

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
REPORT ON
RAINFALL, RUNOFF & DAM OPERATION
SEASONS 1934 - 35 AND 1935 - 36
OCTOBER 1, 1937

Los Angeles County Flood Control District
HYDRAULIC DEPARTMENT

REPORT TO C. H. HOWELL, CHIEF ENGINEER
ON
RAINFALL, RUNOFF, AND DAM OPERATION
IN LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SEASONS 1934-35 and 1935-36

Paul Baumann, Jr. Asst. Chief Engineer
Finley B. Laverty, Chief Hydraulic Engineer

October 1, 1937

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

LOS ANGELES, CALIFORNIA

751 SO. FIGUEROA ST.

October 1, 1937

C. H. HOWELL
CHIEF ENGINEER

~~503 CIVIC CENTER BUILDING~~
~~503 CIVIC CENTER BUILDING~~

PLEASE REFER TO FILE NO.

SUBJECT Rainfall, Runoff and
Dam Operation Report.
Seasons 1934-35 and
1935-36.

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

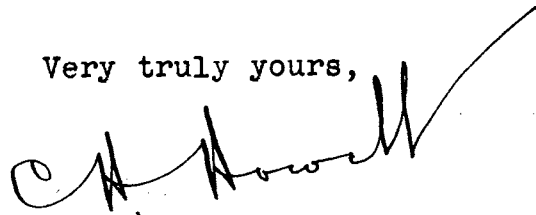
Gentlemen:

There is transmitted herewith for your file the Los Angeles County Flood Control District's Rainfall, Runoff and Dam Operation Report for the seasons 1934-35 and 1935-36.

This report contains rainfall, evaporation, dam operation and runoff records collected by the District's Hydraulic Department, which is basic information for the design of flood control structures, and water conservation projects. The value of continued collection and compilation of the type of data presented can not be overestimated, due to its universal use for hydraulic investigations in this area.

The District wishes to record its appreciation of the cooperation rendered by public and private organizations and individuals in gathering portions of the material presented.

Very truly yours,



C. H. Howell, Chief Engineer

Los Angeles County Flood Control District
Hydraulic Department

October 1, 1937

Mr. C. H. Howell
Chief Engineer
L. A. County Flood Control District
Los Angeles, California

Dear Sir:

Herewith is transmitted the report on Rainfall, Dam Operation and Runoff for the Seasons 1934-35 and 1935-36. The report has been compiled from measurements taken by the Hydraulic Department of the District and outside cooperative persons and agencies. The material presented has been divided into three sections as follows:

1. Rainfall and Evaporation records.
2. Dam Operation records.
3. Runoff records.

Rainfall records are presented by months from 284 stations for 1934-35 and from 303 stations for 1935-36. Evaporation records are also given for 26 and 23 stations respectively.

Rainfall as measured at Los Angeles was 21.63 inches in 1934-35 and 12.02 inches in 1935-36 or 142% and 79% respectively, of the 60 year normal seasonal rainfall. Similar percentages for other areas in the District are as follows:

	1934-35	1935-36
(1) San Gabriel Mt. area	128%	81%
(2) Valley and Coastal Plain	128%	80%
(3) Santa Monica Mountains	120%	80%
(4) North of San Gabriel Mountains	121%	65%

Though 1935-36 offered little intense precipitation, the storm of April 8, 1935 produced .52 inches in one minute at Opid's Camp and rather high intensities at many other localities throughout the District.

Mr. C. H. Howell
Page 2

The section on Dam Operation Records includes tabulations which show daily gage heights, storage, inflow and outflow for twelve dams.

The Runoff Section includes descriptions of 70 automatic recorder stations together with mean daily flows, maximum and minimum flows and hydrographs of the larger storms. It contains stream flow measurements at automatic and staff gage stations as well as measurements at miscellaneous points for percolation and other studies.

During 1934-35, 6400 stream measurements were made and during 1935-36 the similar total was 5400.

The value of these measurements and records for future flood control design problems and particularly for spreading and general conservation development, is emphasized by the varied use they have in this office as well as the constant demand for them from outside agencies. The lack of similar data prior to the inception of this work by the District, is appalling. The continuation of the collection of the type of data presented herein without break in continuity is strongly recommended.

The Hydraulic Department wishes to express its appreciation to the many agencies and individuals whose cooperation has provided data for the District's use and for this report.

