	Turner	4.8	1.53	1.58		2.42		.6		8		1/6	FC 25

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 157

Discharge measurements of Arroyo Sequis

at Xnear Roosevelt Hwy. Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-14	Meunier-Gewertz	5.	.5	.97		.49		Float					
2	12-28	Meunier-Girovard	45.0	112.5	8.22	3.0	925. cf		"				1	
3	12-31	Meunier	12.0	4.8	2.9		14."		"					
4	1932 1-8	Meunier	5.0	.60	1.3		.82		"					
5	1-15	Meunier	7.0	2.1	2.2		4.8		"					
6	1-22	Meunier	2.5	0.25	1.2		0.32		"					
7	1-27	Meunier	0.8	0.08	0.6		0.05		"					
8	1-29	Meunier	0.8	0.06			0.05		"					
9	1-31	Meunier-Girouard	41.	36.0	4.9		117.0		"					
10	2-2	Meunier-Girouard	26.	10.30	3.1	2.9	31.98		"					
12	2-4	Meunier	12.	4.7	2.5	2.8	11.95		.6		7		1/6	371 588
13	2-8	Meunier-Girouard	57.	46.45	4.1	3.7	192.08		.6		11		1/3	371 588
14	2-13	Meunier	38.5	13.35	2.08	3.0	27.80		.6		9		1/4	371 588
15	2-16	Meunier-Girouard	16.0	8.0	3.0	3.3	24.2		Float		1			
16	2-18	Meunier	12.0	4.8	3.4	3.2	16.3		"		1			
17	2-25	Meunier	7.0	1.89	1.7	3.3	4.6		"		1			
18	3-3	Meunier	9.0	1.80	1.8		3.27		"		1			
19	3-11	Meunier	2.5	3.5	1.5		3.28		"		1			
20	3-17	Meunier	3.0	0.3	0.8		0.24		"		1			
21	3-24	Meunier	1.7	0.12	0.5		0.07		"		1			
22	3-31	Meunier	1.2	.06	0.3		0.02		"		1			
23	4-7	Meunier	0.2	.004	0.5		0.002		"		1			

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 158

Discharge measurements of Ballona Creek

Xnear East Branch, South of Adams St., during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	1-22	Hardgrove	4.	1.75	.85	5.6	1.49		.6		4		1/6	FC 20
2	1-29	Hardgrove	4.	1.50	.93	5.7	1.40		.6		4		.8	FC 20
3	2-5	Hardgrove	5.	2.40	.81	5.4	1.94		.6		5		1/8	FC 20
4	2-8	Hedge-Fisk-Klein	27.	85.4	1.41		120.76		.6		6		1/3	4 Hoff
5	2-8	Hedge-F.-Kleins.	28.	98.3	1.13	9.5	111.13		.6		6		1/4	4 Hoff
6	2-8	H.-F.-Kleinsmidt	29.	115.0	1.18		135.32		.6		7		1/6	4 Hoff
7	2-8	Hedge-M.-Hamilton	10.	30.21	4.62		139.72		.6		13		1/6	4 Hoff
8	2-8	Hedge-Fisk-Klein	27.	80.2	1.31		104.51		.6		6		1/4	4 Hoff
9	2-9	Kleinsmidt-Killar	25.	61.08	.42	8.22	26.28		.6		6		1/4	F.C.3
10	2-9	Kleins.-Killars	27.	56.05	.36	7.82	20.03		.6		6		1/4	F.C.3
11	2-9	Kleins.-Killars	24.	48.85	.36	7.55	17.81		.6		6		1/6	F.C.3
12	2-9	Kleins.-Killars	26.	68.0	.44	8.40	30.32		.6		6		1/6	F.C.3
13	2-11	Hardgrove	7.	4.9	.76	5.75	3.7		.6		4			FC 20
14	2-19	Hardgrove-Burr.	7.7	5.3	.74	5.8	3.86		.6		7		1/6	
15	2-26	Hardgrove	6.	4.74	.51	5.7	2.41		.6		4		1/6	FC 20
16	3-4	Hardgrove	6.	4.99	.58	5.8	2.88		.6		6		1/6	FC 20
17	3-11	Hardgrove	6.5	4.47	.32	5.6	1.45		.6		6			FC 20
18	3-18	Hardgrove	6.	4.05	.45	5.6	1.84		.6		6			FC 20
19	3-25	Hardgrove	6.	3.75	.35	5.6	1.30		.6		6		1/6	FC 20
20	4-1	Hardgrove	4	1.39	1.03	5.6	1.48		.6		4		1/6	FC 20
21	4-8	Hardgrove	4	1.18	.32	5.6	1.56		.6		4		1/6	FC 20
22	4-15	Hardgrove	4	1.08	.31	5.7	1.43		.6		4		1/6	FC 20
23	4-22	Hardgrove	3.7	1.23	1.35	5.6	1.66		.6		4		1/10	FC 20
24	4-29	Hardgrove	3.	1.95	1.04	5.8	2.03		.6		3			FC 20
25	5-6	Hardgrove	6.	.72	.75	5.8	.54		.6		3		1/6	FC 20
26	5-14	Hardgrove	5.	3.35	.35	5.6	.81		.6		5		1/6	FC 20
27	5-21	Hardgrove	5.	3.43	.35	5.6	1.18		.6		5		1/6	FC 20
28	5-28	Hardgrove	5.	.96	.4	5.6	.38		.6		5		1/6	FC 20

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 158

Discharge measurements of Ballona Creek

East Branch, South of Adams St., during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	6-4	Hardgrove	8.	1.9	.61	5.7	1.16		.6		4		1/6	FC 20
30	6-11	Hardgrove	4.	.7	.27	5.6	.69		.6		4		1/6	FC 20
31	6-18	Hardgrove	4.	.9	1.49	5.6	1.40		.6		4		1/6	FC 20
32	6-25	Hardgrove	4.	1.6	1.26	5.6	2.10		.6		4			FC 20
33	7-2	Hardgrove	5.	1.7	.53	5.6	.88		.6		5			FC 20
34	7-9	Hardgrove	5.	1.7	.51	5.6	.80		.6		5			FC 20
35	7-9	Hardgrove	5.	1.8	.54	5.6	.90		.6		5			FC 20
36	7-16	Hardgrove	5.	1.8	.54	5.8	.97		.6		5			FC 20
37	7-23	Hardgrove	5.	1.7	.53	5.6	.92		.6		5			FC 20
38	7-29	Hardgrove	5.	1.6	.53	5.8	.86		.6		5			FC 20
39	8-6	Hardgrove	4.	.7	.93	5.8	.70		.6		4			FC 20
40	8-12	Hardgrove	3.	.5	.95	5.8	.52		.6		3			FC 20
41	8-19	Hardgrove	5.	1.7	.59	5.7	1.03		.6		5			FC 20
42	8-26	Hardgrove	3.	.5	.81	5.8	.42		.6		3			FC 20
43	9-2	Hardgrove	4.	.7	.80	5.8	.62		.6		4			FC 20
44	9-7	Hardgrove	3.	.5	.76	5.8	.42		.6		3			FC 20
45	9-16	Hardgrove	3.	.5	.73	5.8	.38		.6		3			FC 20
46	9-22	Hardgrove-Irwin	3.	.7	1.06	5.8	.83		.6		3		1/6	FC 20

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 150

Discharge measurements of Benedict Canyon Creek

near Oakhurst St., Palms, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-14	A.A.Allen	9.8	5.47	3.66	3.78	19.97		.6		10		1/3	FC 1
2	12-14	Allen & Hillman	10.0	7.55	4.37	4.00	33.05		.6		10		1/3	FC 1
3	12-21	Allen & Hillman	10.0	9.50	4.86	4.25	46.20		.6		10		1/3	FC 1
4	12-21	Allen & Hillman	10.0	6.69	3.83	3.95	25.60		.6		10		1/3	FC 1
5	12-25	A.A.Allen	10.0	11.45	5.42	4.58	62.13		.6		10		1/3	FC 1
6	12-28	Allen & Conway	11.0	24.35	7.58	.60	184.24		.6		6		1/3	FC 1
7	1-30 1932	A.A.Allen	10.0	7.16	4.74		33.93		.6		10		2/3	FC 1
8	2-8	Allen & Hillman	10.0	18.3	3.86	4.13	34.98		.6		5		½	FC 1
9	2-8	Allen & Hillman	10.5	28.42	7.10	5.70	201.92		.6		6		1/3	FC 1
10	2-8	Allen & Hillman	11.5	38.1	8.87	6.85	330.77		.6		6		1/3	FC 1
11	2-8	Allen & Hillman	7.5	5.08	4.0	3.00	20.37		.6		8		½	FC 1
12	2-9	Allen & Hillman	10.0	5.66	3.93	3.56	22.34		.6		5		1/6	FC 1
13	2-9	Allen & Hillman	5.0	1.9	3.8	2.50	5.34		.6		5		1/6	FC 1

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 166

Discharge measurements of Ballona Creek

at Jacob St., Culver City, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	Rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-21	Rupert-W.-Goodrich	33.	80.82	2.05	3.32	42.91		.6		17		5/12	271 647
2	12-28	Goodrich-Hedge	43.0	170.8	3.88	7.10	662.5		.6		8		½	3 Hoff
3	12-28	Goodrich-Hedge	56.0	495.0	8.57	13.87	4236.		.6		7		5/12	3 Hoff
4	12-28	Goodrich-Hedge	44.	319.2	4.28	8.20	984.0		.6		9		½	3 Hoff
5	12-28	Goodrich-Hedge	55.	496.1	7.48	13.34	3709.		.6		11		½	3 Hoff
6	1-23 1932	Hardgrove	12.	3.88	1.52	3.4	5.80		.6		6		1/6	FC 20
7	1-29	Hardgrove	9.	2.08	1.26	3.3	2.63		.6		5		1/6	FC 20
8	2-5	Hardgrove	7.	2.47	1.56	3.3	3.92		.6		7		1/6	FC 20
9	2-8	Hedge-Fisk	51.	352.5	6.63	10.93	2337.		.6		10		5/12	3 Hoff
10	2-8	Hedge	50.	316.1	7.17	10.87	2265.8		.6		8		1/3	3 Hoff
11	2-8	Hedge	50.	298.8	6.04	10.06	1805.1		.6		7		1/6	3 Hoff
12	2-8	Fisk	41.	165.6	7.13	6.98	1179.		.6		9		1/3	3 Hoff
13	2-8	Fisk-Killars-Hedge	44.	172.8	7.93	7.7	1371.		.6		9		1/6	3 Hoff
14	2-8	Killars-Fisk-Hedge	44.	174.3	7.15	7.6	1246.		.6		9		½	3 Hoff
15	2-8	Fisk-Killars-Hedge	44.	160.9	6.56	7.37	1056.		.6		9		½	3 Hoff
16	2-8	Fisk-Killars-Hedge	41.	123.3	5.90	6.52	727.3		.6		9		½	3 Hoff
17	2-9	Goodrich-Fisk	35.	54.2	3.74	4.65	20.33		.6		7		1/6	3 Hoff
18	2-9	Goodrich-Fisk	37.	77.7	.67	5.35	51.95		.6		8		½	3 Hoff
19	2-11	Hardgrove	27.	8.69	1.58		13.82		.6		10		1/6	FC 20
20	2-19	Hardgrove-Burrit.	13.5	5.87	1.90	3.30	11.1		.6		7		1/6	FC 20
21	2-26	Hardgrove	12.	5.24	1.57	3.3	8.33		.6		6		½	FC 20
22	3-4	Hardgrove	8.	4.0	2.01	3.0	8.03		.6		8		1/6	FC 20
23	3-11	Hardgrove	8.	1.94	1.60	2.9	3.25		.6		8			FC 20
24	3-18	Hardgrove	5.0	1.66	1.40	2.8	2.32		.6		5			FC 20
25	3-23	Hardgrove	6.	2.11	1.08	2.95	2.29		.6		6		1/6	FC 20
26	4-1	Hardgrove	5.	1.72	1.53		2.64		.6		5		1/6	FC 20
27	4-8	Hardgrove	6.	2.35	1.54	2.8	3.63		.6		6			FC 20
28	4-15	Hardgrove	5.	2.75	1.98	2.9	5.48		.6		5			20 FC
29	4-22	Hardgrove	7.0	2.16	1.33	2.8	2.87		.6		7		1/6	FC 20
30	4-29	Hardgrove	5.	2.37	1.72	3.05	4.08		.6		5		½	FC 20
31	5-6	Hardgrove	6.	1.84	1.40	2.95	3.57		.6		6		1/5	FC 20
32	5-14	Hardgrove	5.	1.33	1.41	2.88	1.88		.6		5		1/5	FC 20
33	5-28	Hardgrove	5.4	1.36	1.27	2.88	1.72		.6		5		1/6	FC 20
34	5-21	Hardgrove	6.	1.43	1.37	2.80	1.95		.6		6		1/6	FC 20
35	6-4	Hardgrove	10.	2.72	1.50	2.95	4.08		.6		5		½	FC 20
36	6-11	Hardgrove	5.	1.70	.97	2.90	1.64		.6		5		1/6	FC 20
37	6-18	Hardgrove	6.	1.79	1.05	2.88	1.84		.6		6		1/6	FC 20
38	6-25	Hardgrove	6.	1.94	1.06	2.88	2.09		.6		6			FC 20
39	7-2	Hardgrove	10.	2.12	0.79	2.88	1.68		.6		5			FC 20
40	7-9	Hardgrove	10.	2.76	.99	2.90	2.72		.6		5			FC 20
41	7-9	Hardgrove	10.	2.62	.80	2.87	2.09		.6		6			FC 20
42	7-16	Hardgrove	8.	1.50	.93	2.88	1.39		.6		4			FC 20
43	7-23	Hardgrove	10.	2.24	.80	2.88	1.80		.6		5			FC 20
44	7-29	Hardgrove	8.	1.84	1.03	2.88	1.89		.6		4			FC 20
45	8-6	Hardgrove	8.	1.60	1.07	2.88	1.71		.6		4			FC 20
46	8-12	Hardgrove	8.	1.60	1.01	2.88	1.62		.6		4			FC 20
47	8-19	Hardgrove	10.	2.30	.81	2.88	1.79		.6		5			FC 20
48	8-26	Hardgrove	8.	1.62	.78	2.88	1.27		.6		4			FC 20
49	9-2	Hardgrove	8.	1.76	.64	2.88	1.13		.6		4			FC 20
50	9-7	Hardgrove	8.	1.76	.64	2.89	1.12		.6		4			FC 20
51	9-16	Hardgrove	8.	1.76	.63	2.89	1.11		.6		4			FC 20
52	9-23	Hardgrove	7.5	1.95	1.08	2.90	1.11		.6		4		1/12	FC 20

F. C. Dist. Form 184 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 87

Discharge measurements of Santa Ditch

at Head of Pipe Line, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271
1	10-2	Brewster	4.5	4.93	1.07	.58	5.28		.6		5		1/6	666
2	10-9	"	4.5	5.15	1.20	.61	6.20		.6		5		1/5	"
3	10-16	"	4.5	5.05	1.29	.61	6.49		.6		5		1/6	"
4	10-23	"	4.5	5.26	1.32	.64	6.94		.6		5		"	"
5	10-30	"	4.5	4.90	1.11	.54	5.42		.6		5		"	"
6	11-6	"	4.5	4.84	1.01	.51	4.88		.6		5		"	"
7	11-13	"	4.5	5.09	1.28	.60	6.53		.6		5		"	"
8	11-20	"	4.5	4.72	1.20	.54	5.66		.6		5		"	"
9	11-27	"	4.5	4.61	1.24	.54	5.71		.6		5		"	"
10	12-4	"	4.5	4.47	1.25	.58	5.50		.6		5		"	"
11	12-11	"	4.5	.63	1.14	.18	.72		.6		5		"	"
	1932													
12	4-8	"	4.5	4.09	2.20	.90	9.01		.6		5		"	"
13	4-15	"	4.5	4.53	2.43	.98	11.01		.6		5		1/10	"
14	4-22	"	4.5	3.38	2.61	.75	8.81		.6		5		1/6	"
15	4-29	"	4.5	3.48	2.55	.78	8.87		.6		5		"	"
16	5-6	"	4.5	3.31	2.69	.78	8.90		.6		5		"	"
17	5-13	"	4.5	3.01	2.85	.68	8.57		.6		5		1/4	"
18	5-20	"	4.5	4.82	1.51	.62	7.26		.6		5		1/6	"
19	5-27	"	4.5	4.50	1.70	.60	7.65		.6		5		"	"
20	6-3	"	4.5	5.09	1.52	.62	7.72		.6		5		"	"
21	6-10	"	4.5	7.16	.99	1.60	7.08		.6		5		"	"
22	6-17	"	4.5	6.00	1.33	.60	8.00		.6		5		"	"
23	6-24	"	4.5	3.75	1.42	.80	5.31		.6		5		"	"
24	7-1	"	4.5	3.82	1.48	.85	5.66		.6		5		"	"
25	7-8	"	4.5	3.56	1.49	.78	5.32		.6		5		"	"
26	7-15	"	4.5	4.96	1.19	.51	5.90		.6		5		"	"
27	7-22	"	4.5	5.45	1.61	.64	8.78		.6		5		"	"
28	7-29	"	4.5	5.19	1.23	.62	6.40		.6		5		"	"

F. C. Dist. Form 184 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 87

Discharge measurements of Santa Ditch

at Head of Pipe Line, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	271
29	8-5	Brewster	4.5	4.55	1.18	.50	5.39		.6		5		1/6	666
30	8-12	"	4.5	4.59	1.16	.58	5.33		.6		5		"	"
31	8-18	"	4.5	4.46	1.7	1.00	7.44		.6		5		"	"
32	8-25	"	4.5	4.30	1.48	.95	6.38		.6		5		"	"
33	9-1	"	4.5	5.14	1.55	.62	7.99		.6		5		"	"
34	9-7	"	4.5	5.63	1.43	1.26	8.07		.6		5		"	"
35	9-15	"	4.5	4.81	.47	1.04	2.26		.6		5		"	"
36	9-15	"	4.5	4.81	.47	1.04	2.26		.6		5		"	"
37	9-22	"	4.5	4.46	1.56	.98	6.97		.6		5		"	"
38	9-29	"	4.5	5.88	1.48	.70	8.71		.6		5		1/10	"

F. C. Dist. Form 184 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 128

Discharge measurements of Big Rock Creek

at Diversion Weir 300' below Monte's, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-3	Luce	.92				.40		Orifice					
2	10-3	"	2.20	.53	.87		.46		.6		4		1/12	FC 13
3	10-8	"	3.75				1.76		Weir					
4	10-8	"	.92				.44		Orifice					
5	10-8	Waddicor	2.0	.54	.67		.36		.6		4		"	FC 13
6	10-8	Luce	3.75				1.84		Weir					
7	10-13	"	3.75				1.65		"					
8	10-13	"	.92				.37		Orifice					
9	10-13	"	2.00	.75	1.14		.86		.6		4		"	FC 25
10	10-24	"	2.00	.86	.96		.83		.6		4		"	"
11	11-1	"	1.67				.57		Weir					
12	11-1	"	3.75				1.28		"					
13	11-7	Waddicor	1.67				.76		"					
14	11-7	"	1.50				.74		"					
15	11-7	"	3.75				1.76		"					
16	11-22	Luce-Waddicor	1.50				.45		"					
17	12-13	Luce	11.0	3.71	1.39		5.17		.6		7		1/4	FC 13
	1932													
18	1-9	"					.55		Weir					
19	1-16	"					.52		"					
20	1-23	Luce-Turner					.51		"					
21	3-26	Luce	2.80	1.52	1.60		2.43		.6		5		1/12	FC 13
22	8-8	"	3.75				1.95		Weir					
23	8-8	"	.92				.44		Orifice					
24	9-3	Luce-Bollinger	10.4	3.92	1.10		4.33		.6		6		1/6	FC 13
25	9-7	Luce	3.8				1.56		Weir					
26	9-7	"	.9				.35		Orifice					
27	9-26	"	.9				.44		"					
28	9-26	"	3.8				1.95		Weir					

F. C. Dist. Form 184 III 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 143

Discharge measurements of Big Rock Creek (Rising Water)

at 300' above Pallette, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-3	Luce	9.4	3.97	.65		2.60		.6		7		1/6	FC 13
2	10-8	Waddicor	9.6	4.05	.64		2.58		.6		9		1/6	FC 13
3	10-13	Luce	9.5	3.92	.60		2.35		.6		8		1/6	FC 25
4	10-18	Luce	9.5	3.97	.70		2.75		.6		7		1/6	FC 25
5	10-24	Luce	9.3	4.08	.70		2.85		.6		7		1/6	FC 25
6	11-1	Luce	9.8	3.88	.62		2.41		.6		9		1/6	FC 25
7	11-7	Waddicor	7.8	1.97	1.15		2.27		.6		6		1/6	FC 13
8	11-22	Luce	9.8	3.32	.78		2.53		.6		8		1/6	FC 13
9	11-28	Luce	9.5	3.32	.82		2.63		.6		8		1/6	FC 13
10	12-5	Luce	9.2	3.44	.77		2.64		.6		8		1/6	FC 13
11	12-9	Luce & Lovelace	10.0	4.78	1.37		6.16		.6		8		1/6	FC 13
12	12-13	Luce	9.7	3.58	.79		2.88		.6		8		1/6	FC 13
13	12-16	Luce	12.7	6.10	1.43		8.75		.6		8		1/6	FC 13
	1932													
14	1-16	Luce	12.7	6.10	1.43		8.75		.6		8		1/6	FC 13
15	1-30	Luce	12.10	5.85	1.13		6.81		.6		10		1/6	FC 13
16	3-26	Luce	21.2	18.34	2.30		42.17		.6		15		1/6	FC 13
19	8-6	Luce	13.5	9.60	.74		7.12		.6		10		1/6	FC 13
20	8-20	Luce	13.0	8.85	.78		6.94		.6		10		1/6	FC 13
21	8-27	Luce	12.5	8.64	.70		6.05		.6		9		1/8	FC 13
22	9-3	Luce & Bollinger	12.5	7.94	.60		4.74		.6		8		1/12	FC 13
23	9-14	Bollinger	11.0	7.22	.67		4.84		.6		10		1/6	FC 10

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 168

Discharge measurements of Big Tujunga Creek

at near Outflow of Dam #1, **during the year ending September 30, 1932**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-8	Irwin-Browne	2.0	.30	.45	.78	.135		.6		4		1/6	FC 24
2	12-9	Irwin-Browne	2.0	.45	1.45	.78	.166		.6		4		1/3	FC 24
3	12-11	Browne-Ash	2.0	.44	.52	.078	.233		.6		4		½	FC 24
4	12-16	Browne-Moon	2.0	.35	.39	2.56	.10		.6		4		½	FC 24
5	12-18	Browne-Ash	2.0	.35	.46	2.55	.16		.6		4		½	FC 24
6	12-22	Browne, Jr.	2.0	.35	.43	2.57	.15		.6		4		½	FC 24
7	12-23	Browne	2.0	.40	.32	2.55	.13		.6		4		½	FC 24
8	12-28	Irwin	3.0	1.10	.62	2.60	.68		.6		6		5/12	FC 24
9	12-28	Irwin-O.S.McK.	17.0	7.44	1.00	2.87	7.46		.6		9		1/6	FC 24
10	12-29	Irwin-O.S.McK.	4.5	1.35	.51	2.60	.69		.6		5		1/6	FC 24
11	1-3	Moon-Ash	8.0	1.32	.47	2.52	.58		.6		6		½	FC 24
12	1-6	Browne	4.0	1.48	.62	2.52	.67		.6		4		½	FC 24
13	1-8	Browne	4.0	.68	.65	2.51	.44		.6		5		½	FC 24
14	1-11	Browne	4.0	.76	.46	2.51	.35		.6		4		1/6	FC 24
15	1-12	Browne	4.0	.76	.47	2.51	.36		.6		4		½	FC 24
16	1-13	Browne	4.0	.80	.59	2.51	.47		.6		4		½	FC 24
17	1-14	Browne	4.0	.76	.53	2.51	.40		.6		4		½	FC 24
18	1-15	Browne	4.0	.76	.53	2.51	.40		.6		4		1/3	FC 24
19	1-16	Browne	4.0	.68	.61	2.51	.40		.6		4		½	FC 24
20	1-16	Irwin-Browne-Moon	30.	15.	2.30	3.33	34.16		.6		10		½	FC 24
21	1-16	Irwin-Browne-Moon	22.	10.6	1.20	2.92	12.73		.6		10		1/3	FC 24
22	1-16	Irwin-Browne-Moon	14.	5.48	2.27	2.92	12.41		.6		12		1/3	FC 24
23	1-17	Moon-Ash	5.5	1.23	.81	7.66	.99		.6		5		½	FC 24
24	1-17	Moon-Ash	8.	2.20	.73	2.65	3.02		.6		7		½	FC 24
25	1-18	Browne	5.	1.01	.74		.75		.6		5		1/6	FC 24
26	1-18	Browne, Jr.	8.	1.72	.93	2.60	1.60		.6		7		1/6	FC 24
27	1-19	Browne	7.	1.76	1.06	2.61	1.86		.6		7		¼	FC 24
28	1-20	Browne	19.	5.44	.98	2.76	5.35		.6		19		½	FC 24

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 168

Discharge measurements of Big Tujunga Creek

at near Outflow of Dam #1, **during the year ending September 30, 1932**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	1-13	Browne-Irwin	18.2	7.12	1.50	2.88	10.75		.6		10		½	FC 24
30	1-21	Browne-Irwin	11.	6.64	3.25		21.66		.6		11		¼	FC 24
31	1-21	Browne-Irwin	22.	12.40	1.95	3.10	24.24		.6		13		1/6	FC 24
32	1-22	Browne, Jr.	22.	11.30	1.89	3.10	21.33		.6		11		1/3	FC 24
33	1-23	Browne, Jr.	11.	6.90	1.70	2.9	11.75		.6		11		½	FC 24
34	1-25	Browne	7.	1.85	.60		1.21		.6		7		½	FC 24
35	1-27	Browne-Ash	18.	5.50	1.03	2.77	5.61		.6		9		½	FC 24
36	1-28	Browne, Jr.	16.	4.54	1.02	2.8	4.73		.6		8		¼	FC 24
37	1-29	Browne, Jr.	17.	4.80	1.15	2.8	5.64		.6		9		1/5	FC 24
38	1-30	Browne, Jr.	17.	4.80	1.68	2.8	5.60		.6		9		½	FC 24
39	2-1	Browne, Jr.	10.	4.97	1.56	2.85	7.66		.6		10		1/6	FC 24
40	2-1	Browne, Jr.	11.	4.71	1.38	2.8	6.55		.6		11		½	FC 24
41	2-2	Browne, Jr.	20.	7.52	1.78	3.0	13.30		.6		10		1/6	FC 24
42	2-3	Browne, Jr.	20.	12.12	1.90	3.1	23.10		.6		10		1/6	FC 24
43	2-4	Browne-Moon	22.	14.05	2.00	3.25	28.41		.6		8		¼	FC 24
44	2-5	Irwin	23.	15.95	2.07	3.38	31.80		.6		8		¼	FC 24
45	2-6	Browne, Jr.	23.	18.94	2.09	3.35	39.80		.6		11		½	FC 24
46	2-8	Browne, Jr.	30.	3.62	3.68		130.49		.6		8		1/3	FC 24
47	2-9	Browne-Walker	75.	108.3	6.42	4.6	694.73		.6		10		½	FC 24
48	2-10	Browne-Walker	55.	110.5	4.49	4.6	495.73		.6		10		½	FC 24
49	2-11	Browne-Moon	80.	82.7	4.63	4.7	383.14		.6		11		½	FC 24
50	2-13	Moon	7.0	3.0	.60		1.80		.6		6		¼	FC 24
51	2-14	Browne-Moon	80.	114.1	4.21	4.7	489.98		.6		13		3/4	FC 24
52	2-15	Browne, Jr.-Moon	80.	101.7	4.29	4.7	436.43		.6		14		1/3	FC 24
53	2-16	Browne-Moon	80.	117.7	4.61	4.8	542.49		.6		15		½	FC 24
54	2-17	Browne-Moon	80	104.7	4.65	4.7	487.44		.6		30		½	FC 24
55	2-20	Moon	15.	8.9	1.15		10.27		.6		7		½	FC 24
56	2-22	Browne, Jr.-Moon	35.	43.4	1.80	3.7	78.51		.6		7		½	FC 24

F. C. Dist. Form 104 HE 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 168

Discharge measurements of Big Tujunga Creek

at near Outflow of Dam #1, **during the year ending September 30, 1932**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
57	2-23	Browne, Jr.	12.	5.82	.92		5.36		.6		6		½	FC 24
58	2-23	Browne, Jr.	14.	8.40	1.53		11.87		.6		7		½	FC 24
59	2-29	Browne	4.	1.06	.40		.42		.6		4		½	FC 24
60	3-1	Browne, Jr.	5.0	1.24	.96		1.20		.6		5		½	FC 24
61	3-2	Browne, Jr.	4.0	.90	.94		.85		.6		4		½	FC 24
62	3-4	Browne, Jr.	4.0	1.06	.90		.95		.6		4		1/6	FC 24
63	3-11	Browne, Jr.	4.0	.80	.78		.62		.6		4		½	FC 24
64	3-18	Moon	7.0	2.70	1.23		3.33		.6		6		½	FC 24
65	3-21	Irwin	14.	3.80	3.28		3.04		.6		7		½	FC 24
66	3-23	Irwin	13.	6.75	.68	3.28	4.86		.6		6		1/3	FC 24
67	3-26	Moon	7.	3.64	1.10	3.21	2.89		.6		6		1/6	FC 24
68	4-2	Moon	6.5	2.66	1.25	3.22	3.36		.6		7		¼	FC 24
69	4-4	Browne-Irwin	19.0	9.83	.49	3.29	4.87		.6		15		½	FC 24
70	4-5	Browne	30.0	11.60	.59	3.31	6.87		.6		15		½	FC 24
71	4-6	Browne	30.0	11.56	.59	3.31	6.88		.6		15		½	FC 24
72	4-7	Browne	30.0	11.92	.65	3.34	7.73		.6		6		½	FC 24
73	4-9	Browne	30.0	15.38	.99	3.43	15.13		.6		17		½	FC 24
74	4-11	Browne	30.0	14.65	.93	3.43	13.58		.6		21		½	FC 24
75	4-13	Browne	30.0	14.91	.97	3.43	14.49		.6		20		½	FC 24
76	4-14	Browne	30.0	14.45	.91	3.43	13.27		.6		20		½	FC 24
77	4-15	Moon-Browne	16.0	13.88	.98	3.43	13.67		.6		16		½	FC 24
78	4-16	Browne	30.0	14.77	1.21	3.43	17.93		.6		20		½	FC 24
79	4-18	Browne	22.0	15.86	.92	3.43	14.61		.6		22		½	FC 24
80	4-20	Browne	21.0	15.26	.99	3.43	15.17		.6		21		½	FC 24
81	4-21	Browne	23.0	15.44	.83	3.43	12.76		.6		8		½	FC 24
82	5-3	Irwin				3.42	15.62		Weir					
83	5-4	Irwin				3.41	13.63		Weir					
84	5-6	Irwin				3.42	13.78		Weir					

F. C. Dist. Form 104 HE 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 168

Discharge measurements of Big Tujunga Creek

at near Outflow of Dam #1, **during the year ending September 30, 1932**

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
85	5-7	Irwin				3.42	13.78		Weir					
86	5-10	Browne-Turner	18.0	5.27	.98	3.45	14.95		.6		11		1/3	30
87	5-13	Irwin				3.42	13.63		Weir					
88	5-16	Irwin				1.99	.047		Weir					
89	5-19	Irwin				3.42	14.23		Weir					
90	5-21	Irwin				3.43	13.48		Weir					
91	5-27	Irwin				3.42	13.48		Weir					
92	5-27	Irwin				3.43	13.48		Weir					
93	6-4	Irwin				3.40	13.93		Weir					
94	6-7	Irwin				3.41	13.78		Weir					
95	6-11	Irwin				3.41	13.78		Weir					
96	6-18	Irwin				3.43	14.38		Weir					
97	6-21	Irwin				3.38	10.61		Weir					
98	7-2	Irwin				3.47	16.74		Weir					
99	7-9	Irwin				3.44	17.06		Weir					
100	7-15	Irwin				3.46	17.22		Weir					
101	7-16	Irwin				3.43	17.06		Weir					
102	7-18	Irwin				3.42	16.90		Weir					
103	7-23	Irwin				3.46	17.38		Weir					
104	7-30	Irwin				3.47	17.55		Weir					
105	8-5	Irwin				3.21	7.39		Weir					
106	8-6	Irwin				3.21	7.39		Weir					

F. C. Dist. Form 184 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 177

Discharge measurements of Big Tujunga Creek

Below Damsite No. 2, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-24	Browne	7.	1.24	.38	2.94	.48	.6			5		1/3	
2	12-28	Irwin	24.	16.78	.68	3.41	11.72	.6			9		1/3	
3	12-28	Irwin-O.S.McK.	30.	31.00	1.90	3.9	59.16	.6			13		1/2	
4	1932 1-6	Browne	15.	3.82	.38	2.99	1.44	.6			13		1/3	
5	1-8	Browne	7.	1.38	.78	2.99	1.12	.6			7		1/3	
6	1-11	Browne	8.	1.61	.59	2.96	.95	.6			7		1/3	
7	1-12	Browne	7.	1.57	.68	2.98	1.06	.6			7		1/3	
8	1-13	Browne	7.	2.06	.65	2.98	1.33	.6			7		1/3	
9	1-14	Browne, Jr.	8.	1.66	.63	2.97	1.02	.6			8		1/2	
10	1-15	Browne	8.	1.66	.64	2.97	1.06	.6			8		1/3	
11	1-16	Browne	8.	1.82	.62	2.95	1.13	.6			8		1/3	
12	1-18	Browne, Jr.	8.	2.42	1.16	3.08	2.81	.6			8		1/2	
13	1-19	Browne, Jr.	8.	2.59	1.04	2.77	2.69	.6			8		1/2	
14	1-20	Browne, Jr.	10.	4.07	1.41	3.20	5.72	.6			10		1/2	
15	1-22	Browne, Jr.	18.	12.02	2.13	3.5	25.67	.6			8		1/2	
16	1-23	Browne	16.	8.94	1.28	3.3	11.39	.6			8		1/2	
17	1-25	Browne	14.	3.76	.35	3.07	1.31	.6			14		1/3	
18	1-27	Browne, Jr.	15.	6.05	1.10	3.24	6.66	.6			7		1/5	
19	1-28	Browne, Jr.	16.	6.56	.98	4.26	8.41	.6			8		1/4	
20	1-29	Browne, Jr.	16.	6.46	1.03	3.25	6.66	.6			8		1/4	
21	1-30	Browne, Jr.	16.	6.46	1.03	3.25	6.66	.6			8		1/5	
22	2-1	Browne, Jr.	17.	10.99	1.61	3.6	17.67	.6			9		1/4	
23	2-1	Browne, Jr.	30.	24.00	2.23	3.9	53.58	.6			14		1/4	
24	2-2	Browne, Jr.	16.	13.94	2.59	3.8	35.65	.6			8		1/6	
25	2-3	Browne, Jr.	16.	13.50	2.33	3.8	31.76	.6			8		1/3	
26	2-4	Browne, Jr.	25.	14.98	2.31	3.9	35.37	.6			8		1/4	
27	2-5	Browne, Jr.	28.	19.68	2.20	4.3	43.20	.6			7		1/3	
28	2-6	Browne, Jr.	27.	19.41	2.40	4.07	46.6	.6			9		1/4	
29	2-20	Moon	22.	37.6	.48	3.35	18.22	.6			8		1/4	
30	2-23	Browne, Jr.	22.	37.0	.46	3.33	17.00	.6			7		1/2	
31	2-29	Browne, Jr.	14.	4.64	.56	3.1	2.70	.6			7		1/4	
32	3-1	Browne, Jr.	6.	3.28	.88	3.1	2.89	.6			8		1/4	
33	3-2	Browne, Jr.	13.	6.23	.69	3.1	4.32	.6			6		1/4	
34	3-4	Browne, Jr.	15.	5.85	.50		2.87	.6			5		1/6	
35	3-11	Browne, Jr.	16.	7.34	.44	2.9	3.23	.6			8		1/4	
36	3-21	Irwin	20.	14.7	.36	3.08	5.23	.6			10		1/4	
37	4-22	Irwin	23.	26.95	.52	3.34	14.05	.6			8		1/6	
38	5-4	Irwin	24.	30.85	.53	3.42	16.30	.6			9		1/2	
39	5-6	Irwin	24.	28.65	.52	3.44	14.85	.6			8		1/3	
40	5-14	Irwin	24.	25.44	.58	3.46	14.87	.6			8		1/4	
41	5-21	Irwin	24.	27.	.46	3.48	12.52	.6			8		1/4	
42	5-27	Irwin	24.	24.88	.50	3.48	12.46	.6			6		1/4	

F. C. Dist. Form 184 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 167

Discharge measurements of Bull Creek

San Fernando Mission Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	2-28	Luce & Lindsey	4.5	0.93	0.66		0.61	.6			8		1/12	
2	4-22	Luce	1.8	.48	1.0		.48	.6			4		1/12	
3	4-30	Luce	2.6	.43	.09		.41	.6			5		1/12	
4	5-6	Waddicor	2.5	.50	.74		.37	.6			3		1/12	
5	5-6	Luce	1.8	.37	.95		.35	.6			4		1/12	
6	5-12	Luce	1.6	.32	.78		.25	.6			3		1/12	
7	5-26	Luce	1.5	.31	.09		.28	.6			3		1/12	
8	6-3	Luce					.23	Weir						
9	6-9	Luce					.20	Weir						
10	6-16	Luce					.22	Weir						
11	6-24	Luce					.18	Weir						
12	6-30	Luce	1.5	.16	1.0		.16	.6			3		1/12	
13	7-22	Luce	1.9	.29	.82		.24	.6			4		1/12	

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.84

Discharge measurements of Cate Ditch

Below Headgate, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	, 271
1	10/2	Brewster	4.0	1.19	0.60		0.71	.6			4	0	1/10	666
2	9-2	"	8.0	.71	0.41	0.24	0.29	.6			3	0	"	"
4	23	"	4.0	1.44	0.30	0.44	0.43	.6			3	0	"	"
5	30	"	2.0	0.67	0.33	0.37	0.22	.6			2	0	1/15	"
6	11/6	"	2.0	0.74	0.30	0.38	0.22	.6			2	0	1/3	"
7	13	"	4.0	1.58	0.44		0.69	.6			4	0	1/6	"
8	20	"	4.0	1.76	0.51	0.47	0.89	.6			4	0	1/6	"
9	27	"	4.0	2.98	0.89	0.86	2.65	.6			4	0	1/6	"
10	12/4	"	4.6	1.62	0.54	0.49	0.88	.6			4	0	1/10	"
11	11	"	Gates Closed											
12	18	"	Gates Closed											
13	24	"	Gates Closed											
	1932													
14	1/8	"	Gates Closed											
15	15	"	"											
16	22	"	"											
17	29	"	"											
18	2/5	"	"											
19	2/12	"	"											
20	19	"	"											
21	26	"	"											
22	3/4	"	"											
23	11	"	4.0	.21	0.42	1.15	0.93	.6			4	0	1/6	"
24	18	"	5.0	7.80	0.39	1.98	3.08	.6			5	0	1/10	"
25	24	"	5.0	1.13	0.69	1.22	0.78	.6			5	0	1/6	"
26	25	"	Gates Closed											
27	4/1	"	5.0	9.40	0.22	2.34	2.10	.6			5	0	1/6	"
28	4/8	Brewster	6.0	5.51	.80	1.38	4.40	.6			6	0	1/6	666
29	15	"	6.0	6.26	.77	1.45	4.82	.6			6	0	"	"
30	22	"	6.0	5.46	.33	0.96	1.15	.6			6	0	"	"
31	29	"	5.0	3.28	.49	0.98	1.61	.6			5	0	"	"
32	5/6	"	6.0	3.79	.41	1.07	1.54	.6			6	0	"	"
33	13	"	5.0	3.05	.40	0.98	1.21	.6			5	0	"	"
34	20	"	5.0	1.67	.81	1.00	1.36	.6			5	0	"	"
35	27	"	5.0	1.41	.84	1.08	1.18	.6			5	0	"	"
36	6/3	"	7.0	3.80	1.29	1.46	4.90	.6			7	0	"	"
37	10	"	5.0	1.42	.77	1.05	1.10	.6			5	0	"	"
38	17	"	6.0	1.53	.71	1.20	1.09	.6			6	0	"	"
39	7/1	"	7.0	4.46	.86	2.01	3.85	.6			7	0	"	"
40	8	"	7.0	4.69	.75	1.98	3.54	.6			7	0	"	"
41	15	"	7.0	3.37	1.07	1.62	3.60	.6			7	0	"	"
42	7-22	"	5.0	1.28	0.68	1.40	0.87	.6			5	0	"	"
43	7-29	"	4.0	.98	.79	1.44	0.77	.6			4	0	"	"
44	8-5	"	6.0	4.42	.80	1.94	3.52	.6			6	0	"	"
45	8-12	"	4.0	.93	.60	1.41	.56	.6			4	0	1/12	"
46	8-18	"	7.0	4.98	.73	1.96	3.64	.6			7	0	1/6	"
47	8-25	"	4.0	.88	.70	1.43	.62	.6			4	0	"	"
48	9-1	"	7.0	5.05	.73	1.95	3.68	.6			7	0	"	"
49	9-7	"	4.0	1.32	.58	1.43	.77	.6			4	0	"	"
50	9-15	"	4.0	1.38	.58	1.44	.80	.6			4	0	"	"
51	9-22	"	4.0	1.21	.68	1.45	.82	.6			4	0	"	"
52	9-29	"	7.0	4.34	.88	1.96	3.73	.6			6	0	"	"

F. C. Dist. Form 184 IH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 173

Discharge measurements of Clear Creek

at near Mouth, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-28	Irwin	10.0	4.89	1.62	.98	7.92		.6		8		1/12	FC 24
2	12-29	Irwin-O.S.McK.	6.0	3.09	1.86	.90	3.89		.6		6		1/6	FC 24
3	1-6	Browne	4.	.56	.86	0.36	.48		.6		4		¼	FC 24
4	1-8	Browne	4.	.63	.76	.32	.50		.6		4		1/6	FC 24
5	1-11	Browne	4.	.62	.63	.30	.39		.6		4		1/3	FC 24
6	1-12	Browne	4.	.86	.73	.32	.48		.6		4		¼	FC 24
7	1-13	Browne	4.	.66	.74	.30	.49		.6		4		¼	FC 24
8	1-14	Browne, Jr.	4.	.66	.80	.30	.53		.6		4		¼	FC 24
9	1-15	Browne	4.	.66	.77	.30	.51		.6		4		1/3	FC 24
10	1-16	Browne	4.	.60	.73	.30	.44		.6		4		¼	FC 24
11	1-18	Browne	4.	.60	.75	.30	.45		.6		4		¼	FC 24
12	1-19	Browne, Jr.	4.	.60	.73	.30	.44		.6		4		¼	FC 24
13	1-20	Browne, Jr.	4.	.60	.67	.26	.40		.6		4		1/6	FC 24
14	1-22	Browne	4.	.76	.66	.27	.50		.6		4		¼	FC 24
15	1-23	Browne	4.	.76	.71	.27	.54		.6		4		¼	FC 24
16	1-25	Browne	4.	.46	.63	.25	.27		.6		4		1/6	FC 24
17	1-27	Browne, Jr.	4.	.76	.63	.27	.48		.6		4		¼	FC 24
18	1-28	Browne, Jr.	4.	.78	.63	.25	.48		.6		3		1/6	FC 24
19	1-29	Browne, Jr.	4.	.76	.63	.25	.48		.6		4		1/6	FC 24
20	1-30	Browne, Jr.	4.	.76	.63	.25	.48		.6		4		1/6	FC 24
21	2-1	Browne, Jr.	10.	2.62	2.13	.92	5.58		.6		10		¼	FC 24
22	2-1	Browne, Jr.	11.	3.87	2.06	1.1	7.99		.6		11		1/8	FC 24
23	2-3	Browne, Jr.	10.	3.26	2.29	1.0	7.46		.6		10		1/6	FC 24
24	2-3	Browne, Jr.	8.	1.86	2.03	.7	3.78		.6		8		¼	FC 24
25	2-5	Browne, Jr.	6.	1.61	1.55	.53	2.50		.6		6		1/6	FC 24
26	2-20	Moon	7.	2.65	1.55	.75	4.09		.6		7		¼	19
27	2-23	Browne, Jr.	6.	2.80	1.58	.69	4.42		.6		6		¼	FC 24
28	2-28	Browne, Jr.	6.	1.68	1.28	.6	2.15		.6		8		¼	FC 24

F. C. Dist. Form 184 IH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 173

Discharge measurements of Clear Creek

at near Mouth, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	3-1	Browne, Jr.	7.	1.86	.87	0.6	1.61		.6		7		1/6	FC 24
30	3-2	Browne, Jr.	6.	1.60	.98	.57	1.43		.6		6		1/6	FC 24
31	3-4	Browne, Jr.	7.	1.91	.93	.54	1.78		.6		7		¼	FC 24
32	3-11	Browne, Jr.	7.	2.06	.96	.48	1.98		.6		7		¼	FC 24
33	3-21	Irwin	5.	1.20	.88	.40	1.06		.6		5		1/3	FC 24
34	4-23	Irwin	3.7	1.00	.59	.32	.59		.6		4		1/8	FC 24
35	5-2	Irwin	4.	1.08	.53	.30	.58		.6		4			FC 24
36	5-4	Irwin	3.5	1.05	.56	.31	.59		.6		4		1/6	FC 24
37	5-6	Irwin	3.	.79	.53	.28	.42		.6		3			FC 24
38	5-10	Turner	4.	.76	.65	.30	.49		.6		7		1/12	30
39	5-13	Irwin	3.	.80	.48	.28	.39		.6		6		¼	FC 24
40	5-21	Irwin				.28	.433		Weir					
41	5-27	Irwin				.30	.316		Weir					
42	5-31	Irwin				.29	.202		Weir					
43	6-4	Irwin				.32	.80		Weir					
44	6-7	Irwin				.32	.80		Weir					
45	6-9	Irwin				.25	.09		Weir					
46	6-11	Irwin				3.24	.18		Weir					
47	6-18	Irwin				.20	.04		Weir					
48	6-21	Irwin				.20	.04		Weir					
49	7-2	Irwin				.13	.02		Weir					
50	7-9	Irwin				.15	.07		Weir					
51	7-16	Irwin				.15	.02		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F184