Very truly yours,


Finley B. Lavery

Chief Hydraulic Engineer

C O N T E N T S

RAINFALL, RUNOFF AND DAM OPERATION REPORT FOR SEASONS 1934-1935 and 1935-1936

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F38R	BALLONA CREEK	at Centinela Blvd.	57-62
F38B-R	BALLONA CREEK	at Sawtelle Blvd.	63
F235R	BENEDICT CANYON STORM DRAIN	at Wesley St., 400 ft. south of P.E. tracks	64-65
F2R	BROWN CANYON CREEK	at Devonshire Ave., Chatsworth	66
F168R	BIG TUJUNGA CREEK	below Big Tujunga Dam #1	66-68
F111B-R	BIG TUJUNGA CREEK	above Edison Road	69-72
F213R	BIG TUJUNGA CREEK	below submerged dam	72-76
F106B-R	BIG TUJUNGA - EAST WASH	at Chandler Blvd.	76-77
F106R	BIG TUJUNGA - EAST WASH	at Magnolia Blvd.	77-79
F110R	BIG TUJUNGA - FOX CREEK	1/4 mi. above mouth	80-82
F20R	BIG TUJUNGA WASH	at Stonehurst Ave.	83-85
F105R	BIG TUJUNGA - WEST WASH	at Magnolia Blvd.	86-87
F186R	CENTINELA CREEK	1.2 mi. S. of Jefferson Blvd. on Centinela Blvd.	88-90
F37R	COMPTON CREEK	at Rosecrans Ave.	90-95
F41R	COYOTE CREEK	below P.E. Bridge	96-98
F53R	DUME CREEK	at Roosevelt Highway	99-101
F104R	EATON WASH	at Sunset Ave.	101-104
F65R	LITTLE DALTON CREEK	at mouth of canyon	104-107
L1R	LITTLE ROCK CREEK	2 mi. above Little Rock Dam	107-109
F67R	LITTLE SANTA ANITA CR.	1/4 mi. below Sierra Madre Dam	110-112
F67B-R	LITTLE SANTA ANITA CR.	270 ft. below Sierra Madre Dam	112
F19R	LITTLE TUJUNGA CREEK	at Foothill Blvd.	113-115
F31R	LIVE OAK CREEK	near mouth of canyon	116
F57R	LOS ANGELES RIVER	at Figueroa St.	117-121
F180R	LOS ANGELES RIVER	at State St., Long Beach	121-125
F34R	LOS ANGELES RIVER	at Stewart and Gray Road	126-130
F5R	LOS ANGELES RIVER	at Van Nuys Blvd.	131-134
F124R	LOS ANGELES RIVER	at Vineland Ave.	134-137
FLOOR	MAIN SPREADING CANAL	at mouth of San Gabriel Canyon	138-139
F130R	MALIBU CREEK	at Crater Camp	139-141
F22R	MONROVIA CREEK	200 ft. above junction with Sawpit Cr.	142-145
F195R	MONROVIA STORM DRAIN	near Peck Road	145-147
F181R	MONTEBELLO STORM DRAIN	at outlet into Rio Hondo at Mines Ave.	148-150
F46R	NIGGER SLOUGH	at Wilmington Ave.	150-151
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RECORDER STATION DATA
Arranged Alphabetically

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F192R	RIO HONDO	at Lower Azusa Road	158-161
F64R	RIO HONDO	1000 ft. above Mission Bridge	162-166
F45R	RIO HONDO	at Stewart and Gray Road	167-170
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F82B-R	RUBIO WASH	at Broadway	173-175
F151R	SAN ANTONIO CREEK	at mouth of canyon	175-178
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F28R	SAN GABRIEL RIVER	at Edison Intake	192-198
P4R	SAN GABRIEL RIVER - E. FORK	2 miles above Forks	198-203
F190R	SAN GABRIEL RIVER	at Foothill Blvd.	204-207
P6R	SAN GABRIEL RIVER	1500 ft. below Morris Dam	208
F98R	SAN GABRIEL RIVER - NORTH FORK		209-212
F233R	SAN GABRIEL RIVER	near Roberts Relay Station	212-217
F191R	SAN GABRIEL RIVER	at San Bernardino Blvd.	218-219
F42R	SAN GABRIEL RIVER	at Spring St., Long Beach	220-222
F237R	SAN GABRIEL RIVER	at Telegraph Road	222-225
P3R	SAN GABRIEL RIVER - W. FORK	2 miles above Forks	225-230
F251R	SAN GABRIEL RIVER - W. FORK	Parshall flume below S. G. Dam #2	231-236
F228R	SAN GABRIEL RIVER - W. FORK	3½ miles above S. G. Dam #2	237-239
F209R	SAN GABRIEL RIVER - W. FORK	1/2 mile below S. G. Dam #2	240-246
F63R	SAN GABRIEL RIVER	at Whittier Blvd.	246-249
F48R	SAN JOSE CREEK	at Workman Mill Road	249-252
F260R	SANTA ANITA CREEK	770 ft. above junction with Little Santa Anita Creek	253
F119R	SANTA ANITA CREEK	Parshall flume below Santa Anita Dam	253-254
F21R	SANTA ANITA CR.	1/4 mi. below Santa Anita Dam	255-256