Discharge measurements of Devil's Canyon, West Fork, San Gabriel

at Above Mouth, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	5-26	Patterson, Obs.,	10.0	9.1	.36		3.3		.6		6		1/6	FC 32
2	6-3	" "	12.0	6.9	.78		5.4		.6		6		1/6	FC 32
3	6-10	" "	6.5	3.4	.82		2.8		.6		3		¼	FC 32
4	6-16	" "	6.0	3.1	.81		2.5		.6		3			FC 32
5	6-23	" "	6.0	2.2	.68		1.5		.6		5			FC 32
6	7-1	" "	5.7	1.8	.33	1.21	.59		.6		6		1/6	FC 32
7	7-7	" "	2.7	.87	.51		.44		.6		3			FC 32
8	7-15	" "	2.2	.71	.48		.34		.6		3			FC 32
9	7-22	" "	2.0	.86	.44		.39		.6		3			FC 32
10	7-29	" "	1.8	.51	.35		.18		.6		3			FC 32
11	8-24	" "	1.4	.36	.23		.06		.6		2			FC 32
12	8-31	" "	1.5	.36	.31		.08		.6		2			FC 32
13	9-6	" "	1.0	.15	.07		.01		.6		2			FC 32
14	9-14	" "	1.0	.15	.13		.02		.6		2			FC 32
15	9-29	" "	1.5	.32	.19		.06		.6		2			FC 32

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 132

Discharge measurements of Gavin Canyon Creek

at Mouth At Weldon Cn. Hwy. 1000ft. below Towsley Canyon, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	11-27	Luce-Waddicor	3.6	1.17	1.31	.06	1.53		.6		7		1/6	FC 15
2	12-8	Waddicor-Turner	10.1	2.27	1.08	.11	2.46		.6		5		"	FC 27
3	12-9	Waddicor	2.0	.21	.52	.02	.11		.6		4		1/12	"
4	12-21	Luce-Lovelace	12.5	4.20	1.65	1.30	6.93		.6		9		1/6	FC 15
5	12-28	" "	29.0	49.2	4.60	1.15	226.2		.6		4		1/3	FC 27
6	12-28	" "	22.5	18.1	4.03	.58	73.07		.6		9		1/6	"
7	12-28	Waddicor-Turner	21.0	17.7	4.12	.57	72.86		.6		6		"	"
8	1932 1-8	Luce	3.0	.62	1.25	.05	.76		.6		5		1/12	FC 15
9	1-15	Waddicor-Turner	6.0	1.39	1.09	.07	1.52		.6		6		1/6	FC 27
10	1-31	" "	17.5	14.0	4.18	1.20	58.92		.6		6		1/12	"
11	2-1	Turner-Lovelace	24.0	7.26	7.00	.42	51.44		.6		10		1/4	FC 25
12	2-5	Waddicor	9.7	3.06	2.03	.13	6.26		.6		10		1/6	FC 27
13	2-11	Luce-Turner	18.6	12.4	2.37	.25	29.34		.6		10		"	12
14	2-15	Waddicor	18.7	8.70	2.73	.23	23.72		.6		10		"	FC 27
15	4-21	Luce-Waddicor	1.8	.09	.01	.01	.08		.6		4		1/12	FC 15
16	5-6	Waddicor	2.3	.15	.47	.01	.07		.6		4		"	FC 27

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 174

Discharge measurements of Hansen Creek

at / near Mouth, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	1-20	Browne, Jr.				2.05	.02		Weir					
2	4-9	Irwin "				2.08	0.0373		Weir					
3	4-16	Irwin				2.22	.041		Weir					
4	4-19	Irwin				2.19	.027		Weir					
5	4-23	Irwin				2.17	.02		Weir					
6	4-29	Irwin				2.08	.023		Weir					
7	5-2	Irwin				2.050	.016		Weir					
8	5-4	Irwin				2.04	.023		Weir					
9	5-6	Irwin				2.03	.074		Weir					
10	5-13	Irwin				2.03	.074		Weir					
11	5-21	Irwin					.074		Weir					
12	5-27	Irwin				1.01	.027		Weir					
13	6-4	Irwin				2.16	.03		Weir					
14	6-7	Irwin				2.14	.016		Weir					
15	6-11	Irwin				2.02	.05		Weir					
16	6-18	Irwin				2.00	.02		Weir					
17	6-21	Irwin				2.00	.02		Weir					
18	7-2	Irwin				1.99	.02		Weir					
19	7-15	Irwin				1.99	.02		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 60

Discharge measurements of Las Virgenes Ck.

at / near Colyear Dam, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	2-5	Meunier	1.0	.02	1.15	2.20	.23		Float		1			
2	2-9	Meunier-Girovard	21.0	25.01	1.93	.60	48.36		Float		7		3/4	271 588
3	2-12	Meunier	1.0	.15	1.73	.10	.26		Float					
4	2-19	"	.3	.01	.27		.01		Float					
5	2-26	"	.5	.05	1.20		.06		"					
6	3-4	"	.5	.05	1.40		.07		"					
7	3-10	"	.4	.01	.70		.01		"					
8	3-18	"	.4	.01	1.00		.01		"					
9	3-25	"	1.7	.46	.61	.06	.28		"					
10	4-1	"	1.2	1.08	.62	.10	.67		"					
11	4-15	"	1.2	1.08	.85	.30	.92		"					
12	4-22	"	1.1	1.16	1.04	.10	1.21		"					
13	5-6	"	1.2	1.20	.85	.30	1.02		"					
14	5-13	"	.8	.56	.43	.07	.24		"					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 6

Discharge measurements of Los Angeles River

at / near Whitsett Ave. Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-2	Bollinger	2.4	.39	1.05	.14	.41		.6		4		1/6	FC 11
2	10-9	"	2.9	1.13	.60	.07	.68		.6		5		1/4	"
3	10-16	Bollinger-Miller	2.9	1.05	.70	.01	.73		.6		4		1/12	FC 10
4	10-23	Bollinger	2.5	.65	.91	.07	.59		.6		4		1/6	"
5	10-30	"	4.0	1.09	.66	.07	.72		.6		7		1/6	"
6	11-6	"	2.5	.73	.81	.06	.59		.6		5		1/6	"
7	11-13	"	3.0	.70	.86	.07	.61		.6		5		1/6	"
8	11-20	"	2.0	.67	1.00	.07	.67		.6		4		1/12	"
9	12-4	"	4.0	1.29	.70	.63	.90		.6		5			"
10	12-11	Bollinger-Cron	3.6	1.74	.65		1.13		.6		5			"
11	12-18	" Moore	3.6	1.29	.98		1.27		.6		4		1/6	"
12	12-23 1932	" "	3.4	1.26	.93		1.17		.6		5			"
13	1-22	" "	4.4	1.36	.99	2.60	1.35		.6		7		1/6	"
14	1-29	" "	3.9	1.35	.83	2.67	1.12		.6		7		"	"
15	2-5	" "	4.8	3.21	.81		2.60		.6		7			"
16	2-19	" "	13.5	12.66	1.84		24.35		.6		14			"
17	2-26	Rupert-Bollinger	7.0	7.89	3.02		23.80		.6		7		1/4	271 647
18	3-4	Bollinger-Moore	5.7	2.13	1.13		2.41		.6		6			FC 10
19	3-11	" "	5.2	1.90	1.30		2.47		.6		6			"
20	3-18	" "	4.0	1.57	1.40		2.20		.6		7			"
21	3-25	" "	3.3	1.92	1.61		3.10		.6		7			"
22	4-1	Bollinger	3.2	2.21	1.55		3.43		.6		7			"
23	4-8	"	3.5	1.11	1.41		1.57		.6		7			"
24	4-15	"	3.7	2.06	1.92		3.95		.6		7			"
25	4-22	"	3.5	1.47	1.26		1.84		.6		7		1/12	"
26	4-29	"	3.0	1.15	1.36		1.56		.6		6			"
27	5-6	"	3.4	1.12	1.38		1.55		.6		7		1/6	"
28	5-13	"	3.2	1.50	.95		1.43		.6		6		1/12	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 6

Discharge measurements of Los Angeles River

at / near Whitsett Ave. Bridge, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	5-20	Bollinger	3.3	1.45	.99		1.44		.6		6		1/6	FC 10
30	5-27	"	3.5	1.77	.57		1.00		.6		6		"	"
31	6-3	"	3.6	1.51	1.04		1.57		.6		7		"	"
32	6-10	"	3.2	1.57	.87		1.37		.6		6		"	"
33	6-17	"	3.5	2.03	.72		1.47		.6		7		"	"
34	6-24	"	3.6	2.05	.62		1.28		.6		6		"	"
35	7-1	"	3.5	1.60	.77		1.24		.6		7		"	"
36	7-15	"	3.0	1.89	.52		.98		.6		5		"	"
37	7-21	Inse	2.6	1.11	.54		.60		.6		5		1/12	FC 15
38	7-28	"	3.3	1.60	.98		1.57		.6		6		"	"
39	8-5	Bollinger	2.8	.72	1.12		.81		.6		5		1/6	FC 10
40	8-12	"	2.8	.72	.95		.68		.6		5		"	"
41	8-19	"	1.7	.55	1.24		.68		.6		3		1/12	"
42	8-26	"	2.5	.61	.66		.40		.6		5		1/6	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. L A 1

Discharge measurements of Los Angeles River Rising Water
California Street and
at ~~near~~ Fairview Ave., during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-2	Bollinger	9.4	9.42	.72	0.59	6.76		.6		10		1/6	FC 11
2	10-9	"	9.6	5.88	1.66	0.51	9.75		.6		11		1/6	FC 11
3	10-16	Miller & Bollinger	9.1	4.90	1.73	.51	8.34		.6		9		1/4	FC 11
4	10-23	Bollinger	9.0	4.63	1.67	.51	7.74		.6		11		1/4	FC 10
5	10-30	"	9.0	4.36	1.47	.51	6.39		.6		10		1/4	FC 10
6	11-6	"	9.2	4.92	1.71	.53	8.40		.6		10		1/6	FC 10
7	11-13	"	9.0	5.08	1.54	.61	7.81		.6		11		1/6	FC 10
8	11-20	"	9.3	4.82	1.45	.55	6.98		.6		12		1/6	FC 10
9	13-5	"	8.5	4.53	1.74	.51	7.88		.6		10		1/6	FC 10
10	12-12	Bollinger & Cron	9.0	5.74	1.70		9.81		.6		10		1/6	FC 10
11	12-18	" "Moore	8.6	10.10	.85	.54	8.60		.6		9		1/6	FC 10
	1932													FC
12	1-8	" " "	7.5	10.8	3.89		42.0		.6		8			10
13	1-15	" " "	10.7	12.55	3.51		44.0		.6		13		1/3	FC 10
14	1-22	" " "	9.8	5.15	1.94	2.04	10.0		.6		12		1/6	FC 10
15	1-29	" " "	9.6	4.99	1.86	2.0	9.1		.6		11		1/6	FC 10
16	2-5	" " "	9.8	5.73	2.17		12.52		.6		10		1/4	FC 10
17	2-19	" " "	33.3	17.4	3.55	3.15	44.4		.6		17		1/4	FC 10
18	2-26	" " "	33.7	15.3	2.18	2.34	33.3		.6		16			FC 10
19	3-4	" " "	10.4	4.64	1.93	2.11	8.98		.6		11			FC 10
20	3-11	" " "	10.3	6.16	1.96	2.35	11.49		.6		11			FC 10
21	3-18	" " "	10.5	5.62	1.82	3.16	10.23		.6		12		1/6	FC 10
22	3-25	" " "	10.1	5.97	1.45		8.68		.6		10		1/6	FC 10
23	4-1	"	9.8	6.26	1.85	1.16	10.33		.6		10		1/6	FC 10
24	4-8	"	9.5	5.40	1.82	1.19	9.85		.6		12		1/6	FC 10
25	4-15	"	9.4	5.92	1.67	1.21	9.89		.6		11		1/6	FC 10
26	4-23	" Odekirk	10.43	6.33	6.33	1.65	3.20		.6		12		1/3	FC 10
27	4-29	"	10.8	5.74	1.93		11.05		.6		11		1/6	FC 10
28	5-6	"	9.7	4.72	1.82	2.26	8.62		.6		11		1/6	FC 10

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. L A 1

Discharge measurements of Los Angeles River Rising Water
California Street and
at ~~near~~ Fairview Ave., during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	5-13	Bollinger	8.4	5.47	1.78	2.26	9.75		.6		12		1/6	FC 10
30	5-20	"	9.5	5.38	1.57	2.31	8.43		.6		11		1/12	FC 10
31	5-27	"	9.9	5.33	1.40	2.31	7.75		.6		11		1/6	FC 10
32	6-3	"	10.2	6.14	1.63	2.23	10.0		.6		11		1/6	FC 10
33	6-10	"	10.2	5.65	1.71	3.21	9.69		.6		10		1/4	FC 10
34	6-17	"	10.0	5.28	1.61	0.65	8.48		.6		11		1/6	FC 10
35	6-24	"				0.60	7.15		Flume					
36	7-1	"				0.61	7.34		Flume					
37	7-7	"				0.58	6.77		Flume					
38	7-8	"				0.58	6.77		Flume					
39	7-14	"				0.58	6.77		Flume					
40	7-15	"				0.53	5.88		Flume					
41	7-21	" - Luce				.	.49		Flume					
42	7-28	Luce					8.51		Flume					
43	8-4	Bollinger					6.59		Flume					
44	8-5	"					6.41		Flume					
45	8-6	"				0.57	6.57		Flume					
46	8-9	"				.54	6.05		Flume					
47	8-11	"				.54	6.05		Flume					
48	8-13	"				.56	6.41		Flume					
49	8-18	"				.55	6.23		Flume					
50	8-19	"				.54	6.05		Flume					
51	8-25	"				.55	6.23		Flume					
52	8-26	"				.58	6.77		Flume					
53	8-31	"				1.47	39.38		Flume					
54	9-2	"				1.50	30.34		Flume					
55	9-7	"				1.47	29.4		Flume					
56	9-8	"				1.59	33.26		Flume					
57	9-16	Bollinger				1.48	29.38		Flume					
58	9-23	"				1.30	24.2		Flume					
59	9-27	"				1.28	23.0		Flume					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 176

Discharge measurements of Maple Creek

at ~~near~~ Mouth, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	1-16	Browne				2.25	.05		Weir					
2	1-18	Browne, Jr.				2.25	.05		"					
3	1-19	Browne, Jr.				2.29	.03		"					
4	1-20	Browne					.02		"					
5	1-21	Browne-Irwin				2.29	.05		"					
6	1-22	Browne				2.29	.05		"					
7	1-23	Browne				2.29	.05		"					
8	1-25	Browne					.05		"					
9	1-27	Browne					.05		"					
10	1-28	Browne, Jr.				2.29	.05		"					
11	1-29	Browne, Jr.				2.29	.05		"					
12	2-1	Browne, Jr.				3.4			"					
13	3-21	Irwin				2.32	.074		"					
14	4-9	Irwin				2.30	.053		"					
15	4-16	Irwin				2.30	.053		"					
16	4-19	Irwin				2.31	.053		"					
17	4-22	Irwin				2.00	.10		"					
18	5-2	Irwin				2.00	.036		"					
19	5-4	Irwin				2.00	.036		"					
20	5-10	Turner	1.0	.08	.85	2.0	.03		.6		3		1/12	30
21	5-13	Irwin				1.99	.047		Weir					
22	5-21	Irwin				1.98	.0317		"					
23	5-27	Irwin				1.99	.0534		"					
24	6-4	Irwin				1.98	.037		"					
25	6-7	Irwin				1.97	.03		"					
26	6-9	Irwin				1.97	.03		"					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 158

Discharge measurements of Nicholas Canyon Creek

at ~~near~~ Roosevelt Hwy. Bridge, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-4	Meunier	1.3	.06	0.85		0.05		Float					
2	12-8	Meunier-Cron	2.0	0.14	1.36		0.19		"					
3	12-11	Meunier					0.03		Weir					
4	12-14	Meunier-Gewertz					0.05		"					
5	12-18	Meunier					0.04		"					
6	12-21	Meunier-Nesbit					0.05		"					
7	12-26	Meunier					0.05		"					
8	12-28	Meunier-Girouard	5.6	4.10	7.65	0.2	31.35		.6		7		7/12	271 588
9	12-31	Meunier	1.0	.08	2.38		0.19		Float					
10	1-8	Meunier	0.6	0.06	1.74		0.102		"					
11	1-15	Meunier-Girouard	1.0	0.08	2.0		0.16		"					
12	1-22	Meunier	0.6	0.03	1.33		0.04		"					
13	1-29	Meunier					0.05		Weir					
14	1-31	Meunier	5.0	1.30	3.89	0.2	5.05		.6		4			271 588
15	2-2	Meunier-Girouard	0.5	.025	1.6		0.04		Float		1			
16	2-4	Meunier	0.1	0.06	1.67		0.10		"					
17	2-8	Meunier-Girouard	5.0	2.50	9.74	0.15	24.35		.6		4		1/4	271 588
18	2-13	Meunier	1.0	0.15	1.6		0.24		Float		1			
19	2-16	Munier-Girouard	0.8	0.08	1.12		.09		"		1			
20	2-18	Meunier	0.9	0.09	1.44		0.13				1			
21	2-25	Meunier	1.0	0.1	1.10		0.11		"		1			
22	3-3	Meunier	1.0	0.1	1.0	.18	0.10		"		1			
23	3-11	Meunier	1.0	0.1	0.9		0.09		"					
24	3-17	Meunier	1.0	.05	0.8		0.04		"		1			
25	3-24	Meunier	1.0	.05	0.8		0.04		"		1			
26	3-31	Meunier	0.8	0.04	1.00		0.04		"		1			
27	4-7	Meunier	0.8	.04	1.25		.05		"		1			
28	4-14	Meunier	0.8	.04	1.00		.04		"		1			

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 17

Discharge measurements of Pacoima Wash

at San Fernando Rd.---San Fernando, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	11-27	Luce-Waddicor	12.2	8.27	2.24		18.46	.6			9		1/6	FC 13
2	12-14	" "	11.3	5.44	1.42		5.18	7.72	.6		8		"	"
3	12-25	Waddicor-Turner	13.0	9.56	2.26		5.46	19.68	.6		8		"	FC 27
4	1932 2-9	Luce-Conway	27.5	19.18	3.37		5.95	64.96	.6		10		1/12	
5	2-9	Waddicor-Turner	14.0	7.65	2.32			17.66	.6		10		1/6	"
6	2-15	Luce-Waddicor	13.5	12.58	3.04			38.24	.6		8		"	"
7	2-16	" Bissell	16.5	11.50	2.80		5.84	32.03	.6		10		"	FC 13
8	2-17	Waddicor-Bissell	13.0	9.63	2.81		5.82	27.13	.6		7		1/12	FC 27
9	2-18	Luce-Waddicor	18.0	12.38	2.70			33.46	.6		8		1/6	"
10	2-25	" "	16.0	11.92	2.42			28.78	.6		11		1/6	"
11	2-25	Waddicor-Turner	16.0	11.92	2.26			26.79	.6		11		"	"
12	3-2	Turner	9.5	3.98	.94			3.73	.6		8		1/4	FC 25
		Station No.18												
		Pacoima Wash at Foothill Blvd. Bridge						1932						
1	2-9	Luce-Conway	13.5	8.44	.76			6.39	.6		7		1/12	FC 13
2	2-18	Luce-Bissell	18.3	13.53	2.55			34.54	.6		10		1/6	FC 25
3	2-25	Waddicor-Turner	14.0	12.91	2.32			29.91	.6		7		"	FC 27
4	3-2	Turner	10.5	5.97	.89			5.32	.6		7		1/4	FC 25
5	3-11	Waddicor	4.0	1.34	1.09			1.47	.6		4		1/6	FC 27
6	3-12	Turner	6.0	2.02	.60			1.21	.6		5		1/12	FC 30
7	4-26	Luce	4.5	2.14	1.52			3.25	.6		5		"	FC 13

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 121

Discharge measurements of Pallette Creek

at 1 mi. Above Big Rock Creek, during the year ending September 30, 1932
(Rising Water)

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-3	Luce	2.1	.21	.86		.18	.6			4		1/12	FC 13
2	10-8	Waddicor	2.4	.45	1.20		.54	.6			5		"	"
3	10-12	Luce	2.5	.40	1.20		.48	.6			5		"	FC 25
4	11-1	"	2.1	.23	1.70		.39	.6			4		"	"
5	11-7	Waddicor	2.8	.33	2.00		.66	.6			6		1/6	FC 12
6	11-22	Luce	2.2	.36	1.52		.56	.6			5		"	"
7	11-28	"	2.2	.41	1.27		.54	.6			5		1/12	"
8	12-5	"	3.0	.44	1.52		.67	.6			5		"	"
9	12-9	Luce-Lovelace	3.0	.50	1.54		.77	.6			5		"	"
10	12-13	Luce	3.0	.42	1.69		.71	.6			6		"	"
11	12-19	"	2.5	.38	2.05		.78	.6			5		"	"
12	1932 1-2	"	1.4	.14	1.42		.02	.6			2		"	"
13	1-2	"	2.6	.56	1.30		.73	.6			5		"	"
14	1-9	"	2.7	.48	1.58		.76	.6			5		"	"
15	1-16	"					.65	Weir						
16	1-23	"	3.2	1.10	1.31		1.44	.6			5		"	"
17	1-30	"	2.5	.46	1.13		.52	.6			5		"	"
18	2-22	Luce-Turner	4.0	.72	1.57		1.13	.6			6		"	"
19	3-9	" Waddicor	2.6	.50	1.58		.79	.6			5		"	"
20	3-12	Luce	3.0	.73	1.10		.80	.6			6		"	"
21	3-26	"	2.8	.75	1.75		1.32	.6			6		"	"
22	8-6	"	4.3	1.39	1.73		2.40	.6			6		"	"
23	8-20	"	4.2	1.19	1.51		1.80	.6			5		"	"
24	9-3	Luce-Bollinger	4.2	1.14	1.46		1.66	.6			5		"	"
25	6-17	Luce	5.0	1.83	1.98		3.62	.6			6		"	"
26	8-27	Luce	4.1	.99	1.38		1.38	.6			5		"	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 15

Discharge measurements of Pacoima Wash

at Van Nuys Blvd., during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	11-27	Luce-Waddicor	20.2	9.08	2.78	16.91	25.16	.6			10		1/4	FC 13
2	12-14	" "	20.9	9.16	2.56	16.40	23.41	.6			10		1/6	"
3	12-25	" Lovelace	29.5	15.14	2.68	16.44	40.63	.6			12	.08	1/6	"
4	12-25	" "	25.0	12.37	2.70	16.39	33.39	.6			9	.07	"	"
5	12-26	" "	26.0	15.18	3.08	16.58	46.71	.6			11	.01	1/4	"
6	12-28	" "	33.0	24.51	3.46	16.73	85.07	.6			11		1/6	"
7	12-28	" "	34.0	23.43	3.44	16.70	80.41	.6			10	.03	"	"
8	12-28	" "	36.0	35.61	3.50	17.10	124.7	.6			10		1/3	"
9	1932 1-31	" "	35.0	29.48	3.33	16.77	98.12	.6			12	.06	1/4	"
10	2-8	" "	36.0	77.09	3.46	18.00	265.7	.6			11		"	"
11	2-14	Luce	10.7	3.71	2.90	15.98	10.78	.6			11		1/12	"
12	2-15	Luce-Waddicor	9.9	2.35	1.58	15.92	3.71	.6			8		1/6	FC 27
13	2-16	Waddicor-Bissill	16.5	2.48	1.18	16.20	2.91	.6			10		"	"
14	2-18	Luce-Waddicor	15.5	2.98	1.92	6.11	5.72	.6			8		"	"
15	2-25	" "	2.2	.13	.69	15.74	.09	.6			5		"	"
16	2-26	" Lindsay	3.3	1.02	1.11	15.85	1.12	.6			5		1/12	FC 13

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 122

Discharge measurements of Pallette Creek

at Big Rock Creek, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	1-9	Luce	1.6	.16	1.87	17.66	.02	.6			2		1/12	FC 13
2	1-16	"				17.65	.03	Weir						
3	1-23	Luce-Turner				17.60	.05	Weir						
4	1-30	Luce				17.66	.03	Weir						
5	2-19	"	3.5	.44	1.18		.52	.6			5		"	FC 25
6	2-22	Luce-Turner	2.0	.33	1.15		.38	.6			4		"	FC 12
7	3-9	" Waddicor	3.1	.65	1.82		1.18	.6			6		"	"
8	3-26	Luce	6.2	1.36	1.11		1.51	.6			7		"	"
9	8-6	"	4.8	1.28	1.28		1.65	.6			6		"	"
10	8-20		4.8	1.17	1.09		1.28	.6			6		"	"
11	8-27	"	4.7	1.11	.92		1.03	.6			6		"	"
12	9-3	Luce-Bollinger	4.5	1.02	.93		.95	.6			5		"	"
13	9-14	"	4.1	.80	.85		.68	.6			5		"	FC 10

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Palmer Canyon Creek

at Above Thompson Creek Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Palmer Canyon Near Thompson Creek Dam 20' above small Diversion												
	2-8	Ash	11.	11.15	2.33		26.00	.6			8		1/2	622
		Palmer Canyon 150' above Small Diversion												
	2-8	Ash	15.	9.45	2.17		20.55	.6			5		1/6	622
		Palmer Canyon 200' below Diversion above Reservoir												
	2-8	Ash	9.5	6.46	2.32		14.95	.6			4		1/6	622
		Palmer Canyon 50' above Small Diversion above Reservoir												
	2-9	Ash	7.6	8.77	2.99		26.26	.6			6		1/12	622
		Palmer Canyon 200' above Diversion above Reservoir												
	2-9	Ash	13.5	7.78	2.27		17.72	.6			5		1/6	622
		Thompson Creek Small stream on opposite side of Reservoir												
	2-9	Ash	4.7	3.03	2.02		4.10	.6			5		1/4	622
		Palmer Canyon Near Diversion above Reservoir												
	2-12	Ash	8.	3.26	.67		2.20	.6			7		1/4	622
		Palmer Canyon Near Thompson Creek Dam												
	3-4	Ash	3.0	0.58	.60		0.35	.6			4			622
		Palmer Canyon Near Thompson Creek Dam												
	3-11	Ash	1.1	.42	.83		.35	.6			4			622
		Palmer Canyon Near Thompson Creek Dam												
	3-25	Ash					.008	Weir						
		Palmer Canyon Near Thompson Creek Dam												
	4-8	Ash					.04	Weir						
		Palmer Canyon Near Thompson Creek Dam												
	2-8	Ash	3.90	2.53	3.75		9.48	.6			4			622
		Palmer Canyon Near Thompson Creek Dam												
	3-18	Ash					.157	Weir						

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 93

Discharge measurements of Santa Clara River

at Lang, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-6	Waddicor	Two Streams				.62							
2	10-9	"	"	"			.56							
3	10-16	"	"	"			.50							
4	10-23	"	"	"			.48							
5	10-30	"	"	"			.54							
6	11-6	"	"	"			.57							
7	11-13	"	"	"			.65							
8	11-20	"	"	"			.62							
9	11-28	"	"	"			.56							
10	12-4	"	"	"			.47							
11	12-11	"	"	"			.44							
12	12-17	Waddicor-Turner	"	"			.47							
13	12-23	Waddicor	"	"			.44							
	1932													
14	1-8	Luce	"	"			.73							
15	1-22	Waddicor-Turner	"	"			.65							
16	1-30	Luce	"	"			.58							
17	2-5	Waddicor	"	"			.84							
18	2-26	"	31.7	9.92	2.50		24.79	.6		14		1/6		FC 27
19	3-11	Luce-Lindsay	Two Streams				11.75							
20	3-16	Waddicor	13.5	3.84	2.16		8.30	.6		8		1/6		"
21	3-25	"	11.8	3.65	2.49		9.19	.6		6		"		"
22	4-1	"	10.5	2.66	1.84		4.89	.6		6		"		"
23	4-15	"	Two Streams				4.06							
24	4-22	"	10.5	2.43	1.32		3.21	.6		8		"		"
25	4-29	"	9.5	2.00	1.44		2.88	.6		5		1/12		"
26	5-6	"	Two Streams				2.31							
27	5-6	Luce	Two Streams				3.57							
28	5-13	"	"	"			2.15							

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 93

Discharge measurements of Santa Clara River

at Lang, during the year ending September 30, 1932

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	
29	5-19	Luce	Two Streams				2.35							
30	5-26	"	"	"			1.60							
31	6-11	"	"	"			1.29							
32	6-24	"	2.4	.94	1.02		1.02	.6		5		1/12		FC 13
33	7-1	"	Two Streams				1.64							
34	7-8	"	Two Streams				.71							
35	7-8	"	2.3	1.10	1.18		1.30	.6		5		"		FC 13
36	7-15	"	Two Streams				1.34							
37	7-22	"	"	"			1.38							
38	7-29	"	"	"			1.36							
39	8-4	"	"	"			1.22							
40	8-20	"	"	"			1.17							
41	8-27	"	"	"			1.23							
42	9-14	Bollinger	3.9	1.15			1.13	.6		7		1/6		277 650

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 137

Discharge measurements of Santa Clara River

at 1 Mile W. of Castaic Junction (Rising Water), during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-6	Waddicor	7.5	5.19	1.79		9.27		.6		8		1/6	FC 13
2	10-9	"	7.5	5.21	1.77		9.18		.6		8		"	"
3	10-16	"	7.6	5.50	1.86		10.19		.6		8		1/4	"
4	10-23	"	8.0	5.72	1.94		11.05		.6		9		1/6	"
5	10-30	"	8.0	5.33	1.85	1.14	9.87		.6		7		1/6	"
6	11-6	"	7.5	5.55	1.87		10.39		.6		7		"	"
7	11-13	"	7.5	5.28	1.98		10.46		.6		6		"	"
8	11-20	"	8.5	5.91	1.98		11.70		.6		7		"	"
9	11-28	"	8.8	6.56	1.78		11.76		.6		6		"	FC 27
10	12-4	"	8.7	5.98	1.64		9.62		.6		8		"	"
11	12-11	"	9.9	6.44	1.88		12.15		.6		6		"	"
12	12-17	Waddicor-Turner	8.0	5.42	2.00		10.96		.6		9		"	"
13	12-23	" "	8.0	5.69	1.68		9.54		.6		8		"	"
	1932													FC
14	1-8	Luce	8.0	6.28	1.96		12.32		.6		10		1/4	13 FC
15	1-22	Waddicor-Turner	7.9	5.49	2.10		11.53		.6		8		"	27
16	1-29	Waddicor	7.9	5.69	1.98		11.30		.6		10		1/6	"
17	2-5	"	8.1	6.40	1.94		12.43		.6		10		"	"
18	2-26	"	8.8	6.33	2.88		18.21		.6		9		"	"
19	3-4	"	8.5	6.53	2.48		16.19		.6		6		"	"
20	3-11	"	8.7	6.86	2.49		17.77		.6		7		"	"
21	3-18	"	8.0	6.10	2.45		14.97		.6		6		"	"
22	3-25	"	8.0	5.58	2.21		12.17		.6		7		"	"
23	4-1	"	8.0	5.51	2.14		11.81		.6		7		"	"
24	4-8	"	8.3	5.61	1.94		10.90		.6		6		"	"
25	4-15	"	8.0	5.74	2.05		11.79		.6		5		"	"
26	4-20	"	8.2	4.32	2.16		9.35		.6		6		"	"
27	4-22	"	8.0	5.55	1.66		9.22		.6		5		"	"
28	5-6	"	7.0	4.39	2.28		10.07		.6		4		"	"

F. C. Dist. Form 194 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 137

Discharge measurements of Santa Clara River

at 1 Mile W. of Castaic Junction (Rising Water), during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	5-19	Luce	8.2	4.86	2.24		10.88		.6		8		1/6	FC 13
30	6-3	"	8.0	4.66	2.48		11.59		.6		9		"	"
31	6-26	"	7.3	4.61	2.31		10.65		.6		8		"	"
32	7-1	"	7.0	4.51	2.38		10.75		.6		7		"	"
33	7-8	"	6.5	4.37	2.67		11.71		.6		7		"	"
34	7-15	"	6.5	4.37	2.64		11.57		.6		8		"	"
35	7-29	"	7.0	5.04	2.38		11.99		.6		7		"	"
36	8-4	"	6.5	4.27	2.32		9.91		.6		8		"	"
37	8-12	"	7.0	4.52	2.46		11.13		.6		9		"	"
38	8-19	"	7.0	4.62	2.62		12.12		.6		8		"	"
39	8-26	"	7.0	4.07	2.35		9.59		.6		8		"	"
40	9-21	Bollinger	6.4	4.85	1.96		9.53		.6		7		"	FC 10

F. C. Dist. Form 194 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 129

Discharge measurements of Rice Canyon Creek

at Weldon Canyon Highway, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	11-27	Luce-Waddicor	3.0	.44	.61	.04	.27		.6		7		1/12	FC 13
2	12-8	Waddicor-Turner	2.6	.20	.40	.04	.08		.6		5		"	FC 27
3	12-15	Luce-Waddicor	3.5	.71	.55	.05	.39		.6		7		"	FC 13
4	12-21	" Lovelace	4.0	1.21	1.09	.09	1.32		.6		6		"	"
5	12-28	" "	8.4	6.63	2.71	.40	17.93		.6		8		1/6	"
6	12-28	Waddicor-Turner	10.0	2.78	6.29	.40	17.45		.6		4		"	FC 27
7	12-28	Luce-Lovelace	13.5	15.2	3.45		52.62		.6		6		1/4	FC 13
8	1-8	Luce	3.0	.43	.86	.04	.37		.6		6		1/12	"
9	1-15	Waddicor-Turner	4.2	1.56	.59	.05	.90		.6		5		1/6	FC 27
10	1-31	" "	10.0	4.29	6.86	.42	29.56		.6		4		1/12	"
11	2-1	Turner-Lovelace	10.0	1.57	7.47	.24	11.72		.6		4		1/4	" FC 25
12	2-5	Waddicor	7.0	1.98	.77	.06	1.53		.6		6		1/12	FC 27
13	2-11	Luce-Turner	10.0	1.90	5.55	.16	10.50		.6		6		"	FC 13
14	2-16	Waddicor	7.5	2.36	2.42	.14	6.72		.6		8		1/6	FC 27
15	4-21	Luce-Waddicor	1.5	.12	.01	.01	.07		.6		3		1/12	FC 13
16	5-6	Waddicor	1.6	.08	.50	.01	.04		.6		2		"	FC 27

F. C. Dist. Form 184 HH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 91

Discharge measurements of San Dimas Creek

at Above F.C. Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Conf.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	11-28	Brewster	3.0	1.22	1.24	2.92	1.51	.6			3		1/6	271 666
2	12-5	"	3.0	.57	.77	2.83	.44	.6			3		"	"
3	12-11	"	4.0	1.26	1.17	2.96	1.48	.6			4		"	"
4	12-18	"	4.0	.94	2.88	2.88	.85	.6			4		"	"
5	12-24	"	4.0	1.07	.88	2.89	.94	.6			4		"	"
6	1932 1-8	"	5.0	3.24	.57	2.74	1.85	.6			5		"	"
7	1-15	"	5.0	3.31	.60	2.80	1.98	.6			5		"	"
8	1-22	"	5.0	2.78	.38	2.74	1.05	.6			5		"	"
9	1-29	"	4.0	2.61	.44	2.76	1.14	.6			4		"	"
10	2-5	"	11.0	5.09	1.17	2.93	5.97	.6			6		"	"
11	3-2	Ash	13.9	7.94	1.06	2.61	8.33	.6			11	.07	1/4	622
12	3-4	"	12.5	7.06	1.10	2.56	7.73	.6			11		"	"
13	3-8	"	13.2	6.66	.82	2.52	5.47	.6			9		"	"
14	3-11	"	12.5	6.39	.79	2.50	5.04	.6			8		"	"
15	3-16	"	12.0	6.04	.75	2.48	4.56	.6			8		"	"
16	3-18	"	12.5	6.40	.75	2.48	4.47	.6			8		"	"
17	3-22	"	6.0	4.60	.92	2.46	4.22	.6			7		"	"
18	3-24	"	6.0	4.46	.72	2.44	3.20	.6			7		"	"
19	3-25	"	6.1	4.60	.68	2.43	3.12	.6			8		1/3	"
20	4-15	Turner	7.0	3.70	.55	2.36	2.03	.6			7		1/6	30
21	4-22	"	5.7	3.51	.70	2.37	2.44	.6			6		"	"
22	4-29	"	5.5	3.54	.78	2.37	2.47	.6			11		"	"
23	5-6	"	6.0	3.79	.53	2.36	2.02	.6			12		"	"
24	5-13	"	5.0	3.06	.48	2.24	1.46	.6			10		"	"
25	5-20	Brewster	2.0	1.25	.60	2.28	.75	.6			4		1/10	271 666
26	5-27	"	1.5	.51	.94	2.26	.48	.6			3		1/6	"
27	6-3	"	4.0	1.47	1.10	2.39	1.61	.6			4		1/10	"
28	6-10	"	4.0	1.01	.54	2.26	.55	.6			4		1/6	"
29	6-17	Brewster	4.0	.99	.74	2.28	.73	.6			4		1/6	666
30	6-24	"	1.0	.15	.73	2.17	.11	.6			2		1/12	"
31	7-1	"	1.0	.13	.69	2.12	.09	.6			2		"	"
32	7-8	"	1.0	.11	.55	2.08	.06	.6			2		"	"
33	7-15	"	1.0	.10	.40	2.02	.04	.6			2		"	"

F. C. Dist. Form 184 HH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 25

Discharge measurements of San Gabriel River

at Bear Creek at Mouth of Canyon, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Conf.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10:2	Bollinger	9.1	9.42	.73	0.59	6.76	.6			10		1/6	FC 11
2	10:9	"	9.6	5.88	1.66	0.51	9.75	.6			11		1/6	FC 11
3	10:16	Miller-Bollinger	9.1	4.80	1.73	0.51	8.34	.6			9		1/6	FC 11
4	10:23	Bollinger	9.0	4.63	1.67	0.51	7.74	.6			11		1/6	FC 10
5	10:30	"	9.0	4.36	1.47	0.51	6.39	.6			10		1/6	FC 10
6	11:6	"	9.2	4.92	1.71	0.53	8.40	.6			10		1/6	FC 10
7	11:13	"	9.0	5.08	1.54	0.61	7.81	.6			11		1/6	FC 10
8	11:20	"	9.3	4.82	1.45	0.55	6.98	.6			12		1/6	FC 10
9	12:5	"	8.5	4.53	1.74	0.51	7.88	.6			10		1/6	FC 10
10	12:12	" & Cron	9.0	5.74	1.70		9.81	.6			10		1/6	FC 10
11	12:18	" " Moors	8.6	10.10	.85	0.54	8.60	.6			9		1/6	FC 10
12	1:8	1932 " " "	7.5	10.8	3.89		42.0	.6			8			FC 10
13	1:15	" " "	10.7	12.55	3.51		44.0	.6			13		1/3	FC 10
14	1:22	" " "	9.8	5.15	1.94	2.04	10.0	.6			12		1/6	FC 10
15	1:29	" " "	9.6	4.82	1.86	2.0	9.1	.6			11		1/6	FC 10
16	2:5	" " "	9.9	5.73	2.17		12.52	.6			10		1/4	FC 10
17	2:19	" " "	33.3	17.4	2.55	3.15	44.4	.6			17		1/4	FC 10
18	2:26	" " "	33.7	15.3	2.15	2.24	33.3	.6			16			FC 10
19	3:4	" " "	10.4	4.64	1.93	2.11	8.98	.6			11			FC 10
20	3:11	" " "	10.3	6.16	1.96	2.35	11.49	.6			11			FC 10
21	3:18	" " "	10.5	5.62	1.82	3.16	10.23	.6			12		1/6	FC 10
22	4:1	Bollinger	9.8	6.26	1.65	1.16	10.33	.6			10		1/6	FC 10
23	4:8	"	9.5	5.40	1.82	1.19	9.85	.6			12		1/6	FC 10
24	4:15	"	9.4	5.92	1.67	1.21	9.89	.6			11		1/6	FC 10
25	4:23	Bollinger-Ods.	10.0	6.33	1.65	3.20	10.43	.6			12		1/3	FC 10
26	4:29	Bollinger	10.9	5.74	1.93		11.05	.6			11		1/6	FC 10
27	5:6	"	9.7	4.72	1.82	2.26	8.62	.6			11		1/6	FC 10
28	9:27	"				1.26	23.0	Weir						

F. C. Dist. Form 184 HH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F 209

Discharge measurements of San Gabriel River

at West Fork below Damsite No. 2, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Conf.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	5-26	Patterson-Obs.,	15.0	11.3	.73	1.48	8.2	.6			5		1/4	FC 22
2	6-3	" "	17.0	14.9	.85	1.64	12.7	.6			9		1/4	FC 22
3	6-10	" "	13.0	9.7	.67	1.40	6.5	.6			5		1/4	FC 22
4	6-16	" "	13.0	9.4	.64	1.36	6.0	.6			5		1/6	FC 22
5	6-23	" "	5.0	2.81	.35		3.8	.6			4		1/6	FC 22
6	7-1	" "	8.0	1.8	.78		1.4	.6			5		1/6	FC 22
7	7-7	" "	5.0	1.6	.81		1.3	.6			4		1/6	FC 22
8	7-15	" "	5.0	1.5	.66		.98	.6			4		1/6	FC 22
9	7-22	" "	4.0	1.20	.53		.64	.6			4		1/6	FC 22
10	7-29	" "	4.0	1.1	.43		.48	.6			4		1/6	FC 22
11	8-24	" "	3.0	.7	.17		.12	.6			3		1/12	FC 22
12	8-31	" "	3.0	.8	.28		.22	.6			3		1/12	FC 22
13	9-6	" "	1.5	.24	.21		.05	.6			2		1/12	FC 22
14	9-14	" "	3.0	.60	.18		.11	.6			3		1/12	FC 22
15	9-29	" "	3.0	.66	.32		.21	.6			3		1/12	FC 22

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F 206

Discharge measurements of San Gabriel River

at West Fork Above Devil's Canyon, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Conf.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	5-26	Patterson-Obs.,	7.5	4.7	.96		4.5	.6			6		1/6	FC 22
2	6-3	" "	8.5	5.9	1.10		6.5	.6			4		1/4	FC 22
3	6-10	" "	6.0	3.7	.92		3.4	.6			5		1/6	FC 22
4	6-16	" "	6.0	3.6	.92		3.3	.6			5			FC 22
5	6-23	" "	5.0	2.5	.76		1.9	.6			3			FC 22
6	7-1	" "	5.0	1.32	.42		.55	.6			4			FC 22
7	7-7	" "	4.5	1.13	.36		.41	.6			3			FC 22
8	7-15	" "	4.0	.96	.35		.34	.6			3			FC 22
9	7-22	" "	3.2	.69	.33		.23	.6			3			FC 22
10	7-29	" "	3.0	.68	.29		.20	.6			3			FC 22
11	8-24	" "	1.0	.17	.12		.03	.6			2			FC 22
12	8-31	" "	1.0	.15	.20		.03	.6			2			FC 22
13	9-14	" "	1.5	.23	.13		.03	.6			2			FC 22
14	9-29	" "	1.5	.24	.17		.04	.6			2			FC 22

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.86

Discharge measurements of San Gabriel River

at Below Standifer Ditch, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10/2	Brewster	8.5	5.23	1.54	6.76	8.05	.6			8	0	1/4	271 666
2	9	"	9.0	6.0	1.62	6.82	9.73	.6			9	0	"	"
3	16	"	9.0	5.72	1.60	6.82	9.16	.6			9	0	"	"
4	23	"	8.0	5.90	1.53	6.83	9.04	.6			8	0	1/3	"
5	30	"	8.0	5.54	1.30	6.93	7.18	.6			8	0	1/4	"
6	11/6	"	8.0	5.53	1.44	6.85	7.98	.6			8	0	"	"
7	13	"	8.0	6.29	1.18	6.6[illegible]	8.42	.6			8	0	"	"
8	20	"	8.5	8.16	1.86	6.99	15.16	.6			9	0	"	"
9	27	"	8.5	8.75	1.87	7.01	16.40	.6			8	0	"	"
10	12/4	"	9.0	10.2	1.94	7.04	19.83	.6			9	0	"	"
11	11	"	9.0	12.3	2.04	7.24	25.1	.6			9	0	"	"
12	18	"	9.0	10.3	2.26	7.22	23.2	.6			9	0	1/3	"
13	24	"	9.0	10.1	2.18	7.21	21.97	.6			9	0	1/4	"
14	1932 1/8	"	16.	14.9	1.70	7.22	25.35	.6			11	0	1/3	"
16	1/15	"	16.	16.1	1.86	7.26	29.86	.6			10	0	1/3	"
17	22	"	16.	16.7	1.64	7.25	27.30	.6			10	0	"	"
18	29	"	13.	15.7	1.56	7.21	24.41	.6			10	0	"	"
19	2/5	"	16.	17.1	1.72	7.25	29.54	.6			8	0	1/4	"
20	26	"	26.	18.8	1.77	----	33.41	.6			9	0	1/3	"
21	3/4	"	20.	14.9	1.76	6.31	26.21	.6			9	0	1/4	"
22	11	"	20.	15.5	1.86	6.25	29.0[illegible]	.6			10	0	"	"
23	18	"	19.	15.9	1.76	6.20	27.84	.6			9	0	"	"
24	25	"	20.	17.3	1.71	6.20	29.6	.6			11	0	1/3	"
25	4/1	"	21.	14.7	1.85	6.22	27.12	.6			10	0	1/3	"
26	8	"	12.	6.80	2.03	6.66	13.81	.6			6	0	1/5	"
27	15	"	14.	6.42	1.99	6.57	12.79	.6			11	0	1/4	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.86

Discharge measurements of San Gabriel River

at Below Standifer Ditch, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
28	4/22	Brewster	13.0	5.94	2.10	6.55	12.48	.6			7	0	1/4	271 666
29	29	"	13.0	6.14	2.05	6.55	12.56	.6			7	0	"	"
30	5/6	"	13.0	7.32	1.90	6.58	13.90	.6			7	0	"	"
31	13	"	13.0	6.03	1.78	6.55	10.79	.6			7	0	"	"
32	20	"	13.0	6.25	1.69	6.55	10.56	.6			7	0	"	"
33	57	"	13.0	6.06	1.71	6.54	10.35	.6			7	0	"	"
34	6/3	"	13.0	6.05	1.76	6.55	10.65	.6			7	0	"	"
35	10	"	14.0	6.70	1.63	6.56	10.89	.6			7	0	"	"
36	17	"	14.0	6.54	1.91	6.57	12.51	.6			7	0	"	"
37	64	"	14.0	5.88	1.56	6.54	9.20	.6			7	0	"	"
38	7/1	"	12.0	5.90	1.51	6.54	8.92	.6			6	0	"	"
39	8	"	14.0	6.40	1.67	6.55	10.69	.6			7	0	"	"
40	15	"	12.0	5.53	1.65	6.54	9.12	.6			7	0	"	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of San Gabriel River

at Committee of 9 Diversion Tunnel, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Weir												
	4-29	Lindsay				2.84	20.29							
		Weir												
	4-22	Lindsay				2.80	73.52							
		Mouth of San Gabriel - Weir												
	4-16	Lindsay	6.0	19.12	3.72	2.84	71.05	.6			6		1/3	282 883
		Mouth of San Gabriel - Weir												
	4-7	Lindsay	12.	24.46	2.96	2.75	71.30	.6			12		1/3	282 883
		Mouth of San Gabriel Canyon												
	3-31	Lindsay	12.	21.84	2.18	2.47	40.78	.6			6		1/3	282 883
		Mouth of San Gabriel Canyon - Weir												
	3-24	Lindsay	12.	20.47	3.09	2.30	42.94	.6			12		1/2	282 883
		Azusa Duarte Tunnel at Mouth												
	3-4	Lindsay-Morgan P.	12.0	15.81	1.98	2.14	31.15	.6			12		1/2	282 883
		Mouth of San Gabriel Canyon - Weir												
	5-6	Lindsay				2.82	63.11							
		Mouth of Tunnel Weir												
	5-27	Lindsay				2.58	53.50							
		Mouth of San Gabriel												
	5-16	Lindsay				2.93	79.35							
		Mouth of San Gabriel Canyon												
	5-13	Lindsay				2.90	78.89							
		Mouth of San Gabriel Canyon												
	6-17	Lindsay	5.7	14.06	.81	2.01	17.33	.6			6		5/12	282 883
		San Gabriel 100' below Tunnel												
	4-26	Lee & Martin	2 Streams				39.70	.6			15		1/3	FC 29
		San Gabriel at Station 45-50 where River leaves Mt.												
	4-26	Lee & Martin					43.73							

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of San Gabriel River

at Committee of 9 Diversion Tunnel, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Duarte Ditch 100' below outlet West side San Gabriel												
	3-29	Lee & Martin	5.	3.60	1.87		16.14	.6			5		1/8	FC 29
		San Gabriel 75' below Dam												
	4-22	Lindsay					50.70							
		San Gabriel Below Dam												
	5-13	Lindsay					11.16							
		San Gabriel 100' below Tunnel												
	4-28	Lee & Martin	2 Streams				21.92							
		San Gabriel Below Dam												
	4-29	Lindsay					16.65							
		San Gabriel 300' below Tunnel												
	5-5	Lee & Martin	18.	7.20			9.87	.6			7		1/3	FC 29
		San Gabriel 100' below Tunnel to Azusa Spreading Grounds												
	4-25	Lee & Martin					34.41							
		San Gabriel 1500' below Tunnel to Azusa Spreading Grounds												
	4-25	Lee & Martin	24.	19.8	1.90		37.34	.6			9		1/3	FC 29
		Fish 500' below Fish Camp												
	3-29	Lee & Martin	4.	2.00	.67		1.34	.6			4		1/12	FC 29
		Fish 150' above P.E.R.R. Bridge on San Gabriel												
	3-29	Lee & Martin	9.	3.40	1.64		5.60	.6			5		1/6	FC 29

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 55

Discharge measurements of Santa Monica Canyon Creek

at North Channel Road, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G.Ht. change Total	Time Hours	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							
1	11-27	Meunier-Laverty		2.90	3.46	.18	10.0		Float					
2	12-14	" Gewertz	6.0	2.88	4.23	.40	12.2		Float					
3	12-16	Meunier					.08		Weir					
4	12-21	Meunier-Nesbit	6.5	1.98	1.86	.10	3.68		.6		6		1/6	271 588
5	12-26	Meunier	7.0	.35	1.37		.48		Float					
6	12-28	Meunier-Girovard	8.0	2.24	2.54	.15	5.70		Float					
7	12-28	Allen-Conway	39.0	25.56	2.74	.70	70.00		.6		10	.20	1/4	FC 1
8	12-31	Meunier	3.5	.70	1.36		.95		Float		1			
9	1932 1-8	"	2.0	.40	1.70		.68		Float					
10	1-15	Meunier-Girovard	3.0	.75	2.00		1.50		Float					
11	1-22	Meunier	1.6	.40	2.05		.82		Float					
12	1-29	"	2.10	.44	2.16		.95		Float					
13	1-31	Meunier-Girovard	10.2	5.00	4.60	.30	22.33		.6		5			271 588
14	2-2	" "	8.3	3.62	2.70		9.78		.6		8			"
15	2-4	Meunier	7.6	2.82	1.76		4.97		.6		7		1/4	"
16	2-8	Meunier-Girovard	37.0	20.39	5.13	.70	104.7		.6		10		1/3	"
17	2-11	Meunier	14.0	4.34	3.74		16.20		Float					
18	2-16	Meunier-Girovard	12.0	4.20	3.40		14.30		Float		1			
19	2-18	Meunier	5.0	1.75	3.40		5.95		Float		1			
20	2-25	"	4.0	1.60	3.02		4.84		Float		1			
21	3-3	"	4.0	1.00	2.27		2.27		"		1			
22	3-11	"	4.0	.80	2.55	2.69	2.04		"		1			
23	3-17	"	3.0	.82	1.82	2.66	1.50		"		1			
24	3-24	"	2.3	.69	1.27	2.65	.88		"		1			
25	3-31	"	2.5	.67	1.37	2.65	.92		"		1			
26	4-7	"	2.5	.67	1.37	2.64	.92		"		1			
27	4-14	"	2.7	.62	1.13	2.65	.70		"		1			
28	4-21	"	1.8	.36	1.70	2.64	.61		"		1			
29	4-26	Meunier	2.4	.48	3.02	2.69	1.45		Float		1			
30	4-28	"	3.0	1.20	.85	2.66	1.02		Float		1			
31	5-5	"	2.7	1.00	.75	2.67	.75		Float		1			
32	5-12	"	3.0	1.14	.85		.97		Float		1			
33	5-19	Hardgrove				2.69	.41		Weir					
34	5-26	"				2.72	.46		Weir					
35	6-3	"	5.0	1.47	1.27	2.81	1.86		.6		5		1/6	282 891
36	6-10	"				2.76	.49		Weir					
37	6-17	"				2.73	.46		Weir					
38	6-24	"				2.79	.48		Weir					
39	7-1	"				2.71	.34		Weir					
40	7-6	"				2.74	.32		Weir					
41	7-6	"				2.73	.32		Weir					
42	7-16	"				2.73	.30		Weir					
43	7-22	"				2.70	.28		Weir					
44	7-30	"				2.71	.25		Weir					
45	8-5	"				2.72	.21		Weir					
46	8-13	"					.19		Weir					
47	8-19	"				2.71	.22		Weir					
48	8-25	"				2.77	.20		Weir					
49	9-1	"				2.72	.24		Weir					
50	9-8	"				2.70	.20		Weir					
51	9-16	"				2.70	.18		Weir					
52	9-23	"				2.71	.21		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 185

Discharge measurements of Sepulveda Creek

at Charnock Road, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G.Ht. change Total	Time Hours	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							
1	1-22	Hardgrove	1.3	.10	.60		.06		.6		2		1/12	FC 20
2	1-29	"	3.	.8	1.51	3.31	1.21		.6		3		1/6	FC 20
3	2-5	"	1.8	0.29	0.79		.23		.6		3		1/6	FC 20
4	2-9	Allen-Hillman	12.	3.78	.58	2.60	1.78		.6		6		1/6	FC 1.
5	2-11	Hardgrove	2.	.30	1.03		0.31		.6		3			FC 20
6	2-14	"	12	6.0	2.30	4.50	13.8		.6		6		1/6	FC 20
7	2-16	Hardgrove-Burright	13.5	4.85	9.07	4.88	43.9		.6		7		1/12	FC 20
8	2-16	" "	14.5	7.47	10.8		81.1		.6		8		1/6	FC 20
9	2-16	" "	19.	16.	4.04	5.13	64.81		.6		8		1/6	FC 20
10	2-20	"	4.	1.22	0.80	3.34	.97		.6		4			FC 20
11	2-27	"					0.47		Weir					
12	3-4	"					0.09		"					
13	3-11	"					.11		"					
14	3-18	"					.06		"					
15	3-25	"					.05		"					
16	4-1	"					.06		"					
17	4-8	"					.14		"					
18	4-13	"					.20		"					
19	4-22	"					.30		"					
20	5-6	"					.20		"					
21	5-14	"					.37		"					
22	5-21	"					.23		"					
23	5-28	"					.28		"					
24	6-4	"	8.	3.86	1.37		4.92		.6		4			FC 20
25	6-11	"					0.16		Weir					
26	6-18	"					0.07		"					
27	6-25	"				3.46	0.13		"					
28	7-2	"				3.43	0.09		"					
29	7-9	Hardgrove					0.09		Weir					
30	7-9	"					0.09		"					
31	7-16	"					0.09		"					
32	7-23	"				3.37	0.08		"					
33	7-29	"				3.37	0.09		"					
34	8-6	"				3.36	0.09		"					
35	8-13	"				3.34	0.10		"					
36	8-19	"					0.11		"					
37	8-26	"				3.37	0.09		"					
38	9-3	"				3.36	0.12		"					
39	9-7	"				3.34	0.11		"					
40	9-16	"				3.35	0.14		"					
41	9-22	Hardgrove-Irwin				3.40	0.31		"					
42	9-30	Irwin				3.94	.97		"					

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 188

Discharge measurements of Slauson Avenue Storm Drain

at Goshen Ave., during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating Percent diff.	Method	Coef.	Meas. secs. No.	G.Ht. change Total	Time Hours	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.							
1	12-19	Hardgrove-Burright	3.5	1.0	1.37	.18	1.37		.6		4		1/10	282 891
2	12-21	Rupert	9.9	1.98	.89	-	1.77		.6		20		1/3	271 647
3	12-28	Goodridge-Hedge	10.0	15.2	5.51	1.85	83.90		.6		10		1/12	3 Hoff
4	12-28	" "	10.0	13.0	4.11	1.78	74.00		.6		10		"	"
5	12-28	" "	10.0	19.1	3.60	1.72	69.00		.6		11		"	"
6	1932 1-8	Hedge-Hamilton	9.5	35.5	3.83	2.96	136.00		.6		12		1/6	4 Hoff
7	1-8	Hedge-Hamilton	10.0	29.4	4.72	2.94	138.00		.6		12		1/12	"
8	1-8	Hamilton-Hedge	10.0	29.8	4.72	2.9	138.00		.6		11		"	"
9	1-8	" "	10.0	25.8	4.34	2.58	112.00		.6		12		"	"
10	1-8	" "	10.0	24.5	4.28	2.45	105.00		.6		12		1/6	"
11	1-9	Goodridge-Fisk	9.0	18.8	4.29	2.09	80.74		.6		10		"	3 Hoff
12	1-9	" "	9.0	18.9	4.11	2.11	78.17		.6		10		1/8	"
13	2-11	Hardgrove	3.0	.99	1.11	.10	1.10		.6		3			282 891

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C 65

Discharge measurements of Standifer Ditch

at Below Headgate, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10/2	Brewster	8.0	5.77	1.34	3.20	7.73		.6		8	0	1/4	271 666
2	9	"	8.0	5.31	1.37	3.16	7.25		.6		8	0	"	"
3	16	"	8.0	5.74	1.37	3.18	7.86		.6		8	0	"	"
4	23	"	8.0	6.17	1.41	3.23	8.70		.6		8	0	"	"
5	30	"	8.0	6.84	1.37	3.34	9.38		.6		8	0	"	"
6	11/6	"	8.0	5.15	1.41	3.15	7.25		.6		8	0	"	"
7	13	"	8.0	5.90	1.47	3.20	8.65		.6		8	0	"	"
8	20	"	8.0	5.26	.99	2.98	5.23		.6		8	0	"	"
9	27	"	8.0	5.22	1.31	3.10	6.85		.6		8	0	"	"
10	12/4	"	5.0	1.20	1.03	2.55	1.24		.6		8	0	1/6	"
11	11	"	Gate Closed											
12	18	"	Gate Closed											
13	24	"	Gate Closed											
	1932													
14	1/8	"	Gate Closed											
15	15	"	Gates Closed											
16	22	"	Gates Closed											
17	29	"	Gates Closed											
18	2/5	"	Gates Closed											
19	12	"	Gates Closed											
20	19	"	Gates Closed											
21	26	"	Gates Closed											
22	3/4	"	Gates Closed											
23	11	"	Gates Closed											
24	18	"	Gates Closed											
25	25	"	Gates Closed											

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. F.C.65

Discharge measurements of Standifer Ditch

at Below Headgate, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
26	4/1	Brewster	Gates Closed											271
27	8	"	6.0	7.09	1.53	3.31	10.82		.6		6	0	1/4	666
28	15	"	7.0	7.65	1.44	3.32	11.02		.6		7	0	"	"
29	22	"	7.0	7.66	1.42	3.32	10.90		.6		7	0	"	"
30	29	"	8.0	9.70	1.02	3.32	9.92		.6		8	0	"	"
31	5/6	"	8.0	10.2	1.05	3.34	10.65		.6		8	0	"	"
32	13	"	7.0	7.44	1.40	3.31	10.39		.6		7	0	"	"
33	20	"	7.0	7.31	1.25	3.29	9.16		.6		7	0	"	"
34	27	"	7.0	7.61	1.30	3.30	9.92		.6		7	0	"	"
35	6/3	"	7.0	7.31	1.31	3.31	9.55		.6		7	0	"	"
36	10	"	7.0	7.92	1.14	3.30	9.05		.6		7	0	"	"
37	17	"	7.0	7.70	1.13	3.42	8.68		.6		7	0	"	"
38	24	"	7.0	6.92	1.17	3.38	8.10		.6		7	0	"	"
39	7/1	"	7.0	7.07	1.23	3.37	8.73		.6		7	0	"	"
40	8	"	7.0	7.27	1.30	3.33	9.42		.6		7	0	"	"
41	15	"	7.0	7.24	1.24	3.33	8.97		.6		7	0	"	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 66

Discharge measurements of Tri-City Sewer Outfall

at Above Jct. with Rio Hondo, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	10-2	Brewster	4.0	4.09	1.09	2.05	4.44		.6		4		1/6	271 666
2	10-9	"	4.0	5.58	.86	2.25	4.81		.6		4		"	"
3	10-16	"	5.0	7.82	1.22	2.64	9.52		.6		5		1/4	"
4	10-23	"	5.0	6.00	1.11	2.22	6.64		.6		5		1/5	"
5	10-30	"	5.0	6.74	1.10	2.35	7.43		.6		5		1/6	"
6	11-6	"	5.0	6.46	1.18	2.35	7.66		.6		5		1/5	"
7	11-13	"	5.0	5.46	1.26	2.14	6.88		.6		5		1/6	"
8	11-20	"	5.0	6.53	1.53	2.36	9.98		.6		5		"	"
9	11-27	"	5.0	4.84	1.57	2.35	7.59		.6		5		"	"
10	12-4	"	5.0	4.61	1.62	2.33	7.46		.6		5		"	"
11	12-11	"	5.0	4.84	1.62	2.35	7.86		.6		5		1/5	"
12	12-18	"	5.0	4.94	1.50	2.12	7.40		.6		5		1/6	"
13	12-24	"	5.0	5.77	1.68	2.56	9.70		.6		5		"	"
	1932													
14	1-8	"	6.0	4.88	1.23	1.85	6.03		.6		6		1/4	"
15	1-15	"	6.0	4.84	1.24	1.86	6.48		.6		6		1/6	"
16	1-22	"	6.0	4.59	1.68	1.98	7.73		.6		6		"	"
17	1-29	"	5.0	5.24	1.81	1.90	9.49		.6		5		1/4	"
18	2-5	"	6.0	5.24	1.77	1.80	9.29		.6		6		"	"
19	2-19	"	6.0	7.10	1.92	2.06	13.63		.6		6	.04	1/6	"
20	2-26	"	6.0	7.16	1.89	1.97	13.56		.6		6	.06	"	"
21	3-4	"	6.0	6.86	1.84	1.93	12.63		.6		6	.06	"	"
22	3-11	"	6.0	6.44	1.82	1.81	11.75		.6		6		"	"
23	3-18	"	6.0	6.55	1.84	1.80	12.08		.6		6	.01	"	"
24	3-25	"	6.0	6.55	1.80	1.74	11.81		.6		6	.08	"	"
25	4-1	"	6.0	5.77	1.86	1.70	10.74		.6		6		"	"
26	4-8	"	6.0	7.20	1.88	1.85	13.54		.6		6	.02	1/5	"
27	4-15	"	6.0	4.11	1.22	1.32	5.03		.6		6		1/6	"
28	4-22	"	6.0	4.63	1.49	1.50	6.48		.6		6		"	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 66

Discharge measurements of Tri-City Sewer Outfall

at Above Jct. with Rio Hondo, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
29	4-29	Brewster	5.0	5.06	1.62	1.62	8.22		.6		5		1/6	271 666
30	5-6	"	6.0	5.89	1.58	1.70	9.32		.6		6		"	"
31	5-13	"	5.0	5.64	1.66	1.71	9.39		.6		5		"	"
32	5-20	"	5.0	6.16	1.56	1.72	9.63		.6		5		"	"
33	5-27	"	5.0	4.96	1.85	1.70	9.18		.6		5		"	"
34	6-3	"	5.0	4.98	1.97	1.76	9.79		.6		5		"	"
35	6-10	"	5.0	4.93	1.78	1.68	8.80		.6		5		"	"
36	6-17	"	5.0	5.51	1.62	1.69	8.90		.6		5		"	"
37	6-24	"	5.0	5.81	1.39	1.65	8.09		.6		5		"	"
38	7-1	"	5.0	4.98	1.42	1.68	7.08		.6		5		"	"
39	7-8	"	5.0	5.65	1.47	1.82	8.31		.6		5		"	"
40	7-15	"	5.0	5.22	1.53	1.81	7.97		.6		5		"	"
41	7-22	"	5.0	4.87	1.57	1.80	7.63		.6		5		"	"
42	7-29	"	4.0	4.58	1.60	1.80	7.32		.6		4	.04	"	"
43	8-5	"	4.0	3.46	1.74	1.71	6.03		.6		4		"	"
44	8-12	"	4.0	3.79	1.61	1.70	6.09		.6		4		"	"
45	8-18	"	5.0	4.56	1.31	1.69	5.98		.6		5		"	"
46	8-25	"	3.5	3.46	1.63	1.70	5.64		.6		4		"	"
47	9-1	"	4.0	4.99	1.36	1.85	6.77		.6		4	.08	"	"
48	9-7	"	4.0	3.76	1.88	1.88	7.07		.6		4		"	"
49	9-15	"	4.0	3.77	1.62	1.78	6.11		.6		4		"	"
50	9-22	"	4.0	3.97	1.56	1.71	6.10		.6		4		"	"
51	9-29	"	4.0	3.71	1.70	1.74	6.31		.6		4		"	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 139

Discharge measurements of Trail Canyon Creek

at Above Big Tujunga Creek, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	12-9	Irwin-Browne, Jr.	1.1	.14	.88	3.06	.123		.6		3		1/4	FC 24
2	12-28	Irwin	4.5	1.75	1.35	3.34	2.35		.6		6		1/3	FC 24
3	12-29	Irwin-O.S.L.McK.	6.0	4.32	1.66	3.55	5.37		.6		6		1/6	FC 24
4	1932 1-8	Browne	6.	1.36	.46	3.19	.69		.6		6		1/4	FC 24
5	1-15	Browne	6.	1.56	.78	3.21	1.21		.6		5		1/4	FC 24
6	1-22	Browne	2.5	.53	.87	3.17	.46		.6		5		1/4	FC 24
7	1-29	Browne	2.5	.57	.65	3.18	.37		.6		5		1/6	FC 24
8	2-5	Browne, Jr.	6.	2.21	1.87	3.4	4.14		.6		6		1/6	FC 24
9	3-4	Browne, Jr.	8.0	2.42	1.18	3.56	2.86		.6		4		1/6	FC 24
10	3-11	Browne, Jr.	8.	3.01	.79	3.48	2.38		.6		8		1/4	FC 24
11	3-21	Irwin	7.	3.7	.69	3.40	2.56		.6		7		1/4	FC 24
12	4-22	Irwin	5.	2.67	.31	3.33	.83		.6		6		1/4	FC 24
13	5-6	Irwin	5.	2.74	.27	3.34	.74		.6		5		1/6	FC 24
14	5-10	Turner	4.5	1.84	.52	3.34	.95		.6		5		1/2	FC 24
15	5-13	Irwin	5.	2.59	.29	3.33	.72		.6		5		1/4	FC 24
16	5-14	Irwin	8.	2.46	.33	3.33	.58		.6		8		1/4	FC 24
17	5-19	Irwin	4.	1.38	.89	3.38	1.15							FC 24
18	5-21	Irwin				3.25	.478		Weir					
19	5-23	Irwin				3.21	.26		Weir					
20	5-27	Irwin				3.30	.296		Weir					
21	6-4	Irwin				3.28	.26		Weir					
22	6-7	Irwin				3.30	2.96		Weir					
23	6-9	Irwin				3.29	.29		Weir					
24	6-11	Irwin				3.28	.25		Weir					
25	6-18	Irwin				3.23	.13		Weir					
26	6-21	Irwin				3.04	.04		Weir					
27	6-25	Irwin				3.21	.08		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No. 148

Discharge measurements of Weldon Canyon Creek

at R.R. Bridge (½ mile above Aqueduct), during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1931		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
1	11-27	Luce & Waddicor	2.0	.40	1.18	.81	.47		.6		4		1/12	FC 13
2	12-9	Waddicor	2.0	.17	.65	.57	.11		.6		4		1/12	FC 27
3	12-17	Waddicor & Turner	1.5	.15	.73	.05	.11		.6		3		1/12	FC 27
4	12-21	Luce & Lovelace	2.3	.53	.62	.04	.33		.6		5		1/12	FC 13
5	12-28	Luce & Lovelace	20.0	34.41	4.0	.30	99.43		.6		5		1/6	FC 26
6	1932 1-8	Luce	1.5	.13	.46	.05	.06		.6		3		1/12	FC 13
7	1-15	Waddicor & Turner	2.7	.60	1.73	.03	1.02		.6		5		1/12	FC 27
8	1-22	Waddicor & Turner	.9	.05	.40	.02	.02		.6		3		1/6	FC 27
9	1-29	Waddicor	1.0	0.07	0.29	.04	.02		.6		2		1/12	FC 27
10	1-29	Waddicor & Turner				.04	.08		Weir					
11	2-3	Luce & Lovelace	5.5	1.70	1.60		2.73		.6		7		1/12	FC 13
12	2-11	Luce & Turner	7.5	1.92	1.90	.13	3.63		.6		7		1/12	FC 13
13	4-1	Luce	1.7	0.18	.44		.08		.6		4		1/12	FC 13
14	5-6	Luce	1.8	.15	.09		.14		.6		4		1/12	FC 13

MISCELLANEOUS MEASUREMENTS OF STREAMS IN LOS ANGELES COUNTY

F. C. Dist. Form 104 BH 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Big and Little Dalton Creeks and Tributaries including

at inflow to and outflow from Big Dalton, during the year ending September 30, 19 32
Dam and Tributaries.

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	
	1932	Pine Canyon Creek near Big Dalton Dam												
	2/10	Ash	3.8	1.09	1.39		1.52		.6		4		1/6	622
		Big Dalton Creek Below Spreading Ground Gates												
	2/10	Ash	12	5.10	2.05	1.39	10.47		.6		6		1/6	"
		Big Dalton Spreading Grounds												
	2/19	Ash	9.2	3.82	9.02	2.07	7.71		.6		8		1/4	"
		Little Dalton Creek												
	2/11	Ash	7.	3.68	1.94	0.39	7.71		.6		5		1/4	"
		Monroe Creek above Big Dalton Reservoir												
	3/1	Ash	2.8	.90	.90		0.81		.6		4			"
		Big Dalton Dam Inflow												
	3/1	Ash	4.0	1.54	1.12		1.71		.6		5			"
		Big Dalton Dam Inflow												
	3/1	Ash	5.9	2.00	1.08		2.15		.6		7			"
		Big Dalton Dam Monroe Creek Inflow												
	3/3	Ash	2.7	.76	0.80		0.61		.6		4			"
		Big Dalton Dam Inflow												
	3/3	Ash	6.6	3.35	2.19		7.37		.6		7			"
		Big Dalton Dam Inflow												
	3/3	Ash	6.1	1.63	0.86		1.40		.6		7			"
		Little Dalton Near Spreading Grounds												
	3/7	Ash	1.2	.24	.13		.32		.6		2			"
		Monroe near Big Dalton Dam												
	3/8	Ash	2.7	.77	.71		.55		.6		4			"
		Big Dalton Dam Inflow												
	3/8	Ash	5.5	1.23	.71		.88		.6		5			"
		Monroe Creek above Big Dalton Dam												
	3/11	Ash					.51		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Big and Little Dalton Creeks and Tributaries including

at inflow to and outflow from Big Dalton, during the year ending September 30, 19 32
Dam and Tributaries.

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	
	1932	Little Dalton Creek near Spreading Grounds												
	3/11	Ash	5.1	1.52	0.63	0.14	0.96		.6		5		1/4	622
		Big Dalton Dam Inflow												
	3/11	Ash	3.0	0.83	0.96		0.80		.6		4			622
		Little Dalton Creek below Spreading Grounds												
	3/11	Ash	1.1	0.26	1.0		0.26		.6		2			622
		Little Dalton Spreading Grounds												
	3/11	Ash	5.1	1.52	0.63	0.14	0.96		.6				1/4	622
		Monroe Creek Big Dalton Dam												
	3/16	Ash					0.31		Weir					
		Big Dalton Dam Inflow												
	3/16	Ash	3.0	0.74	0.86		0.64		.6		4			622
		Little Dalton Spreading Grounds												
	3/17	Ash	2.4	0.75	.346	0.08	0.26		.6		4		1/6	622
		Little Dalton Spreading Grounds												
	3/17	Ash	2.4	0.75	.346	0.08	0.26		.6				1/6	622
		Monroe Creek above Big Dalton Dam												
	3/11	Ash					0.32		Weir					
		Big Dalton Dam Inflow												
	3/18	Ash	2.9	0.79	0.85		0.67		.6		4			622
		Monroe Creek above Big Dalton Dam												
	3/22	Ash					0.256		Weir					
		Big Dalton Dam Inflow												
	3/22	Ash	3.0	0.97	0.546		0.53		.6		4			622
		Little Dalton Creek near Spreading Grounds												
	3/23	Ash				0.05	0.136		Weir					
		Little Dalton Creek near Spreading Grounds												
	3/23	Ash				0.05	0.136		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Big and Little Dalton Creeks and Tributaries including

at near inflow to and outflow from Big Dalton Dam and Tributaries, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Monroe Creek near Big Dalton Dam												
	3-25	Ash					0.24		Weir					
		Little Dalton Spreading Grounds												
	3-25	Ash					0.106		Weir					
		Little Dalton Creek near Spreading Grounds												
	3-25	Ash				0.04	.106		Weir					
		Big Dalton Canyon near Big Dalton Dam												
	4-1	Ash					.264		Weir					
		Big Dalton Creek near Spreading Grounds												
	4-1	Ash				1.00	0.165		Weir					
		Monroe Canyon near Big Dalton												
	4-1	Ash					0.171		Weir					
		Big Dalton Dam - Inflow to Dam												
	4-8	Ash					0.136		Weir					
		Monroe Canyon near Big Dalton Dam												
	4-8	Ash					0.136		Weir					
		Big Dalton Dam Inflow												
	4-8	Ash					0.197		Weir					
		Big Dalton Dam Inflow												
	4-8	Ash	4.9	2.43	0.72		1.74		.6		6		½	FC 31
	1932	Big Dalton Creek Outflow from Dam Opposite Caretaker's House												
	4/15	Turner	5.4	2.31	.85		1.96		.6		10		1/6	FC 30
		Big Dalton Creek Glendora Water Co. Diversion												
	4/22	Turner	6.0	2.75	1.23		3.39		.6		11		1/6	"
		Monroe Creek near Big Daltom Dam												
	4/22	Ash					0.10		Weir					
		Big Dalton Creek Outflow opposite Caretaker's House												
	4/22	Turner	5.5	3.45	.87		3.00		.6		11		1/6	"
		Big Dalton Dam Outflow												
	4/24	Ash					.11		Weir					
		Monroe Creek near Big Dalton Dam												
	4/27	Ash					.11		Weir					
		Big Dalton Creek Glendora Water Co. Diversion												
	4/29	Turner	5.8	2.42	1.19		2.89		.6		11		1/6	"
		Big Dalton Creek Opposite Caretaker's House												
	4/29	Turner	5.0	3.12	.74		2.30		.6		10		1/6	"
		Big Dalton Creek Glendora Water Co. Diversion												
	5/6	Turner	2.5	1.16	.67		0.78		.6		5		1/12	"
		Big Dalton Creek Bridge Over Dam												
	5/6	Turner					0.17		Flume					
		Big Dalton Creek opposite Caretaker's House												
	5/6	Turner	5.0	1.67	.35		0.59		.6		9		1/6	"
		Monroe Creek Inflow to Big Dalton Dam												
	5/6	Turner					.09		Weir					
		Big Dalton Creek Glendora Water Co. Diversion												
	5/13	Turner	5.	1.71	.88		1.51		.6		10		1/6	"
		Big Dalton Creek opposite Caretaker's House												
	5/13	Turner	4.0	2.71	.46		1.24		.6		8		1/6	"
		Big Dalton Creek Bridge above Inflow to Dam												
	5/13	Turner					0.11		Flume					
		Monroe Creek Inflow to Dam												
	5/13	Turner					0.06		weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Big Santa Anita Creek including inflow and outflow from

at near Big Santa Anita Dam and Creek, during the year ending September 30, 19 32
Diversions.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Big Santa Anita Creek above Big Santa Anita Dam												
	3/10	Ash	7.8	8.93	1.14		10.26		.6		9			622
		Big Santa Anita Creek above Big Santa Anita Dam												
	3/15	Ash	7.7	7.60	1.08		8.27		.6		8			622
		Big Santa Anita Creek above Big Santa Anita Dam												
	3/17	Ash	9.6	6.82	1.12		7.67		.6		8			622
		Big Santa Anita Creek at Inflow to Dam												
	3/18	Turner	6.7	6.50	1.05		6.82		.6		7		½	FC 30
		Big Santa Anita Creek 500' above Inflow												
	3/18	Turner	9.0	6.92	1.21		7.36		.6		6		½	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Big Santa Anita Creek including inflow to and outflow

at near from Big Santa Anita Dam and Creek, during the year ending September 30, 19 32
Diversion.

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	
		Big Santa Anita Creek 400' above Inflow												
	3/21	Turner	9.5	6.64	1.08		7.23		.6		8		1/6	"
		Big Santa Anita Creek above Santa Anita Dam												
	3/24	Ash	9.3	6.45	0.96		6.17		.6		9			622
		Big Santa Anita Creek 400' above Inflow to Dam												
	3/28	Turner	9.0	6.07	.94		5.72		.6		10		½	FC 30
		Big Santa Anita Creek above Big Santa Anita Dam												
	4/1	Ash	9.1	5.88	.85		4.98		.6		9		½	622
		Big Santa Anita Creek 400' above Inflow to Dam												
	4/9	Turner	9.0	5.43	.79		4.33		.6		7		1/6	FC 30
		Big Santa Anita Creek 400' above Inflow to Dam												
	4/16	Turner	9.0	5.25	.72		3.81		.6		10		1/6	"
		Big Santa Anita Creek at Inflow to Dam												
	4/23	Turner	9.0	5.21	.71		3.69		.6		10		1/6	"
		Big Santa Anita Creek at Inflow to Dam												
	4/27	Turner	9.0	5.63	.80		4.52		.6		10		1/6	"
		Big Santa Anita Creek at Inflow to Dam												
	4/30	Turner	8.9	4.96	.66		3.25		.6		10		1/6	"
		Big Santa Anita Creek below Big Santa Anita Dam												
	2/25	Ash	12.	11.33	3.05		34.60		.6		14		½	622
		Big Santa Anita Creek Below Big Santa Anita Dam												
	2/27	Ash	6.7	3.29	1.55		5.10		.6		8		½	
		Big Santa Anita Creek Below Dam, at Flume												
	3/25	Turner	7.0	3.46	1.36		4.71		.6		8		1/6	FC 30
		Big Santa Anita Creek Below Big Santa Anita Dam												
	3/30	Ash	6.2	3.50	1.42		4.96		.6				½	622
		Big Santa Anita Creek Below Big Santa Anita Dam												
	4/1	Ash	6.9	3.56	1.36	1.17	4.73		.6		10		½	"
		Big Santa Anita Creek below Flume below Dam												
	4/4	Turner	7.1	3.60	1.40		5.03		.6		8		1/6	FC 30
		Big Santa Anita Creek Below Flume												
	4-12	Turner	11.	5.82	.94		5.52		.6		11		½	"
		Big Santa Anita Creek Below Flume below Dam												
	4/20	Turner	9.	3.78	.52		1.95		.6		9		1/6	FC 30
		Big Santa Anita Creek Below Out-flow below Flume												
	4/23	Turner	10.	3.90	.45	1.77	1.77		.6		10		1/6	"
		Big Santa Anita Creek below outflow from Dam												
	4/27	Turner	10.	3.92	.47		1.87		.6		10		1/6	"
		Big Santa Anita Creek below Outflow Flume												
	4/30	Turner	10.	3.96	.41		1.64		.6		10		½	"
		Big Santa Anita Creek 30' below Flume												
	5/4	Turner	10.	4.19	.45		1.92		.6		10		1/6	"
		Big Santa Anita Creek in Mouth of Flume												
	5/4	Turner	2.85	1.42	1.60		2.27		.6		5		1/12	"
		Big Santa Anita Creek at Diversion												
	5/7	Turner	2.5	2.08	.90		1.88		.6		5		1/6	"
		Big Santa Anita Creek 20' below Venturi Flume												
	5/10	Turner	10.	4.12	.42	0.52	1.71		.6		10		1/6	FC 30
		Big Santa Anita Creek 30' below Venturi Flume												
	5/14	Turner	10.	4.27	.42	0.52	1.80		.6		10		1/6	"
		Cook-Woodley Div. Ditch at Headgate												282
	7/8	Lindsay	2.3	2.14	.94		1.98		.6		2		1/12	883
		Cook-Woodley Diversion at Headgate Big Santa Anita Creek												282
	7/15	Lindsay	2.4	2.23	.90		2.01		.6		3		1/12	883
		Cook-Woodley Diversion 50' below Headgate Santa Anita Creek												282
	9/8	Lindsay	2.4	1.64	.77		1.26		.6		2		1/12	883
		Cook-Woodley Diversion Canal Big Santa Anita Creek at Heading												282
	9/16	Lindsay	2.5	1.66	.73		1.21		.6		2		1/12	883
		Cook-Woodley Diversion below Headgate Big Santa Anita Creek												
	9/23	Lindsay	2.4	1.56	.72		1.12		.6		2		1/12	
		Big Santa Anita Creek at Inflow to Dam												
	5/4	Turner	9.0	5.10	.65		3.34		.6		10		1/6	FC 30
		Big Santa Anita Creek 400' above Inflow												
	5/10	Turner	8.3	4.99	.67		3.37		.6		10		1/6	"
		Big Santa Anita Creek 400' above Inflow to Dam												
	5/14	Turner	8.9	4.87	.64		3.12		.6		10		1/6	"
		Santa Anita Wash below Arrow Highway												217
	2-10	Jordan & Stoner	21.0	8.3	3.67		30.4		.6		12		1/6	636

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FLOOD CONTROL DISTRICT
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File No.

Discharge measurements of Puddingstone Diversion Dam and Channel - Inflow into

Puddingstone Dam - Outlet into _____, during the year ending September 30, 19 32
Puddingstone Channel - Outlet to San Dimas Wash.

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Puddingstone Diversion Channel at Outflow Gage Board												
	2-9	Ash	11.3	2.88	6.21		16.69	.6			6		½	622
		Puddingstone Diversion Channel at Pud. Div. Dam												
	2-9	Ash	10.4	4.52	3.20		14.43	.6			3		5/12	622
		Puddingstone Diversion Channel Outflow of Channel												
	2-9	Ash	14.9	11.	8.28	0.57	91.72	.6			8		½	622
		Puddingstone Diversion Channel Puddingstone Dam												
	2-9	Ash	13.1	3.20	7.5		24.02	.6			8		1/6	622
		Puddingstone Channel Outflow of Channel												
	2-9	Ash	14.9	5.18	9.36	.48	48.46	.6			12		½	622
		Puddingstone Diversion Channel Puddingstone Dam												
	2-9	Ash	14.9	4.03	8.23	.41	33.40	.6			6		½	622
		Puddingstone Dam Inflow 150' below Channel Outflow												
	2-9	Ash	20.	43.95	3.37		140.30	.6			6		5/12	622
		Outlet Pipe Puddingstone Diversion Dam												
	2-10	Brewster	16.	16.50	3.18	45.7	52.54	.6			8		½	271 666
		Puddingstone Diversion Dam Outlet Pipe												
	2-11	Brewster & J.G.L.	16.	25.72	1.87	45.7	48.14	.6			9		½	271 666
		Outlet Pipe Puddingstone Diversion Dam												
	2-13	Brewster	16.	15.80	2.82	42.8	44.50	.6			9		½	271 666
		Puddingstone Diversion Channel Outflow												
	2-16	Ash	14.9	4.44	8.3	.43	36.96	.6			8		½	622
		Puddingstone Diversion Channel Outlet												
	2-16	Ash	13.	3.23	7.51		24.36	.6			8		½	622
		Puddingstone Diversion Dam Outlet												
	2-19	Ash & Pollard	10.	2.06	7.03		14.48	.6			10		1/6	622

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Rio Hondo River

(Miscellaneous Measurements), during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Split 50' below Santa Fe Bridge												
	4-12	Lee & Martin	30.	17.60	2.41		42.22	.6			8		½	FC 29
		Split												
	4-25	Lee & Martin	18.	7.90	1.58		12.55	.6			9		½	FC 29
		Split 40' below Santa Fe Bridge												
	4-26	Lee & Martin	20.	10.60	2.11		22.40	.6			10		1/3	FC 29
		Split 50' below Santa Fe Bridge												
	4-5	Lee & Martin	2 Streams				75.15							
		P. E. Bridge - El Monte												
	4-8	Brewster	30.0	7.30	1.58		11.50	.6			13		½	271 666
		Split 60' below Santa Fe Bridge												
	3-18	Lee & Martin	2 Streams				120.92	.6					½	FC 29
		Split 50' below Santa Fe Bridge												
	3-25	Lee & Martin	2 Streams				118.40	.6					½	FC 29
		Split 50' below Santa Fe Bridge												
	3-15	Lee & Martin	2 Streams				142.39	.6					½	FC 29
		Split 60' below Santa Fe Bridge												
	3-11	Lee & Martin	2 Streams				185.37	.6					½	FC 29
		Split 40' below Santa Fe												
	3-10	Lee & Martin	2 Streams				198.24	.6					½	FC 29
		Split 100' below Santa Fe												
	3-4	Lee & Martin	2 Streams				269.44	.6					1	FC 29
		Garvey Road												
	3-4	Brewster	41.0	30.35	3.5		107.56	.6			9		1/3	271 666
		Garvey Road												
	3-11	Brewster	28.0	15.41	2.9		45.80	.6			7		1/6	271 666
		Garvey Road												
	4-8	Brewster	26.0	7.37	1.3		10.05	.6			10		½	271 666

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of San Antonio Spreading Grounds
(Miscellaneous Measurements)
near Claremont, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Diversion #1												
	2-12	J. A. Lee	14.	8.68	5.75	0.80	50.03	.6			7		½	FC 29
		West Channel Div. #2												
	2-15	J. A. Lee	10.	5.10	1.95	0.32	9.98	.6			5		1/3	FC 29
		Sycamore Diversion												
	2-15	J. A. Lee	4.	1.50	2.11	0.39	3.17	.6			4		1/6	FC 29
		Diversion #1												
	2-15	J. A. Lee	15.	7.15	4.93	0.60	35.26	.6			8		1/3	FC 29
		Diversion #1												
	2-20	J. A. Lee	15.	4.53	3.57	0.45	11.64	.6			8		½	FC 29
		Diversion #1												
	2-22	J. A. Lee	15.	4.46	3.85	0.46	12.70	.6			8		1/3	FC 29
		Diversion #1												
	2-9	J. A. Lee	15.	12.80	7.74	1.24	99.07	.6			7		½	FC 29
		East Channel Div. #2.												
	2-9	J. A. Lee	6.	1.70	2.16		3.68	.6			6		½	FC 29
		West Channel Div. #2												
	2-9	J. A. Lee	14.	12.70	3.71		47.21	.6			7		1/3	FC 29
		Maple Tree Canyon Diversion												
	2-9	J. A. Lee	11.	6.30	3.10		19.66	.6			11		½	FC 29

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
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File No.

Discharge measurements of San Antonio Spreading Grounds
(Miscellaneous Measurements)
near Claremont, during the year ending September 30, 19 32

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G.Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Maple Tree Canyon Diversion												
	2-13	J. A. Lee	10.	6.65	2.20	1.00	14.58	.6			7		½	FC 29
		Base Line Diversion												
	2-13	J. A. Lee	3.	1.10	1.63	0.30	1.80	.6			3		½	FC 29
		Diversion #1												
	2-13	J. A. Lee	15.	8.00	4.90	0.64	39.23	.6			8		½	FC 29
		Diversion #1												
	2-10	J. A. Lee	14.	11.70	5.98	1.10	69.96	.6			7		1/3	FC 29
		Diversion #1												
	2-10	J. A. Lee	14.	10.60	5.51	0.96	58.43	.6			7		1/3	FC 29
		Main Channel above Diversion #2												
	2-10	J. A. Lee	17.	11.80	2.04		24.08	.6			8		1/3	FC 29
		Diversion #2												
	2-17	J. A. Lee	6.	3.65	2.63	0.28	9.63	.6			6		½	FC 29
		Diversion #1												
	2-18	J. A. Lee	15.	6.90	3.49	0.62	24.06	.6			8		1/3	FC 29
		Diversion #1												
	2-17	J. A. Lee	15.	7.40	3.82	0.60	28.28	.6			8		½	FC 29
		Main Channel above Div. #2												
	2-11	J. A. Lee	17.	11.00	1.93		21.24	.6			8		1/3	FC 29
		Main Channel below Div. #1												
	2-11	J. A. Lee	18.	10.20	1.57		16.00	.6			9		½	FC 29
		Diversion #1												
	2-11	J. A. Lee	14.	10.00	5.83	0.89	58.33	.6			7		½	FC 29
		West Channel Div. #3												
	2-13	J. A. Lee	10.	7.30	2.56	0.30	18.75	.6			5		½	FC 29
		200' below Diversion #1												
	2-12	J. A. Lee	18.	10.90	1.40		15.13	.6			9		1/8	FC 29

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of San Antonio Spreading Grounds
(Miscellaneous Measurements)
near Claremont, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Main Channel Below Div. #2												
	2-9	J. A. Lee	6.	2.45	1.90		4.56		.6		6		1/4	FC 29
		Main Channel Below Div. #1												
	2-9	J. A. Lee	19.	15.30	3.46		53.08		.6		6		1/3	FC 29
		East Channel Div. #2												
	2-25	Lee & Martin	4.	1.27	1.91	0.07	2.43		.6		4		1/6	FC 29
		East Channel Div. #2												
	2-27	Lee & Martin	4.	.90	1.00	0.07	.92		.6		4		1/3	FC 29
		West Channel Div. #2												
	2-25	Lee & Martin	8.	2.35	1.14	0.18	2.68		.6		8		1/3	FC 29
		West Channel Div. #2												
	2-27	Lee & Martin	8.	1.60	1.00	0.20	1.62		.6		4		1/3	FC 29
		West Channel Div. #2												
	3-3	Lee & Martin	7.	2.45	1.30	0.18	3.33		.6		7		1/4	FC 29
		Diversion #1												
	2-23	Lee & Martin	15.	5.30	3.17	0.51	16.85		.6		8		1/4	FC 29
		Diversion #1												
	2-25	Lee & Martin	15.	4.80	4.07	9.53	19.56		.6		8		1/4	FC 29
	2-27	Diversion #1 Lee & Martin	15.	5.50	3.87	0.56	21.29		.6		8		1/4	FC 29
		Diversion #1												
	3-1	Lee & Martin	15.	6.50	2.92	0.59	19.01		.6		8		1/4	FC 29
		Diversion #1												
	3-3	Lee & Martin	15.	7.10	3.8	0.64	27.38		.6		8		1/4	FC 29
		Diversion No.1												
	3-5	Lee & Martin	15.	7.10	3.7	0.66	26.52		.6		8		1/3	FC 29
		Diversion #1	15.	6.60	4.0	0.70	26.73		.6		8		1/4	FC 29
	3-10	Lee & Martin Diversion #1												
	3-10	Lee & Martin	15.	6.35	4.0	0.70	25.53		.6		8		1/4	FC 29

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FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of San Antonio Spreading Grounds
(Miscellaneous Measurements)
near Claremont, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Diversion #1												
	3-12	Lee & Martin	15.	6.60	4.0	0.68	26.64		.6		8		1/3	FC 29
		Diversion #1												
	3-15	Lee & Martin	15.	6.50	4.47	0.70	29.06		.6		8		1/4	FC 29
		Diversion #1												
	3-19	Lee & Martin	15.	6.39	4.08	0.66	25.66		.6		8		1/3	FC 29
		Diversion #1												
	3-22	Lee & Martin	15.	5.70	4.50	0.65	25.65		.6		8		1/4	FC 29
		Diversion #1												
	3-26	Lee & Martin	15.	6.40	4.15	0.63	26.57		.6		8		1/4	FC 29
		Diversion #1												
	3-29	Lee & Martin	15.	6.35	4.35	0.65	28.65		.6		8		1/6	FC 29
		Diversion #1												
	4-2	Lee & Martin	15.	6.00	4.08	0.57	24.50		.6		8		1/3	FC 29
		Diversion #1												
	4-9	Lee & Martin	15.	4.90	4.25	0.55	20.82		.6		8		1/3	FC 29
		Diversion #1												
	4-16	Lee & Martin	15.	4.99	3.63	0.56	19.14		.6		8		1/3	FC 29
		Diversion #1												
	4-30	Lee & Martin	15.	3.04		0.31	8.66		.6		8		1/3	FC 29
		Diversion #1												
	5-7	Lee & Martin	15.	1.95		0.34	3.34		.6		8		1/6	FC 29
		Sycamore Div.												
	2-23	Lee & Martin	6.	2.30	1.70	0.40	3.72		.6		6		1/4	FC 29
		Sycamore Div.												
	2-25	Lee & Martin	4.	1.50	2.07	0.27	3.11		.6		4		1/3	FC 29
		Sycamore Div.												
	2-27	Lee & Martin	5.	1.35	1.33	0.25	1.80		.6		5		1/4	FC 29

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File No.

Discharge measurements of San Antonio Spreading Grounds
(Miscellaneous Measurements)
near Claremont, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Base Line Div.												
	4-2	Lee & Martin	4.	1.20	1.01	0.20	1.23		.6		4		1/4	FC 29
		Base Line Div.												
	4-9	Lee & Martin	4.	1.20		0.16	1.04		.6		4		1/4	FC 29
		Base Line Div.												
	4-16	Lee & Martin	3.	.65	.34	0.06	0.22		.6		3		1/3	FC 29
		Base Line Div.												
	4-30	Lee & Martin	4.	1.05		0.15	0.98		.6		4			FC 29
		Base Line Div.												
	5-7	Lee & Martin	4.	1.10		0.20	1.22		.6		4		1/3	FC 29

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File No.

Discharge measurements of San Antonio Spreading Grounds
(Miscellaneous Measurements)
near Claremont, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Sycamore Div.												
	3-8	Lee & Martin	8.	2.40	1.2	0.30	2.97		.6		8		1/4	FC 29
		Sycamore Div.												
	3-13	Lee & Martin	5.	1.90	1.6	0.39	3.01		.6		8		1/6	FC 29
		Sycamore Div.												
	5-4	Lee & Martin	4.	1.35		0.14	0.92		.6		4		1/3	FC 29
		Base Line Div.												
	2-23	Lee & Martin	4.	.70	1.00	0.15	0.73		.6		4		1/12	FC 29
		Base Line Div.												
	2-25		2.	.30	1.00	0.06	0.30		.6		2		1/6	FC 29
		Base Line Div.												
	3-3	Lee & Martin	7.	1.85	1.5	0.31	2.54		.6		7		1/6	FC 29
		Base Line Div.												
	3-8	Lee & Martin	3.	0.70	0.8	0.10	0.58		.6		3		1/6	FC 29
		Base Line Div.												
	3-10	Lee & Martin	4.	1.00	1.1	0.20	1.11		.6		4		1/4	FC 29
		Base Line Div.												
	3-13	Lee & Martin	4.	.95	1.0	0.15	.85		.6		4		1/6	FC 29
		Base Line Div.												
	3-15	Lee & Martin	4.	.95	0.85	0.13	.81		.6		4		1/4	FC 29
		Base Line Div.												
	3-19	Lee & Martin	4.	.95	0.91	0.15	.87		.6		4		1/4	FC 29
		Base Line Div.												
	3-22	Lee & Martin	4.	1.35	1.22	0.20	1.53		.6		4		1/4	FC 29
		Base Line Div.												
	3-26	Lee & Martin	4.	.93	0.92	0.16	0.85		.6		4		1/3	FC 29
		Base Line Div.												
	3-29	Lee & Martin	4.	1.15	.76	0.16	.88		.6		4		1/12	FC 29

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File No.

Discharge measurements of Various Streams and Tributaries

Big Tujunga Creek during the year ending September 30, 19 32

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	
1932	Big Tujunga Creek 500' below Dam													
4/1	Turner		8.8	5.29	.63		3.32		.6		6		1/6	FC 30
	Big Tujunga Creek 125' below Dam													
1/21	Browne & Irwin		11.	6.37	3.60		22.93		.6		12		¼	FC 24
	Big Tujunga Creek 75' below Dam #1													
1/21	Browne & Irwin		5.	3.25	2.68		8.74		.6		5		¼	"
	Riverside Drive Big Tujunga Wash													
2/1	Luce & Lovelace		48.0	16.12	3.99		64.29		.6		15		¼	FC 13
	Big Tujunga Creek Mouth of Canyon													
2/2	Waddicor-Turner		29.5	22.35	3.40		75.79		.6		10		1/6	FC 27
	4 Diversion Ditches - Big Tujunga - Lower Tujunga Below Dam #1													
5/10							2.37							
	Big Tujunga Creek 100' below 1st Crossing													
1/22	Irwin		18.	9.0	2.52		22.75		.6		9		1/8	8932
	Ybarro Ranch Big Tujunga Creek													
7/9	Irwin						.23		Weir					
	Big Tujunga Creek below Sherman Way													
12/25	Luce &Lovelace		8.0	4.21	3.39		14.21		.6		8		1/6	FC 13
	Big Tujunga Creek Mouth of Canyon													
1/29	Luce		15.0	5.02	1.61		8.08		.6		9		1/10	"
	Big Tujunga Creek 400' above Fox Creek													
3/18	Moon		15.5	11.25			16.55		.6		8		¼	FC 19
	Big Tujunga Creek													
4/2	Turner		2.0	.48	.87		0.42		.6		4		1/12	FC 30
	Big Tujunga Creek													
4/1	Turner		7.0	2.88	.47		1.36		.6		7		1/6	FC 30
	Big Tujunga Creek													
4/1	Turner						0.033		Flume					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries

Big Tujunga Creek ____, during the year ending September 30, 19 32

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	
1932	Vasquez Creek near Big Tujunga Creek													
4/1	Turner		2.0	.45	.38		0.17		.6		4		1/12	FC 30
	Sister Elsie Creek near Big Tujunga Creek													
4/1	Turner		2.0	.28	.36		0.10		.6		4		1/12	"
	Fusier Creek near Big Tujunga Creek													
4/1	Turner						0.047		Flume					
	Clear Creek near Big Tujunga Creek													
4/1	Turner		4.0	.94	.65		0.61		.6		4		1/12	"
	Gold Creek near Big Tujunga Creek													
5/3	Turner		1.8	.39	.33		0.13		.6		4		1/12	"
	Water Canyon near Big Tujunga Creek													
'l	Turner		0.8	.40			0.44		.6		2		1/12	"
	Trail Canyon Station above Big Tujunga Creek													
5/3	Turner		4.5	1.89	.52		0.98		.6		5		1/6	"
	Sister Elsie Creek above Big Tujunga Creek													
5/3	Turner		1.8	.23	.48		0.11		.6		4		1/6	"
	Vogal Canyon Creek above Big Tujunga Creek													
5/3	Turner						0.047		Flume					
	Clear Creek Station above Big Tujunga Creek													
5/3	Turner		4.0	.75	.69	0.32	0.52		.6		7		1/6	"
	Fusier Canyon above Big Tujunga Creek													
5/3	Turner						0.02		Vol.					
	Vasquez Canyon above Big Tujunga Creek													
5/3	Turner						0.12		V.Weir					
	Water Canyon above Big Tujunga Creek													
5/3	Turner						0.16		V.Weir					
	Maple Canyon above Big Tujunga Creek													
5/3	Turner-Browne						0.064		Flume					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries

Big Tujunga Creek ____, during the year ending September 30, 19 32

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	
1932	Fall Creek above Big Tujunga Creek													
5/20	Irwin		2.2	.26	.6		.156		.6		5			FC2
	Big Tujunga Creek above 1st Crossing													
2/6	Browne Jr.		36	20.04	2.70		53.99		.6		9		¼	FC 24
	Big Tujunga Creek 300' above Laurel Canyon Road													
2/12	Luce & Waddicor		35.0	22.35	4.24		94.83		.6		10		1/6	FC 13
	Johnson Ranch Diversion from Big Tujunga Creek													
9/23	Irwin						.58		Weir					
	Big Tujunga Creek 200' below Fox Creek													
2/22	Moon & Brown		32.5	25.70	2.87		73.63		.6		9		¼	FC 19
	Big Tujunga Creek 150' below Fox Creek Dam #1 Inflow													
2/19	Moon		30	26.00	2.56		66.63		.6		9		¼	"
	L.A.W.D. Ranch Diversion Big Tujunga Creek													
7/9	Irwin						.70		W.Weir					
	Fall Rock Creek above Big Tujunga Creek Edison Road													
7/1	Irwin						.25		V.Weir					
	Big Tujunga Creek 150' below Fox Creek													
3/3	Moon		29.5	25.06	2.13		54.00		.6		12		¼	"
	Monte Vista W. Dept. Diversion Big Tujunga Creek													
6/21	Irwin						.71		Weir					
	Ybarra's Diversion Big Tujunga Creek													
6/21	Irwin						.12		Weir					
	L.A.W.D. Ranch Diversion Big Tujunga Creek													
6/21	Irwin						.68		Weir					
	Monte Vista W. Co. Diversion Big Tujunga Creek													
7/9	Irwin						.55		Weir					
	Johnson Diversion from Big Tujunga Creek													
7/9	Irwin						.57		V.Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries

Big Tujunga Creek ____, during the year ending September 30, 19 32

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	
1932	Johnson Diversion from Big Tujunga Creek													
5/14	Irwin		3.	1.01	1.33		1.34		.6		6		1/6	FC 2
	Big Tujunga Creek above 1st Crossing													
2/4	Browne & Irwin		36.	15.44	2.92		45.11		.6		9		1/3	FC 24
	Big Tujunga Creek above 1st Crossing													
2/5	Irwin		36.	15.55	3.43		53.36		.6		9		1/3	893
	Big Tujunga Creek Crossing at Mouth of Canyon													
4/21	Luce & Waddicor		19.3	11.73	1.29		15.20		.6		10		1/6	FC 13
	Fall Creek above Big Tujunga Creek Edison Road													
5/24	Irwin						.15		V.Weir					
	Monte Vista W. Co. Diversion from Big Tujunga Creek													
5/27	Irwin		2.7	.72	.97		.70		.6		6		1/6	FC 2
	Ybarra's Diversion from Big Tujunga Creek													
5/27	Irwin		1.5	.25	.68		.17		.6		3		1/6	FC 2
	L.A.W.D. Ranch Diversion from Big Tujunga Creek													
5/27	Irwin		3.2	1.56	.13		2.12		.6		7		1/6	FC 2
	Johnson Ranch Diversion from Big Tujunga Creek													
5/27	Irwin		1.8	.64	1.00		.65		.6		4		1/6	"
	Ybarra's Diversion from Big Tujunga Creek													
5/21	Irwin		2.0	.24	.37		.09		.6		4			FC 2
	Monte Vista W. Diversion from Big Tujunga Creek													
5/21	Irwin		2.5	.72	.84		.61		.6		5			FC 2
	L.A.W.D. Ranch Diversion from Big Tujunga Creek													
5/21	Irwin		3.0	1.46	.13		1.86		.6		6			FC 2
	Johnson Diversion from Big Tujunga Creek													
5/21	Irwin		1.5	.62	.80		.50		.6		3			"
	Big Tujunga Creek at Laurel Canyon Road													
1-22	Luce						.11		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries

Big Tujunga Creek, during the year ending September 30, 19

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
1932		Fusier Canyon above Big Tujunga Creek												
5/10		Turner					0.02		Vol.					
		Vasquez Above Big Tujunga Creek												
5/10		Turner					0.10		V.Weir					
		Water Canyon above Big Tujunga Creek												
5/10		Turner					0.13		V.Weir					
		Vogal Canyon Above Big Tujunga Creek												
5/10		Turner					0.13		Flume					
		Sister Elsie Creek above Big Tujunga Creek												
5/10		Turner	1.8	.21	.43			.6			4		1/12	FC 30
		Gold Canyon Above Big Tujunga Creek												
5/10		Turner	1.8	.38			0.13	.6			4		1/12	"
		Riverside Drive big Tujunga Wash												
12/28		Luce & Lovelace	44.0	14.64	3.41		50.02	.6			11		1/4	FC 13
		Monte Vista Water Co. Diversion from Big Tujunga Creek												
9/23		Irwin					1.00		Weir					
		Ybarro's Diversion from Big Tujunga Creek												
9/30		Irwin					.35		Weir					
		Johnson's Ranch Diversion from Big Tujunga Creek												
9/30		Irwin					.66		Weir					
		Monte Vista W. Co. Diversion from Big Tujunga Creek												
9/30		Irwin					1.12		Weir					
		L.A.W.D. Ranch Diversion from Big Tujunga Creek												
9/30		Irwin					.80		Weir					
		Monte Vista W. Company from Big Tujunga Creek												
8/12		Irwin					1.00		Weir					
		Ybarro's Diversion from Big Tujunga Creek												
8/12		Irwin					.37		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries

Big Tujunga Creek, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
1932		Fall Creek above Big Tujunga Creek Edison Road												
7-8		Irwin					.14		V.Weir					
		L.A.W.D. Diversion Big Tujunga Creek												
6-11		Irwin					.71		V.Weir					
		Johnson Diversion Big Tujunga Creek												
6-11		Irwin					.50		V.Weir					
		Monte Vista V. Co. Diversion Big Tujunga Creek												
6-11		Irwin					.52		V.Weir					
		Johnson Ranch Diversion Big Tujunga Creek												
6-18		Irwin					.58		V.Weir					
		Monte Vista V. Co. Diversion from Big Tujunga Creek												
6-18		Irwin					.66		V.Weir					
		Ybarra's Diversion Big Tujunga Creek												
6-18		Irwin					.48		V.Weir					
		L.A.W.D. Ranch Diversion Big Tujunga Creek												
6-18		Irwin					.74		V.Weir					
		Ybarra's Diversion Big Tujunga Creek												
6-25		Irwin					.14		V.Weir					
		Fall Creek above Big Tujunga Creek Edison Road												
6-17		Irwin					.26		V.Weir					
		Johnson Diversion Big Tujunga Creek												
6-21		Irwin					.63		V.Weir					
		Ybarra's Diversion from Big Tujunga Creek												
7-2		Irwin					.36		V.Weir					
		Johnson Diversion at Mouth from Big Tujunga Creek												
7-2		Irwin					.63		V.Weir					
		Monte Vista W. Co. Diversion from Big Tujunga Creek												
7-2		Irwin					.63		V.Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries

Big Tujunga Creek, during the year ending September 30, 1932

No.	Date	Made by	Width (Feet)	Area of section (Sq.-ft.)	Mean velocity (ft. per sec.)	Gage height (Feet)	Discharge (Sec.-ft.)	rating (Percent diff.)	Method	Coef.	Meas. secs. (No.)	G. Ht. change (Total)	Time (Hours)	Meter No.
1932		Monte Vista W. Co. Diversion from Big Tujunga Creek												
8/18		Irwin					.66		V.Weir					
		Ybarro's Diversion from Big Tujunga Creek												
7/30		Irwin					.28		V.Weir					
		Monte Vista W. Co. Diversion from Big Tujunga Creek												
7/30		Irwin					.84		V.Weir					
		L.A.W.D. Ranch Diversion From Big Tujunga Creek												
7/30		Irwin					.74		V.Weir					
		Johnson Diversion from Big Tujunga Creek												
7/30		Irwin					.55		V.Weir					
		Big Tujunga Creek 1st Bedrock below Narrows												
8/4		Irwin					.10		V.Weir					
		Fall Creek above Big Tujunga Creek												
7/15		Irwin					.04		V.Weir					
		Monte Vista W. Co. Diversion from Big Tujunga Creek												
7/16		Irwin					.62		V.Weir					
		L.A.W.D. Diversion from Big Tujunga Creek												
7/16		Irwin					1.04		Weir					
		Ybarras Diversion from Big Tujunga Creek												
7/16		Irwin					43		Weir					
		Johnson Diversion from Big Tujunga Creek												
7/16		Irwin					68		Weir					
		Big Tujunga Creek 1st. bedrock below Narrows												
7/8		Irwin	3.0	3.05	.25		79	.6			5		1/3	FC 2
		Big Tujunga Creek 1st bedrock below Narrows												
7/15		Irwin	3.0	2.44	.33		.81	.6			6			FC 2
		Monte Vista W. Co. Diversion from Big Tujunga Creek												
5/14		Irwin	2.3	.70	.93		.65	.6			5		1/6	FC 2
1932		Monte Vista W. Co. Diversion from Big Tujunga Creek												
7/16		Irwin					.71		V.Weir					
		City of L.A.W.D. Diversion from Big Tujunga Creek												
7/16		Irwin					.48		V.Weir					
		Ybarro's Ranch Diversion from Big Tujunga Creek												
7/16		Irwin					.22		V.Weir					
		Johnson's Diversion from Big Tujunga Creek												
8/6		Irwin					.48		V.Weir					
		L.A.W.D. Ranch Diversion from Big Tujunga Creek												
8/6		Irwin					.63		V.Weir					
		Monte Vista W. Co. Diversion from Big Tujunga Creek												
8/6		Irwin					.71		Weir					
		Johnson Diversion from Big Tujunga River Creek												
7/16		Irwin					.55		V.Weir					
		Monte Vista W. Co. Diversion from Big Tujunga Creek												
7/23		Irwin					.74		V.Weir					
		L.A.W.D. Diversion from Big Tujunga Creek												
7/23		Irwin					.84		V.Weir					
		Johnson Diversion from Big Tujunga Creek												
7/23		Irwin					.55		V.Weir					
		Ybarro's Diversion from Big Tujunga Creek												
7/23		Irwin					.11		V.Weir					
		Johnson Diversion from Big Tujunga Creek												
8/18		Irwin					.50		V.Weir					
		L.A.W.D. Ranch Diversion from Big Tujunga Creek												
8/18		Irwin					.60		V.Weir					
		Ybarro's Diversion from Big Tujunga Creek												
8/18		Irwin					.35		V.Weir					
		Sunland Wash at Foothill Blvd. Sunland												
2-8		Luce & Waddicor	3.0	0.57	2.10		1.20	.6			6		1/12	FC 13
		Sunland Wash at Foothill Blvd. Sunland												
2-8		Luce & Waddicor	10.0	1.94	4.36		8.46	.6			10		1/6	FC 13
		Sunland Wash at Foothill Blvd. Sunland												
2-9		Luce & Conway	12.5	3.09	5.60		17.38	.6			10		1/12	FC 13

Discharge measurements of Various Streams and Tributaries

at Big Tujunga Creek, during the year ending September 30, 19 32

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	
1932		Big Tujunga Creek above First Crossing												
	2/3	Moon & Irwin	35.0	20.80	3.03		63.18	.6			9		1/3	FC 19
		Ybarro's Diversion from Big Tujunga Creek												
	8/25	Irwin					.37		Weir					
		Monte Vista W. Co Diversion from Big Tujunga Creek												
	8/16	Irwin					1.12		Weir					
		Ybarro's Diversion from Big Tujunga Creek												
	8/16	Irwin					.35		Weir					
		City of L.A.W.D. Diversion from Big Tujunga Creek												
	8/12	Irwin					1.04		Weir					
		Johnson's Diversion from Big Tujunga Creek												
	8/12	Irwin					.63		Weir					
		Johnson's Diversion from Big Tujunga Creek												
	8/16	Irwin					.60		Weir					
		City of L.A.W.D. Diversion from Big Tujunga Creek												
	8/16	Irwin					1.24		Weir					
		Big Tujunga Creek 150' below Fox Creek												
	3/11	Moon	26.0	18.0	1.66		29.93	.6			11		½	FC 19
		Fall Creek above Big Tujunga Creek												
	6/24						.20		Weir					
		Big Tujunga Creek Mouth of Canyon												
	12/26	Luce & Lovelace	12.0	5.53	1.59		8.83	.6			10		1/6	FC 13
		Ybarro's Ranch from Big Tujunga Creek												
	9/16	Irwin					.06		Weir					
		Ybarro's Diversion from Big Tujunga Creek												
	9/23	Irwin					.04		Weir					
		L.A.W.D. Ranch Diversion from Big Tujunga Creek												
	9/23	Irwin					1.20		Weir					
		L.A.W.D. Ranch Diversion at Mouth from Big Tujunga Creek												
	7/2	Irwin					.74		Weir					
		Ybarra's Diversion from Big Tujunga Creek												
	6/11	Irwin					.33		"					
		Johnson Ranch Diversion from Big Tujunga Creek												
	9/16	Irwin					.60		"					
		Johnson's Ranch Diversion from Big Tujunga Creek												
	8/25	Irwin-Patterson	1.4	.86	.70		.64	.6			3			FC 2
		L.A.W.D. Ranch Diversion from Big Tujunga Creek												
	9/16	Irwin					1.12		Weir					
		Monte Vista W. Co. Diversion from Big Tujunga Creek												
	9/16	Irwin					1.00		Weir					
		Monte Vista W. Dept. Diversion Big Tujunga Creek												
	6/25	Irwin					.43		Weir					
		Johnson Diversion from Big Tujunga Creek												
	6/25	Irwin					.60		Weir					
		L.A.W.D. Ranch Diversion from Big Tujunga Creek												
	6/25	Irwin					.66		Weir					
		Ybarra's Diversion from Big Tujunga Creek												
	6/4	Irwin					0.279		Weir					
		Ybarra's Ranch Diversion from Big Tujunga Creek												
	6/7	Irwin					.33		Weir					
		Johnson Diversion from Big Tujunga Creek												
	6/4	Irwin					.576		Weir					
		Monte Vista W. Co. Diversion from Big Tujunga Creek												
	6/4	Irwin					.63		Weir					
		Fall Creek above Big Tujunga Creek Edison Road												
	6/3	Irwin					.35		Weir					
1932		Monte Vista W. Co. Diversion from Big Tujunga Creek												
	6/7	Irwin					.69		Weir					
		Johnson Diversion from Big Tujunga Creek												
	6/7	Irwin					.60		Weir					
		Hansen Canyon at Mouth												
	6/9	Irwin				2.14	.016		Weir					
		L.A.W.D. Diversion from Big Tujunga Creek												
	6/7	Irwin					.77		Weir					
		L.A.W.D. Diversion from Big Tujunga Creek												
	6/4	Irwin					.70		Weir					
		L.A.W.D. Diversion from Big Tujunga Creek												
	8/25	Irwin	3.0	1.15	1.05		1.21	.6			6		1/6	FC 2
		Monte Vista Water Company Diversion Big Tujunga Creek												
	8/25	Irwin-Patterson	3.0	.87	1.3		1.13	.6			6		1/6	FC 2
		Big Tujunga Creek Dam #1 Inflow												
	11/25	Irwin	2.0	.88	1.44		1.27	.6			4			FC 24

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurement of Live Oak Creek including Inflow to and Outflow from

at Dam, during the year ending September 30, 19 32

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	
1932		Live Oak Creek at Live Oak Dam 10' above Bridge above Reservoir												
	2/9	Ash	13.	19.79	1.08		21.45	.6			9		¼	622
		Live Oak Creek Inflow to Reservoir												
	2/11	Ash	5.	3.19	.97		3.09	.6			5			622
		Live Oak Creek Inflow to Reservoir												
	3/12	Ash	5.7	2.03	.96	82.55	1.96	.6			5		1/6	"
		Live Oak Creek Inflow to Dam												
	2/13	Ash	4.3	1.35	1.31		1.77	.6			4		¼	"
		Live Oak Creek Inflow to Dam												
	2/14	Ash	5.5	1.69	1.48	14.81	2.49	.6			5		¼	622
		Live Oak Creek Inflow to Reservoir												
	2/16	Ash	7.	3.66	1.04		3.79	.6			6		¼	622
		Live Oak Creek Inflow to Reservoir												
	2/17	Ash	10.3	4.68	1.7		7.95	.6			9		1/6	622
		Live Oak Creek Inflow to Reservoir												
	3/4	Ash	1.2	.33	.79		0.26	.6						622
		Live Oak Creek ½ mi. above Dam												
	3/4	Ash	.80	.22	1.04		0.23	.6			2			622
		Live Oak Creek ½ Mi. above Dam												
	3/11	Ash	1.1	.26	.35		0.09	.6			2			622
		Live Oak Creek at Dam- Inflow												
	3/22	Ash					.042		Weir					
		Live Oak Creek at Dam "												
	3/22	Ash					.046		Weir					
		Live Oak Creek at Dam "												
	3/25	Ash					.038		Weir					
		Live Oak Creek at Dam "												
	4/1	Ash					.0108		Weir					
		Live Oak Creek												
	4-8	Ash & Johnson					0.014		Weir					

F. C. Dist.—Form 104—500—2-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Live Oak Creek including inflow and outflow ~~Oak Creek~~

at from Dam, during the year ending September 30, 19 32

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	
1932		Live Oak Creek Near Outflow from Dam												
	2/12	Ash	19.	9.15	1.25		11.46	.6			10		1/4	622
		Live Oak Creek at Outflow from Reservoir												
	2/13	Ash	5.2	2.37	.92	14.81	2.18	.6			6		1/6	622
		Live Oak Creek Outflow of Dam												
	2/13	Ash	8.6	6.25	.86	14.81	5.41	.6			8		1/4	622
		Live Oak Creek Near Outflow from Dam												
	2/15	Ash	8.5	5.00	.96	14.91	4.81	.6			5		1/4	622
		Live Oak Creek Near Actual Outflow from Dam												
	2/17	Ash	5.7	4.05	1.36	14.80	5.53	.6			9			622
		Live Oak Creek Near Williams Ave.												
	2/17	Ash	6.3	2.00	2.26		5.52	.6			6		1/4	622
		Live Oak Creek near Outflowfrom Dam												
	2/17	Ash	5.9	4.91	2.14	14.80	10.57	.6			6		1/4	622
		Live Oak Creek Near Outflow from Dam												
	2/17	Ash	7.5	4.79	1.69		8.10	.6			7		1/4	622
		Live Oak Creek Below Actual Outflow												
	2/18	Ash	6.8	3.88	1.58		6.13	.6			6		1/4	622
		Live Oak Creek 1000' below Dam												
	2/18	Ash	7.	3.26	1.56		5.08	.6			7		1/4	622
		Live Oak Creek at Bridge in Mouth of Canyon												
	2/18	Ash	5.8	2.84	1.80		5.11	.6			8		1/4	622
		Live Oak Creek about 2 mi. below Canyon												
	2/23	Ash	3.8	.52	.90		.47	.6			6		1/4	622
		Live Oak Creek 50' below Outflow from Dam												
	2/23	Ash	2.3	.78	.80		.63	.6			4		1/6	622
		Live Oak Creek 1000' below Dam												
	3/4	Ash	2.0	.37	.30		.12	.6			4			622

F. C. Dist. Form 104 BK 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Live Oak Creek including Inflow to and Outflow

~~at~~ ~~near~~ from Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Live Oak Creek 1000' below												
	3/4	Ash	2.0	.37	.30		0.12		.6		4			622
		Live Oak Creek 700' below Dam												
	3/11	Ash	1.3	.43	.49		0.21		.6		4			622
		Live Oak Creek 700' Below Dam												
	3/18	Ash					073		Weir					
		Live Oak Creek at Outflow from Dam												
	4/1	Ash-Johnson	2.55	1.00	.90		.90		.6		4		½	622
		Live Oak Creek at Outflowfrom Dam												
	4/4	Ash	4.2	1.71	.84		1.44		.6		6		1/6	622
		Live Oak Creek at Outflow from Dam												
	4/8	Ash	3.3	1.71	1.36		7.32		.6		6		1/6	FC 31
		Live Oak Creek at Outflow from Dam												
	4/15	Turner	4.0	1.68	.87		1.46		.6		8		1/6	FC 30
		Live Oak Creek at Outflow from Dam												
	4/22	Turner	4.51	1.90	.65		1.25		.6		9		1/6	"
		Live Oak Creek Inflow to Well Diversion												
	4/22	Turner	.8	.15	1.00		0.15		.6		2		1/12	"
		Live Oak Creek Inflow to Old Well												
	4/22	Turner	1.2	.14	.28		0.04		.6		2		1/12	"
		Live Oak Creek at Station 31												
	4/22	Turner	5.5	1.89	.53		1.01		.6		9		1/6	"
		Live Oak Creek Inflow to Spreading Grounds at Diversion												
	4/22	Turner	3.0	.58	.77		.45		.6		6		1/12	"
		Live Oak at Diversion to Old Well												
	4/29	Turner					0.07		Flume					
		Live Oak Creek Outflow from Dam												
	4/29	Turner					0.26		Flume					
		Live Oak Creek Outflowfrom Dam												
	5/6	Turner-Doone					0.33		Flume					

F. C. Dist. Form 104 BK 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Little Rock Creek, Tributaries, and Diversions.

at
near , during the year ending September 30, 1932

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	
		Little Rock Creek 2nd. Crossing below Dam												
	3-1	Luce-Waddicor	47.5	30.6	4.70	4.37	96.98		.6		13		1/6	FC 13
		Little Rock Creek 2nd. Crossing below Dam												
	3-3	Luce-Waddicor	41.0	13.5	4.72	4.13	63.74		.6		14		1/6	FC 13
		Little Rock Creek ½ Mile below Dam												
	3-15	Luce-Waddicor	56.0	29.1	5.25	4.55	153.6		.6		12		1/6	FC 13
		Little Rock Creek Below Dam Spillway Discharge												
	3-28	Luce-Waddicor	41.0	15.9	3.40	4.18	54.2		.6		11		1/6	FC 13
		Little Rock Creek 2nd. Crossing below Dam												
		Santiago Creek 300' above Little Rock Creek												
	3-3	Luce-Waddicor	9.7	4.01	1.54		6.15		.6		8		1/12	FC 13
		Palmdale Diversion ½ Mi. below Dam												
	3-1	Luce-Waddicor	8.0	6.34	3.40		21.45		.6		7			FC 13

F. C. Dist. Form 104 BK 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries

~~at~~ ~~near~~ Little Tujunga Creek , during the year ending September 30, 1932

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	
		Kagel Canyon at Little Tujunga Road												
	2/8	Luce-Waddicor	9.2	2.53	5.00		12.63		.6		8		1/6	FC 13
		Little Tujunga Creek 1.6 mi. below Gold Creek												
	4-16	Luce	.84	.41	.10		.40		.6		5		1/12	FC 13
		Gold Creek .3 mi. above Mouth '49 en' Rock												
	7-23	Luce					.01		Weir					
		Gold Creek near Alder Creek												
	7-23	Luce					.005		Weir					

F. C. Dist. Form 104 BK 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries

~~at~~ ~~near~~ Little Tujunga Creek , during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Little Tujunga Creek at Mouth of Canyon												
	5-22	Luce	1.5	.16	.056		.09		.6		6		1/12	FC 13
		Little Tujunga Creek 1.6 mi. below Gold Creek												
	5-22	Luce	2.1	.35	.11		.40		.6		6		1/12	FC 13
		Little Tujunga Creek .9 mi. above Gold Creek												
	5-13	Luce					.017		Weir					
		Little Tujunga Creek .6 mi. below Gold Creek												
	5-22	Luce	1.5	.30	.05		.15		.6		3		1/12	FC 13
		Little Tujunga Creek Narrows .9 mi. above Gold Creek												
	5-22	Luce					.013		Weir					
		Little Tujunga Creek Mouth of Canyon												
	4-30	Luce	3.4	.53	.05		.27		.6		6		1/12	FC 13
		Little Tujunga Creek .6 mi. below Gold Creek												
	4-30	Luce	2.5	.60	.07		.41		.6		5		1/12	FC 13
		Little Tujunga Creek 1.6 mi. below Gold Creek												
	4-30	Luce & Luce	3.5	.62	.05		.34		.6		7		1/12	FC 13
		Little Tujunga Creek 100' above Buck Creek												
		Luce					.013		Weir					
		Little Tujunga Creek .6 mi. below Gold Creek												
	4-16	Luce	1.8	.80	.08		.76		.6		4		1/12	FC 13
		Little Tujunga Creek Narrows above LiveRock Creek												
	4-30	Luce					.03		Weir					
		Buck Canyon above Little Tujunga Creek												
	4-30	Luce					.005		Weir					
		Little Tujunga Creek Mouth of Canyon 2.6 mi. below Gold Creek												
	4-16	Luce	1.7	.29	.03		.11		.5		3		1/12	FC 13
		Little Tujunga Creek 1.6 mi. below Gold Creek												
	4-8	Luce	3.0	.68	1.16		.79		.6		6		1/12	FC 13
		Little Tujunga Creek Mouth of Canyon												
	4-8	Luce	.28	.63	.73		.46		.6		5		1/12	FC 13
		Little Tujunga Creek .6 mi. below Gold Creek												
	4-8	Luce	3.10	.75	.92		.69		.6		5		1/6	FC 13
		Buck Canyon above Little Tujunga Creek												
	4-16	Luce					.01		Weir					
		Little Tujunga Creek .9 mi. above Gold Creek Narrows												
	4-16	Luce					.03		Weir					
		Little Tujunga Creek Narrows above Liverock												
	4-8	Luce	2.0	.20			.03		.6		2		1/12	FC 13
		Gold Creek 25' above Alder Creek												
	4-1	Luce	3.60	0.66	0.92		0.61		.6		5		1/12	FC 13
		Buck Canyon above Little Tujunga Creek												
	4-8	Luce					.02		Weir					
		Little Tujunga Creek Mouth of Canyon												
	4-1	Luce	3.0	1.01	0.93		0.94		.6		6		1/12	FC 13
		Little Tujunga Creek 580' above Gold Creek												
	2-26	Luce & Lindsey	3.20	0.63	1.06		0.67		.6		5		1/12	FC 13
		Little Tujunga Creek Narrows												
	7-23	Luce					.02		Weir					
		Little Tujunga Creek Mouth of Canyon												
	5-13	Luce	3.0	.36	.06		.35		.6		5		1/12	FC 13
		Little Tujunga Creek 1.6 mi. below Gold Creek												
	5-13	Luce	3.3	.60	.06		.36		.6		6		1/12	FC 13
		Little Tujunga Creek at Narrows												
	1-29	Luce	1.80	0.08	0.50		0.04		.6		5		1/12	FC 13
		Little Tujunga Creek .6 mi. below Gold Creek												
	5-13	Luce	3.3	.78	.09		.77		.6		7		1/12	FC 13
		Alder Creek 10' above Gold Creek												
	5-13	Luce	1.8	.38	.03		.15		.6		4		1/12	FC 13
		Gold Creek 5 mi. above Mouth 50' above small dam												
	5-13	Luce	2.3	.56	.10		.61		.6		5		1/12	FC 13
		Gold Creek 25' above Alder Creek												
	5-13	Luce	1.8	.30	.13		.39		.6		4		1/12	FC 13
		Alder Creek 15' above Gold Creek												
	4-30	Luce & Luce	1.8	.31	.03		.10		.6		3		1/12	FC 13
		Gold Creek Above Alder Creek												
	4-30	Luce & Luce	2.4	.34	.08		.27		.6		5		1/6	FC 13
		Alder Creek 300' above Gold Creek												
	4-1	Luce	2.7	.51	.61		.31		.6		5		1/12	FC 13

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Big Rock Creek, Tributaries and Diversions

at
near , during the year ending September 30, 19 32

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	
1		Big Rock Creek 1000 ft. above South Fork												
	1-16	Luce					.15		Weir					
2		Big Rock Creek at Submerged Dam												
	1-16	Luce	10.0	3.20	2.15		6.77		.6		9			FC 13
3		Big Rock Creek at Mouth of Canyon												
	1-16	Luce-Lovelace	10.3	2.51	.82		2.05		.6		8		1/12	FC 13
4		Big Rock Creek at Llano Highway												
	2-22	Luce-Turner	25.5	4.62	1.87		8.68		.6		9			FC 13
5		Big Rock Creek at Llano Highway												
	2-27	Luce-Lindsay	20.5	5.72	2.74		15.62		.6		9		1/6	FC 13
6		Big Rock Creek - West Channel 1000' above South Fork												
	8-6	Luce	5.0	1.69	1.41		2.39		.6		6		1/12	FC 13
7		Big Rock Creek - Center Channel 1000' above South Fork												
	8-6	Luce	3.5	.62	1.28		.80		.6		6		1/12	FC 13
8		Big Rock Creek - East Channel 1000' above South Fork												
	8-6	Luce	2.5	1.11	2.55		2.84		.6		5		1/12	FC 13
9		Big Rock Creek - East Channel 1000' above South Fork												
	8-20	Luce	2.5	1.02	1.89		1.93		.6		5		1/12	FC 13
10		Big Rock Creek - West Channel 1000' above South Fork												
	8-20	Luce	4.9	1.49	1.22		1.83		.6		6		1/12	FC 13
11		Big Rock Creek - Center Channel 1000' above South Fork												
	8-20	Luce	2.7	.74			.54		.6		4		1/12	FC 13
12		Big Rock Creek 1000' above Mouth of South Fork												
	9-3	Luce & Bollinger (3 channels)					3.62		.6					FC 13
13		Big Rock Creek 1000' above Mouth of South Fork												
	9-14	Bollinger (3 channels)					2.15							
14		Tributary across Highway 1000' below U.S.G.S. Sta.-Big Rock Creek												
	1-30	Luce	2.0	.62	.45		.28		.6		5		1/12	FC 13

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Big Rock Creek, Tributaries and Diversions.

at
near , during the year ending September 30, 19 32

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	
29		Diversion #3 - Big Rock Creek												
	9-3	Bollinger	3.0	3.35	.87		2.92		.6		5		1/12	FC 13
30		Diversion #3 - Below Big Rock Creek 300' below Montes												
	9-3	Luce-Bollinger	3.4	6.19			3.26		.6		6		1/6	FC 13
31		Valyermo Creek - ½ Mi. below Valyermo Gate.												
	1-16	Luce					.09		Weir					
32		Valyermo Creek - ¼ Mi. below Valyermo Gate												
	1-30	Luce					.05		Weir					
33		Valyermo Creek at Highway - ½ Mi. below Valyermo Gate												
	3-9	Luce-Waddicor	3.4	.98	.68		.66		.6		6		1/12	FC 13
34		Valyermo Creek at Highway												
	7-16	Luce	2.8	.98	.56		.55		.6		6		1/12	FC 13
35		Valyermo Creek at Highway												
	8-6	Luce	2.8	1.03	.51		.53		.6		6		1/12	FC 13
36		Valyermo Creek at Highway												
	8-20	Luce	2.7	.78	.53		.42		.6		4		1/12	FC 13
37		Valyermo Creek - 200' above Big Rock Creek												
	8-27	Luce	2.0	.73	.61		.45		.6		4		1/12	FC 13
38		Spring at Highway near Ranger Station												
	1-16	Luce					.25		Weir					
39		Springs Highway near Ranger Station - Big Rock Creek												
	8-6	Luce	1.5	.46	.34		.16		.6		3		1/12	FC 13
40		Springs near Ranger Station												
	8-20	Luce	2.0	.58	.58		3.3		.6		4		1/12	FC 13
41		Springs at Highway near Ranger Station - Big Rock Creek												
	8-27	Luce	2.3	.86	.63		.55		.6		4		1/12	FC 13
42		Pallette below Weimer Div. 1 mi. above Big Rock Creek												
	8-6	Luce	3.3	.86	1.84		1.59		.6		6		1/12	FC 13

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Big Rock Creek, Tributaries and Diversions

at
near , during the year ending September 30, 19 32

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	
15		Diversion #1 Big Rock Creek												
	8-6	Luce	2.2	1.92	1.94		3.74		.6		5		1/12	FC 13
16		Diversion #1 Big Rock Creek												
	8-20	Luce	2.2	1.94	1.73		3.37		.6		5		1/12	FC 13
17		Diversion #1 - 50' below Big Rock Creek												
	8-27	Luce	2.2	1.86	2.20		4.11		.6		5		1/12	FC 13
18		Diversion #1 - Mouth of Canyon from Big Rock												
	9-14	Bollinger	2.1	1.66	2.41		4.00		.6		3		1/12	FC 10
19		Diversion #1 - 20' below Junction with Big Rock Creek												
	9-3	Bollinger	2.2	1.64	2.03		3.35		.6		5		1/12	FC 13
20		Diversion #2 - Big Rock Creek												
	8-6	Luce	2.9	.80	1.32		1.06		.6		5		1/12	FC 13
21		Diversion #2 - Big Rock Creek												
	8-20	Luce	2.2	.67	1.49		1.00		.6		5		1/12	FC 13
22		Diversion #2 - 50' below Big Rock Creek												
	8-27	Luce	3.3	.98	2.08		2.04		.6		5		1/12	FC 13
23		Diversion #2 - Below Big Rock Creek above Highway Bridge												
	9-3	Luce-Bollinger	2.3	.45	1.42		.64		.6		5			FC 13
24		Diversion #2 - Big Rock Creek												
	9-14	Bollinger	2.2	.33	1.43		.47		.6		3		1/12	FC 10
25		Diversion #3 - Big Rock Creek												
	7-16	Luce	3.5	5.34	.72		3.89		.6		6		1/12	FC 13
26		Diversion #3 - Big Rock Creek												
	8-6	Luce	3.8	6.08	.51		3.14		.6		6		1/12	FC 13
27		Diversion #3 - Big Rock Creek												
	8-20	Luce	3.8	5.17	.63		3.25		.6		5		1/12	FC 13
28		Diversion #3 - 20' below Big Rock Creek												
	8-27	Luce	3.7	4.15	.65		2.73		.6		6		1/12	FC 13

F. C. Dist. Form 104 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Big Rock Creek, Tributaries and Diversions

at
near , during the year ending September 30, 19 32

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	
43		Pallette Creek below Weimer Div. 1 Mi. above Mouth												
	8-20	Luce	3.2	.99	1.46		1.45		.6		6		1/12	FC 13
44		Pallette Creek below Diversion Dam												
	8-27	Luce	4.0	.72	1.51		1.09		.6		6		1/12	FC 13
45		Diversion #4 - Mouth of Canyon - Big Rock Creek												
	8-6	Luce	4.7	2.43	2.18		5.28		.6		7		1/12	FC 13
46		Diversion #4 - Big Rock Creek												
	8-20	Luce	4.5	2.20	1.73		3.82		.6		6		1/12	FC 13
47		Diversion #4 - 500' below Big Rock Creek												
	8-27	Luce	4.7	2.23	1.61		3.60		.6		6		1/12	FC 13
48		Diversion #4 - From Big Rock Ck. 1 Mi. below Pallette Creek												
	9-14	Bollinger	2.3	.75	3.01		2.26		.6		3		1/12	FC 10
49		Diversion - 200' below New Well - Mouth of Canyon												
	1-16	Luce					1.20		Weir					
50		Diversion #5 - 3000' below Old Well - Big Rock Creek												
	1-16	Luce	4.0	2.37	.55		1.32		.6		5		¼	FC 13
51		Diversion #5 - 500' below Big Rock Creek												
	8-10	Luce	4.1	3.7	2.53		8.02		.6		7		1/6	FC 13
52		Diversion #5 - Highway - Big Rock Creek												
	8-6	Luce	3.5	4.22	1.50		6.33		.6		5		1/12	FC 13
53		Diversion #5 - Big Rock Creek - Mouth of Canyon												
	8-20	Luce	3.2	3.29	.92		3.07		.6		6		1/12	FC 13
54		Diversion #5 - ½ Mi. below Big Rock Creek												
	8-27	Luce	3.2	3.02	.77		2.35		.6		5		1/12	FC 13
55		Spillway from Div. #5 - Big Rock Creek - 1000' below Old Well												
	1-30	Luce	2.7	.42	1.07		.45		.6		5		1/12	FC 13

F. C. Dist. Form 104 DK 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of San Dimas Dam

at Inflow and Outflow, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		San Dimas Ck. Gage above Reservoir												
2-8		Ash	13.2	15.86	3.31	3.46	52.64		.6		8		1/3	622
		San Dimas Ck. At Old Station above Reservoir												
2-15		Ash	14.3	9.61	1.73	2.73	16.68		.6		7		1/6	622
		San Dimas Ck. At Old Station above Reservoir												
2-19		Ash	14.25	10.71	1.88		20.89		.6		8		1/6	622
		San Dimas Ck. At Old Station above Reservoir												
2-23		Ash	14.5	9.95	1.54	2.71	15.32		.6		9		1/6	622
		San Dimas 100' below Dam												
1-8		Dalton	9.5	4.14	1.13		4.70		.6		9			622
		San Dimas Ck. Outflow at Dam												
2-5		Ash	10.5	7.11	2.19		15.55		.6		9			622
		San Dimas Ck. At Old Station above Reservoir												
2-5		Dalton-Ash	11.3	6.42	1.26	2.94	8.15		.6		7			622
		San Dimas Ck. At Puddingstone Diversion Dam												
2-8		Ash	17.	12.10	1.10	38.00	13.26		.6		8		1/3	622
		San Dimas Ck. At Puddingstone Diversion Dam												
2-9		Ash	16.5	18.34	3.35		61.04		.6		6		¼	622
		San Dimas Ck. About 50' below Dam												
2-9		Ash	20.3	20.18	3.62		72.80		.6		8		¼	
		San Dimas Ck. near reservoir												
2-9		Ash	21.5	41.69	5.08	3.60	211.74		.6		11			622
		San Dimas Creek Outlet from Puddingstone Diversion Dam												
2-15		Ash	12.3	5.32	1.14		6.05		.6		6		¼	622
		San Dimas Creek Near Puddingstone Diversion Dam												
2-16		Ash	22.	15.23	2.7	45.72	41.38		.6		10		1/3	622
		San Dimas Creek 1000' below Dam												
2-19		Ash	18.5	16.98	3.9		66.08		.6		17		¼	622
	1932	San Dimas Creek at Puddingstone Diversion Dam												
2/19		Ash	21.5	16.18	2.48	45.7	40.15		.6		11		5/12	622
		San Dimas Creek near San Dimas Dam												
2/23		Ash	8.	8.07	1.87		15.16		.6		8		¼	622
		San Dimas Creek near Puddingstone Diversion Dam												
2/23		Ash	18.5	15.98	2.58	43.4	41.31		.6		12		3/4	622
		San Dimas Creek near Puddingstone Diversion Dam												
2/26		Ash	10.2	6.08	1.42	39.	8.66		.6		7		1/6	622
		San Dimas Creek about 700' below Dam												
2/26		Ash	8.2	6.12	2.17		13.26		.6		6		¼	622
		San Dimas Creek 700' below Dam												
3/2		Ash	7.7	4.89	1.14		5.59		.6		8			622
		San Dimas 400' downstream from Dam												
3/4		Ash	7.8	4.37	.66		2.91		.6		6			622
		San Dimas 700' below Dam												
3/8		Ash	4.8	3.85	.61		2.36		.6		5			622
		San Dimas Creek near Dam												
4/1		Ash	6.0	4.28	.65	2.39	2.79		.6		7		¼	622
		San Dimas Creek near Dam at Tunnel												
4/2		Ash	3.3	2.03	.67		1.35		.6		5		¼	622
		San Dimas Creek at Inflow to pipe 100' below Station Control												
4/4		Ash	3.9	1.49	.89	0.357	1.33		.6				¼	622
		San Dimas Creek 600' from Dam												
4/4		Ash	3.2	1.18	1.11		1.31		.6		6		¼	622
		San Dimas Creek near Dam												
4/8		Ash	6.1	4.24	.62	2.38	2.64		.6		7		¼	FC 31
		San Dimas Creek 600' downstream from Dam												
4/8		Ash	3.15	1.83	1.42		2.60		.6		6		¼	FC 31
		San Dimas Creek at Outflow from Dam												
4/15		Turner	6.5	2.80	.92		2.57		.6		7		1/6	FC 30
		San Dimas Creek at Flow from Tunnel												
4/22		Turner					0.15		Flume					
		San Dimas Creek Opposite Caretaker's House												
4/22		Turner	7.0	3.27	.74		2.47		.6		7		1/6	FC 30
		San Dimas Creek Opposite Caretaker's House												
4/29		Turner	7.0	3.10	.74		2.30		.6		7		1/6	"
		San Dimas Creek in Venturi Flume												
5/6		Turner	2.8	1.59	1.02		1.62		.6		6		1/6	"
		San Dimas Creek 325' below Venturi Flume												
5/6		Turner	6.0	4.65	.50		2.32		.6		6		1/6	"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of San Dimas Creek - Inflow to and Outflow from Dam

at , during the year ending September 30, 1932

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	
		San Dimas Creek 325' Below Flume												
6/13		Turner	7.0	4.95	.41		2.15		.6		7		1/6	FC 30
		San Dimas Creek in Venturi Flume												
5.13		Turner	2.8	1.62	.99		1.61		.6		6		1/6	FC 30

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Sierra Madre Creek

at Inflow and Outflow to Dam, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Sierra Madre Creek above Sierra Madre Dam, about 100'												
2/22		Ash	4.2	1.61	1.31		2.12		.6		6		1/6	622
		Sierra Madre Creek about 200' above Dam												
2/25		Ash	3.0	1.61	0.87	29.25	1.40		.6		6		1/6	622
		Sierra Madre Creek ¼ Mi. above Dam												
3/11		Turner					.005		Weir					
		Sierra Madre Creek Below Dam												
2/1		Dalton	8.	2.18	1.22		2.66		.6		8			622
		Sierra Madre Creek 50' Below Dam												
2/20		Ash	4.1	.82	.88		.72		.6		8		1/6	622
		Sierra Madre Creek 50' Below Dam												
2/20		Ash	1.85	.46	1.37		.63		.6		4		1/4	622
		Sierra Madre Creek About 50' below Dam												
2/22		Ash	3.7	.73	.90		.66		.6		4		1/6	622
		Sierra Madre Creek 50' below Dam												
2/25		Ash	1.4	.28	.68		.19		.6		4		1/12	622
	1932	Little Santa Anita Creek at Santa Anita Avenue												282
2/13		Lindsay	5.50	1.83	1.10	.05	2.02		.6		6		1/12	853

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries

at San Gabriel Canyon, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		200' Above Mouth of Devil's Canyon												
1-21		Delaney	8.	6.59	.52		3.43		.6		7		1/6	FC 18
		Above Devil's Canyon - West Fork												
1-21		Delaney	18.5	9.10	.67		6.10		.6		6		1/6	FC 18
		West Fork - Narrows												
1-28		Delaney	2.0	10.57	.89		9.47		.6		7		1/6	FC 18
		West Fork above Devil's Canyon												
1-28		Delaney	13.	8.99	.55		4.94		.6		6		¼	FC 18
		200' above Mouth of Devil's Canyon												
1-28		Delaney	8.5	7.26	.40		2.94		.6		7		¼	FC 18
		Burro Canyon above Mouth												
3-18		Greene-Lane	6.5	2.74	15.3		4.18		.6		6		1/6	FC 18
		1000' above Mouth of Devil's Canyon												
4-8		Delaney	15.5	11.23	.91		10.0		.6		6		1/6	FC 18
		300' above Mouth of Devil's Canyon												
4-8		Delaney	11.5	6.98			9.3		.6		5		1/6	FC 18
		West Fork - San Gabriel - Narrows												
4-8		Delaney	25.	22.37	1.03		23.1		.6		8		½	FC 18
		Below Forks of San Gabriel River												
5-25		Patterson-Obs.	68.0	53.7	2.01	1.71	138.0		.6		21		7/12	FC 22
		Below No.1 Damsite at Downstream Toe												
5-25		Patterson-Obs.	24.5	19.9	2.38		47.3		.6		8		½	FC 22
		Above Pasadena Damsite of San Gabriel River												
3-25		Patterson-Obs.	46.	43.9	1.21		53.2		.6		13			FC 22
		Wild Oak Canyon - East Fork San Gabriel Ri. 1000' above Mouth												
3-25		Patterson-Obs.					.0027		Vol.					
		Roberts Canyon - East Fork San Gabriel Ri. ¼ Mi. above Mouth												
3-25		Patterson-Obs.					.0045		Vol.					
		West Fork San Gabriel River at Narrows												
1/21		Delaney	21.0	11.72	1.08	3.50	12.72		.6		9		1/6	FC 18
		Devil's Canyon San Gabriel 1000' above Mouth												
4-19		Delaney & Green	15.5	10.09	.78		7.90		.6		6		¼	FC 18

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries

~~At~~ San Gabriel River, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. secs.	G. Ht. change	Time	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.	Total	Hours	
		Cape Horn Canyon - East Fork San Gabriel Ri. 100' above Mouth												
	5-25	Patterson-Obs.					.0075		Vol.					
		Horse Canyon - East Fork San Gabriel Ri. 1500' above Mouth												
	5-25	Patterson-Obs.					.0089		Vol.					
		Susannah Canyon - East Fork San Gabriel Ri. 500' above Mouth												
	5-25	Patterson-Obs.					.0032		Vol.					
		Graveyard Canyon - East Fork San Gabriel Ri. ¼ Mi. above Mouth												
	5-25	Patterson-Obs.					.0066		Vol.					
		Burrow Canyon - San Gabriel River above mouth												
	5-25	Patterson-Obs.					.0165		Vol.					
		Polecat Gulch - San Gabriel River above mouth												
	5-25	Patterson-Obs.					.10		Vol.					
		Stony Gulch - East Fork San Gabriel Ri. 350' above Mouth												
	5-25	Patterson-Obs.					.0053		Vol.					
		Mouth of Canyon below Comm. of 9 Div. Dam San Gabriel River												
	5-23	Lindsay				3.75	65.13		Weir					
		Outflow from Duarte Ditch below Fish Canyon Road												
	5-27	Lindsay	5.0	1.47	1.01		1.49		.6		5		1/12	282 283
		125' below Rogers San Gabriel River												
	4-25	Lee & Martin	34.	51.70	.71		36.91		.6		12		½	FC 29
		Garvey Road San Gabriel River												
	4-1	Brewster	26.0	13.10	2.07		27.18		.6		9		½	271 666
		Split 400' below Santa Fe San Gabriel River												
	2-10	Lee & Martin	30.	11.90	2.30		27.72		.6		10		1/3	FC 29
		Split 1000' below Santa Fe San Gabriel River												
	3-4	Lee & Martin	2 Streams				49.12							
		Split 285' below Santa Fe San Gabriel River												
	3-11	Lee & Martin	30.	11.60	2.10		34.12		.6		10		1/3	FC 29
		Split 300' below Santa Fe Bridge												
	3-15	Lee & Martin	21.	15.70	2.77		43.51		.6		6		½	FC 29
		Split 500' below Santa Fe Bridge												
	3-18	Lee & Martin	20.	15.30	2.39		36.71		.6		10		½	FC 29
		Split 400' below Santa Fe Bridge												
	4-5	Lee & Martin	17.	7.30	1.18		8.65		.6		8		½	FC 29
		Split 1000' below Santa Fe Bridge												
	3-25	Lee & Martin	20.	13.25	1.71		23.64		.6		7		1/3	FC 29
		Split 100' below Santa Fe Bridge												
	4-13	Lee & Martin	4.	3.65	0.40		1.45		.6		4		1/6	FC 29
		100' below Rogers Creek												
	4-26	Lee & Martin	37.	54.30			44.25		.6		10		1/3	FC 29
		Split 40' below Santa Fe Bridge												
	4-26	Lee & Martin					0.25		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Pacoima Creek, Tributaries and Diversions.

at near, during the year ending September 30, 1932

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	
1		Pacoima Creek - 500' above end of Reservoir												
	1931 12-23	Waddicor	3.0	.38	.80		.29		.6		6		1/6	FC 27
2		Pacoima Creek - 200' above Davis' Well												
	1-5	Waddicor	4.2	.91	1.14		1.04		.6		6		1/6	FC 27
3		Pacoima Creek at Craig's Head Gate												
	1-5	Waddicor	4.0	3.11	2.23		6.97		.6		4		1/6	FC 27
4		Pacoima Creek at Craig's Pond Overflow												
	1-5	Waddicor	3.2	.70	1.30		.91		.6		5		1/12	FC 27
5		Pacoima Creek - Craig's Head Gate												
	1-9	Waddicor	5.5	5.30	2.28		11.85		.6		6		1/6	FC 27
6		Pacoima Creek at Davis' Diversion												
	1-9	Waddicor	4.0	1.68	1.32		2.19		.6		4		1/6	FC 27
7		Pacoima Creek at Craig's Overflow												
	1-9	Waddicor	2.5	.44	.48		.21		.6		4		1/12	FC 27
8		Pacoima Wash at Van Nuys Blvd.												
	2-25	Waddicor-Turner	3.2	.14	.64		.09		.6		5		1/6	FC 27
9		Pacoima Creek - 800' above inflow to dam												
	3-4	Turner	14.0	12.1			28.69		.6		7		½	FC 25
10		Pacoima Wash at Arleta St.												
	3-4	Waddicor	3.0	.37	.54		.20		.6		4		1/12	FC 27
11		Pacoima Wash - Arleta St.												
	3-7	Turner	5.8	.83	.86		.72		.6		6			FC 25
12		Pacoima Wash - 300' below Submerged Dam												
	3-13	Luce-Waddicor	4.0	2.75	.71		1.94		.6		8		1/12	FC 13
13		Pacoima Creek - 900' above inflow to Dam												
	3-23	Turner	13.0	7.74	1.50		11.59		.6		12		½	FC 30
14		Pacoima Creek - 800' above inflow to Dam												
	3-23	Turner	9.0	7.68	1.56		11.98		.6		9		1/6	FC 30

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Pacoima Creek, Tributaries and Diversions

at near, during the year ending September 30, 1932

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	
15		Pacoima Creek - Inflow to Dam												
	3-23	Turner	16.	6.44	1.74		11.20		.6		8		½	FC 30
16		Pacoima Creek - 900' above inflow to Dam												
	3-30	Turner	12.0	6.56	1.14		7.49		.6		6		1/6	FC 30
17		Pacoima Creek (Subsurface inflow) Stairway												
	4-2	Turner					0.309		Weir					
18		Pacoima Creek - 700' above inflow to Dam												
	4-5	Turner	9.0	6.86	1.16		7.97		.6		9		1/6	FC 30
19		Pacoima Creek - 800' above inflow to Dam												
	4-11	Turner	11.0	5/36	.98		5.23		.6		11		½	FC 30
20		Pacoima Creek - 800' above inflow to Dam												
	4-18	Turner	10.0	4.79			4.47		.6		10		1/6	FC 30
21		Pacoima Creek - 800' above inflow to Dam												
	4-26	Turner	10.2	6.18			7.03		.6		10		1/6	FC 30
22		Pacoima Creek - 700' above inflow to Dam												
	5-2	Turner	8.0	4.62	.85		3.94		.6		8		1/6	FC 30
23		Pacoima Creek - 800' above inflow to Dam												
	5-2	Turner	10.0	4.70	.85		4.01		.6		10		½	FC 30
24		Pacoima Creek - 700' above inflow to Dam												
	5-9	Turner	10.0	4.54	.80		3.61		.6		10		1/6	FC 30
25		Pacoima Creek - 250' below F.C. Dam												
	6-3	Luce							Weir					
26		Pacoima Creek near Canyon at Highway Bridge												
	6-16	Luce	.35	.51	.10		.35		.6		5		1/12	FC 13
27		Pacoima Creek - Highway at Ant Canyon												
	6-30	Luce	2.5	.34	.50		.17		.6		5		1/12	FC 13
28		Pacoima Wash - Parthenia Street Ditch												
	12-14	Luce-Waddicor	4.2	3.72	7.9	.92	29.41		.6		5		1/6	FC 13

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Pacoima Creek, Tributaries and Diversions

at
near , during the year ending September 30, 1932

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	
29		Pacoima Wash - Parthenia Street Ditch												
	12-25	Luce-Lovelace	5.0	4.16	8.3	1.00	34.70		.6		4		1/12	FC 27
30		Pacoima Wash - Parthenia Street Ditch												
	12-25	Luce-Lovelace	4.5	2.50	3.05		5.13		.6		5		1/12	FC 13
31		Pacoima Wash - Parthenia Street Ditch												
	11-27	Luce-Waddicor	4.3	38.31	.8		30.64		.6		5		½	FC 13
32		Pacoima Wash - Parthenia Street Ditch												
	12-28	Luce-Waddicor	5.5	2.52	1.39		3.50		.6		6		1/12	FC 13
33		Pacoima Wash - Parthenia Street Ditch												
	12-28	Luce-Lovelace	4.4	4.30	.93	.98	39.14		.6		5		1/12	FC 13
34		Pacoima Wash - Parthenia Street Ditch												
	1-31	Luce-Lovelace	4.2	2.45	8.48	.56	20.87		.6		6		1/6	FC 13

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Santa Clara River, Tributaries and Diversions

at
near , during the year ending September 30, 1932

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	
15		Santa Clara River - 3½ Mi. below Ravenna												
	6-11	Luce	4.8	1.28	1.38		1.75		.6		6		1/12	FC 13
16		Santa Clara River - Camp Grounds - 5.5 Mi. below Ravenna												
	6-11	Luce	4.2	.73	.77		.57		.6		6		1/12	FC 13
17		Santa Clara River - Camp Grounds - 5.5 Mi. below Ravenna												
	6-24	Luce	1.5	.22	.77		.17		.6		3		1/12	FC 13
18		Santa Clara River - 2½ Mi. below Ravenna												
	6-24	Luce	4.7	1.28	.86		1.11		.6		5		1/12	FC 13
19		Santa Clara River - 3½ Mi. below Ravenna												
	7-23	Luce	4.0	1.13	.88		1.00		.6		5		1/12	FC 13
20		Santa Clara River - Camp Grounds - 5.5 Mi. below Ravenna												
	7-23	Luce	3.0	.26	.61		.19		.6		4		1/12	FC 13
21		Santa Clara River - 1.5 Mi. below Ravenna Station												
	8-20	Luce	4.2	1.19	1.10		1.32		.8		6		1/12	FC 13
22		Santa Clara River - 1.5 Mi. below Ravenna Station												
	8-27	Luce	4.2	1.35	.90		1.22		.6		4		1/12	FC 13
23		Santa Clara River - 1.5 Mi. below Ravenna Station												
	9-3	Luce-Bollinger	4.0	1.32	.92		1.21		.6		5		1/12	FC 13
24		Santa Clara River - 1 Mi. below Castaic Junction												
	9-14	Bollinger	7.2	5.22	1.96		10.23		.6		8		1/6	FC 10
25		Gleason Canyon Creek - 500' above Aliso Creek												
	1-30	Luce					.015		Weir					
26		Aliso Canyon Creek - ¼ Mi. above Gleason Creek												
	1-30	Luce					.03		Weir					
27		Aliso Creek - 1.3 Mi. above Soledad Creek												
	4-15	Luce	3.0	.55	.74		.41		.6		5		1/12	FC 13
28		Aliso Creek - 1½ Mi. above Soledad Canyon												
	4-22	Luce	1.8	.36	.04		.15		.6		4		1/12	FC 13
29		Tie Canyon - Above Aliso Canyon												
	1-30	Luce					.14		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Santa Clara River, Tributaries and Diversions

at
near , during the year ending September 30, 1932

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	
1		Santa Clara River - 200' below Aqua Dulce												
	4-22	Luce	6.5	1.26	1.68		2.13		.6		7		1/6	FC 13
2		Santa Clara River - 1.5 Mi. below Ravenna Station												
	4-15	Luce	5.5	1.61	1.68		2.71		.6		7		1/12	FC 13
3		Santa Clara River - 1.5 Mi. below Ravenna												
	4-22	Luce	5.5	1.69	1.51		2.56		.6		7		1/6	FC 13
4		Santa Clara River - 200' below Aqua Dulce												
	4-22	Luce	6.5	1.26	1.68		2.13		.6		7		1/6	FC 13
5		Santa Clara River - .6 Mi. above Lang Station												
	4-22	Luce	5.5	.99	1.44		1.33		.6		6		1/12	FC 13
6		Santa Clara River at Camp Grounds - 5.5 Mi. below Ravenna												
	5-6	Luce	4.6	1.39	1.50		2.09		.6		5		1/12	FC 13
7		Santa Clara River - .6 Mi. above Rising Water - Lang Station												
	5-6	Luce	6.5	1.05	1.13		1.19		.6		8		1/12	FC 13
8		Santa Clara River - 1.3 Mi. below Ravenna												
	5-6	Luce	5.2	1.53	1.41		2.16		.6		6		1/12	FC 13
9		Santa Clara River at Camp Grounds - 5.5 Mi. below Ravenna												
	5-13	Luce	4.5	1.21	1.00		1.21		.6		5		1/6	FC 13
10		Santa Clara River - .6 Mi. above Lang Station												
	5-13	Luce	2.0	.33	.10		.24		.6		3		1/12	FC 13
11		Santa Clara River - 1.3 Mi. below Ravenna												
	5-13	Luce	5.0	1.58	1.34		2.13		.6		7		1/6	FC 13
12		Santa Clara River at Camp Grounds - 5.5 Mi. below Ravenna												
	5-19	Luce	5.0	1.07	.09		1.06		.6		6		1/12	FC 13
13		Santa Clara River - 1.3 Mi. below Ravenna												
	5-19	Luce	4.7	1.56	1.33		2.07		.6		7		1/6	FC 13
14		Santa Clara River - 1.5 Mi. below Ravenna												
	5-28	Luce	4.7	1.47	1.17		1.73		.6		5		1/12	FC 13

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Santa Clara River, Tributaries and Diversions

at
near , during the year ending September 30, 1932

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	
30		]so Creek - 1½ Mi. above Mouth												
	5-6	Luce	1.5	.11	.004		.05		.8		3		1/12	FC 13
31		Aliso Creek - 1½ Mi. above Soledad Creek												
	5-13	Luce	1.4	.09	.003		.03		.6		6		1/12	FC 13
32		Aliso Canyon - 1½ Mi. above Soledad Creek												
	5-19	Luce					.025		Weir					
33		Aliso Creek - 1½ Mi. above Soledad Creek												
	5-26	Luce					.02		Weir					
34		Mill Canyon - 500' above Soledad Canyon												
	4-15	Luce					.11		Weir					
35		Mill Canyon - 1000' above Soledad Canyon												
	4-22	Luce					.05		Weir					
36		Canyon with Pipe at Soledad Road												
	3-25	Luce					.07		Weir					
37		First Canyon West of Indian Canyon - 3.9 Mi. below Ravenna												
	4-15	Luce					.03		Weir					
38		First Canyon West of Indian Canyon at Soledad Canyon												
	4-22	Luce					.04		Weir					
39		No named Tributary - ½ Mi. below Indian Canyon 3.7 Mi. below Ravenna												
	5-6	Luce					.025		Weir					
40		No named Tributary - ½ Mi. below Indian Canyon 3.7 Mi. below Ravenna												
	5-13	Luce					.025		Weir					
41		No named Tributary - ½ Mi. below Indian Canyon 3.7 Mi. below Ravenna												
	5-19	Luce					.02		Weir					
42		No named Tributary - ½ Mi. below Indian Canyon 3.7 Mi. below Ravenna												
	5-26	Luce					.01		Weir					
43		Aqua Dulce Creek - 300' above Soledad Canyon												
	4-15	Luce					.01		Weir					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Santa Clara River, Tributaries and Diversions

at
near , during the year ending September 30, 1932

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	
44		Bear Canyon - 2000' above Soledad Canyon												
	1-3	Luce					.14		Weir					
45		Tick Canyon Creek - Soledad Canyon Road Bridge "B" 266												
	2-8	Turner-Lovelace	25.7	14.00	4.93	3.90	69.08		.6		7		1/6	FC 25
46		Sand Canyon at Soledad Canyon High Bridge												
	2-8	Turner-Lovelace	35.0	22.42	6.03	16.2	135.2		.6		10		1/6	FC 25
47		Sand Canyon at Bear Canyon												
	2-8	Luce-Luce	3.8	1.43	1.77		2.54		.6		5		1/12	FC 25
48		Sand Canyon - 1000' above Bear Canyon												
	3-11	Luce-Lindsay	2.7	1.60	0.92		1.47		.6		5		1/12	FC 13
49		Sand Canyon Creek - 500' above Bear Creek												
	4-14	Luce					.09		Weir					
50		Sand Canyon Creek - 500' above Bear Creek												
	4-29	Luce					.057		Weir					
51		Sand Canyon Creek - 500' above Bear Creek												
	5-6	Luce					.051		Weir					
52		Sand Canyon - 500' above Bear Creek												
	5-13	Luce					.04		Weir					
53		Sand Canyon - 500' above Bear Creek												
	5-27	Luce					.007		Weir					
54		Mint Canyon Tributary - ½ Mi. below Government Camp												
	3-19	Luce					.16		Weir					
55		Mint Canyon Tributary at Government Camp												
	3-19	Luce					.18		Weir					
56		Mint Canyon at Canyon Forks												
	2-19	Luce	7.2	2.05	1.58		3.24		.6		8		1/6	FC 13
57		Bouquet Canyon Creek - 2½ Mi. above Texas Canyon												
	4-23	Luce	3.5	1.63	.06		1.08		.6		6		1/12	FC 13

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Santa Clara River, Tributaries and Diversions

at
near , during the year ending September 30, 1932

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	
58		Bouquet Canyon Creek - 1 Mi. above Texas Canyon												
	4-23	Luce	2.6	.89	.06		.57		.6		5		1/6	FC 13
59		Bouquet Canyon - Natural Channel above Texas Cn. and Div. Ditch												
	7-8	Luce	3.2	.47	.17		.08		.6		6		1/6	FC 13
60		Newhall Canyon Creek - R.R. Bridge at Newhall												
	2-8	Turner-Lovelace	22.0	9.76	4.23		41.26		.6		10		1/6	FC 25
61		Placerita Creek - 500' W. of Saugus (R.R. Bridge)												
	1931 12-28	Waddicor-Turner	29.5	11.84	3.08	1.92	36.75		.6		11		1/3	FC 27
62		Placerita Creek - 1000' West of Saugus												
	12-28	Waddicor-Turner	58.5	45.08	4.36	2.42	97.15		.6		9		¼	FC 27
63		Placerita Creek - Bridge at Newhall												
	2-8	Turner-Lovelace	16.0	9.31	4.47		41.59		.6		7		¼	FC 25
64		Placerita Creek - R.R. Bridge at Newhall												
	2-18	Turner-Lovelace	9.2	3.91	3.49		13.63		.6		10		1/6	FC 25
65		Placerita Creek - 200' above Los Pinetos Canyon												
	3-11	Luce-Lindsay				.20	.20		Weir					
66		Side Canyon - ½ Mi. above Submerged Dam - 100' above Placerita Ck.												
	3-11	Luce-Lindsay				.50	.38		Weir					
67		Placerita Creek - 150' below Submerged Dam at Narrows												
	3-11	Luce-Lindsay	2.5	.82	1.07		.88		.6		4		1/12	FC 13
68		Pico Canyon - Highway Bridge 1 Mi. West of Saugus												
	12-28	Waddicor-Turner	6.5	6.10	3.38	3.22	14.47		.6		4		1/12	FC 27
69		Pico Creek at Saugus Highway Bridge												
	2-8	Turner-Lovelace	7.5	10.83	3.04	3.40	32.89		.6		5		1/6	FC 25
70		Fish Canyon - 1000' above Castaic Canyon												
	4-21	Luce-Waddicor	3.3	.89	.11		.99		.6		6		1/12	FC 13
71		Castaic Creek - Santa Paula Highway Bridge												
	11-27	Luce-Waddicor	27.7	21.8	1.31	4.64	28.59		.6		10		¼	FC 13

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Santa Clara River, Tributaries and Diversions

at
near , during the year ending September 30, 1932

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	
72		Castaic Creek - 1½ Mi. West of Castaic Junction												
	12-28	Waddicor-Turner	190.	226.3	4.13	5.70	934.5		.6		10		½	622
73		Castaic Creek - Railroad Bridge												
	2-1	Turner-Lovelace	48.0	52.01	3.40	4.35	177.1		.6		15		¼	FC 25
74		Castaic Creek - Highway (Ridge Route)												
	2-11	Luce-Turner	28.5	16.1	4.60	-	74.1		.6		15		¼	FC 13
75		Castaic Creek - Santa Paula Highway Bridge												
	2-19	Waddicor	15.0	3.98	1.83		7.27		.6		5		1/12	FC 27
76		Castaic Creek - Santa Paula Highway Bridge												
	2-26	Waddicor	5.5	1.15	1.27		1.46		.6		10		1/6	FC 27
77		Castaic Creek - 2.4 Mi. below Fish Canyon												
	4-21	Luce-Waddicor	2.7	.53	.13		.66		.6		4		1/12	FC 13
78		Castaic Creek - 2000' above Fish Canyon												
	4-21	Luce-Waddicor	2.5	.31	.16		.53		.6		5		1/12	FC 13
79		Castaic Creek - 5.1 Mi. below Fish Canyon												
	4-21	Luce-Waddicor	3.9	.48	.08		.33		.6		7		1/12	FC 13

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Various Streams and Tributaries throughout

of Los Angeles County, during the year ending September 30, 1932

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. nos.	G.Ht. change Total	Time Hours	Meter No.
			Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.			
		Alhambra West Wash (Bas. Sta.) at Mission St.												
	1931 12-8	Burke	7.	5.95	3.34	.86	19.86		.6		6		½	271 637
		Bull Creek at San Fernando Mission Road												
	3-18	Luce	2.9	.67	1.07		.72		.6		6		1/6	"
		Bull Creek at San Fernando Mission Road												
	4-1	Luce	3.2	0.39	0.69		0.27		.6		5		1/12	"
		Chatsworth Creek at Devonshire												
	2-3	Luce & Lovelace	3.0	0.89	0.76		0.68		.6		5		1/12	FC 13
		Chatsworth Creek - Devonshire Street												
	2-8	Luce & Hansen	10.5	9.60	4.33		41.58		.6		10		1/6	FC 27
		Chatsworth Creek - Devonshire												
	2-16	Luce & Bissell	9.9	2.88	2.11		6.04		.6		10		1/6	FC 13
		El Monte Ave. Storm Drain below Lower Azusa Road												
	12-31	Lindsay-Cole	10.0	6.47	3.47	.40	22.46		.6		10		1/12	882 883
		El Monte Ave. Storm Drain at Lower Azusa Road												
	12-28	Lindsay-Cole	10.3	6.13	5.15	.53	31.83		.6		5		1/6	"
		El Monte Storm Drain at El Monte Ave.												
	1932 2-9	Lindsay-Cole	10.2	7.46	6.74	.65	50.31		.6		8		1/6	"
		Grandview Canyon at Largo Vista Road												
	3-12		3.5	.96	1.35		1.30		.6		6		1/12	FC 13
		Lime Kiln Creek at Devonshire St.												
	2-8	Luce & Waddicor	9.0	7.91	2.99	3.96	23.56		.6		5		1/12	FC 27
		Lime Kiln Wash at Devonshire												
	2-16	Luce & Waddicor	6.5	1.45	1.60	3.59	2.31		.6		5		1/12	FC 13
		Lopez Wash at Foothill Blvd.												
	2-8	Luce & Conway	5.5	1.37	2.43		3.33		.6		5		1/12	FC 13
		Los Angeles River - Dias Ave.												
	1-3	Bollinger-Moore	13.	22.8	1.44		32.9		.6		11			FC 10
		Malibu Creek ½ Mi. below Crater Camp												
	6-30	Bollinger	4.0	.48	0.74	.40	.65		.6		4		1/12	
		Mandeville Creek at Administration Bldg.												
	1-13	Meunier-Girouard	1.70	.204	2.36		.46		Vol.					
		Mandeville Creek at Administration Bldg.												
	2-8	Meunier-Girouard	1.5	0.335	1.69		.38		Vol.					
		Mescal Creek at Diversion Dam 4 Mi. above Highway												
	3-12	Luce	4.0	1.31	3.94		5.17		.6		8		1/12	FC 13
		Mescal Creek Diversion at Camp Grounds												
	7-17	Luce	2.3	.40	1.17		.47		.6		5		1/12	FC 13
		Monrovia Storm Drain at Peck Road												
	1931 12-14	Lindsay-Cole	33.5	15.83	4.43	.99	70.26		.6		8		1/6	882 883
		Nigger Slough ¼ Mi. North of 182nd. St.												
	2-1	D.L. Seal-Cooper	34.	44.32	1.68		74.53		.6		12		1/6	FC 12
		Nigger Slough at ¼ mi. at 182nd. St. and Vermont												
	2-2	Seal	31.	34.25	.88		29.6		.6		13			FC 12
		Nigger Slough - Vermont near 182nd. St.												
	2-10	Slaughter	35.5	2.02	0.65		33.4		.6		8		1/12	FC 23
		San Fernando Creek - Devonshire Ave. Bridge												
	11-27	Luce-Waddicor	9.8	9.12	2.51	1.82	23.31		.6		7		1/6	FC 13
		San Fernando Creek - Devonshire Ave. Bridge												
	12-14	Luce-Waddicor	7.4	3.23	1.23	1.64	3.99		.6		7		1/6	FC 13
		San Fernando Creek - Devonshire Ave. Bridge												
	12-28	Luce-Waddicor	13.4	5.36	1.73	1.69	9.24		.6		9		1/6	FC 13
		San Fernando Creek - Devonshire Ave. Bridge												
	2-2	Luce-Lovelace	3.0	.49	1.38	1.38	.63		.6		4		1/12	FC 13
		San Fernando Creek - Devonshire Ave. Bridge												
	2-8	Luce-Conway	19.5	18.2	4.23	2.18	76.71		.6		8		1/6	FC 13
		San Fernando Creek - Devonshire Ave. Bridge												
	2-16	Luce-Bissell	11.4	3.71	1.08	1.56	3.98		.6		10		1/6	FC 13
		Verdugo Wash - Point 50' above Intake of Verdugo Cn. Water Co.												
	1-27	Bollinger	1.7	.25	1.08		.27		.6		3		½	FC 10
		Wilson Creek at Olive View												
	2-8	Luce-Conway	5.0	1.28	6.95	0.31	8.87		.6		6		1/12	FC 13
		Wilson Creek at Olive View												
	2-16	Luce-Bissel	6.10	1.61	5.62	0.30	9.04		.6		10		1/6	FC 13

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Sawpit Dam

at Inflow And Outflow, during the year ending September 30, 1932

(Inflow)

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. nos.	G.Ht. change Total	Time Hours	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.			
	2-27	Ash-Johnson	5.8	1.7	1.40	-	2.41		.6		6		1/6	622
	3-3	Ash	6.3	2.6	1.00	-	1.90		.6		7			"
	3-4	"	6.4	2.9	.66	-	1.92		.6		7			"
	3-5	Turner	3.8	.90	2.27	-	2.05		.6		7		1/6	FC 25
	3-9	Ash	5.4	2.38	.53	-	1.27		.6		6			622
	3-11	Turner	4.0	1.10	1.40	-	1.54		.6		6		1/6	FC 30
	3-12	Ash	2.2	.89	.54	-	.48		.6		4			622
	3-14	Turner	3.8	.87	.41	-	.36		.6		6		1/12	FC 30
	3-15	"					.34		Weir					
	3-17	Ash	2.3	.85	.25	-	.21		.6		4			622
	3-18	Turner	.8	.23	1.70	-	.38		.6		2		1/12	FC 30
	3-21	"	.8	.22	1.73	-	.38		.6		2		1/12	"
	3-22	"					.29		Flume					
	3-23	Ash					.28		Weir					
	3-25	Turner	.8	.18	1.50	-	.27		.6		2		1/12	FC 30
	3-28	"	1.5	.52	.35	-	.18		.6		3		"	"
	4-1	Ash					.23		Weir					
	4-4	Turner	4.0	1.12	.65	-	.73		.6		6		"	FC 30
	4-9	"					.24		Flume					
	4-12	"					.17		Flume					
	4-16	Turner-Packer					.14		Flume					
	4-20	" "					.12		Flume					
	4-23	Turner					.12		Flume					
	4-27	"					.14		Flume					
	4-30	Turner-Hess					.14		Flume					
	5-4	Turner					.12		Flume					
	5-7	"					.13		Flume					
	5-13	"					.11		Flume					

Discharge measurements of Sawpit Dam

at Inflow And Outflow, during the year ending September 30, 1932

(Outflow)

No.	Date	Made by	Width	Area of section	Mean velocity	Gage height	Discharge	rating	Method	Coef.	Meas. nos.	G.Ht. change Total	Time Hours	Meter No.
	1932		Feet	Sq.-ft.	Ft. per sec.	Feet	Sec.-ft.	Percent diff.			No.			
	1-6	Dalton	3.0	.73	1.00	-	.73		.6		6			622
	2-20	Ash	10.0	5.65	1.98	-	11.20		.6		10		1/3	"
	2-22	"	10.3	5.19	2.10	-	10.91		.6		8		1/4	"
	2-25	"	7.0	2.69	1.58	-	4.25		.6		7		1/3	"
	2-27	"	7.0	2.70	1.46	-	3.96		.6		7		1/4	"
	2-27	"	7.0	2.60	1.26	-	3.29		.6		8		1/6	"
	3-3	"	6.6	1.93	1.00	-	1.96		.6		7			"
	3-4	"	6.1	1.91	1.10	-	2.11		.6		6			"
	3-5	Turner	2.5	1.68	1.44	-	2.43		.6		5		1/6	FC 25
	3-19	Ash					.32		Weir					
	3-26	Ash					.28		Weir					
	3-30	Ash					.24		Weir					

F. C. Dist. Form 184 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Flow into Gravel Pits

~~at~~ ~~near~~ San Fernando Valley, during the year ending September 30, 1932

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	
A-1		Sunset Pit Con Rock Pro. Co. Mulholland St. and Big Tuj. Wash												
	1-19	Luce -				20.1	17.40		Vol.					
A-2		Sunset Pit Con Rock Pro. Co. Mulholland St. and Big Tuj. Wash												
	1-30	Luce 7:30 A.M.				22.0	17.38		Vol.					
A-3		Sunset Pit Gravel Pit Sunset Rock Crusher												
	1-30	Luce 6:30 P.M.				23.5	17.89		Vol.					
A-4		Sunset Pit Con Rock Pro. Co. Mulholland St. and Big Tuj. Wash												
	1-31	Luce 7:00 A.M.				24.6	17.39		Vol.					
A-5		Sunset Pit Gravel Pit Sunset Rock Crusher												
	1-31	Luce 2:00 P.M.				25.3	17.43		Vol.					
A-6		Sunset Pit Con Rock Pro. Co. Mulholland St. and Big Tuj. Wash												
	1-22	Luce 7:15 A.M.				26.2	15.70		Vol.					
A-7		Sunset Pit Con Rock Pro. Co. Mulholland St. and Big Tuj. Wash												
	1-22	Luce 8:30 P.M.				26.8	15.36		Vol.					
A-8		Sunset Pit Con Rock Pro. Co. Mulholland St. and Big Tuj. Wash												
	1-23	Luce 7:30 A.M.				27.3	11.34		Vol.					
A-9		Sunset Pit Con R. P. Co. Mulholland St. and Big Tuj. Wash												
	1-23	Luce 2:30 P.M.				27.4	15.55		Vol.					
A-10		Sunset Pit C.R.R. Co. Mulholland St. West B. T. Wash.												
	1-24	Luce 3:30 P.M.				28.4	15.86		Vol.					
A-11		Sunset Plant C.R.P. Co. Mulholland St. W. Big Tuj. Wash												
	1-35	Luce 7:45 A.M.				29.1	15.77		Vol.					
A-12		Sunset Pit Con Rock Pro. Co. Mulholland St. and Big Tuj. Wash												
	1-26	Luce 7:30 A.M.				30.2	16.97		Vol.					
A-13		Sunset Rock Pit C.R.R. Co. Mulholland St. and Big Tuj. Wash												
	1-26	Luce -				30.7	17.78		Vol.					
A-14		Sunset Pit Con Rock Pro. Co. Mulholland St. and Big Tuj. Wash												
	1-27	Luce 7:40 A.M.				31.2	12.61		Vol.					

F. C. Dist. Form 184 IM 12-31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Flow into Gravel Pits

~~at~~ ~~near~~ San Fernando Valley, during the year ending September 30, 1932

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	
B-5		Big Pit So. of Mulholland and East of Wentworth St.												
	1-25	Luce 7:30 A.M.				16.6	17.76		Vol.					
B-6		Big Pit So. of Mulholland and East of Wentworth St.												
	1-26	Luce 7:28 A.M.				17.5	17.78		Vol.					
B-7		Big Pit So. of Mulholland and East of Wentworth St.												
	1-27	Luce 7:30 A.M.				17.8	17.41		Vol.					
B-8		Big Pit So. of Mulholland and East of Wentworth St.												
	1-27	Luce & Waddicor				18.8	21.12		Vol.					
B-9		Big Pit So. of Mulholland and East of Wentworth St.												
	1-28	Luce 7:10 A.M.				18.8	14.62		Vol.					
B-10		Big Pit So. of Mulholland and East of Wentworth St.												
	1-28	Luce & Waddicor 6:10 P.M.				19.3	26.34		Vol.					
B-11		Big Pit So. of Mulholland and East of Wentworth St.												
	1-29	Luce 7:15 A.M.				21.2	15.14		Vol.					
B-12		Big Pit So. of Mulholland and East of Wentworth St.												
	1-29	Luce & Waddicor 6:00				21.9	27.86		Vol.					
B-13		Big Pit So. of Mulholland and East of Wentworth St.												
	1-30	Luce & Waddicor 3:00 P.M.				23.1	19.18		Vol.					
B-14		Big Pit So. of Mulholland and East of Wentworth St.												
	1-31	Luce 11:20 A.M.				23.5	8.95		Vol.					
B-15		Big Pit So. of Mulholland and East of Wentworth St.												
	2-2	Luce & Waddicor 5:45 P.M.				23.5	20.55		Vol.					
B-16		Big Pit So. of Mulholland and East of Wentworth St.												
	2-3	Luce & Waddicor 4:30 P.M.				23.0	20.49		Vol.					
B-17		Big Pit So. of Mulholland and East of Wentworth St.												
	2-6	Luce 5:30 P.M.				20.0	9.94		Vol.					
C-1		Big Pit Mulholland St. Pit E.												
	1-28	Luce 7:15 A.M.				-	11.53		Vol.					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Flow into Gravel Pits.

~~at~~ ~~near~~ San Fernando Valley, during the year ending September 30, 1932

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	
A-15		Sunset Pit Mulholland West of Big Tuj. Wash												
	1-27	Luce & Waddicor -				31.7	16.16		Vol.					
A-16		Sunset Pit Con Rock Pro Co. Mulholland St. and Big Tuj. Wash												
	1-28	Luce 7:30 A.M.				32.0	11.08		Vol.					
A-17		Sunset Pit Mulholland West of Big Tuj.												
	1-28	Luce & Waddicor 6:00 P.M.				32.2	12.11		Vol.					
A-18		Sunset Pit Con Rock Pro Co. Mulholland St. and Big Tuj. Wash												
	1-29	Luce 7:30 A.M.				32.2	11.08		Vol.					
A-19		Sunset Pit C.R.P. Co. Mulholland St. and Big Tuj.												
	1-29	Luce 5:50 P.M.				32.4	11.87		Vol.					
A-20		Sunset Pit Mulholland West of Big Tuj.												
	1-30	Luce & Waddicor 2:20 P.M.				32.5	17.58		Vol.					
A-21		Sunset Pit Con Rock Pro Co. Mulholland St. and Big Tuj. Wash												
	1-31	Luce 11:35 A.M.				33.2	17.10		Vol.					
A-22		Sunset Pit Mulholland West of Big Tuj.												
	2-2	Luce & Waddicor 6:10 P.M.				35.9	17.05		Vol.					
A-23		Sunset Pit Mulholland West of Big Tuj. Wash												
	2-3	Luce & Waddicor 4:50 P.M.				35.6	17.30		Vol.					
A-24		Sunset Pit Con Rock Pro Co. Mulholland St. and Big Tuj. Wash												
	2-26	Luce 6:05 P.M.					8.06		Vol.					
B-1		Big Pit So. of Mulholland and East of Wentworth St.												
	1-22	Luce 8:45 P.M.				10.8	17.78		Vol.					
B-2		Big Pit So. of Mulholland and East of Wentworth St.												
	1-23	Luce 7:00 A.M.				12.9	17.67		Vol.					
B-3		Big Gravel Pit So. of Mulholland and East of Big Tuj.												
	1-23	Luce 2:00 P.M.				13.1	18.06		Vol.					
B-4		Big Pit So. of Mulholland and East of Wentworth St.												
	1-24	Luce -				15.6	18.16		Vol.					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDROGRAPHIC DEPARTMENT

File No.

Discharge measurements of Flow into Gravel Pits

~~at~~ ~~near~~ San Fernando Valley, during the year ending September 30, 1932

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	
C-2		Big Gravel Pit Mulholland St. Pit E.												
	1-25	Luce 7:20 A.M.				-	11.63		Vol.					
C-3		Big Pit Mulholland St. Pit E.												
	1-31	Luce 11:35 A.M.				-	11:50		Vol.					
C-4		Big Pit Mulholland St. Pit E.												
	2-6	Luce 5:35 P.M.				-	13.33		Vol.					
D-1		Cantara St. Pit #1												
	1-23	Luce 7:45 A.M.				24.0	20.15		Vol.					
D-2		Cantara St. Pit #1												
	1-25	Luce 11:45 A.M.				26.3	21.95		Vol.					
D-3		Cantara St. Pit #1												
	1-29	Luce 8:15 A.M.				27.0	24.38		Vol.					
E-1		Cantara St. Pit #2												
	1-23	Luce 8:00 A.M.				22.3	13.72		Vol.					
E-2		Cantara St. Pit #2.												
	1-25	Luce Noon				22.2	13.48		Vol.					
E-3		Cantara St. Pit #2.												
	1-28	Luce 8:30 A.M.				22.8	13.19		Vol.					
F-1		Small Gravel Pit Montague and Remsen St.												
	1-22	Luce 7:30 A.M.				-	2.44		Vol.					
F-2		Small Gravel Pit Montague and Remsen St.												
	1-25	Luce 1:30 P.M.				7:50	2.47		Vol.					
F-3		Small Gravel Pit Montague and Remsen St.												
	1-29	Luce 7:50 A.M.				7:50	2.44		Vol.					
F-4		Small Gravel Pit Montague and Remsen St.												
	2-6	Luce 5:30 P.M.				7.90	2.56		Vol.					

PERCOLATION MEASUREMENTS

ARROYO SECO ~~River~~ Creek ~~Wash~~ — January 11th 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
2:05 PM	100' Below Gate, Tunnel below Devils Gate	49.49							
2:35 PM	75' above Pas. Gaging Station	49.09					- .40		
3:05 PM	N. End of Golf Course Point of Mountain	35.19					- 13.90		
3:20 PM	Howard St.	18.00					- 17.19		
	Station 29+23	17.0					- 1.00		

LINDSAY

PERCOLATION MEASUREMENTS

BALLONA ~~Estuary~~ Creek — February 2 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
11:00 AM	500' Below Forks below Washington Blvd.	58.3						
11:40 AM	700' Below P.E.Ry.Bridge	55.3	2000	31	62,000	1.42	- 3.0	2.11
12:00 M	Inflow Above Higuera St.	0.3	2000	30	60,000	1.38	- 3.7	2.68
1:15 PM	500 below Higuera Street	51.9	4200	37	155,400	3.56	- 6.3	1.76
4:25 PM	400' below Duquesne St. Inflow 0.1 at Overland Ave.	45.6	8000	45	360,000	8.28	-16.2	1.93
4:50 PM	At Sepulveda Blvd.Bridge	29.5	2000	90	180,000	4.14	+ 0.9	
5:20 PM	At SawtelleBlvd. Bridge	30.4	3200	65	208,000	4.78	+ 9.3	
5:50 PM	At Inglewood Blvd.Bridge	39.7	2500	50	125,000	2.87	- 6.1	2.12
	900 Below Centinela Blvd	33.6						

W. S. HARDGROVE

PERCOLATION MEASUREMENTS

Arroyo Seco ~~River~~ Creek ~~Wash~~ — 1 - 12 - 14 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
9:00 AM	100' below Gate Tunnel	15.52							
			1661	41	69913	1.60	-4.84	3.00	
10:00 AM	Sta. #16 + 61	10.68							
			699	33	23340	.53	-1.91	.36	
11:05 AM	Sta. 23 + 60	8.77							
			563						
11:40 AM	Sta. 29 + 23 Pas.Diverting	-1.40							
		7.37							
			415	45	18709	.43	+1.08		
11:40 AM	Sta. 33 + 38	9.45							
			758	43	34155	.78	-2.29	2.93	
12:00 PM	Sta. 40 + 96	7.16							
			1044	28	29232	.67	- .30	.447	
1:15 PM	Sta. 51 + 40	6.86							
			1060	34	37360	.86	-2.72	3.16	
1:50 PM	Sta. 62 + 00	4.14							
			1454	29	43344	.99	- .78	.787	
2:00 PM	Sta. 76 + 34	3.36							
			997	13	12330	.28	- .58	2.07	
2:15 PM	Sta. 86 + 31	2.78							
			993	10	10027	.23	- .31	1.34	
3:33 PM	Sta. 96 + 24	2.47							
			1356	10	13560	.31	+ .28		
3:55 PM	Sta. 109 + 80	2.75							
			1368	15	20852	.48	- .40	.83	
3:15 PM	Sta. 123 + 48	2.35							
			558.	13	7254	.16	- .15	.94	
3:20 PM	Sta. 129 + 06	2.20							
			1269.	13	16497	.37	-.52	1.40	
4:26 PM	Sta. 141 + 75	1.68							
			1125.	14	15750	.36	-.29	.80	
4:15 PM	Sta.1153 + 00	1.39							

Lindsay - Cornick

January 14 - 1932

8:55 AM	100' below Gate Tunnel	13.76							
			660	38	25500	.59	+ 1.10		
9:55 AM	Station 6 + 60	14.86							
			1661	20	33299	.76	- 4.12	-5.42	
10:45 AM	Station 16 + 61	10.74							
			699	33	23340	.54	+ 1.27		
11:30 AM	Station 23 + 60	12.01							
1:00 PM	Station 29 + 23 Diverting for Spreading	-3.71	978	36	35423	.81	- .58	- .72	
11:50 PM	Station 33 + 38	7.72							
			758	45	34155	.78	- 1.37	-1.75	
12:10 PM	Station 40 + 96	6.35							
			1044	28	29232	.67	- .01	0	
1:40 PM	Station 51 + 40	6.34							
			1060	35	37360	.81	- 2.60	-3.21	
2:00 PM	Station 62 + 00	3.74							
			1434	30	43340	.99	- .98	- .99	
2:20 PM	Station 76 + 34	2.76							
			997						

LINDSAY

PERCOLATION MEASUREMENTS

LITTLE DALTON ~~River~~ ~~Creek~~ — 2 - 11 — 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
11:25 AM	Rec.Station #65	7.20						
11:55	Below Sp.Grnds.	7.06					.14	

PERCOLATION MEASUREMENTS

LITTLE DALTON ~~River~~ Creek — 2 - 26 — 19 32

Time	Location	Disch.	Length Of Reach Map.Dist.	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
11:45 AM	F.O.Gaging Station No.65	1.98	Dimensions	in spreading	grounds unknown		- 1.08	
1:30 PM	At Lower End of Spreading Grounds	0.90	2400	3'	7200	.165	- .14	.85
12:30 PM	750' below Sierra Madre Avenue.	0.76					ASH	
	At this point all water isdiverted out of channel to the north in Underground Pipe							

PERCOLATION MEASUREMENTS

LITTLE DALTON ~~River~~ Creek
BIG DALTON — 1 - 18 - 32 — 19

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
3:30 PM	Little Dalton-Azusa Ave.	1.84						
4:00 PM	Broadway	1.63	1200	10.	12000	.28	-.21	.75
4:00 PM	" Below Inflow	1.93						
4:20 PM	Junction-Little Dalton & Big Dalton-Vincent Ave.	1.31	7900	9.3	73470	1.69	-.62	.37
			3000	11.0	33000	.76	-.15	.20
4:45 PM	Irwindale Ave.	1.16						
5:10 PM	Covina Blvd.	.83	5200	9.0	46800	1.07	-.33	.31
			9200	11.0	101200	2.32	-.83	.36
5:40 PM	1-3/4 mi. below Covina Blvd.	.00				6.12	2.14	.35

PERCOLATION MEASUREMENTS

Big Dalton Spr. Grounds ~~River~~ ~~Creek~~ ~~Wash~~ — Feb. 10 - 11 — 19 32

Brewster

		Feb.10 1932	
4:20 PM	Sta. # U-9	13.67	Note: Gates to Spreading Grounds opened at 8:00 AM and closed at 5:30 PM. The change in flow due to closing of gates at 5:30 had not reached the station below Spreading Grounds when that measurement was taken.
5:35 PM	Below Spr.Gr. #202	2.44	
			Ash.
		Feb.11 1932	
10:00 AM	Station # U-9	16.81	
2:45 PM	" # U-9	39.19	
2:55 PM	" # U-9	42.79	Note:
3:30 PM	" # U-9	56.86	includes 2 s.f.not in channel (Peak) — Discharge Flood Water from Big Dalton Dam.
10:30 AM	Below Spr.Gr. Sta. #202	2.74	
4:00 PM	" "	14.80	(Peak) — Note: Gates to Spreading Grounds Open.
5:00 PM	" "	9.83	
			Ash.

PERCOLATION MEASUREMENTS

Big Dalton Spr.Grounds ~~River~~ ~~Creek~~ ~~Wash~~ — Feb.12, 15, 16, 23, Mar. 1 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
		February 12,		1932					
1:00 PM	Sta. #U-9	8.71	Note:	Gates to Spreading Grounds Open. Gates Opened at 9:00 AM.					
1:40 PM	Sta. #202	1.19		Gates Closed at 4:00 PM Ash.					
		February 15 -		1932					
2:00 PM	Station # U-9	23.43	Note:	Gates Opened at 6:30 AM					
1:45 PM	" # 202	1.81		Gates Closed at 8:00 PM					
3:35 PM	" # 202	2.91		Ash.					
		February 16 -		1932					
3:00 PM	Station # U-9	23.94	Note:	Gates Opened at 6:00 AM					
2:30 PM	" # 202	4.90		Gates Closed at 8:00 PM					
4:00 PM	" # 202	5.34		Ash.					
		February 23 -		1932					
5:00 PM	Station # U-9	35.64	Note:	Gates to Spreading Grounds Open all day.					
5:30 PM	" # 202	24.54		Ash.					
		March 1, -		1932					
2:45 PM	Station # U-9	4.83	By Meter	Note: Gates to Spreading Grounds Open all day.					
3:15 PM	" # 202	0.00		Ash.					

PERCOLATION MEASUREMENTS

Big Dalton Spr.Grounds — River ~~Wash~~ — March 4, 5, 6 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
		March 4, 1932							
Noon	Station #U-9 G.H. 1.28	5.75	Discharge from rating curve (1932)						
	" #202	Dry	Note: 100% Percolation in Spreading Grounds.				ASH		
		March 5, 1932							
Noon	Station #U-9 Above Spr. Grounds G.H. 1.28	5.75	Note: 100% Percolation in Spreading Grounds.						
	Station #202	Dry					ASH		
		March 6, 1932							
Noon	Station #U-9 G.H. 1.28	5.75	Note: 100% Percolation in Spreading Grounds.						
	" #202	Dry					ASH		

PERCOLATION MEASUREMENTS

Big Dalton Spr.Grounds — River ~~Creek~~ ~~Wash~~ — March 11,16,18,25. — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
		March 11, 1932							
			Note: 100% Percolation in Spreading Grounds.						
5:00 PM	Station # U-9 above Spr.Grs.	0.83	By Meter						
5:30 PM	" # 209	Dry					Ash		
		March 16 - 1932							
			Note: 100% Percolation in Spreading Grounds.						
3:30 PM	Station # U-9 Inflow to Spreading Grounds	0.51	By Meter.						
3:45 PM	Station # 202 Downstream from Spr.Grounds	0.00					Ash		
		March 18 - 1932							
			Note: 100% Percolation in Spreading Grounds.						
9:30 AM	Sta. # U-9 Upstream from Spreading Grounds	0.60	By Meter						
10:00 AM	Sta. # 202 Downstream from Spreading Grounds	0.00					Ash		
		March 25 - 1932							
			Note: 100% Percolation in Spreading Grounds.						
10:45 AM	Sta. # U-9 Upstream from Spreading Grounds	0.435	By Triangular Weir						
11:00 AM	Sta. # 202 Downstream from Spreading Grounds	0.0					Ash.		

PERCOLATION MEASUREMENTS

Big Dalton — River ~~Creek~~ ~~Wash~~ — 1-7, 3-9, 6-8, — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
		Jan.7 - 1932							
12:30 PM	Ben Lomond Avenue	4.94	3800	15.5	58900	1.35	- 3.19	2.36	
1:15 PM	Citrus Avenue	1.75							
1:15 PM	" " below Inflow	3.49	4800	12.2	58560	1.34	- 3.49	2.60	
2:00 PM	End of Percolation					2.69	6.68	2.46	
			BREWSTER						
		March 9, 1932							
12:26 PM	Ben Lomond Avenue.	5.70	3600	16.6	59760	1.37	- 2.04	1.49	
12:56 PM	Citrus Avenue	3.66							
"	" " below Inflow	4.54	6400	13.5	86400	1.98	- 1.99	1.01	
1:40 PM	Azusa Avenue	2.55	6600	11.3	74580	1.71	- 1.86	1.09	
2:12 PM	Vincent Avenue	.69	4000	12.8	51200	1.18	- .69	.58	
3:10 PM	End of Percolation	.00				6.24	6.58	1.05	
NOTE: Water has been running over this area for about two months. BREWSTER.									
		June 8, 1932							
1:00 PM	Ben Lomond Avenue	3.55	3600	11.0	39600	.9	- 1.21	1.3	
1:40 PM	Citrus Avenue	2.34	4200	9.6	40320	.9	- 1.58	1.8	
2:55 PM	Cerritos Avenue	.76	1800	9.0	16200	.4	- .76	1.9	
3:30 PM	End of Percolation	.00				2.20	3.55	1.61	

PERCOLATION MEASUREMENTS

BIG ROCK — River ~~Creek~~ ~~Xxxx~~ — December 14 — 19 31

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
4:25 PM	1000' above S. Fork	.23							
4:05 PM	South Fork, Big Rock Creek	1.26							
4:45 PM	Holcomb Creek	.36							
		1.85							
3:05 PM	Big Rock Creek U.S.G.S.	3.68					+ 1.83		
3:25 PM	Devils Punch Bowl Creek	+ 1.29							
4:50 PM	Diversion No. 1	- .55							
		4.42							
5:05 PM	Submerged Dam	3.28					- 1.14		
5:10 PM	Valyermo Creek	.04							
5:20 PM	Springs near Ranger Station	.19							
		3.51							
5:35 PM	300' above Pallette Creek	3.47					- .04		

PERCOLATION MEASUREMENTS

BIG ROCK Creek — January 2 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
11:00 AM	1000' above South Forks	.17							
10:40 AM	So. Fork Big Rock Creek	5.37							
11:20 AM	Holcomb Creek	2.01							
	Total	7.55							
11:40 AM	Big Rock Creek U.S.G.S.	11.43					+ 3.88		
12:00 Noon	Devils Punchbowl Creek	+1.33							
12:15 PM	Diversion No. 1	- .45							
	Total	12.31							
12:20 PM	200' below Submerged Dam	13.75					+ 1.44		
12:40 PM	Valyermo Creek	+ .12							
12:50 PM	Springs at Ranger Station	+ .29							
	Total	14.16							
1:10 PM	500' above Pallette Creek	13.48					- .68		
1:20 PM	Pallette Creek	+ .44							
1:55 PM	Diversion No. 4	-1.11							
2:15 PM	Diversion No. 5	- 1.14							
	Total	11.67							
2:25 PM	Mouth of Canyon	8.20					- 3.47		
3:05 PM	Llano Highway	2.11					- 6.09		

PERCOLATION MEASUREMENTS

BIG ROCK Creek — January 9 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
4:30 PM	1000' above South Fork	.14							
	South Fork Est.	4.00							
	Holcomb Cre-- Est.	1.50							
4:10 PM	Big Rock U.S.G.S.	8.92							
4:30 PM	Devils Punchbowl Creek	+ .66							
4:40 PM	Diversion No. 1	- .55							
		9.03							
4:50 PM	Submerged Dam	9.33					+ .30		
5:00 PM	Valyermo Creek	+ .12							
5:35 PM	Springs at Ranger Station	+ .24							
		9.69							
5:15 PM	500' above Pallette Cr.	9.41					- .28		
5:35 PM	Pallette Creek	+ .03							
5:45 PM	Diversion No. 4	-1.42							
	Total	8.02					+ .08		
6:10 PM	Mouth of Canyon	8.10							
6:40 PM	Llano Highway	1.79					-6.31		

LUCE

PERCOLATION MEASUREMENTS

Big Rock Creek — January 16 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
3:00 PM	1000' above South Fork	.15							
	South Fork Dry	0							
3:51 PM	Holcomb Creek	1.50							
	Total	1.65							
3:45 PM	Big Rock U.S.G.S.	7.95					+ 6.30		
4:05 PM	Devils Punchbowl Creek	+ .44							
4:20 PM	Diversion No. 1	- .52							
	Total	7.87							
4:30 PM	Submerged Dam	6.77					- 1.10		
4:35 PM	Valyermo Creek	+ .09							
4:40 PM	Springs at Ranger Station	+ .25							
	Total	7.11							
5:00 PM	300' above Pallette Creek	8.75					+ 1.64		
5:10 PM	Pallette Creek	+ .03							
5:30 PM	Diversion No. 4	-1.32							
5:40 PM	Diversion No. 5	-1.20							
	Total	6.26							
5:45 PM	Mouth of Canyon	2.05					- 4.21		
6:00 PM	Llano Highway	0					- 2.05		

LUCE

PERCOLATION MEASUREMENTS

BIG ROCK Creek — January 23 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
	1000' above South Fork	Dry							
3:45 PM	South Fork Big Rock Creek	2.22							
4:00 PM	Holcomb Creek	.87							
	Total	3.09							
4:40 PM	Big Rock Creek U.S.G.S.	7.60					+ 4.51		
4:55 PM	Devils Punchbowl Creek	+ .31							
5:05 PM	Diversion No. 1	- .51							
	Total	7.40							
5:15 PM	Submerged Dam	5.81					- 1.59		
5:20 PM	Valyermo Creek	+.15							
5:25 PM	Springs near Ranger Sta.	+.22							
	Total	6.18							
5:35 PM	300' above Pallette Creek	8.52					+ 2.34		
	Pallette Creek	+.05							
	Diversion No. 4	-2.20							
	Diversion No. 5	-3.48							
	Total	2.89							LUCE
	Mouth of Canyon	.76					- 2.13		
	Spillback Diversion No. 5	+ .75							
	" " No. 5	+2.73							
	Total	4.24							
	Llano Highway	0					- 4.24		

PERCOLATION MEASUREMENTS

BIG ROCK Creek — 2 - 22 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
4:25 PM	U.S.G.S. 1 mi. above Montes	26.25							
4:45 PM	Devil's Punchbowl Creek	15.73							
	Total	41.98					+10.63		
5:10 PM	500' below Monte's Submerged Dam	52.61							
5:30 PM	Valyermo Creek	+5.40							
5:40 PM	Springs at Forestry Sta.	+ .21							
	Total	58.22							
5:50 PM	100' above Pallette Ck.	52.97					- 5.25		
6:20 PM	Pallette Ck. 100' above Big Rock Creek	+1.13							
6:35 PM	Diversion #5	-3.51							
	Total	50.59					-41.94		
6:45 PM	Llanos Highway	8.65							

LUCE & TURNER

PERCOLATION MEASUREMENTS

BIG ROCK Creek — January 30 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
1:30 PM	1000' above S. Fk. of Big Rock Creek	.23							
1:50 PM	South Fork of Big Rock Creek	2.09							
2:20 PM	Holcomb Creek	.62							
	Total	2.94							
2:35 PM	U.S.G.S. Big Rock Creek	6.17					+ 3.23		
3:25 PM	Side Canyon Inflow Trib. Below U.S.G.S.	+ .28							
2:50 PM	Devils Punchbowl Creek	+ .22							
3:00 PM	Diversion #1	- .38							
	Total	6.29							
3:05 PM	Big Rock Creek /Submerged Dam	5.05					- 1.24		
	Spring 500' above County Forestry Station	+ .10							
	Valyermo Creek, ¼ mile below Valyermo P.O.	+ .05							
	Total	5.20							
(Cont'd)	Big Rock Creek 300' Above Pallette Creek	6.61					+ 1.41		LUCE
	Pallette Creek 200' above Big Rock Creek	+ .03							
4:00 PM	Diversion #4 Big Rock Ck.	-2.14							
4:20 PM	Diversion #5 Big Rock Ck.	-3.12							
	Total	1.38							
4:25 PM	Big Rock Cr. Mouth of Cn.	.35					- 1.03		
4:30 PM	Return from Diversion #5	+ .45							
4:45 PM	" " " #5	+ .04							
	Total	.84							
	Big Rock Creek, Llano Hwy.	0					.84		

PERCOLATION MEASUREMENTS

BIG ROCK Creek — 2-27 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
5:15 PM	Big Rock Creek at U.S.G.S.	48.21							
5:30 PM	Devils Punchbowl Creek	+13.79							
5:40 PM	Valyermo Creek	+ 6.30							
5:50 PM	Springs at Highway	+ .23							
6:00 PM	Pallette Creek	+ 1.10							
6:20 PM	Diversion No. 5	- 3.85							
	Total	65.78							
6:30 PM	Mouth of Canyon	55.67					- 10.11		
7:05 PM	Llano Road	15.62					- 40.05		

LUCE

PERCOLATION MEASUREMENTS

BIG ROCK ~~River~~ Creek ~~Basin~~ — 3 - 26 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
10:15 AM	Big Rock Creek-1000' above South Fork	1.65							
10:30 AM	South Fork-1000' above Big Rock Creek	22.50							
11:15 AM	Holcomb Ck-1000' above Big Rock Creek	9.08							
	Total	33.23							
11:30 AM	Big Rock Creek- U.S.G.S.	37.77					+ 4.54		
11:55 AM	Devil's Punchbowl Creek	+4.43							
12:15 PM	Div. #1-½ mi. above Montes	-2.43							
1:45 PM	Div. #2-200' below Montes	- .31							
	Total	39.46							
1:30 PM	Big Rock Creek-300' below Montes	39.76					+ .30		
2:40 PM	Valyermo Creek	+ .55							
3:05 PM	Tributary Near Co.Forestry Station	+ .18							
	Total	40.49							
3:20 PM	Big Rock Creek-300' above Pallette	42.17					+ 1.68		
3:20 PM	Pallette Creek Bridge 300' Above Big Rock Creek	+ 1.51							
4:50 PM	Div. #5-300' above Mouth of Canyon	-3.78							
	Total	39.90							
4:35 PM	Big Rock Creek-Mouth of Canyon,2 channels	43.01					+ 3.11		
5:15 PM	Spillway from Flume Back into Big Rock Creek	.46							
	Total	43.47							
6:00 PM	Big Rock Creek at Llanos Highway	28.42					+ 15.05		

PERCOLATION MEASUREMENTS

BIG ROCK ~~River~~ Creek ~~Basin~~ — May 10 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
2:10 PM	Big Rock Cr. at U.S.G.S.	31.60							
2:30 PM	Devil's Punchbowl Cr. 150' Above Big Rock Creek	+ 2.81							
2:45 PM	Diversion No. 1	- 5.85							
2:55 PM	Diversion No. 2	- 1.67							
3:00 PM	Diversion No. 3	- 3.55							
3:15 PM	Valyermo Creek at Highway Bridge	+ .88							
3:20 PM	Springs at Highway Near Ranger Station	+ .71							
	Creek Total	24.93							
3:25 PM	Big Rook/300' above Pallette Creek	29.48					+ 4.55		
3:55 PM	Pallette Creek 300' above Big Rock Creek	2.34							
	Total	31.82							

LUCE

PERCOLATION MEASUREMENTS

BIG ROCK ~~River~~ Creek ~~Basin~~ — 5 - 14 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
10:00 AM	Snow Slide tributary - ¼ mile above Big Rock Creek	2.70							
11:10 AM	Upper Cabin Tributary 50' above Road	+ .89							
11:20 AM	Tributary 50' above Road	+ .47							
12:30 PM	Dorr. Cn. 1 mile above Narrows (mouth)	16.80							
	Total	20.86							
3:00 PM	Big Rock Creek East Channel 1000' above S. Fork	.74							
3:40 PM	Big Rock Creek W. Channel 1000' above S. Fork	3.47							
	Total	4.21					-16.65		
4:00 PM	S. Fk. Big Rock Cr. 500' above Big Rock Creek	18.95							
4:30 PM	Holcomb Cr. - 100' above Big Rock Creek	11.23							
	Total	34.39							
4:55 PM	Big Rock Creek at U.S.G.S.	45.29					+10.90		
5:10 PM	Devils Punch Bowl Creek 150' above Big Rock Creek	+ 3.12							
Continued.								LUCE	
5:35 PM	Big Rock Creek Diversion No. 1, ½ mi. below Big Rock	-3.31							
6:05 PM	Big Rock-Diversion No. 2 25' Below Big Rock Creek	-1.79							
6:10 PM	Spill back Diversion No. 2 Big Rock Creek	+ .39							
	Total	43.70							
5:50 PM	Big Rock Creek, 50' above Submerged Dam	42.81					- .89		
6:20 PM	Diversion No. 3-10' below Big Rock Creek	-3.54							
6:25 PM	Valyermo Cr. - Highway Br.	+1.02							
6:35 PM	Springs at Highway Near Ranger Station	+ .36							
	Total	40.65							
6:45 PM	Big Rock Creek - 300' above Pallette Creek	41.91					+1.26		
6:55 PM	Pallette Creek, Highway Br.	+2.59							
	Total	44.50							

LUCE

PERCOLATION MEASUREMENTS

BIG ROCK Creek — May 21 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
8:30 AM	Snow Slide Tributary	2.50							
9:30 AM	Upper Cabin Site	0.69							
9:40 AM	3rd Tributary	.37							
	Door Cn. 1 mile above Narrows	18.43							
	Total	21.99							
10:25 AM	West Channel	5.93							
10:10 AM	Center Channel	1.17							
10:00 AM	East Channel	1.13							
	Total	8.23					- 13.76		
11:25 AM	South Fork	21.00							
11:45 AM	Holcomb Creek	7.32							
	Total	28.32							
12:15 PM	Big Rock U.S.G.S. Station	44.10					+ 15.78		
12:25 PM	Devils Punchbowl Creek	+ 2.23							
12:40 PM	Diversion No. 1	- 3.45							
3:15 PM	Diversion No. 2	- 1.77							
3:20 PM	Spillback from Diversion No. 2	- .21							
	Total	41.21							

PERCOLATION MEASUREMENTS

BIG ROCK Creek — June 9 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
4:30 PM	South Fork-1000' above Big Rock Creek	8.75							
4:55 PM	Holcomb Creek 500' above Big Rock Creek	2.24							
5:30 PM	Big Rock U.S.G.S.	39.56							
5:50 PM	Devil's Punchbowl -300' above Big Rock Creek	+ .93							
6:05 PM	Diversion No. 1	-2.54							
6:10 PM	Diversion No. 2	- .88							
	Total	37.07							
6:15 PM	Big Rock Creek - 50' above Submerged Dam	37.62					+ .55		
6:40 PM	Diversion No. 3	-4.39							
6:55 PM	Valyermo Creek at Highway	+1.19							
7:05 PM	Springs-500' above Big Rock Creek	+ .54							
	Total	34.96							
7:15 PM	Big Rock Creek-300' above Pallette Creek	33.88					- 1.08		LUCE

PERCOLATION MEASUREMENTS

BIG ROCK Creek — May 21 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
3:40 PM	Big Rock Creek above submerged Dam	43.28					- 1.96		
3:40 PM	Diversion No. 3	- 3.46							
3:55 PM	Valyermo Creek	+ .56							
4:05 PM	Springs at Highway	+ .76							
	Total	41.14							
4:35 PM	Big Rock Creek 300' above Pallette Creek	42.78					+ 1.64		
4:50 PM	Pallette Cr. at Big Rock Ck.	+ 2.22							
6:15 PM	Diversion No. 4	- 9.70							
5:40 PM	" No. 5	- 8.72							
	Total	26.56							
5:25 PM	Big Rock Creek at Mouth of Cn.	28.43					+ 1.85		
5:45 PM	Big Rock Creek Side Channel	+ 0.17							
5:15 PM	" " Creek Side Channel	+ .14							
6:20 PM	Spillback Diversion No. 3	+ .70							
	Total	29.44							
6:45 PM	Big Rock Creek Llanos Highway	25.35					- 4.09		LUCE

PERCOLATION MEASUREMENTS

BIG ROCK Creek — June 10th 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
4:20 PM	Big Rock Creek - 300 Ft. above Pallette Creek	34.16							
6:35 PM	Pallette Creek at Highway Bridge	+ 2.32							
6:50 PM	Diversion No. 4	- 8.02							
6:45 PM	Diversion No. 5	- 4.16							
	Total	24.30							
4:40 PM	Big Rock Ck. Mouth of Cn.	19.56					- 4.74		
5:50 PM	Big Rock Ck. Llano Highway	14.30					- 5.26		

LUCE

BIG ROCK Creek — June 16 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach in Feet	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
2:30 PM	Mouth of Canyon	14.62							
3:10 PM	Spillback Diversion No. 5	+ .26							
2:10 PM	" " No. 5	+ .23							
	Total	15.11							
4:40 PM	Llano Highway	11.24	13,700	28.1	385500	8.85	- 3.87	- .45	
6:50 PM	Cross road 1400' below Llano Highway	8.79	14,000	17.7	248000	5.69	- 2.45	- .43	
6:30 PM	3900' below Cross Road	7.83	3,900	15.9	61800	1.42	- .96	- .68	

PERCOLATION MEASUREMENTS

BIG ROCK Creek — 6 - 17 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
9:00 AM	Big Rock Creek-East Channel 1000' above South Fork	2.42							
8:50 AM	Big Rock Creek, Center Channel 1000' above S.Fork	1.64							
8:40 AM	Big Rock Creek West Channel 1000' above South Fork	8.62							
	Total	12.68							
8:20 AM	South Fork 1000' above Big Rock Creek	6.17							
9:15 AM	Holoomb Cn. 500' above Big Rock Creek	1.49							
	Total	20.34							
9:30 AM	Big Rock Creek U.S.G.S. Station	32.72					+12.38		
9:50 AM	Devils' Punchbowl Creek 500' above Big Rock Creek	+ .50							
10:00 AM	Diversion No. 1	- 3.04							
10:10 AM	Diversion No. 2	- 1.54							
	Total	28.64							
10:15 AM	Big Rock Creek-100' above Submerged Dam	33.21					+ 4.57		
10:35 AM	Diversion No. 3	- 3.41							
10:50 AM	Valyermo Creek	+ .41							
11:00 AM	Springs at Ranger Sta.	+ .35							
	Total	30.56							
11:15 AM	300' above Pallette creek	29.90					- .66		
11:25 AM	Pallette Creek at Highway	+ 1.56							
	Diversion No. 4	- 6.09							
2:25 PM	Diversion No. 5	- 5.31							
	Total	20.06							
2:20 PM	Mouth of Canyon	16.24					- 3.82		
4:10 PM	3900' below Cross Road	7.64							
4:50 PM	Cross road at Power Line	8.89	4,700	16.4	77100	1.77	+ 1.25	+ .71	
6:10 PM	1500' above 3rd Cross Road								
	West Channel	.95							
	East Channel	5.18	6,000	13.2	79000	1.81	- 2.76	-1.53	
	Total	6.13							
6:45 PM	End of R	0	5,000	31.0	155000	3.56	- 6.13	- 1.72	

PERCOLATION MEASUREMENTS

BIG ROCK Creek — June 23 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
3:10 PM	East Channel - 2.26 o.f.s.								
3:00 PM	Center " - 1.06	12.05							
2:45 PM	West " - 8.73								
2:30 PM	So. Fork - 1000' above Big Rock Creek	2.19							
4:00 PM	Holoomb Creek-500' above Big Rock Creek	.47							
	Total	15.21							
4:20 PM	Big Rock - U.S.G.S.	25.43					+ 10.22		
4:35 PM	Devils Punch Bowl Creek 1000' above Big Rock Ck.	.20							
4:45 PM	Big Rock Creek-Diversion No. 1	-2.93							
4:55 PM	Big Rock Creek-Diversion No. 2	-1.23							
	Total	21.47							
5:05 PM	Submerged Dam	20.35					- 1.12		
5:15 PM	Div. #3	- 3.66							
5:25 PM	Valyermo Creek at Highway	+ .31							
5:30 PM	Springs above Ranger Sta.	+ .18							
	Total	17.18							
5:40 PM	Big Rock Creek - 300' above Pallette Cr.	22.68					+ 5.50		

LUCE

PERCOLATION MEASUREMENTS

BIG ROCK Creek — June 24th 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
10:15 AM	Creek Big Rock/300' above Pallete Creek	27.91							
10:00 AM	Pallette Creek-Highway Bridge	+ 1.73							
11:20 AM	Big Rock Creek Diversion No. 4	- 9.71							
11:00 AM	Big Rock Creek-Diversion No. 5	- 6.49							
	Total	13.44							
10:50 AM	Big Rock Creek-Mouth of Canyon	9.93					- 3.51		
1:20 PM	Spillback Diversion No. 5	+ .21							
		10.14							
1:40 PM	Big Rock Creek Llanos Highway	4.39					- 5.75		

LUCE

PERCOLATION MEASUREMENTS

BIG ROCK Creek — July 2 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
1:55 PM	E. Channel 1000' above S. Fork	2.44							
1:40 PM	Center Channel - 1000' above S. Fork	1.23							
1:55 PM	W. Channel 1000' above S. Fork	7.68							
	Total	11.35							
1:20 PM	South Fork 500' above Big Rock Creek	1.02							
2:15 PM	Holcomb Creek-1000' above Big Rock Creek	.42							
	Total	12.79							
2:20 PM	U.S.G.S. Station U-14	22.56					+ 9.77		
2:35 PM	Devils Punch Bowl Creek	+ .12							
2:40 PM	Diversion No. 1	-3.39							
2:40 PM	Diversion No. 2	-1.00							
	Total	18.29							
2:45 PM	Big Rock Creek-100' above Submerged Dam	17.17					- 1.12		
3:00 PM	Diversion No. 3	-4.36							
11:35 AM	Valyermo Creek	+ .93							LUCE
11:25 AM	Springs at Highway	+ .19					+ 4.45		
	Total	13.93							
3:15 PM	Big Rock Creek 300' above Pallette	16.38							
11:15 AM	Pallette Creek at Highway	+1.35							
3:25 PM	Diversion No. 4	-6.58							
3:30 PM	Diversion No. 5	-10.49							
		2.66					- .91		
3:40 PM	Big Rock Creek at Moutb of Canyon	1.75					- .92		
3:50 PM	Big Rock Creek at Llanos Highway	.83							
									LUCE

PERCOLATION MEASUREMENTS

BIG ROCK Creek — July 6 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
2:50 PM	East Channel-1000' above South Fork	2.36							
3:00 PM	Center Channel - 1000' above South Fork	1.51							
3:25 PM	West Channel-1000' above South Fork	3.18							
	Total	7.05							
3:15 PM	South Fork-500' above Big Rock Creek	.28							
3:40 PM	Holcomb Creek-100' above Big Rock Creek	.22							
	Total	7.55							
4:05 PM	U.S.G.S.	18.86					+ 11.31		
4:20 PM	Diversion No. 1	-3.60							
4:30 PM	Diversion No. 2	- .88							
	Total	14.38							
4:40 PM	Big Rock-Submerged Dam	12.38					- 2.00		
5:00 PM	Diversion No. 3	- 3.89							
5:20 PM	Springs - Near Gov. Ranger Sta. Valyermo Cr.at Hwy.	+ .55							
	Total	9.20							LUCE

PERCOLATION MEASUREMENTS

BIG ROCK Creek — July 10th 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
12:45 PM	Big Rock Creek-300' above Pallette Creek	17.91							
1:10 PM	Pallette Creek-100' above Big Rock Creek	+ 1.39							
2:00 PM	Diversion No. 4	- 6.74							
1:45 PM	Diversion No. 5	- 9.03							
	Total	3.53							
1:25 PM	Big Rock Creek at Mouth of Canyon	.02					- 3.51		
									LUCE

PERCOLATION MEASUREMENTS

BIG ROCK Creek — July 9 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
3:40 PM	Center Channel 1000' above S. Fork.	1.51							
3:30 PM	West Channel 1000' above S. Fork	3.56							
3:50 PM	Big Rock East Channel 1000' above S. Fork	2.38							
	Total	7.45							
3:00 PM	South Fork-500' above Big Rock Creek	.39							
4:00 PM	Holcomb Creek-500' above Big Rock Creek	.37							
	Total	8.21							
4:20 PM	Big Rock Creek at U.S.G.S.	20.64					+ 12.43		
4:35 PM	Devil's Punchbowl Creek - 300' above Big Rock Ck.	+ .12							
4:50 PM	Diversion No. 1	-3.37							
5:00 PM	" No. 2	- .84							
	Total	16.55					- .99		
5:10 PM	Big Rock Creek-100' above Submerged Dam	15.56							
5:20 PM	Diversion No. 3	-4.29							
5:30 PM	Valyermo Cr. at Highway	+ .69							
5:40 PM	Springs at Highway Ranger Sta.	+ .21							
	Total	12.17							
5:50 PM	Big Rock Creek 300' above Pallette Creek	16.90					+4.73		

PERCOLATION MEASUREMENTS

BIG ROCK Creek — July 16 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
5:30 PM	300' above Pallette Creek	13.60					+ 4.40		
6:15 PM	Pallette Creek - Highway at Big Rock Creek	+ 1.66							
6:00 PM	Div. No. 4- Mouth of Canyon	- 6.31							
6:30 PM	Div. No. 5- Big Rock Creek	- 8.60							
	Total								
	Mouth of Canyon	0					- .35		

PERCOLATION MEASUREMENTS

BIG ROCK Creek — July 30 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
11:05 AM	West Channel above S. Fork	3.28							
11:10 AM	Center " " "	.82							
11:20 AM	East " " " "	1.64							
		5.74							
11:55 AM	South Fork Big Rock Creek	.01							
		5.75							
2:15 PM	U.S.G.S.	14.62					+ 8.87		
2:30 PM	Diversion #1	-3.72							
2:40 PM	Diversion #2	-1.14							
	Total	9.76							
2:45 PM	Above Submerged Dam	9.49					- .27		
2:55 PM	Diversion #3	-3.32							
3:20 PM	Valyermo Creek	+ .47							
3:30 PM	Springs Highway near Ranger Station	+ .18							
		6.82							
3:40 PM	300 Ft. above Pallette Creek	10.95					+4.13		

Continued

PERCOLATION MEASUREMENTS

BIG ROCK Creek — July 30 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
4:10 PM	Pallette Creek	+ 1.46							
3:50 PM	Diversion #4	- 5.35							
4:45 PM	Diversion #5	- 4.48							
		- 2.58							
5:00 PM	Mouth of Canyon	0					- 2.58		

PERCOLATION MEASUREMENTS

BIG ROCK ~~River~~ Creek ~~Basin~~ — August 6 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
8:40 AM	1000' above S.Fk.W. Channel	2.39							
8:50 AM	" " " " Center "	.80							
9:00 AM	" " " " E. Channel	2.84							
	Total	6.03							
	S. Fork Big Rock Creek Dry	0							
	Holcomb Creek "	0							
11:10 AM	Big Rock U.S.G.S.	13.99					+ 7.96		
	Devils Punchbowl Creek "	0							
11:30 AM	Diversion No. 1	-3.74							
1:50 PM	Diversion No. 2	-1.06							
	Total	9.19							
2:00 PM	100' above submerged Dam	8.37					.82		
2:10 PM	Diversion No. 3	-3.14							
2:25 PM	Valyermo Creek	+ .53							
2:35 PM	Springs near Ranger Station	+ .16							
Continued	Total	5.92							LUCE
4:30 PM	300' above Pallette Creek	7.12					+ 1.20		
5:05 PM	Pallette Creek	+1.65							
4:50 PM	Diversion No. 4	-5.28							
5:45 PM	Diversion No. 5	-6.33							
	Total		By pumping from basin				2.84		
	Mouth of Canyon Dry	0							

LUCE

PERCOLATION MEASUREMENTS

BIG ROCK ~~River~~ Creek ~~Basin~~ — August 20 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
3:25 PM	1000' above S. Fork W.Channel	1.83							
3:35 PM	" " " " E. Channel	.54							
3:45 PM	" " " Center "	1.93							
	Total	4.30							
	South Fork dry	0							
	Holcomb Creek "	0							
	Total	4.30							
5:15 PM	Big Rock Creek U.S.G.S.	13.29					+ 8.99		
	Devils Punch bowl Creek Dry	0							
5:30 PM	Diversion No. 1	-3.37							
5:35 PM	Diversion No. 2	-1.00							
	Total	8.92							
5:40 PM	Submerged Dam	6.14					- 2.78		
6:00 PM	Diversion No. 3	-3.25							
6:20 PM	Valyermo Creek	+ .42							
6;15 PM	Springs at Ranger St.	+ .33							
Continued	Total	3.64							LUCE
6:25 PM	300' above Pallette	6.94					+ 3.30		
6:35 PM	Pallette Creek	+1.28							
6:40 PM	Diversion No. 4	-3.07							
7:00 PM	Diversion No. 5	-3.82							
	Total	1.33							
	Mouth of Canyon Dry	0					- 1.33		

LUCE

PERCOLATION MEASUREMENTS

BIG ROCK River Creek Wash — 7 - 23 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
4:20 PM	Big Rock Creek-East Channel	3.59)							
4:35 PM	" " " West "	2.38)	300' above South Fork						
4:30 PM	" " " Center "	1.02)							
4:00 PM	South Fork-500' above Big Rock Creek	.07							
4:55 PM	Holcomb Creek-1000' above Big Rock Creek	.14							
	Total	7.20							
5:10 PM	U.S.G.S.	16.54					+ 9.34		
5:25 PM	Diversion No. 1 = 3.62 cfs)								
5:40 PM	" No. 2 = 1.05 cfs)	4.67							
	Total	11.67							
5:45 PM	Submerged Dam	11.83					+ .06		
	Diversion No. 3	4.39							
6:20 PM	Valyermo Creek at Highway	+ .53							
6:30 PM	Springs at Ranger Station	+ .22							
	Total	8.19							
6:35 PM	300' above Pallette Creek	12.86					+ 4.67		
5:45 PM	Pallette Creek at Big Rock Creek	1.78							
		14.64							LUCE

PERCOLATION MEASUREMENTS

BIG ROCK River Creek Wash — August 27 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
2:50 PM	Big Rock U.S.G.S.	13.32							
	Devils Punchbowl Creek Dry	0							
3:20 PM	Diversion No. 1	-4.11							
3:30 PM	Diversion No. 2	- 2.04							
	Total	7.17							
3:35 PM	Submerged Dam	6.12					- 1.05		
3:50 PM	Diversion No. 3	-2.73							
4:10 PM	Valyermo Creek	+ .45							
4:15 PM	Springs - Ranger Station	.30							
	Total	4.14							
4:24 PM	300' above Pallette Creek	6.05					+ 1.91		
5:05 PM	Pallette Creek	+1.03							
4:45 PM	Diversion No. 4	-3.60							
5:40 PM	Diversion No. 5	-2.35							
	Total	1.13							
	Mouth of Canyon Dry	0					- 1.13		LUCE

PERCOLATION MEASUREMENTS

BIG ROCK River Creek Wash — September 3 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
12:45 PM	1000' above S.Fork E.Channels	3.62							
	South Fork Big Rock Dry	0							
	Holcomb Creek "	0							
	Total	3.62							
1:15 PM	Big Rock U.S.G.S.	11.42					+ 7.20		
	Devils Punchbowl Creek Dry	0							
1:50 PM	Diversion No. 1	+ 3.35							
2:50 PM	Diversion No. 2	- .64							
	Total	7.43							
3:00 PM	Submerged Dam	4.33					- 3.10		
3:10 PM	Diversion No. 3	3.62							
3:15 PM	Valyermo Creek Est.	+ .45							
3:25 PM	Springs near Ranger Sta. Est	+ .25							
	Total	4.32							
4:00 PM	300' above Pallette Creek	4.74					+ .42		
4:20 PM	Pallette Creek	.95							
	Total	5.69	All being diverted Diversion Nos. 4 & 5						LUCE & BOLLINGER

PERCOLATION MEASUREMENTS

BIG ROCK River Creek Wash — September 14 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
1:30 PM	1000' above South Fork	2.15							
	South Fork Dry	0							
	Holcomb Creek "	0							
2:10 PM	U.S.G.S.	9.20					+ 7.05		
	Devils Punchbowl Creek "	0							
2:40 PM	Diversion No. 1	-4.00							
2:25 PM	Diversion No. 2	- .47							
3:10 PM	Diversion No. 3	-2.92							
	Total	1.81							
	Below Submerged Dam	0					- 1.81		
3:15 PM	Valyermo Creek Est.	.45							
3:20 PM	Springs Ranger Sta. "	.25							
	Total	.70							
3:35 PM	300' above Pallette Creek	4.84					+ 4.14		
4:00 PM	Pallette Creek	+ .68							
	Total	5.52	All diverted by Diversions Nos. 4 & 5						BOLLINGER

PERCOLATION MEASUREMENTS

BIG SANTA ANITA ~~River~~ Creek — January 25th 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
2:55 PM	Sta. #20+00 150' below Cook Woodley Diversion	2.11						
3:05 PM	Inflow from Cook-Woodley	.17						
	Inflow plus Sta. #20+00	2.28	2200				- 1.00	
3:15 PM	Sta. #44 (150 below inflow	1.28	1100				- .18	
3:30 PM	Sta. #55+00	1.10	200				+ .17	
3:50 PM	Sta. #62+00	1.27	1800				- .46	
4:10 PM	Sta. #80+00	.81	2500				- .09	
4:35 PM	Sta. #105+00	.72	1300				- .23	
5:00 PM	Sta. #118+00	.49	900				- .16	
5:25 PM	Sta. #127 (Woodland Ave)	.33	700				- .33	
5:40 PM	Sta. #134+00	0.0						

LINDSAY-HARTING

PERCOLATION MEASUREMENTS

BIG SANTA ANITA ~~River~~ Creek — February 13th 17th 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
			FEBRUARY 13th					
3:30 PM	Foothill Blvd.	88.00					60.96	
2:25 PM	300' Below Arrow Highway	27.04						
			FEBRUARY 17th					
10:30 AM	Below F. C. Dam at Recording Station	38.25	14,000				- .42	
11:15 AM	Foothill Blvd.	37.83	4,800				- 2.69	
12:00 PM	Huntington Dr.	35.14	3,700				- 16.14	
12:20 PM	Duarte Road	19.00	3,700				- 10.45	
12:40 PM	Valnett Street	8.55	6,000				- 4.88	
1:00 PM	.20 mile below Arrow Highway	3.67						

LINDSAY

PERCOLATION MEASUREMENTS

BIG SANTA ANITA ~~River~~ Creek — Feb. 25 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:15 AM	50' below F. C. Station	35.16					- 2.59	
10:15 AM	At Orange Grove St.	32.57					- 2.91	
11:10 AM	100' above Foothill Blvd	29.68					- 1.09	
11:50 AM	P.E. Bridge Arcadia	28.59					- 4.32	
12:45 PM	Huntington Bridge	24.27					- 4.32	
1:20 PM	Duarte Road	14.87					- 9.40	
1:55 PM	Valnett Street	3.50					- 11.37	
2:50 PM	Walnut Avenue Arcadia	1.73					- 1.77	
	1100 Below Walnut Ave.	0					- 1.73	

HARTING - LAIRD

PERCOLATION MEASUREMENTS

BIG SANTA ANITA ~~XXXXX~~ Creek — 3 - 10 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
11:10 AM	700' below Big Santa Anita Dam	5.44						
2:15 PM	At Rec. Sta. 2000' Dn. Str. from dam	4.67	1300	35	45,500	1.04	- .77	.74
2:00 PM	Water Diverted by Irrigation System	1.12						
2:45 PM	2600' Dn. Str. from Big Santa Anita Dam	3.24	600	30	18,000	.41	- .31	.75
3:00 PM	4650' Dn. Str. Fr. B.S.A. Dam, over flow from irrigation system	+ .14	7250	27	195750	4.49	-1.36	.30
4:00 PM	9850' dn. Str. from Dam	2.02	5000	20	100000	2.30	- 1.14	.50
4:40 PM	14850' dn. str. from dam (Foothill Blvd.)	.88	2000	12	24000	.55	- .74	1.34
5:00 PM	16850' dn. str. from Big. S. Anita Dam	.14	1000	4	4000	.09	- .14	1.56
5:15 Pm	17850' dn. str. from Big. S. Anita Dam	0.00				8.88	4.46	.50

ASH

PERCOLATION MEASUREMENTS

BIG SANTA ANITA ~~River Creek~~ CREEK — 3 - 30 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
4:45 PM	At Flume Big Santa Anita Dam	5.08						
			700'	35'	24500	0.562	-0.120	0.214
4:45 PM	Approx. 700' below Big Santa Anita Dam	4.96						
			1300	30	39000	0.895	-0.500	0.559
4:15 PM	At Rec.Sta. 2000' Downstream from Big Santa Anita Dam	4.46						
			300	30	9000	0.207	-0.130	0.495
4:00 PM	Inflow to Private Irrigation System Sta. 23+00	2.82						
3:30 PM	2300' downstream from Big Santa Anita Dam	1.51						
			2350	25	58750	1.348	-0.680	0.504
2:45 PM	4650' Downstream from Big Santa Anita Dam	0.83						
2:00 PM	4650' downstream overflow from irrigation system	+1.35						
			1250	30	37500	.8608	+.16	
1:00 PM	5900' downstream from Big Santa Anita Dam	2.34						
			5400	30	162000	3.719	-0.960	0.253
11:45 AM	11300' Downstream from Big Santa Anita Dam	1.38						
			1150	20'	23000	.523	-0.050	0.095
11:00 AM	124.50 Downstream from Big Santa Anita Dam	1.33						
			2400	12	28800	.661	-0.948	1.434

PERCOLATION MEASUREMENTS

BIG SANTA ANITA ~~River Creek~~ Wash — 3 - 30 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
6:00 PM	14850' Downstream from Dam at Foothill Blvd.	0.382	1000	4	4000	.092	- 0.382		4.152
6:15 PM	15850' Below Big Santa Anita Dam	0.00							

PERCOLATION MEASUREMENTS

BIG TUJUNGA ~~River Creek~~ WASH — Jan. 22 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
12:00 M	Mouth of Canyon near Sunland	26.94						
							- 4.70	
12:30 PM	Foothill Blvd. Bridge Sta. 155	22.24						
12:45 PM	(Little Tujunga Dry)							
							- 8.01	
1:00 PM	Mulholland St. Bridge Sta. 20	14.23						
							- 3.30	
1:50 PM	San Fernando Road Br. Sta. 114	10.93						
							-10.82	
2:15 PM	Laurel Canyon Road	.11						

LUCE & WADDICOR

PERCOLATION MEASUREMENTS

Big Tujunga ~~River Creek~~ Wash — 2 - 18 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
9:10 AM	Big Tujunga at Mulholland St.	384.87							
10:50 AM	San Fernando Road	263.32							
12:20 PM	Laurel Canyon Blvd.	232.23	3000		348000	7.98	- 26.09	3.26	
12:35 PM	Sherman Way	12.93	27800		4447800	102.10	-224.30	2.19	
	Colfax Street	Dry	9880		491560	11.28	- 12.93	1.14	
						121.36	263.32	2.17	

Luce & Waddicor

PERCOLATION MEASUREMENTS

Big Tujunga ~~River Creek~~ Wash — 4 - 8 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
12:05 PM	Caretaker's House	3.18							
			4544	8.2	37300	.86	+ .37		
1:15 PM	Below Clear Cr.	3.55							
			5112	7.3	37300	.86	+ .93		
1:45 PM	Below Fusier Cr.	4.48							
			2840	10.0	28400	.65	+ .46		
2:00 PM	Below Vasquez-Water Cr.	4.94							
			3408	17.0	58000	1.33	+ .80		
2:30 PM	Below Sister Elsie Cr.	5.74							
			8520	18.0	153000	3.52	+ .15		
2:50 PM	Below Vogel Cn. Cr.	5.89							
			11076	14.2	157500	3.62	+ 1.43		
3:20 PM	Below Trail Cn. Cr.	7.32							
			7668	14.8	113500	2.62	+ 1.41		
3:35 PM	Above Gold Cn. Cr.	8.73							
	Gold Cn. 0.42								
4:15 PM	Lower Diversion 0.79								
			25560	12.2	312000	7.15	- 6.25	.87	
4:25 PM	Foothill Blvd.	2.11							
			15336	6.5	99500	2.28	- 1.56	.68	
5:05 PM	Mulholland St.	0.55							

Turner

PERCOLATION MEASUREMENTS

Big Tujunga ~~River~~ ~~Creek~~ Wash — 4 - 8 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
8:00 AM	Caretaker's House	7.90							
	Hansen Cr. .04								
	Maple Cr. .08								
	Clear Cr. .74		4544	23.5	106784	2.5	+ .81		
10:40 AM	Below Clear Cr.	8.71							
11:25 AM	Dam Site #2	8.91							
	Fusier Cr. .002		5112	24.5	125000	2.9	- .58	- .22	
12:50 PM	Below Fusier Cr.	8.33							
	Vasquez Cr. .08								
	Water Cr. .14		2840	19.0	53960	1.23	+ 2.25		
1:35 PM	Below Vasquez & Water Cr.	10.58							
	Sister Elsie Cr. .07		3408	22.0	74976	1.7	+ .04		
2:10 PM	Below Sister Elsie Cr.	10.62							
	Ybarra Div. .02								
	Trail Cn. Cr. .78		19596	17.0	333132	7.6	+ .21		
2:50 PM	Below Trail Cn. Cr.	10.83					+ 1.08		
3:15 PM	Cable Meas. Sta. below USGS Gold Cn. Cr.	11.91	7660	18.5	141710	3.3	- .77	.23	
4:00 PM	Below Gold Cn. Cr.	11.14							
	Lower Diversion .55								

Turner-Brown

204

PERCOLATION MEASUREMENTS

BIG TUJUNGA ~~River~~ ~~Creek~~ Wash — 4 - 13 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
9:00 AM	Caretaker's House	13.19							
	Maple Creek .04								
	Clear Creek .33		4544	25	113600	2.6	+ 3.51		
11:30 AM	150' below Clear Cr.	17.07							
	Fusier Cr. .02		5112	24.7	126266	2.9	- .81	.28	
12:00 M	Below Fusier Cr.	16.28							
	Vasquez Cr. .02								
	Water Cr. .06		2840	13.3	37772	.86	- .34	.40	
12:20 PM	Below Vasquez & Water Cr.	16.02							
	Sister Elsie Cr. .02		3408	16.0	54528	1.25	+ 1.75		
12:45 PM	Below Sister Elsie Cr.	17.79							
			8520	20.5	174660	4.00	+ .48		
1:10 PM	Below Vogel Cr.	18.27							
	Ybarra Div. .08								
	Trail Cn. Cr. .25		11076	20.5	227058	5.21	- 1.10	.21	
1:40 PM	Below Trail Cn. Cr.	17.47					+ 2.79		
3:00 PM	U.S.G.S. Sta.	20.26							
	Monte Vista Water Co. Div. .18								
	Gold Cn. Cr. .12		7668	20.0	153360	3.52	- 1.75	.50	
2:25 PM	Below Gold Cn. Cr.	18.81							
	Lower Diversion .34		25560	18.5	472860	10.82	- 7.70	.71	
3:45 PM	Foothill Blvd.	11.45							
			15336	13.0	199368	4.57	- 5.86	1.28	
4:15 PM	Mulholland St.	5.59					- 5.59		
	Dry at San Fernando Rd. during day.								

Turner-Brown

PERCOLATION MEASUREMENTS

BIG TUJUNGA ~~River~~ Creek — 4 - 19 — 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
8:00 AM	Caretaker's House	13.60						
9:55 AM	Maple Cr. .047							
10:25 AM	Clear Cr. .49		4544	24	109,056	2.5	+ .02	
10:15 AM	Below Maple & Clear Cr.	14.16						
10:45 AM	Dam Site #2							
11:00 AM	Fusier Cr. .01		5112	20	102,242	2.34	+ .32	
11:10 AM	Below Fusier Cr.	14.49					-1.59	
11:30 AM	Vasquez Cr. .08							
12:40 PM	Below Vasquez Cr.	12.98						
12:30 PM	Water Cn. Cr. .08		2840	15	42,600	.98	-2.73	2.76
12:10 PM	Below Water Cn. Cr.	10.31						
12:45 PM	Sister Elsie Cr. .09		3408	18.5	63,048	1.44	+3.04	
12:50 PM	Below Sister Elsie Cr.	13.44						
			8520	22.0	187,440	4.30	+1.49	
1:00 PM	Below Vogel Cn. Cr.	14.93						
1:10 PM	Ybarra Div. .29							
1:20 PM	Trail Cn. Cr. .91		11076	23.5	260,286	5.98	- .82	.14
3:40 PM	Below Trail Cn. Cr.	15.31						
3:10 PM	U.S.G.S. Sta. 16.31							
2:35 PM	Monte Vista Water Co. .68							
2:10 PM	Gold Cn. Cr. .16		7668	22.8	174,830	4.02	+ .82	
2:20 PM	Below Gold Cn. Cr.	17.00						
1:50 PM	Lower Div. 2.05							
4:15 PM	Johnson's Div. .35		25,560	18.2	465,192	10.63	- 11.05	1.04
4:30 PM	Foothill Blvd.	8.35						
			15,336	14.8	226,973	5.20	- .92	.18
5:10 PM	Mulholland St.	7.43					- 7.43	
	Some irrigation water entering stream below Foothill Blvd. Water very muddy. Dry at San Fernando Rd. during day.							

TURNER - BROWN

PERCOLATION MEASUREMENTS

BROWN CANYON WASH ~~River~~ ~~Creek~~ — November 6 — 19 31

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
10:10 AM	Devonshire St. Bridge	1.41						
10:25 AM	20' Below Gravel Pit	0.31			3422	.08	- 1.10	13.78

ADDIOTR.

PERCOLATION MEASUREMENTS

CASTAIC ~~River~~ Creek ~~Bank~~ — April 21 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
3:50 PM	2000' above Fish Canyon	.53							
3:40 PM	Fish Canyon 1000' above Castaic Creek	.99							
	Total	1.52							
4:05 PM	2.4 mi. below Fish Cn.	.66					- .86		
4:25 PM	5.1 Mi. below Fish Cn.	.33					- .33		
4:45 PM	Elizabeth Cn.Rd. N. Channel	.06							
	" " " So. "	.42					+ .16		
	Total	.49							

LUCE & WADDICOR

PERCOLATION MEASUREMENTS

EATON WASH ~~River Creek~~ — December 29th 19 31

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
8:55 AM	150' Below P.W.D. Gaging Sta. Huntington Drive	13.68		15			- 3.45	
9:25 AM	300' Below DuarteRoad	10.23		20			- .29	
9:50 AM	Garabaldi St. (Temple City)	9.94		20			- 3.30	
10:15 AM	Las Tunas Ave. (Temple City)	6.64		20			- .89	
10:40 AM	Broadway Ave. (San Gab.)	5.75		20			- 1.66	
11:10 AM	Lower Azusa Road	4.09		15			- .85	
11:35 AM	Ellis Lane	3.24						

PERCOLATION MEASUREMENTS

EATON WASH ~~River Creek~~ — February 12th 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
9:50 AM	Foothill Blvd.	19.27						
10:10 AM	San Pasqual Bridge	19.01	5,200	20	104,000	2.39	- .26	.10
10:50 AM	Huntington Drive	16.21	3,200	20	64,000	1.47	- 2.80	1.90
11:20	S. P. Bridge	16.43	1,300	20	26,000	0.60	± .22	
12:00 M	Crusher Waste	+.23						
	S. P. Bridge + Waste	16.66	2,000	20	40,000	0.92	- 4.19	4.55
12:10 PM	Duarte Rd.	12.47	2,800	20	56,000	1.28	- 2.19	1.71
12:40 PM	Longden Ave.	10.28	4,000	20	80,000	1.84	- 4.12	2.24
1:10 PM	Las Tunas	6.16	4,800	15	72,000	1.65	- .14	.084
1:30 PM	Rosemead Avenue	6.02	4,200	15	63,000	1.45	- 1.30	.89
1:50 PM	Lower Azusa Road	4.72	2,600	15	39,000	0.90	- 1.63	1.81
2:15 PM	Ellis Lane	3.09						
3:15 PM	Ellis Lane	2.10						
3:40 PM	300' Below Valley Blvd.	1.40	2,500				- .70	
4:00 PM	P. E. Bridge	1.20	2,600				- .20	
4:25 PM	Mouth of Rio Hondo	1.25	900				+ .05	

February 12th, at 4:00 P.M. U.S.G.S. (Toll Bridge) has 20.0 c.f.s.

HARTING

PERCOLATION MEASUREMENTS

EATON WASH ~~River~~ — December 3 19 31

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
	Above Duarte Road	.62						
	Broadway	.17					- .45	
	600' below Ellis Lane	0					- .17	

LINDSAY

PERCOLATION MEASUREMENTS

ELIZABETH LAKE ~~XXXX Creek~~ CREEK — February 4th 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
1:20 PM	Middle Cabin Site-Br.	24.37						
2:00 PM	1½ miles below Station	23.71	7920	18	143510	3.29	- .66	.2
2:45 PM	2½ miles below Station	24.03	4300	64	275300	6.32	+ .32	
3:00 PM	3½ miles below Station	9.20	3800	131	496375	11.40	- 14.83	1.30
3:25 PM	Above Castaic Creek	2.21	3300	36	118700	2.72	- 6.99	3.67
4:00 PM	Inflow from Castaic Ck.	14.51	7300	22.4	163750	3.75	- 7.65	2.03
4:30 PM	Mouth of Canyon-above Town of Castaic	9.09	7000	33	233000	5.34	- 7.35	1.37
5:0[illegible] PM	[illegible]t (3 in 1) Gun Club Road	1.74	11250	28	314000	7.20	- .74	.10
5:30 PM	Highway Bridge	1.07					- 1.07	
5:45 PM	End of Flow - At Santa Paula Rd.	0.0						LUCE

PERCOLATION MEASUREMENTS

LITTLE ROCK ~~XXXX~~ Creek — March 1st 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
2:35 PM	2nd Crossing Below Dam	94.51						
5:00 PM	(Little Rock Diversion) Above Submerged Dam	1.77						
4:15 PM	300' Below Submerged Dam	96.84						
4:45 PM	150' Above Little Rock 150' above Cutoff Hwy	96.26					- .58	
5:20 PM	Little Rock Highway	76.56					-19.70	
6:05 PM	2.5 Mi. Below Last Measurement	8.24					-68.32	

LUCE - WADDICOR

PERCOLATION MEASUREMENTS

LITTLE TUJUNGA CK. ~~XXXX Creek XXXX~~ — February 2, 19 32; February 26 1932

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
4:15 PM	1000' above Foothill Blvd.	14.07	4,270	37	158540	363	-6.88	1.89	
4:50 PM	At Big Tujunga Wash	7.19							
			FEBRUARY 26						
11:30 AM	Buck Cn.	.23							
11:45 AM	Little Tujunga at Narrows	.56					+ .33		
12:10 PM	Tributary Below Narrows	.09							
		.65							
12:35 PM	Little Tujunga, 500' above Gold Creek	.61					- .04		
12:45 PM	Mouth of Canyon	9.42					+8.81		
1:10 PM	Foothill Blvd.	.65					-8.77		

LUCE & LINDSAY

PERCOLATION MEASUREMENTS

LITTLE TUJUNGA ~~River~~ Creek — March 18 — 19 30

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
3:00 PM	Buck Canyon	.035						
3:20 PM	Little Tujunga at Narrows	.26					+ .24	
3:30 PM	Tributary on west below Narrows	.01						
4:40 PM	1000' above Gold Creek	.36					+ .09	
4:15 PM	Gold Creek above Little Tujunga	1.75					+1.39	
4:50 PM	Little Tujunga at Mouth	2.77					+1.02	
5:10 PM	Little Tujunga Foothill Blvd.	1.47					-1.30	

LUCE

PERCOLATION MEASUREMENTS

LITTLE TUJUNGA ~~River~~ Creek — April 1 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
2:15 PM	1 mile above Gold creek	0.13						
3:35 PM	1000' above Gold Ck.	0.12						
3:20 PM	Gold Creek 2000' above Little T.	0.80						
2:50 PM	Alder Creek, 300' above Gold Cr.	0.31						
3:00 PM	Gold Ck. 25' above Alder Creek	0.61						
3:50 PM	Little Tujunga 6 miles below Gold Ck.	1.24					-.23	
4:10 PM	Little Tujunga 1.6 miles below Gold Ck.	1.01					-.07	
4:25 PM	Little Tujunga at mouth	0.94					-.56	
4:40 PM	Foothill Blvd.	0,38					-.38	
	300' below Foothill Blvd.	0						

LUCE

PERCOLATION MEASUREMENTS

LITTLE TUJUNGA WASH ~~River~~ ~~Creek~~ — March 25 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:10 A.M.	100 Ft. above 1st Cabin Site of Buck Canyon	.17						
	1000 Ft. above Gold Ck.	.24						
9:30 AM	100 Ft. above Gold Creek	.41						
	Gold Creek-2000 Ft. above L. Tujunga Creek	1.36						
10:00 AM	.5 M. Below Gold Creek	2.31						
10:15 AM	1.5 Mi. Below Gold Creek	1.88						
10:35 AM	2.5 Mi. Below Gold Creek Mouth Can.	1.90						
	Foothill Blvd. Bridge	.87	3050	6.5	18,450	.43	-1.03	2.36
	380' Below Foothill (End of Flow)	0	380	21.3	8,175	.18	- .87	4.83

LUCE & LINDSAY

PERCOLATION MEASUREMENTS

LIVE OAK ~~River~~ Creek ~~Basin~~ — 2 - 17 — 19 32 — Cloudy, shower at 1:45 PM

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
11:30 AM	Outflow at Dam	6.13							
	Est. Flow of Tributary on West about 1.mi. below dam	0.30	38000	14	532000	12.21	+ .20		
2:30 PM	Wood bridge 1½ mi. below Dam	6.63	3300	15	49500	1.136	- 1.11		.977
1:45 PM	200' above Williams Ave.	5.52	2200	12	26400	.606	- 2.00		3.30
3:00 PM	At Bradford St.	3.52	4000	8	32000	.734	- 1.46		1.989
3:45 PM	About ½ mile below Foothill Blvd.	2.06	1000	5	5000	.114	- .39		3.42
4:15 PM	At right angle turn at La Verne City Limit	1.67	5600	4	22400	.514	- .32		.06
5:00 PM	At R. R. Crossing in La Verne	1.35							

ASH

PERCOLATION MEASUREMENTS

LIVE OAK Creek — 2 - 23 — 19 32

Weather - fair and warm

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
2:30 PM	800' Below Dam	0.85							
	0.05 Est.Flow of Tributary on West	0.05	Below Dam 5000	3	15000	.344	- .31	.902	
1:15 PM	1.01 miles below dam	0.59							
1:00 PM	Water diverted by temporary private dam	0.40							
1:00 PM	Est. Flow into well	0.05	200	1	200	.0046	- .14	30.43	
	Dam mentioned above diverts water to settling basins.								
	Complete percolation in spreading grounds								

Loose sandy creek bed absorbs small flows but does not have much effect on large flows

ASH

PERCOLATION MEASUREMENTS

LIVE OAK Creek — April 2nd — 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
2:15 PM	At Outflow From Dam	2.51						
	Springs,etc.100' below Dam	.113	2000'	5	10,000	.229	-.04	.017
2:30 PM	2000' Downstream from dam	2.58	1800'	6	10,800	.247	- .54	2.186
3:00 PM	3800 Downstream from dam	2.04	1200	5	6,000	.137	- .37	2.70
3:30 PM	5000 " " "	1.67						
	All percolates in settling basin except 0.009 inflow to well in main channel							

ASH

PERCOLATION MEASUREMENTS

LIVE OAK Creek — April 2nd — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
10:00 AM	At Live Oak Dam	3.20							
	Inflow from Springs etc. 100' below dam	0.11	5,000	7	35000	.803	.88		1.10
10:30 AM	Inflow to Settling Basin	2.09							
10:30 AM	In Main Channel (not diverted to settling basin)	0.36	200	20	4000	.092	- .34		3.69
11:05 AM	Inflow to well 200' below diversion	.02							
						.895	1.22		1.37
	Complete percolation in Spreading Grounds								

ASH

PERCOLATION MEASUREMENTS

LIVE OAK Creek — April 6th — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
4:35 PM	Outflow from Live Oak Dam	.92							
	Dis. of springs, etc. below dam Approx. 700'	0.10	1550	6	9300	.213	+ .03		
4:00 PM	1550' Downstream from Live Oak Dam	1.05	1050	6	6300	.145	- .16		1.10
3:30 PM	2600 Live Oak Dam	0.89	1200	4.5	5400	.116	- .13		1.12
2:30 PM	3800 Live Oak Dam	0.76	1200	4.5	5400	.116	- .20		1.72
1:30 PM	5000 Live Oak Dam	0.56	300	3	900	.021	- .56		26.66 *
	5300 Live Oak Dam Settling Basin	0							
	Settling Basins Complete Percolation. No inflow in well.								
	* Loose Sandy Creek bed absorbs small flows but does not affect large flows proportionally								

ASH

PERCOLATION MEASUREMENTS

LOS ANGELES River ~~Creek~~ — December 30 — 1931

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:05 AM	Dayton Ave	.46						
			700	4.7	3290	.076	+ .10	
9:20 AM	10' above mouth of Arroyo Seco.	.56						
			30	8.8	264	.006	+2.56	
9:30 AM	20' below mouth of Arroyo Seco. Estimated inflow from City Pumping Plant in Elysian Park. .01	3.12						
			3040	10.4	31800	.73	+ .83	
10:05 AM	300' Below Spring Street bridge. Drain from Santa Fe Yards - Entered above measuring point-Est. .01	3.95						
			3000	10.8	32400	.74	+ .57	
10:40 AM	200' above S.P. Bridge El Paso Line	4.52						
			3100	13.0	40300	.93	+ .01	
11:20 AM	50' above Brooklyn Ave Bridge (above sewer) (Includes .28 c.f.s. from drains .18 of which was measured.)	4.53						
			100	11.5	1150	.026	+2.59	
11:40 AM	50' below Brooklyn Ave. bridge. A sewer near the Brooklyn Ave. Bridgs accounts for this gain	7.12						
			1800	13.0	23400	.54	+1.23	
12:15 PM	Half Way between Aliso and 1st St. Bridges (includes .62 c.f.s. from drain from East side - 200' below Aliso Street)	8.35						
			6300	16.4	103,320	2.37	- 2.88	1.22
1:30 PM	300' Below 7th St. Bridge In reach between 1st St. and 7th St. the channel conditions were poor for meas. purposes. By pass had been constructed around the new 6th St. Bridge. This measurement includes (estimated) .05 c.f.s. from drain at 7th st. Bridge	5.47						
			7000	16.9	118,300	2.72	- 1.64	.60
2:30 PM	105' Below San Diego Line-A.T. & S.F. R.R. Inflow from drain 700' North of 9th St. Est. 0.05 c.f.s.	7.11						
			4200	18.3	76,860	1.76	+ 1.30	
3:00 PM	100' below Santa Fe. Br.	8.41						
			3500	15.0	52,506	1.21	- 1.79	1.56
3:30 PM	300' below U.P.R.R. San Pedro Br.	6.62						
			2600	13.3	34,580	.79	+ 1.92	
4:10 PM	Mouth of Storm Drain (Enters from E)	8.54						
			5100	13.5	68,850	1.58	- .55	.35
4:45 PM	100' above Atlantic Blvd Bridge	7.99						

BOLLINGER & MOORE

209

PERCOLATION MEASUREMENTS

PACOIMA WASH ~~River Creek~~ — 2 - 9 — 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
2:30 PM	Laurel Cn. Blvd.	25.49						
			2,700		128,200	2.94	-6.51	2.21
	Arleta St.	18.98						
			3,900		120,350	2.74	-5.82	2.13
	Payton (Woodman Avenue 50' Below)	13.16						
	Parthenia Street	6.22					-6.94	
							LUCE	

NOTE: This measurement was taken immediately after a storm and was the percolation of silt-laden flood waters in an old well defined non-shifting channel which had been soaked with rains and flood waters for the past 24 hours.

PERCOLATION MEASUREMENTS

PACOIMA ~~River Creek~~ WASH — 2-15 — L 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:45 AM	Above bridge at Caretaker's House	76.25						
10:30 AM	Craig's Headgate	14.70						
	Craig's Spillway Diversion	.94						
10:10 AM	300' Above Davis Well	43.17						
			8840	25	221,000	5.07	+ .42	
12:15 PM	Submerged Dam	43.59						
			2200	23	50,600	1.16	-6.18	5.32
12:25 PM	Foothill Blvd. Bridge	37.41						
			8300	27	224,100	5.14	- .17	.003
2:00 PM	300' Below San Fernando Road	37.24						
			3700	24	88,800	2.04	-5.78	2.83
3:00 PM	Laurel Canyon Road	31.46						
			2700	43	116,100	2.66	-5.94	2.23
3:10 PM	Arleta Street Bridge	25.52						
			3400	24	81,600	1.88	- 3.17	1.68
3:00 PM	Payton Ave. (Woodman St)	22.35						
			8440	33	278,520	6.39	-13.17	2.06
4:10 PM	Parthenia Street Bridge	9.18						
			9000	20	180,000	4.13	- 5.62	1.29
5:00 PM	Van Nuy's Blvd. Bridge	3.56						
			6940	11	76,340	1.76	-1.94	1.10
5:25 PM	Tyrone Avenue	1.62						
						25.16	41.97	1.67

LUCE - WADDICOR

PERCOLATION MEASUREMENTS

PACOIMA WASH ~~River Creek Wash~~ — 2 - 17 — 1932

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
1:10 PM	San Fernando Road	27.83							
							- 8.77		
1:40 PM	Arleta Street	19.06							
1:50 PM	Payton Avenue	14.62					- 4.44		
2:00 PM	Parthenia Street	4.29					-10.33		
2:30 PM	Van Nuys Blvd.	Dry					- 4.29		

PERCOLATION MEASUREMENTS

PACOIMA ~~River~~ WASH — February 18 — L 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
4:40 PM	Foothill Blvd.	34.25						
4:15 PM	San Fernando Road	32.32					- 1.93	
4:30 PM	Laurel Canyon Road	28.22					- 4.10	
4:45 PM	Arleta Street	23.16	2650		101,500	2.32	- 5.06	2.18
5:30 PM	Payton Ave. (Woodman Ave)	19.65	4050		91,450	2.09	- 3.51	1.7
5:50 PM	Parthenia Street	8.68					-10.97	
6:00 PM	Van Nuys Blvd.	5.65					- 3.03	
6:15 PM	Tyrone Street	5.24					- .41	

LUCE - WADDICOR

PERCOLATION MEASUREMENTS

PACOIMA WASH ~~River~~ ~~Creek~~ — 2-26 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
2:25 PM	Pacoima at Arleta St.	28.38					- 5.87	
2:55 PM	Pacoima 50' Below Woodman Avenue	22.51					-16.00	
3:25 PM	100' Above Parthenia Street Bridge	6.51					- 5.39	
5:30 PM	Pacoima At Van Nuys Blvd	1.12					- .29	
4:00 PM	Kittridge St. Van Nuys	.83						

PERCOLATION MEASUREMENTS

PACOIMA WASH ~~River~~ ~~Creek~~ — 2 - 29 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
11:20 AM	Arleta Street	11.89					-10.18	
11:50 AM	Woodman Street (Payton)	1.71						

LUCE & WADDICOR

PERCOLATION MEASUREMENTS

PACOIMA ~~River~~ WASH — 2-25 — L 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:15 AM	500' Below Dam	53.36					17.51	
10:15 AM	400' below swimming pool	35.85						
10:25 AM	Davis Diversion	2.69						
10:35 AM	Craig's Headgate	14.61						
10:55 AM	Craig's Overflow+	1.19						
11:35 AM	Craig's Lower Diversion	11.35						
12:00 M	Above Craig's Inflow from Well pond	32.25						
12:10 PM	Below Craig's Inflow from Well pond	35.38						
1:30 PM	Old Submerged Dam	35.34					1.96	
1:45 PM	Mulholland St. (Foothill Blvd.)	33.38					6.59	
2:10 PM	San Fernando Road	26.79					2.79	
2:30 PM	Laurel Canyon Road	24.00	2500		69750	1.60	+ 0.80	
	Arleta Street	24.80	3000		79785	1.83	- 8.43	
3:30 PM	WOODMAN Avenue	16.37					-12.83	
3:50 PM	Parthenia	3.54					- 3.45	
4:10 PM	Van Nuys Blvd.	.09						

LUCE - WADDICOR

LUCE AND WADDICOR

During artificial spreading over into several smaller natural channels, and also some ponding onto high ground.

PERCOLATION MEASUREMENTS

PACOIMA WASH ~~River~~ ~~Creek~~ — 3 - 2 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:25 AM	250' below dam	20.74						
10:20 AM	50' above U.S.G.S. Sta.	18.56					-2.18	
11:15 AM	Craig's Headgate	10.64						
11:20 AM	Davis Diversion	1.53						
11:55 AM	Craig's Lower Diversion	10.72						
2:00 PM	Inflow from well pond	6.19						
2:15 PM	Old Submerged Dam	5.80					-.39	
2:30 PM	Foothill Boulevard	5.32					-.48	
2:55 PM	San Fernando Road	3.73					-1.59	
3:15 PM	Laurel Canyon Blvd.	3.15					-.58	
3:35 PM	Arleta Street	1.81					-1.34	

Creek dry between Craig's lower diversion and inflow from well pond, dry at Payton Street

TURNER

PERCOLATION MEASUREMENTS

PACOIMA WASH ~~RIVER CREEK~~ — 3 - 16 — 1932

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
8:30 AM	350' Below Dam	16.14						
9:30 AM	950' Below Dam	18.10					+ 1.96	
10:25 AM	Craig's Headgate	9.92						
10:50 AM	Davis Diversion	1.23						
11:20 AM	Davis Inflow	1.26						
11:10 AM	Craig's Lower Diversion	6.13						
12:05 AM	Inflow to Craig's lower well	4.56						

No inflow to creek from well pond when pump is operating

TURNER

PERCOLATION MEASUREMENTS

PACOIMA ~~RIVER CREEK~~ WASH — 4 - 6 — 1932

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
8:30 AM	300' below dam	16.36						
9:25 AM	950' below dam	15.91	650	11.5	7475	.17	- .45	2.65
10:00 AM	1875 " "	13.79	925	15.0	13875	.32	- 2.12	6.62
10:20 AM	2200 " "	12.49	325	19.0	6175	.14	- 1.30	9.28
11:00 AM	2700 " "	13.45	500	32.0	16000	.37	+ .96	2.60
11:30 AM	3250 " "	15.00	550	19.0	10450	.23	+ 1.55	6.73
12:00 M	3750 " "	11.33	500	11.0	5500	.13	- 3.67	28.2
12:30 PM	4850 " "	11.43	1100	12.0	13200	.30	+ .10	.33
1:30 PM	Inflow to Craig's lower well pond	1.33						

TURNER

PERCOLATION MEASUREMENTS

PACOIMA WASH ~~RIVER CREEK~~ — 3 - 29 — 1932

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
9:00 AM	250' below Dam	12.82						
9:25 AM	500' Below Dam	14.02	250'	12.5	3125	.07	+ 1.20	
10:00 AM	950' Below Dam (Stairway)	16.40	450	12.0	5400	.12	+ 2.38	
10:45 AM	1725 Below Dam	12.58	775'	16.0	12400	.28	- 3.92	14.00
11:30 AM	2200 Below Dam (USGS STA)	12.72	475'	22.0	10450	.24	+ 0.14	
1:30 PM	2750 Below Dam	13.40	550	34.0	18700	.43	+ .66	
2:30 PM	3250 Below Dam (#2Bridge)	13.01	500	19.0	9,500	.22	- 0.39	1.77
3:15 PM	3550 Below Dam	12.12	350	12.5	4,375	.10	-0.89	8.90
3:35 PM	3750 Below Dam	12.62	250	10.0	2500	.06	+ 0.50	
4:00 PM	4850 Below Dam (Craig's Div)	11.04	1100	17.5	19250	.44	- 1.58	3.59
5:30 PM	Inflow from Craig's lower well pond	.16						

Loss in S.F. per acre between Stairway and Craig's Diversion 1.77

TURNER

PERCOLATION MEASUREMENTS

PACOIMA WASH ~~RIVER CREEK~~ — 4 - 19 — 1932

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
10:00 AM	Caretaker's House	13.80						
10:20 AM	Craig's Diversion	9.51						
10:30 AM	Craig's Diversion Spillway (Total diverted 9.30)	- .21						
12:15 PM	75' Below swimming pool	4.95					+ .45	
	Craig's Diversion Break (Total 7.01)	2.06						
10:55 AM	Davis Diversion (Total 5.64)	1.37						
10:45 AM	300' above Davis Well	4.29					- 1.35	
	Return Davis Diversion (Total 5.66)	1.37						
11:00 AM	50' above Craig's Diversion No. 2	6.11						
	Craig's Diversion No.2 (Total 2.53)	3.58						
	2750' below on Diversion No. 2	1.72						
	Loss in Diversion Channel	2.76						
	Inflow Craig's Ranch (Total 1.76)	.04						
	Diversion No.2 Channel at Lower Well	1.08						

LUCE - WADDICOR

PERCOLATION MEASUREMENTS

PACOIMA ~~RIVER~~ WASH — 4 - 25 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:50 AM	250' Below Dam	16.30						
9:15 AM	500' " "	13.89	250	13	3250	.07	- 2.41	
9:35 AM	950 " "	15.08	450	12	5400	.12	+ 1.19	
10:10 AM	1600 " "	16.48					+ 1.40	
10:25 AM	1850 " "	14.09	900	19	17100	.39	- 2.39	
10:45 AM	2200 " "	12.41	350	22	7703	.18	- 1.68	
11:25 AM	2750 " "	14.21	550	29	15950	.34	+ 1.80	
1:30 PM	3250 " "	12.44	500	19	9500	.22	- 1.77	
2:05 PM	3550 " "	12.21	300	13	3900	.09	- .23	
3:00 PM	4250 " "	12.24	700	12	8400	.19	- . 03	
3:30 PM	4850 " "	12.23	600	13	7800	.18	- .01	
3:45 PM	Craig's Headgate	10.93						
4:15 PM	Davis Diversion	1.38						
4:30 PM	Davis Inflow	.69						
4:50 PM	Craig's Lower Diversion	4.68	To well pond (Pump operating, no outflow from pond)					

TURNER

PERCOLATION MEASUREMENTS

PACOIMA WASH ~~RIVER~~ — 5 - 11 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
0:00 AM	250' below dam	8.27						
8:30 AM	500' below dam	6.16	250'	9'	2250	.05	- 2.11	
9:00 AM	950' " " (stairway)	8.48	450'	10'	4500	.10	+ 2.32	
9:30 AM	1775 " "	7.41	825'	14'	11550	.26	- 1.07	4.11
9:50 AM	1975 " "	7.49	200'	7'	1400	.03	+ .08	
10:10 AM	2200 " "	6.12	225'	22'	4950	.11	- 1.37	12.45
	Valve closed for 1/2 Hr.	Measurements resumed at 2:20 PM.						
2:20 PM	2750' Below Dam	7.75	500	17'	8500	.19	- 2.02	10.63
2:40 PM	3250 " "	5.73	300	11	3300	.08	- 1.38	17.25
3:00 PM	3550 " "	4.35	700	8'	5600	.13	+ .48	
3:25 PM	4250 " "	4.83	600	11'	6600	.15	+ .01	
3:45 PM	4850 " "	4.84						
4:00 PM	Craig's Headgate	4.89						
4:20 PM	Davis Diversion	.92						
4:30 PM	Davis Inflow	.56						
4:45 PM	Craig's lower Diversion	1.64	No inflow from Craig's lower well.					

TURNER

PERCOLATION MEASUREMENTS

Pallette ~~CREEK~~ Creek ~~WASH~~ — August 6-20-27 — 19 32 — September 3

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
5:15 PM	1 Mi. above Big Rock Creek	2.40	August 6						
5:25 PM	Below Weimer Diversion	1.59					- .81		diverted
5:05 PM	at Big Rock Creek	1.65					+ .06		
				AUGUST 20					
6:15 PM	1 Mi. above Big Rock Creek	1.80							
6:20 PM	Below Weimer Diversion	1.45					- .35		diverted
6:35 PM	at Big Rock Creek	1.28					- .17		
				AUGUST 27					
5:15 PM	1 Mi. above Big Rock Creek	1.38							
5:25 PM	Below Weimer Diversion	1.09					- .29		diverted
5:00 PM	At Big Rock Creek	1.03					- .06		
				SEPTEMBER 3					
4:30 PM	1 Mi. above Big Rock Creek	1.66							
4:40 PM	Below Weimer Diversion	1.03					- .63		diverted
4:20 PM	300' above Big Rock Creek	.95					- .08		

LUCE

PERCOLATION MEASUREMENTS

PLACERITA ~~CANYON~~ Creek ~~WASH~~ — 3 - 11 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
1:50 PM	200' above Los Pinetos Cn	.09							
1:40 PM	Los Pinetos Cn. Cr. - 100' above Placerita Cr.	.26							
1:30 PM	Side Cn. 1/2 mi. above Submerged Dam	.38							
	Total	.73							
	150' below Submerged Dam	.88					+ .15		
12:50 PM	Mouth of Canyon Dry	0					- .88		

LUCE

PERCOLATION MEASUREMENTS

RIO HONDO ~~River Creek~~ — Dec. 30, 19 31

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
10:30 AM	At Split	128.26						
			13800	67.6'	932,880	21.4	-65.06	3.06
1:10 PM	Arrow Highway-East Br = 7.22							
1:30 PM	Arrow Highway-Middle Br= 20.13	63.20						
			3400	161.0	547,400	12.5	-29.50	2.36
1:45 PM	Arrow Highway-West Br = 35.85							
3:00 PM	N.W. Line - East Br. = 13.44							
3:25 PM	N.W. Line - Middle Br.= 7.41	33.70						
			3250	53.2	172,900	3.96	- 15.86	4.01
3:50 PM	N. W. Line West Br = 12.35							
4:15 PM	Peck Road	17.84						
			3100	25.1	77,810	1.78	- 17.84	10.02
5:00 PM	End of Flow	0.0				39.64	128.26	3.24

PERCOLATION MEASUREMENTS

RIO HONDO ~~River Creek~~ — Dec. 31 19 31

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
10:00 AM	Sta. 0+00 = split	64.77						
			13,800	47.8	659,640	15.1	-41.32	2.73
	Sta. 138+00 Arrow Highway							
12:10 PM	West Branch #3 = 9.61 sf							
12:30 PM	Middle " #2 = 9.15 sf							
12:50 PM	East " #1 = 4.69 sf							
		23.45						

PERCOLATION MEASUREMENTS

RIO HONDO ~~River Creek~~ — February 3 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
10:30 AM	Sta. 3+00 split	154.21						
			13,500	72.00	973,400	22.30	- 37.45	1.68
2:15 PM	Sta. 138+00 Arrow Highway	116.76						
2:35 PM	Inflow from San Gabriel	30.93						
	Arrow Highway & Inflow	147.69						
			2,950	133.90	392,500	9.01	- 35.31	3.92
3:55 PM	Sta. 167+50 Northwest Line	112.38						
			3,200	87.30	280,090	6.38	- 16.12	2.84
4:40 PM	Sta. 199+50 100' below Peck Road	94.26				37.69	90.88	2.41

LINDSAY - COLE

PERCOLATION MEASUREMENTS

RIO HONDO ~~River Creek~~ — February 4 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
10:00 AM	Sta. 3+00 = 300' below split from San Gabriel	95.34						
			7700	48	369,000	8.42	- 18.07	2.14
11:10 AM	Sta. #80+00	77.27						
11:40 AM	Sta #120+00 Inflow from San Gabriel	.40						
	Sta. #80+00 Plus San Gabriel Inflow	77.67						
			5800	27	233,900	5.36	- 18.01	2.05
1:00 PM	Sta. #138+00-Arrow Highway	66.66						
1:30 PM	Sta. #153+00-Inflow from San Gabriel	17.15						
	Sta. #138+00 Plus San San Gabriel Inflow	83.81						
			2950	93	350,700	8.04	34.93	4.35
2:25 PM	Sta. #167+50 North west Line	48.88						
			3100	37	171,450	3.93	- 8.22	2.09
3:35 PM	Sta. #198+50 100' Below Peck Road	40.66						
			7130	18	127,980	2.93	- 39.96	13.63
4:00 PM	Sta. #269+80 Lower Azusa Road	.70				28.68	112.19	3.9

LINDSAY - COLE

PERCOLATION MEASUREMENTS

RIO HONDO ~~River Creek~~ SAN GABRIEL ~~River Creek~~ — FEBRUARY 18 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
9:00 AM	San Gabriel River at 1000' above Foothill Blvd.	599.25							
11:20 AM	San Gabriel River, El Monte Blvd.	56.82					356.04		
10:15 AM	Rio Hondo at Lower Azusa Road	186.39							

PERCOLATION MEASUREMENTS

RIO HONDO ~~River Creek~~ — MARCH 16 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
10:15 AM	0+00 split - SPRR Br.	147.03						
			13600	50	1040750	23.9	- 42.32	1.77
1:20 PM	136+00 Arrow Highway	104.71						
			4550	43.5	550050	12.6	- 20.79	1.65
2:10 PM	181+50 - N. W. Line	83.92						
			2900	42	173860	4.0	- 12.73	3.15
3:05 PM	210+50 Peck Road	71.19						
						40.5	75.84	1.88

LEE

PERCOLATION MEASUREMENTS

RIO HONDO River ~~Creek~~ ~~Wash~~ — March 16 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
9:15 AM	Peck Road	93.29							
			2000	58	116,000	2.66	- 33.37	12.52	
10:15 AM	2000' Below Peck Road	59.92							
			6300	68	428400	9.82	- 43.92	4.47	
11:30 AM	200' above Lower Azusa Road	16.00							
			6000	57	342000	7.87	- 1.50	.19	
12:30 PM	500' above S.P.Ry.Br.	14.50							
			3500	49	171500	3.94	- 5.24	1.33	
2:30 PM	P. E. Bridge	9.26							
			4500	82	374000	8.58	- 1.47	.17	
3:15 PM	1500' Below Eaton Creek	7.49							
4:00 PM	200' above Garvey Avenue	7.62				32.87	85.50	2.60	
4:45 PM	3800' Below " "	8.75							
5:10 PM	Tri City Sewer	13.32							
5:50 PM	Mission Bridge Station	31.98							

PERCOLATION MEASUREMENTS

RIO HONDO ~~River Creek~~ — March 17, 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
9:30 AM	At Split - R.R.Bridge (0+00)	127.28						
			6150	70.5	423,850	9.95	- 1.65	.166
11:00 AM	Sta.61+50 Below R.R.Br.	125.63						
			7450	77.8	579,400	13.30	-28.57	2.12
12:45 PM	Sta.136+00 Arrow Highway= 59.25							
1:00 PM	Sta.136+00 " " = 37.81	97.06						
			4550	104.0	477,305	10.83	-17.13	1.58
2:05 pm	Sta.181+50 N. W. Line	79.93						
			2900	61.8	179,300	4.12	-13.19	3.20
2:50 PM	Sta.210+50 Peck Road=23.51							
3:12 PM	Sta.210+50 Peck Road=43.23	66.74						
			9259	38.0	351,630	8.06	-59.63	7.40
3:27 PM	Lower Azusa Road- Sta. 303+09	7.11				46.26	120.17	2.60

PERCOLATION MEASUREMENTS

RIO HONDO ~~River Creek~~ — March 23 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
9:30 AM	Sta.#0+0 split Santa Fe Bridge	122.80						
			6150	65.5	403,100	9.24	- 9.97	1.08
10:40 AM	#61+50	112.83						
			7450	72.9	542,623	12.45	-21.55	1.74
12:40 PM	Sta.#136+00 Arrow High-way	91.28						
			4550	73.5	479,300	14.20	-14.63	.98
1:30 PM	Sta. #181+50 North west line	76.65						
			2900	53.25	160,432	3.54	- 7.36	1.59
2:00 PM	Sta. #210+50 Peck Road	69.29						
			7750	64.45	491,807	11.27	-50.52	4.64
2:45 PM	Sta. #288+00 Lower Azusa Road	18.77				63.15	104.03	1.65

PERCOLATION MEASUREMENTS

RIO HONDO River ~~Creek~~ — 3 - 30 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
9:20 AM	Sta. 0+00 Split 50' below S.F.	102.66						
			6150	65.5	402825	9.24	- 9.99	1.08
10:45 AM	Sta 61+50	92.67						
			7475	67.3	503067	11.55	- 5.32	.45
12:30 AM	Sta. 136+25 Arrow Hwy.	87.35						
			4375	103.6	453250	10.40	-15.30	1.39
1:35 PM	Sta. 180+00 N.W. Line	72.05						
			3050	76.6	233630	5.36	- 3.74	.70
2:05 PM	Sta. 210+50 Peck Road	68.31						
			7950	73.8	586710	13.47	-41.13	3.05
3:30 PM	Sta. 290+00 Lower Azusa Road	27.18				50.02	75.48	1.50

PERCOLATION MEASUREMENTS

RIO HONDO ~~River Creek~~ — April 6 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
9:20 AM	Split 50' below Santa Fe	67.95						
			6200	44.4	275,700	6.33	- 8.45	1.33
10:30 AM	Sta. 62+00	59.5						
			7400	47.3	360,040	8.26	-11.10	1.34
12:30 PM	Sta. 136+00 Arrow Hwy.	48.4						
			4400	62.00	273,200	6.27	- 7.72	1.23
1:30 PM	Sta. 180 N.W. Line	40.68						
			3000	36.9	130,900	3.00	- 7.80	2.60
2:00 PM	Sta. 210 Peck Road	32.88						
			6500	54.0	351,050	8.06	-20.90	2.60
3:45 PM	Sta. 275 Lower Azusa Road	11.98				31.92	55.97	1.75

LEE

PERCOLATION MEASUREMENTS

RIO HONDO ~~River Creek~~ — April 15 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
2:40 PM	Lower Azusa Road	2.99						
			7620	18.79	143,180	3.28	- 2.99	.91
	Valley Blvd. - El Monte Bridge	0.00						

LEE & MARTIN

PERCOLATION MEASUREMENTS

RIO HONDO ~~River~~ Creek From Split to Lower Azusa Road 4 - 21 - 32 19

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:35 AM	Sta. 0+00 Rio Hondo at Split	45.39						
			6150	32.7	201,105	4.62	- 7.94	1.72
10:00 AM	Station 61+50	37.45						
			7450	42.8	318,860	7.33	- 6.56	.89
11:20 AM	Sta. 136+0 Arrow Highway	30.89						
			4400	49.0	215,600	4.95	-11.22	2.27
2:55 PM	Sta. 180+0 N. W. Line	19.67						
			3000	32.7	981,000	2.25	- 4.53	2.00
3:30 PM	Sta. 210+0 Peck Road	15.14						
			7700	30.6	235,620	5.41	-11.34	2.09
4:15 PM	Sta. 287+0 Lower Azusa Rd	3.80						
						24.56	41.59	1.69

PERCOLATION MEASUREMENTS

RIO HONDO ~~River~~ April 28 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:10 AM	Rio Hondo-Split at S.F. Bridge	13.80						
							- 3.73	
10:35 AM	Rio Hondo-Station 61+50	10.07						
							- 5.65	
11:25 AM	Rio Hondo-Arrow Highway	4.42						
							- 2.61	
1:05 PM	Rio Hondo - N. W. Line	1.81						
							- 1.81	
	End of Flow	0						

PERCOLATION MEASUREMENTS

RIO HONDO ~~River~~ Creek May 2nd 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:45 AM	Santa Fe R.R. Bridge Split	4.44						
			3,250	14.34	46,600	1.07	-4.44	4.15
10:15 AM	Sta. #32+50	0.0						

PERCOLATION MEASUREMENTS

RIO HONDO ~~River~~ Creek May 5, 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
12:40PM	At Mission Bridge Gage	52.60						
2:00PM	Rio Hondo Slough-100' Above Mouth	18.40					-10.1	
2:20PM	100' Below Rio Hondo Slough	60.87						
3:00PM	Arroyo Ditch at Dam	10.64	1600'		91,100	2.08	-8.94	4.3
3:10PM	100' Below Dam	41.29						
4:45PM	At Whittier Blvd.	36.28	2310	101	233,310	5.35	-15.65	2.9

JORDAN

PERCOLATION MEASUREMENTS

RIO HONDO ~~River~~ Creek Mission Bridge May 6 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:30 AM	At Mission Bridge	12.6						
10:10 AM	Rio Hondo Slough (at mouth)	14.7						
10:30 AM	Rio Hondo R. (Below slough)	24.6	1500	50	75,500	1.7	- 1.2	.70
11:00 AM	Arroyo Ditch Co. Dam	23.4						
			2500	71	177,500	4.1	- 8.8	2.24
12:35 PM		14.6						
2:00 PM	Whittier Boulevard	17.5	3460	44	154,060	3.5	- 11.7	3.34
3:00 PM	40' above Mines Avenue	5.8						
	Spring entering (Below Mines Avenue) Center Street	.5	3940	22	88,000	2.0	- 6.3	3.15
	End of flow (4000 feet below Center St.)	0.0				11.3	28.0	2.48

L. W. JORDAN

PERCOLATION MEASUREMENTS

SAN ANTONIO River / SPREADING AREA — January 6 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
10:00 AM	Upper Main Diversion Channel	1.23	3600	6.2	22,320	0.51	-1.23	2.41
11:00 AM	End of Percolation	0.0						
10:10 AM	Main Wash - upper Div. Hdg.	1.85	5400	8.1	43,740	1.00	-1.05	1.05
11:15 AM	Main Wash - Lower Div.Hdg	.80						
11:30 AM	Lower Div.Hdg.E.Channel	0.21	600	9.0	5,400	.12	- .21	1.75
11:45 AM	End of Percolation	0.00						
11:30 AM	Lower Div.Hdg. W.Channel	0.59	2400	8.0	19200	.44	- .59	1.34
12:10 PM	End of Percolation	0.00						

PERCOLATION MEASUREMENTS

SAN ANTONIO SPREADING GROUNDS (E.DITCH) ~~River Creek~~ — 3 - 22 - 32 — 19

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
11 AM	"E" Ditch 200' Below Intake	5.28	3500	21.8	76,310	1.75	-5.28	3.00
	Sta. 35+00 end of water	0.00						

PERCOLATION MEASUREMENTS

SAN ANTONIO SPREADING GROUNDS ~~River Creek~~ — 4 - 18 -32 — 19

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
12:45 PM	Main Canal Div. No. 1 At Recorder	17.33	2200	14.1	31150	.71	-2.50	3.52
	All diversions out to E. Ditch	14.83						
1:00 PM	A. Ditch Total	.38	1950	3.64	7100	.16	- .38	2.37
1:10 PM	C. Ditch "	3.42	3527	11.31	39923	.91	-3.42	3.75
1:20 PM	D. Ditch "	1.35	3550	6.17	21900	.50	-1.35	2.70
1 :35 PM	E. Ditch "	8.86	6000	17.83	107030	2.45	-8.86	3.61
1:40 PM	Main Canal below E. Ditch	.82	3475	7.14	24825	.56	.82	1.46
						5.29	17.33	3.27

PERCOLATION MEASUREMENTS

SAN ANTONIO River / Creek Main Channel — 5 - 4 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:25 AM	Main Channel-500' below Div. #1	9.79	5450	16.0	87,300	2.00	- 2.85	1.42
10:00 AM	Main Channel 100' above Div. #2	6.94	4200	14.7	62,100	1.42	- 2.58	1.81
10:40 AM	Main channel at Sycamore Div.	4.36	4400	8.18	36,000	.82	- 3.18	3.87
11:20 AM	Main channel at Base Line Road	1.18	2679	4.23	11,358	.26	- 1.18	4.53
	Main channel from Base Line Road to End	0				4.50	9.79	2.17

LEE - MARTIN

PERCOLATION MEASUREMENTS

SAN ANTONIO SYCAMORE DIVERSION ~~River Creek~~ — 5- 4 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
2:10 PM	Sycamore Diversion to End	.92	3540	6.43	22,785	.52	-.92	1.76

LEE - MARTIN

PERCOLATION MEASUREMENTS

SANTA CLARA RIVER — 3 - 25 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
	Above Aliso Cr.	Dry						
5:15 PM	Aliso Cr. 1½ mi. above Soledad Cn.	1.35						
	1000' above Arrastre Cr.	Dry						
5:50 PM	Arrastre Cr. ½ mi. above Soledad Canyon	1.01	Diverted					
4:15 PM	Tributary inflow 1.3 mi. below Ravenna Sta.	.54						
3:35 PM	Tributary inflow 1.3 mi. below Ravenna Sta.	.26						
3:50 PM	1.5 mi. below Ravenna	2.46						
	Tributary inflow 3.9 mi. below Ravena Sta.	.10						
3:10 PM	Aqua Dulce Cr.	.02						
2:30 PM	Bear Cn. Cr.	.67						
8:40 PM	Sta. Clara .6 mi. above Lang	5.41						
	Sta. Clara R. Lang	9.23						

LUCE & LINDSAY

PERCOLATION MEASUREMENTS

SAN DIMAS CREEK — 1-5-32 — 19

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
1:30 PM	Mouth of Canyon	7.09						
2:30 P M	Above Borrow Pit	3.32	5500	12.0	66,000	1.52	-3.77	2.48
3:00 PM	Puddingstone Div. Dam Outflow pipe	.55	Borrow Pit		86,300	1.96	-2.77	1.41
3:30 PM	End of Percolation	.00	700	12.6	8,800	.20	- .55	2.75
						3.68	7.09	1.93

PERCOLATION MEASUREMENTS

SAN DIMAS CREEK — 1 - 7 - 32 — 19

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:30 AM	¼ Mi. E. of Grand Ave.	6.69						
10:45 AM	Citrus Ave.	2.02	8100	22.3	180,630	4.15	- 4.87	1.17
11:30 AM	Azusa Ave.	.64	6500	7.1	46,150	1.06	- 1.38	1.30
12:05 PM	End of Percolation	.00	2200	6.4	14,080	.32	- .64	2.00
			Water has been running over this area about one month			5.53	6.89	1.25

PERCOLATION MEASUREMENTS

SANTA CLARA River — 4 - 8 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
	1000' above Aliso Cn.	Dry						
4:10 PM	Aliso Cr. 1½ mi. above Soledad Cn.	.39						
	1000' above Arrastre Cr.	Dry						
5:05 PM	Arrastre Ck. ½ mi. above Soledad Cn.	.52	Diverted					
8:25 PM	Tributary Cr. inflow 1.5 mi. below Ravenna Station	.06						
6:00 PM	1.5 mi. below Ravenna Station	1.91						
6:25 PM	Tributary Cr. inflow 3.9 mi. below Ravenna Station	.03						
	Aqua Dulce Cr. at Soledad	Dry						
6:45 PM	Bear Cn. 1000' above Soledad Cn.	.27						
6:55 PM	.6 mile above Lang	1.66						
10:45 AM	Rising Water Lang	4.29						

LUCE

PERCOLATION MEASUREMENTS

SAN DIMAS WASH River Creek — Feb. 17 — 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
11:20 AM	Outlet Pipe Pud. Div. Dam	46.46						
12:10 PM	Artesia Avenue	36.80	4000	59.0	236,000	5.42	-9.66	1.78
12:47 PM	San Dimas Avenue	31.92	3800	26.2	99,560	2.29	- 4.88	2.13
2:30 PM	Lone Hill Avenue	26.77	7800	26.8	209,040	4.80	- 5.15	1.07
3:30 PM	Sunflower Ave.	15.21	6200	51.4	318,680	7.32	-11.56	1.58
4:10 PM	Glendora Ave.	7.45	6200	21.5	133,300	3.06	- 7.76	2.54
4:28 PM	¼ Mi. above Grand Ave.	6.23	1300	16.2	21,060	.48	- 1.22	2.54
						23.37	40.23	1.72

PERCOLATION MEASUREMENTS

SAN DIMAS ~~River~~ WASH ~~Creek~~ — 2 - 24 — 19 32

Time	Location	Disch.	Length Of Reach Map Distance	Av.Width of Reach Measured at intervals	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
10:30 AM	Outflow from San Dimas Dam	14.04						
11:15 AM	Lido Cr.(Tributary to San Dimas)	0.85	11780	26	306,280	7.03	-2.18	.30
11:45 AM	Inflow to Puddingstone Div. Dam	12.71						
12:30 PM	Outlfow Pud.Div.Dam Into S. D. Wash	14.74						
			1340	18	24,120	.553	-5.64	10.20
2:00 PM	About 1/4 Mi.below Pud. Div. Dam	9.10						
			5660	13	73,580	1.68	-1.85	1.10
2:30 PM	1000' above Foothill Blvd	7.25						
			6000	8	48,000	1.10	-2.67	2.42
3 :30PM	Amelia Ave.(72"Culvert Galv. Iron)	4.58						
			3500	6	21,000	.48	-1.40	2.9
	Stream runs in 2 channels at S.P.R.R. Tracks	3.18	to Sunflower Ave. 5500	3	16,500	.379	-2.00	5.27
4:30 PM	Stream flow in North Branch at S.F.R.R.	2.00				11.22	15.74	1.40
	North branch Complete percolation at Sunflower Ave.							
4:45 PM	Flow in South Branch at S.F.R.R. flows into large Pond (No Outlet) .5 mi below S.F.R.R.	1.18						
	NOTE: Distances from map							

PERCOLATION MEASUREMENTS

SAN DIMAS ~~River~~ WASH ~~Creek~~ — Feb. 24 — 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
12:20 PM	Lone Hill Avenue	6.97						
1:00 PM	Inflow to Gravel Pit	2.28						
2:00 PM	Sunflower Ave.	1.08						

PERCOLATION MEASUREMENTS

SAN DIMAS CREEK ~~River~~ ~~Creek~~ — 3 - 9 - 32 — 19

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
9:45 AM	½ mi. W. of Grand Ave.	5.84						
			7800	14.5	113,100	2.60	-2.93	1.13
10:40 AM	Citrus Ave.	2.91						
			6400	7.8	49,920	1.12	-2.20	1.96
11:15 AM	Azusa Ave.	.71						
			2600	5.1	13,260	.30	- .71	2.37
11:55 AM	Cypress Ave.	.00						
	Small amount of soreading work done between Citrus and Azusa Avenue.					4.02	5.84	1.45

PERCOLATION MEASUREMENTS

SAN DIMAS ~~River~~ ~~Creek~~ — 4 - 4 — 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
11:00 AM	Outflow from S. D. Dam	1.22						
	Outflow Tunnel 600' Dwonstream	0.218						
	Lido Canyon Surface flow Est.	0.01						
				5'				
10:15 AM	1600' Downstream from S. D. Dam	1.03						
			4800	5'	23,000	.528	+0.30	
1:00 PM	At Station Mouth Canyon	1.33						
	All water diverted in underground pipe 100' downstream from station							
	NOTE: Most of water released from San Dimas Dam reaches the U.S.G.S. Station.							

PERCOLATION MEASUREMENTS

SAN DIMAS ~~River~~ WASH ~~Creek~~ — May 4 — 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
2:30 PM	1/4 Mi. E. of Grand Ave.	4.57						
			8000	16.0	128,000	2.9	- 3.59	1.2
3:15 PM	Citrus Avenue	1.98						
			6400	4.8	30,720	.7	- .92	1.3
4:00 PM	Azusa Avenue	1.06						
			2800	4.6	12,880	.3	- .74	2.5
4:45 PM	Cyprus Ave	.32						
			1800	4.0	7,200	- .2	- .32	1.6
5:30 PM	End of Percolation	.00				4.1	5.57	1.36

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~Creek~~ — December 31, 19 31

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:30 AM	400' N. of Foothill Blvd.	129.87						
			4400	56.7	249,480	5.73	-12.12	2.12
10:00 AM	Above Split	117.75						
10:00 AM	Below Split	52.40						
			7000	52.8	369,600	8.48	-12.26	1.45
11:30 AM	Gladstone Pl.	40.14						
			7400	49.0	362,600	8.32	-10.25	1.23
12:45 PM	N. W. Line	29.89						
			5800	41.2	238,960	5.49	-13.58	2.49
1:50 PM	Lower Azusa Road	16.31						
			5800	39.7	230,260	5.29	-16.31	3.08
2:10 PM	1000' below El Monte Blvd	0.00				33.31	64.52	1.94

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~Creek~~ — January 4, 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:10 AM	200' below tunnel div.	39.59						
			1675	50	83,750	1.92	+ 1.43	
10:10 AM	Sta. 16+75	41.02						
10:30 AM	Inflow from Roger Ck. at 21+50	(1.52)						
	Inflow & River Combined	42.34						
			1225	36	42,250	1.02	- 3.70	3.62
11:00 AM	Sta. 29+00	38.64						
			1660	34.88	57,900	1.33	- .92	.69
12:00 AM	Sta. 45+60	37.72						
			1490	45.0	67,050	1.54	- .68	.44
12:45 PM	Sta. 60+50	37.04						
			950	50.0	47,500	1.09	- 6.35	5.83
1:20 PM	Sta. 70+00	30.69						
			2000	36.5	73,000	1.68	- 4.73	2.82
2:00 PM	Sta. 90+00	25.96						
			2200	33.6	74,000	1.70	- 3.86	2.27
2:50 PM	Sta.112+00	22.10						
			2200	23.18	51,000	1.17	7.14	6.10
3:30 PM	Sta.154+00	14.96						
4:00 PM	Inflow from Fish Cr. at 134+00	3.26						
	Inflow and River Combined	18.22						
			1250	26.80	33,500	.77	- 4.55	5.88
4:25 PM	Sta. 146+50-675' below P.E.Bridge	13.69						
			850	19.88	16,900	.39	- 4.22	10.82
4:40 PM	Sta. 155+00	9.47						
			1300	29.69	38,600	.89	- 3.41	3.83
5:10 PM	Sta. 165+00 Foothill Blvd	6.06						
						11.58	39.54	3.41

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~Creek~~ — February 3, 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:20 AM	400' above Foothill Blvd.	318.42						
			4700	88.	413,600	9.5	-19.86	2.1
10:20 AM	Above Split	298.56						
"	Below "	144.26						
			6700	76.	509,200	11.7	-12.55	1.1
11:15 AM	Gladstone Power Line	131.71						
			7200	74.	532,800	12.2	-14.64	1.2
2:30 PM	Above N. W. Line	117.07						
	Below " "	86.14						
			6000	53	318,000	7.3	-13.54	1.9
4:00 PM	Lower Azusa Road	72.60						
			4400	51.6	227,040	5.2	-19.66	3.8
5:10 M	El Monte Blvd.	52.94						
						45.90	80.25	1.75

BREWSTER

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~Creek~~ — 2 - 4 - 32, 19

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:00AM	Above Foothill Blvd.	198.55						
			4700	68.0	319,600	7.3	-12.76	1.7
10:00 AM	Above split	185.79						
10:00 AM	Below "	87.43						
			6700	69.0	462,300	10.6	- 9.44	0.9
11:00 AM	Gladstone Power Line	77.99						
			7200	64.0	460,800	10.6	-11.53	1.1
12:30 PM	N. W. Line	66.46						
12:30 PM	Below N.W.Line	62.74						
			6000	52.4	314,400	7.2	-15.22	2.1
2:00 PM	Lower Azusa Road	47.52						
			4400	51.0	224,400	5.2	-20.70	4.0
3:15 PM	El Monte Blvd.	26.82						
			8200	32.0	262,400	6.0	-25.26	4.2
4:00 PM	Valley Blvd.	1.56						
			1800	9.5	171,000	0.4	-1.56	3.9
4:30 PM	End of Percolation	0.00				47.3	96.47	2.04

BREWSTER

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~Creek~~ — February 5 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
	At Edison Intake	259.5						
			3573	37.0	117,909	2.71		
10:25 AM	Above Edison Sand Box	123.10						
10:55 AM	Below " " "	164.1	6278	40.0	251,120	5.76		
11:35 AM	Below R. R. Bridge	176.9	4004	44.0	176,176	4.04	- 10.8	2.67
12:20 PM	Below Islip Canyon	166.1	3892	46.0	179,032	4.11	- 1.9	.46
1:35 PM	Above Pine Canyon (Camp #2)	164.2	2181	40.0	87,240	2.00	+ 4.90	
2:10 PM	Below Pine Canyon (Camp #2)	169.1	3080	41.0	126,280	2.89	-27.10	9.38
2:50 PM	Pasadena Damsite	142.0	3168	43.0	136,224	3.13	+ 35.5	
3:35 PM	Granite Dyke	177.5	6864	57.0	391,248	8.91	- 17.4	1.95
4:10 PM	Below Hoag's Ranch	160.1	6440	60.0	386,400	8.87	- 3.8	.43
	U.S.G.S. Gaging Station	156.3						

PATTERSON-GREEN-LANE

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PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~Creek~~ 2 channels — February 6 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
1:00 PM	Sta. 115 West Channel 82.9							
1:22 AM	Sta. 115 East Channel 19.46	102.36	1900		118,000	2.71	- 2.33	.85
1:40 PM	Sta. 134 E. Channel 16.73							
2:00 PM	Sta. 134 W. Channel 83.30	100.03						
2:15 PM	Sta. 137 Fish Creek	17.32	1250		75,000	1.72	- .44	.25
2:30 PM	Sta. 146+50 E. Channel 15.50							
2:45 PM	Sta. 146+50 W. Channel 101.41	116.91	850		42,500	.98	- 1.65	1.68
3:00 PM	Sta. 155 W. Channel 90.55							
3:13 PM	Sta. 165 E. Channel 24.71	115.26						
						5.41	4.42	.82

LINDSAY

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~Creek~~ — February 5 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:30 AM	Sta. 6+00 Mouth of Canyon	121.66						
			1100	65	71,500	1.64	- 2.85	1.74
10:00 AM	Sta. 17+00	118.81						
9:45 AM	Inflow from Roger's Ck. Sta. 21+50	8.24						
	Sta. 17+00 Plus Rogers Creek	127.05	2450	56.5	138,250	3.17	+ 14.44	
10:30 AM	Sta. 41+50	141.49						
10:40 AM	Inflow from Power House	.75						
	Sta. 41+50 Plus Power House Inflow	142.24	2850	75.65	215,750	4.95	- 5.72	1.16
11:05 AM	Sta. 70+00	136.52	2150	58.1	125,000	2.87	- 21.71	7.56
11:50 AM	Sta. 91+50	114.81	850	55	46,750	1.07	+ 16.04	
12:00 PM	Sta. 100+00	130.85	2000	60	120,000	2.75	- 1.77	.26
12:40 PM	Sta. 120+00	129.08	1400	40	56,000	1.29	- 26.37	20.4
1:05 PM	Sta. 134+00	102.71						
1:20 PM	Inflow from Fish Cr. Sta. 137+00	18.74						
	Sta. 134+00 Plus Fish Inflow	121.45	1250	60	75,000	1.72	- 7.65	4.10
1:40 PM	Sta. 146+50 - 725' below P.E. Bridge	113.80						
2:00 PM	Sta. 155+00	135.04	1950	54.6	106,600	2.44	-11.72	5.17
2:35 PM	Sta. 174+50-650' below Foothill Blvd.	123.32	1465	44.9	65,750	1.51	+10.95	
3:15 PM	Sta. 189+15	134.27	1300	57.5	74,750	1.71	-24.08	12.56
3:40 PM	Sta. 202+15 Split-Rio Hondo, San Gabriel	110.19						

PERCOLATION MEASUREMENTS

SAN GABRIEL-RIO HONDO River ~~Creek~~ — FEBRUARY 11 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
10:35AM	PE Bridge-Above Foothill Blvd.	1857						
11:00AM	Big Santa Anita Cr-inflow	20						
	San Gabriel R. + Big Santa Anita	1877					755 = 40%	
12:45 PM	Rio Hondo-Lower Azusa Road	900					Percolation	
	San Gabriel River at El Monte Blvd.	222						
	San Gabriel R. El Monte + Rio Hondo Lower Azusa Road	1122						
2:45PM	Eaton Creek Inflow	4						

PERCOLATION MEASUREMENTS

SAN GABRIEL River RIVER Creek — March 16, 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:26 AM	2000' above Foothill Blvd.	210.43						
			5000	74	370,000	8.5	-20.98	2.5
9:50 AM	Above Split	189.45						
"	Below "	43.21						
			7600	41	311,600	7.1	- 4.85	0.7
11:05 AM	Gladstone Power Line	38.36						
			8800	39	343,200	7.9	- 4.06	0.5
1:00 PM	N. W. Line	34.30						
			6100	40.5	247,050	5.7	- 3.13	0.5
2:10 PM	Lower Azusa Road	31.17						
			4800	51	244,800	5.6	-19.41	3.5
3:00 PM	El Monte Blvd.	11.76						
			3200	43	137,600	3.2	-11.76	3.7
3:30 PM	End of Percolation	0.00						
						38.0	64.91	1.69

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~River~~ — March 17, 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:40 AM	2000' above Foothill Blvd	198.69						
			5300	74.5	394,850	9.1	-27.24	3.0
9:30 AM	Above Split	171.45						
9:30 AM	Below Split	44.17						
			7600	41.0	311,600	7.2	- 5.13	0.7
11:30 AM	Gladstone Power Line	39.04						
			8800	39.0	343,200	7.9	- 5.47	0.7
1:30 PM	N. W. Line	33.57						
			6300	40.0	252,000	5.8	- 3.52	0.6
3:00 PM	Lower Azusa Road	30.05						
			4600	52.0	239,200	5.5	-19.42	3.6
3:30 PM	El Monte Blvd.	10.63						
			2800	41.0	114,800	2.6	- 10.63	4.1
4:00 PM	End of Percolation	0.0						
						37.90	71.41	1.88

Some of the reaches seem to be silted so that the water will not percolate

BREWSTER

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~River~~ — 3 - 23 - 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:40 AM	2000' above Foothill Blvd	172.45						
			4900	71.	347500	8.0	- 13.79	1.7
9:30 AM	Above split	158.66						
9:30 AM	Below Split	35.86						
			7600	34.	258400	5.9	- 6.00	1.0
10:30 AM	Gladstone Power Line	29.86						
			8900	31.	275900	6.3	- 3.94	0.6
11:40 AM	N. W. Line	25.92						
			5700	33.	188100	4.3	- 4.03	0.8
12:40 PM	Lower Azusa Road	21.89						
			5300	29.	153700	3.5	-14.85	4.0
2:00 PM	El Monte Blvd.	7.84						
			2200	39	85800	2.0	- 7.84	3.9
2:30 PM	End of Percolation	0.00						
						30.7	54.85	1.65

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~River~~ — 3 - 24 - 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:20 AM	Sta. 0+00-100' Below Tunnel	154.57						
9:40 AM	Inflow from Rogers Cr. Sta. 23+70	1.74						
			2550	79.3	202500	4.65	- 7.50	1.61
9:50 AM	Sta. 25+50-150' Below Rogers Creek	148.71						
			2080	61.3	128650	2.95	- 4.83	1.67
10:30 AM	Sta. 46+30 River Leaves Mt.	144.08						
	Sta. 51+00 Inflow from Duarte Ditch	.78						
			4770	77.8	371550	8.53		
12:45 PM	Sta. 94+00	164.78						
			2750	83.2	229000	5.25	-19.42	3.70
1:30 PM	Sta. 121+50 (very Rough)	145.36						
	Sta. 145+00 (inflow from Fish Canyon	7.38						
			3080	101.60	313000	7.78	- 5.05	.70
3:00 PM	Sta. 152+30 500' Below P.E. Bridge	147.69						
			2290	74.5	170750	3.92	- 2.56	.75
3:35 PM	Sta. 175+20 - 40' Below Foothill Blvd.	144.73						

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~River~~ — 3 - 30 - 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:30 AM	2000' above Foothill Blvd.	150.68						
			5000	71	355,000	8.1	- 23.05	2.8
9:50 AM	Above Split	127.63						
"	Below "	24.97						
			7700	34	261,800	6.0	- 6.10	1.0
11:00 AM	Gladstone Power Line	18.87						
			8900	29.5	262,550	6.0	- 3.96	.7
12:30 PM	N. W. Line	14.91						
			5600	32	179,200	4.10	- 2.72	.7
2:00 PM	Lower Azusa Road	12.19						
			5100	24	122,400	2.8	- 8.48	3.0
3:00 PM	El Monte Blvd.	3.71						
			1100	37	40,700	.9	- 3.71	4.1
3:30 PM	End of Percolation	0.00						
						27.9	48.02	1.72

PERCOLATION MEASUREMENTS

SAN GABRIEL River From Tunnel to 2000' above Foothill Blvd. 3 - 31 1932

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
8:30 AM	Sta. 0+00 -100' Below Tunnel	140.82						
			2550	77.4	197,370	4.53	- 2.03	.45
9:30 AM	Sta. 25+50-Less Rogers	138.79						
9:15 AM	Rogers at San Gabriel	1.18						
9:30 AM	Sta. 25+50	139.97						
			2100	58.1	122,010	2.80	- 3.07	1.09
10:00 AM	Sta. 46+50-River leaves Mts.	136.90						
11:00 AM	Duarte Ditch-inflow	1.47						
	Sta. 46+50 with Duarte Ditch	138.37						
			4750	74.6	354,350	8.13	- 8.07	.99
12:30 PM	Sta. 94+00	130.30						
			2750	76.1	209,500	4.80	- 3.79	.79
1:20 PM	Sta. 121+50	126.51						
			3100	96.6	299,460	6.87	- 5.23	.76
3:15 PM	Sta. 152+50 less Fish	121.28						
2:30 PM	Fish Creek-Sta.145+00	4.86						
	Sta. 152+50	126.18				27.13	22.19	.82

PERCOLATION MEASUREMENTS

SAN GABRIEL RIVER River March 31 1932

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
1:00 PM	400' Below Banta Ditch Headgate	22.6						
			3100	58'	157500	3.62	- 6.9	1.90
1:40 PM	U.P.R.R.	15.7						
			2610	57'	152840	3.52	- 3.1	.88
2:30 PM	450' Above Whittier Blvd	12.6						
			2160	66'	114915	2.64	-12.6	4.77
3:20 PM	1710' Below Whittier Blvd	0				9.78	22.60	2.31

PERCOLATION MEASUREMENTS

SAN GABRIEL River April 6, 1932 19

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
8:30 AM	2000' above Foothill Blvd.	97.56						
			5000	66.	330,000	7.6	-16.53	2.2
9:45 AM	Above Split	81.03						
	Below Split	10.68						
			7600	26.	197,000	4.5	- 4.03	0.9
11:00AM	Gladstone Power Line	6.65						
			8800	21.	184,800	4.2	- 2.57	0.6
12:05 P	N. W. Line	4.08						
			5800	17.9	98,600	2.3	- 1.64	0.7
1:00PM	Lower Azusa Road	2.44						
			3800	12.	38,400	.9	- 2.44	2.7
1:40 PM	End of Percolation	0.00				19.50	27.00	1.38

PERCOLATION MEASUREMENTS

SAN GABRIEL River 4-7-32 1932

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
8:40 AM	sta. 0+00 125' below tunnel	84.81						
			2500	48.9	122,250	2.81	- 1.26	.45
9:30 AM	Sta. 25+0 Less Rogers Creek	83.55						
	+ Rogers Creek	.56						
	Sta. 25+0 100' below Rogers	84.11						
			2150	46.8	100,620	2.31	- .96	0.41
9:55 AM	Sta. 46+50 River Leaves Mt.	83.15						
			4750	46.2	219,440	5.04	- 5.23	1.04
10:55 AM	Sta. 94+00	77.92						
			2750	59.3	163,100	3.74	- 5.85	1.56
1:00 PM	Sta. 121+50	72.07						
			3100	66.3	205,600	4.72	- 1.09	0.23
2:00 PM	Sta. 152+50 Less Fish Creek	70.98						
	+ Fish Creek	5.52						
	Sta. 152+50 2000' above Foothill	76.50						
			2250	43.6	98,100	2.25	- 5.18	2.30
3:30 PM	Sta. 175+0 Foothill Blvd.	71.32				20.87	19.57	.94

LEE & MARTIN

PERCOLATION MEASUREMENTS

SAN GABRIEL 4 - 8 1932

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
8:30 AM	Sta. 0+00,100' below tunnel	78.63						
			2500	48.9	122,250	2.81	- 1.45	0.52
	Sta.25+00 Less Rogers Ck	77.18						
	+ Rogers Creek	.55						
9:00 AM	Ste.25+00,100' below Rogers Creek	77.73						
			2150	46.8	100,620	2.31	+ 2.89	1.25
9:45 AM	Sta.46+50 River Leaves Mt.	80.62						
			4750	46.2	219,440	5.04	- 5.05	1.00
10:10AM	Sta. 94+00	75.57						
			2750	59.3	163,075	3.74	- 4.72	1.26
10:30AM	Sta. 121+50	70.85						
			3100	66.3	205,530	4.72	- 9.77	2.07
	Sta.152+50 less Fish Ck.	61.08						
	+ Fish Creek	6.38						
1:15 PM	Sta. 152+50, 2000' above Foothill	67.46						
			2250	43.6	98,100	2.25	- 5.89	2.62
2:00 PM	Sta. 175+00 Foothill Blvd.	61.57						
			2400	45.0	108,000	2.47	- 6.06	2.45
	San Gabriel & Rio Hondo at Split	55.51						

LEE

PERCOLATION MEASUREMENTS

SAN GABRIEL River From Tunnel to Foothill Blvd. 4 - 13 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:30 AM	Sta. 0+00, 75' below Tunnel	67.81						
			2500	48.2	120,500	2.76	- .75	.27
9:10 AM	Sta. 25+00, Less Rogers	67.06						
	Rogers Creek	.15						
	Sta. 25+00 + Rogers Creek	67.21						
			2150	40.7	87,500	2.00	+ .57	
9:40 AM	Sta. 46+50 River Leaves Mt.	67.78						
			4750	39.6	188,100	4.31	- 5.01	1.16
10:50 AM	Sta. 94+00	62.77						
			2750	54.8	150,700	3.46	- 2.69	.77
1:00 PM	Sta. 121+50	60.09						
			3100	57.6	178,560	4.10	- 6.52	1.59
2:45 PM	Sta. 152+50, Less Fish Creek	53.57						
	Fish Creek	2.36						
	Sta. 152+50 + Fish Creek	55.93						
			2300	38.3	88,090	2.02	- 2.58	1.27
3:35 PM	Sta. 175+50 Foothill Blvd.	53.35						

LEE

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PERCOLATION MEASUREMENTS

SAN GABRIEL River From Tunnel to Foothill Blvd. 4 - 19 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:30 AM	Sta. 0+00 100' below Tunnel	54.59						
			2500	41.9	104,900	2.40		
9:20 AM	Sta. 25+00 100' below Rogers	59.56						
	Rogers Creek Dry		2050	36.3	74,500	1.71	- 2.21	- 1.29
10:00 AM	Sta. 45+50	57.35						
			4850	31.0	150,800	3.46	- 6.97	- 2.01
11:10 AM	Sta. 94+00	50.38						
			2750	40.0	110,000	2.52	- 4.53	- 1.80
1:15 PM	Sta. 121+50	45.85						
			3050	44.2	135,000	3.09	- 2.51	- .81
2:30 PM	Sta. 152+00 (less Fish)	43.34						
2:10 PM	Fish Creek	2.82						
	Sta. 152+0 + Fish							
			2300	36.2	83,400	1.91	- 4.58	- 2.40
3:30 PM	Sta. 175+00 Foothill Blvd. Bridge	46.16						
						12.69	20.80	1.64

PERCOLATION MEASUREMENTS

SAN GABRIEL River Above U.S.G.S. Station April 25th 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
	Edison Intake	190.9						
10:50 AM	Minus tunnel Discharge	81.1						
	Below Edison Sand Box	109.8						
11:15	Below R.R. Bridge	109.1	6278	41	257398	6.05	- .7	- .11
12:00 N	Below O'Melveny's	113.3	4004	64	256255	6.02	+ 4.2	
1:15 PM	Above Camp 2 (Moran's)	112.2	3892	44	171248	4.02	- 1.1	- .27
1:50 PM	Below Children's Camp	113.8	2181	40	87240	2.05	+ 1.6	
1:45 PM	At Pasadena Damsite	115.3	3080	37	117660	2.76	+ 1.5	
2:15 PM	At Granite Dyke	109.7	3168	39	123552	2.90	- 5.6	-1.93
2:50 PM	At Hoag's Ranch Station	109.3	5280	38	200640	4.72	- 0.4	- .08
2:35 PM	Below Camp 1 (Newman's)	115.5	4852	67	325084	7.64	+ 6.2	
3:00 PM	At U.S.G.S. Station	108.2	3696	65	240240	6.56	- 7.3	-1.29

PERCOLATION MEASUREMENTS

SAN GABRIEL River 4 - 27 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:15 AM	Sta. 0+0-100' below Tunnel	33.19						
			2500	42.5	106400	2.44	+ 1.16	.47
9:50 AM	Sta. 25+00-Less Rogers	34.35						
	Rogers Creek	.35						
9:55 AM	Sta. 25+00 & Rogers	34.70						
			2100	34.2	72000	1.65	- 4.16	2.52
10:15 AM	Sta. 46+00	30.54						
			4800	29.9	143600	3.29	- 8.59	2.61
11:00 AM	Sta. 94+00	21.95						
			2750	39.1	107550	2.46	- 1.51	.61
1:15 PM	Sta. 121+50	20.44						
			3050	43.0	131300	3.01	- 2.51	.83
2:25 PM	Sta. 152+00 less Fish	17.93						
2:00 PM	Creek	3.93						
2:25 PM	Sta. 152+00 + Fish Creek	21.86						
			2300	32.4	74600	1.71	- 3.73	2.18
3:10 PM	Sta. 175+00 Foothill Blvd.	18.13						

PERCOLATION MEASUREMENTS

SAN GABRIEL AND RIO HONDO River From 2000' above Foothill Blvd. to end of water 4 - 28 - 19 32

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:30 AM	Sta. 0+0 2000' above Foothill Blvd.	20.36						
			4900	27.7	135750	3.11	- 6.56	2.11
9:10 AM	Rio Hondo at Split	13.80						
			6150	19.8	121800	2.79	- 3.73	1.34
10:35 AM	Rio Hondo Sta 61+50	10.07						
			7450	23.9	178100	4.08	- 5.65	1.38
11:25 AM	Rio Hondo Sta. 136 Arrow Highway	4.42						
			4400	14.5	63800	1.46	- 2.61	1.78
1:05 PM	Rio Hondo N. W. Line	1.81						
			3000	16.9	50700	1.16	- 1.31	1.13
2:20 PM	Rio Hondo Peck Road, Est.	.50						
			3650	5.8	21170	.48	- .50	1.04
3:00 PM	End of Water 3650' below Peck Road	0.0				13.08	20.36	1.55

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~Creek~~ — May 2 — 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
	Edison Intake	168.1					-118.50	
8:40 AM	Below Edison Intake	49.60					+ 0.88	
9:15 AM	Above Sand Box	50.48					+32.48	
9:20 AM	Below Sand Box	82.96					+ 2.18	
9:50 AM	Below R. R. Bridge	85.14					- 0.37	
10:10 AM	Below O'Melveney's	84.77					+ 5.33	
10:10 AM	Above G. W. Morans	90.00					- 4.09	
10:45 AM	Below Pine Canyon (Children's camp)	85.09					+ 5.09	
10:35 AM	Pasadena's Damsite	90.18					+ 0.09	
11:05 AM	Granite Dyke	90.27					- 3.37	
	Hoag's Ranch	86.90					+ 6.76	
11:30 AM	Below Newmans	93.66					- 4.96	
	U.S.G.S. Gaging Station	88.70					- 74.96	
11:55 AM	Below Tunnel	13.75						

PATTERSON - DELANY - GREEN

PERCOLATION MEASUREMENTS

SAN GABRIEL River Creek — 5 - 3 — 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
8:20 AM	Sta. 0+0 80' Above Cable U.S.G.S. U8	85.69	1100	60.1	66,200	1.91	- 1.44	.90
8:50 AM	San Gabriel & Tunnel Intake	84.25						
	Tunnel Intake	71.23						
	San Gabriel-Main Channel	13.02	2500	27.5	68,800	1.57		
9:50 AM	Sta. 25+0 - 100' Below Rogers	13.48	2100	26.2	55,100	1.26	-1.23	.97
10:20 AM	Sta. 46+0 - River Leaves Mts.	12.25	4800	21.8	105,000	2.41	-7.33	3.04
11:10 AM	Sta. 94+0	4.92	2750	24.2	66,600	1.52	-3.23	2.12
11:30 AM	Sta. 121+50	1.69	3350	22.4	75,300	1.72	-1.34	.77
2:30 PM	Sta.155+00 San Gabriel Fish Creek	.35						
	Sta.155+00 San Gabriel + Fish Creek	5.88	2000	31.6	63,200	1.45	- 3.10	2.13
3:15 PM	Sta. 175+00	2.78						

LEE

PERCOLATION MEASUREMENTS

SAN GABRIEL ~~River~~ ~~Creek~~ — May 2nd — 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
9:15 AM	Foothill Blvd.	7.88	2300	22.69	52,200	1.20	- 3.11	2.59
9:45 AM	Santa Fe Bridge	4.77						

LINDSAY

PERCOLATION MEASUREMENTS

SAN GABRIEL River ~~Creek~~ — 5-6 — 19 32

Time	Location	Disch.	Length Of Reach	Av.Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F.Per Ac.of Wetted Area
8:30 AM	80' Above Cable US.G.S.	72.08	1100	57.1	62,900	1.44	-.71	0.49
8:50 AM	San Gabriel Plus Tunnel Intake	71.37						
9:15 AM	San Gabriel 200' Below Tunnel	8.62						
10:00 AM	San Gabriel 80' below Rogers	7.85	2500	25.0	62,300	1.43	-.77	.53
10:20 AM	River Leaves Mt.	7.91	2100	21.9	54,800	1.25		
11:15 AM	Sta. 94+00	2.47	4800	17.1	82,300	1.88	-5.44	2.08
1:30 PM	End of Water Sta. 124+0		3000	17.5	52,600	1.20	-2.47	2.05
1:40 PM	Fish Creek at S.G.River	4.09	1100	19.0	21,000	.48	-0.55	1.14
2:30 PM	2000' above Foothill Blvd	3.54	2100	15.2	32,000	.73	- 2.06	2.81
3:25 PM	Foothill Blvd.	1.48						
	Water stops at Sta.124+0 on San Gabriel River. Only water reaching Foothill Blvd. coming from Fish Creek.							

LEE

PERCOLATION MEASUREMENTS

SAN GABRIEL River Creek — May 9th 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:45 AM	Sta. #0+0=75' below committee of 9 Div. Dam	8.23						
			2500	24.15	60,375	1.39	- .68	.49
10:30 AM	Sta. #25+0 = 300' below mouth of Rogers Cr.	7.55						
			2100	27.05	56,800	1.30	- .89	.68
11:05 AM	Sta. #46+0 = River Leaves Mountains	6.66						
11:15 AM	Sta. #51+50 inflow from Duarte Ditch Est.	.20						
	Sta. #46+0 plus Duarte Ditch	6.86						
			4800	22.01	106,200	2.43	-6.29	2.59
12:00 N	Sta. #94+0 below Div. Dam	.57						
			480	14.25	6,840	.16	- .57	3.56
12:15 P	Sta. 98+80 " " "	0.0						
1:30 PM	Sta. #144+0 250' above P.E. Bridge	0.0						
1:30	Sta. #144+0 = Fish Cr. inflow	4.33						
			1110	24.80	27,528	.63	-1.08	1.71
2:05 PM	Sta. #155+10=810 below P.E. Bridge	3.25						
			2200	20.38	44,900	1.03	-2.41	2.34
2:30 PM	Sta. #177+10 Foothill Blvd.	.84						
			300	12.00	3,600	.08	- .84	10.5
2:45 PM	Sta. #180+10=300' below Foothill	0.0						

PERCOLATION MEASUREMENTS

1st STREET SPREADING GROUND - AZUSA River Creek — 4 - 15 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8:30 AM	Outlet 1st Street	11.77	None Given		148,250	3.40	-12.16	3.46

Gross Acreage Est-13.50
Net " Actual - 3.40

PERCOLATION MEASUREMENTS

SAN GABRIEL River Creek
SPREADING GROUND — May 16th 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:55 AM	Sta. 0+0-75' below Diversion Dam	18.07						
			2425				-0.12	
10:30 AM	Sta. 25+00-300' below Rogers Creek	17.95						
			2100				- .02	
11:05 AM	Sta. #46+0 - River leaves Mountains	17.93						
			3500				-5.17	
11:50 AM	Sta. 81+00	12.76						
			1400				+ .23	
12:25 PM	Sta. 95+00	12.99						
			2500				- 2.78	
12:55 PM	Sta. 120+00	10.21						
2:00 PM	Fish Cr. inflow	3.14						
	Sta. 120+00 Plus Fish Creek = 13.35	13.35						
			2600				- 3.09	
2:25 PM	Sta. #145+0- 100' above R.E. Bridge	10.26						
			900				- 1.23	
2:50 Pm	Sta. #155+0-800' below P.E. Bridge	9.03						
			2210				- 1.93	
3:35 PM	Sta. #177+10 Foothill Blvd.	7.10						
			2290				- 3.67	
4:10 PM	Sta. 200+00 Santa Fe. R.R. Bridge	3.43						

PERCOLATION MEASUREMENTS

SAN GABRIEL RIVER River Creek
SPREADING GROUND — May 5, 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
8 AM	1st Street Spreading Ground, 100' Below where water discharges from pipe line	8.02			103,400	2.37	- 8.02	3.38

PERCOLATION MEASUREMENTS

SAWPIT ~~River~~ Creek — Jan. 4 — 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:30 AM	100' Below Dam	3.56						
			400	7	2800	.06	- .91	15.
9:35 AM	500' below Dam	2.65						
			500	6	3000	.07	+ .81	
9:50 AM	1000' " "	3.46						
10:15 AM	Monrovia Ck.(.05 over Weir	.17						
			400	5	2000	.05	+ .38	
10:25 AM	Sawpit below junction	4.01						
			1000	6	6000	.14	- .41	2.93
10:40 AM	2400' below dam	3.60						
			1000	8	8000	.18	- .12	0.67
11:05 AM	3400' " "	3.72						
			1000	7	7000	.16	+ .18	
11:30 AM	4400' " "	3.90						
			1000	6	6000	.14	- .16	1.14
11:50 AM	5400' " "	3.74						
			1000	5	5000	.11	- 2.29	20.82
12:45 PM	6400' " "	1.45						
			1000	4	4000	.09	- .63	7.0
1:00 PM	Oak Park Lane 7400' below Dam	.82						
			1000	2	2000	.05	- .82	16.4
1:20 PM	Ocean View Ave. 8400' below Dam	0						

HARTING & LAIRD

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PERCOLATION MEASUREMENTS

SAWPIT ~~River~~ Creek — 2 - 22 — 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
9:20 AM	500' below F.C. Dam	11.10						
			1000	12	12,000	.27	+ .93	
9:40 AM	1500' " "	12.03						
			1200	11	13,200	.30	- .79	2.63
10:25 AM	2700' " "	11.24						
			1000	14	14,000	.32	+2.02	
11:10 AM	3700' " "	13.26						
			1000	10	10,000	.23	+ .75	
11:30 AM	4700' " "	14.01						
			1000	8	8,000	.18	-1.54	8.55
12:45 PM	5700' Just above Upper Norumbega well	12.47						
	Just below Norumbega Well	13.05	1000	8	8,000	.18	- .83	4.6
1:35 PM	6700' Below F. C. Dam	12.22						
			1000	8	8,000	.18	- 2.44	13.6
1:50 PM	7700' " "	10.78						
			1200	10	12,000	.28	- .56	2.00
2:20 PM	8900' " Valley View Ave	10.22						
			1300	10	13,000	.30	- 2.41	8.03
2:40 PM	Wild Rose Ave.	7.81						
			1500	8	12,000	.28	- .83	2.96
3:00 PM	Orange-Lemon Ave.	6.98						
			1200	8	9600	.22	- .84	3.82
3:15 PM	Foothill Blvd.	6.14						
			1300	9	11,700	.27	- 3.93	14.56
3:45 PM	Huntington Drive	2.21						
			2000	12	24,000	.55	- 2.21	4.03
4:00 PM	400 N. of Duarte Road	0						

HARTING - LAIRD

PERCOLATION MEASUREMENTS

SAWPIT ~~River~~ Creek Channel — 3 - 7 — 1932

Time	Location	Disch.	Length Of Reach	Av. Width of Reach	Area in Sq. Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in S.F. Per Ac. of Wetted Area
11:45 AM	Outflow of Valve	2.28						
12 Noon	Monrovia Canyon flow to Sawpit	+.46					+ .45	
1:45 PM	At Spanish Canyon 40-00	3.19	2700	16'	16,200	.372	- 1.37	3.68
12:30 PM	At Herumbega St. 67-00	1.82	4300	3'	12,900	.296	- 1.27	4.29
1:00 PM	Ocean View Ave.	0.55	3400	1	3,400	.078	- .55	7.05
2:30 PM	Foothill Blvd.	0.0				.746	3.19	4.28

NOTE: Valve at dam flushed sometime in the morning this probably accounts for the increase in flow shown in above measurements.

ASH

PERCOLATION MEASUREMENTS

SOLEDALD CANYON ~~River~~ Creek ~~Bank~~ — Feb. 6, April 15 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
				FEB.6					
1:25 PM	Below Mill Cn.	1.40							
1:00 PM	Bear Cn.1100' above Soledad	.84							
	Total	2.24							
11:45 AM	Rising Water Lang	.84					- 1.40		
				APRIL 15					
4:40 PM	Aliso Cr.13 above Soledad	.41							
	1000' above Arrestra dry	0							
5:15 PM	Arrestra .5 mi.above Soledad	.33							
5:30 PM	Mill Cn.500' above Soledad	.11							
	Total	.85							
5:50 PM	500' below Mill Canyon	2.71					+ 1.86		
6:00 PM	1st Cn. W. of Indian Cn.	.03							
6:15 PM	Augua Dulce 300' above Soledad	.01							
6:30 PM	Bear Canyon 1000' above Soledad	.26							
	Total	3.01							
6:45 PM	.6 above Rising Water Lang	1.21					- 1.80		
11:45 AM	Rising Water Lang	4.06					+ 2.85		
	Diversion Lang	- .21							
	Total	4.25							
	750 Ft. below	0					- 4.25		

PERCOLATION MEASUREMENTS

SOLEDAD CANYON ~~River~~ Creek ~~Bank~~ — 4 - 22 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
1:45 PM	Aliso Cr. 1½ mi. above Soledad	.15							
	Above Arrastra Canyon	0					- .15		
1:05 PM	Arrastra Cn.5mi. above Soledad	.44							
2:30 PM	Mill Cn.1000' above Soledad	.05							
	Total	.64							
2:35 PM	Below Mill Cn. Cr.	2.56					+ 1.92		
3:10 PM	1st Cn. W. of Indian Cn.	.04							
	Agua Dulce Dry	0							
	Total	2.60							
3:30 PM	200' below Agua Dulce	2.12					- .48		
4:00 PM	Bear Cn. 1000' above Soledad	.26							
	Total	2.38							
4:15 PM	.6 mi. above Missing Water Lang	1.33					- 1.05		
10:30 AM	Rising Water Lang	3.21					+ 1.88		
	500' below	0					- 3.21		

LUCE

PERCOLATION MEASUREMENTS

SOLEDAD CANYON ~~River~~ Creek ~~Bank~~ — May 6 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
1:05 PM	Aliso Cr-1½ Mi. above Soledad	.05							
1:25 PM	1000' above Arrastra Cn.	0					- .05		
1:30 PM	Arrestra, 5 Mi. above Soledad	.37							
1:40 PM	Mill Cn. Cr. dry	0							
	Total	.42							
1:55 PM	500' below Mill Cn. Cr.	2.16					+ 1.74		
2:25 PM	4 Mi. below Mill at Camp Grounds	2.09					- .05		
2:10 PM	1st Cn. W. of Indian Cn.	.03							
3:00 PM	Bear Cn-1000' above Soledad	.33							
	Total	2.45							
3:30 PM	.6 mi. above Rising Water Lang	1.19					- 1.26		
3:45 PM	Rising Water Lang	3.44					+ 2.25		
4:00 PM	Diversion Ditch Lang	- 2.25							
	500' below Rising Water	0					- 2.25		

LUCE

PERCOLATION MEASUREMENTS

SOLEDAD CANYON ~~River~~ Creek ~~Bank~~ — May 13 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
2:20 PM	Aliso Cr. 1½ mi. above Soledad	.03							
	1000' above Arrastra Cr.	0					- .03		
3:30 PM	Arrastra Cr.5 mi.above Soledad	.05							
	Mill Cr.	0							
	Total	.08							
4:10 PM	500' below Mill Cr.	2.13					+ 2.05		
4:30 PM	Cn. W. of Indian Cn.	.03							
	Total	2.16							
4:45 PM	Camp Grounds, 4 Mi. below Mill Cn.	1.21					- .95		
5:00 PM	Bear Cn-1000' above Soledad	.21							
	Total	1.42							
5:40 PM	6 Mi. above Rising Water Lang	.24					- 1.18		
6:05 PM	Rising Water Lang	2.15					+ 1.91		
5:50 PM	Diversion Ditch Lang	-1.61							
		.54							
	300' below Rising Water	0					- .54		

LUCE

PERCOLATION MEASUREMENTS

Soledad Canyon Creek — May 19 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
4:15 PM	Aliso Canyon Creek	.03							
	1000' above Arrastra Cr.	0					- .03		
4:04 PM	Arrastra Creek	.02							
	Mill Cn. Cree	0							
	Total	.05							
5:00 PM	500' below Arrastra Cr.	2.07					+ 2.02		
5:10 PM	1st Cn. W. of Indian Cn.	.02							
	Total	2.09							
5:30 PM	4 Mi. W. Mill Cr - Camp Grounds	1.06							
6:00 PM	Bear Cn-1000' above Soledad	.09							
	Total	1.15							
6:10 PM	6 Mi. above Rising Water Land	0					- 1.15		
6:30 PM	Rising Water Lang	2.35					+ 2.35		
6:40 PM	Diversion Ditch Lang	- 1.78							
		.57							
	200' below Rising Water	0					- .57		

LUCE

PERCOLATION MEASUREMENTS

Soledad Canyon Creek — June 11 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
	Aliso Creek	0							
	1000' above Arrastra Cr.	0							
2:00 PM	Arrastra Creek	.02							
	Mill Cn. Cr.	0							
	Total	.02							
2:50 PM	500' below Mill Cr.	1.75					+ 1.73		
3:00 PM	4 mi. below Mill Cr.	.57					- 1.18		
4:55 PM	Bear Cn. 1000' above Soledad	.01							
		.58							
5:10 PM	.6 mi. above Rising Water	0					- .58		
5:20 PM	Rising Water Lang	1.29					+ 1.29		
5:30 PM	Diversion Ditch Lang	- 1.01							
		.28					- .28		
	100' below Lang	0							

LUCE

PERCOLATION MEASUREMENTS

Soledad Canyon Creek — May 26 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
3:15 PM	Aliso Cn. 1½ mi.above Soledad	.02					.02		
	1000' above Arrastra Cr.	0							
3:40 PM	Arrastra Cr. .5 mi. above Soledad	.03							
	Mill Creek	0							
	Total	1.73					+ 1.68		
4:45 PM	1st Cr. below Indian Cr.	.01							
	Agua Dulce Cr.	0							
5:00 PM	Bear Cn. 1000' above Soledad	.10							
	Total	1.84							
	.6 mi. above Rising Water Lang	0					- 1.84		
5:10 PM	Rising Water Lang	1.60					+ 1.60		
5:20 PM	Diversion Ditch Lang	-1.29							
		.31							
	100' below Rising Water	0					.31		

LUCE

PERCOLATION MEASUREMENTS

SOLEDAD CANYON Creek — 7 - 23 — 19 32

Time	Location	Disch. in Sec.Ft.	Length of Reach	Aver. Width of Reach	Area in Sq.Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec.Ft. Per Acre Wetted Area	Remarks
	1000' above Arrastra Creek	0							
	Arrastra Creek	0							
	Mill Canyon Creek	0							
11:45 AM	500' below Mill Creek	1.00					+ 1.00		
	4 Mi. below Mill Creek at Camp Grounds	.19					- .81		
	.6 Mi. above Rising Water Lang	0					- .19		
4:10 PM	Rising Water Lang	1.38					+ 1.38		
4:20 PM	Diversion Ditch	-1.06							
		.32							
	100' below Rising Water Lang	0					- .32		

LUCE