RECORDER STATION DATA
Arranged Alphabetically

<u>F.C. No.</u>	<u>Station</u>	<u>Location</u>	<u>Pages</u>
F193R F92R	SANTA ANITA WASH SANTA CLARA RIVER	below Arrow Highway at old highway bridge 4 mi. W. of Saugus	256-258 259-260
F194R F185R F44R	SAWPIT WASH SEPULVEDA CREEK SYCAMORE LOWER STORM DRAIN	above Arrow Highway at Charnock Road at Adams Square	261-262 262-265 266-268
F43R	SYCAMORE UPPER STORM DRAIN	at Solway St.	268-269
F54R	TOPANGA CREEK	at highway bridge 2 mi. above mouth	270-272
F244R F252R F47R	VERDUGO CHANNEL VERDUGO CHANNEL WALNUT CREEK RISING WATER	at Don Carlos Street at Estelle Ave. at Covina Blvd. at Whittier Narrows	273-275 275-276 277-279 280

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U6R	ROGERS CREEK	near Azusa	295-297
U15R	SAN ANTONIO CREEK	near Claremont	297-299
U10R	SAN DIMAS CREEK	near San Dimas	299-301
U8R	SAN GABRIEL RIVER	near Azusa	302-303
U4R	SANTA ANITA CREEK	near Sierra Madre	304-305
U5R	SAWPIT CREEK	near Monrovia	306-307

STAFF GAGE STATION DATA
Arranged Alphabetically

<u>F.C. No.</u>	<u>Station</u>	<u>Location</u>	<u>Pages</u>
F116S F58S F153S	ARROYO DITCH ARROYO SECO ARROYO SECO - MILLARD CREEK	below head gate at Avenue 26 1/2 mi. above Devil's Gate Dam	308-309 309 309
F157S F166S F87S F143S	ARROYO SEQUIS BALLONA CREEK BANTA DITCH BIG ROCK CREEK	at Roosevelt Hwy. at Jacob St. at head of pipe line 300 ft. above Palette Creek	309 310 311 312

STAFF GAGE STATION DATA
 Arranged Alphabetically

<u>F.C. No.</u>	<u>Station</u>	<u>Location</u>	<u>Pages</u>
F175S	BIG TUJUNGA - BREAKNECK CREEK	near mouth	312
F173S	BIG TUJUNGA - CLEAR CREEK	above mouth	312
F10P	BIG TUJUNGA CREEK	Parshall flume 800 ft. below Big Tujunga Dam #1	312
F176S	BIG TUJUNGA - MAPLE CREEK	near mouth	312
F169S	BIG TUJUNGA - TRAIL CANYON CREEK	above mouth	312
F155S	BIG TUJUNGA WASH	at Foothill Blvd.	313
F79S	BROWN'S GULCH	near junction with San Gabriel River	313
F140S	CASTAIC CREEK	at highway bridge near Elizabeth Lake Canyon	313
F108S	CASTAIC CREEK	1½ mi. W. of Castaic Junction	313
F84S	CATE DITCH	below sluice gate	313-314
F249S	CERRITOS SLOUGH	at Anaheim Blvd.	314
F61S	COLD CREEK	at Crater Camp	314
F256S	CORRAL CREEK	at Roosevelt Highway	314
F141S	ELIZABETH LAKE CREEK	at bridge at Center Cabin Site	315
F163S	EL MONTE AVE. STORM DRAIN	below Lower Azusa Road	315
F132S	GAVIN CANYON CREEK	at Weldon Cn. Hwy. 1000 ft. below Towsley Cn.	315
F259S	LOS ALISOS CREEK	at Roosevelt Highway	315
F232S	LOS ANGELES RIVER	1/4 mi. below Buena Vista St.	315-316
F255S	LOS ANGELES RIVER	at Niagara St.	316
F196S	PACOIMA CREEK	at Maclay Ave.	317
F197S	PACOIMA WASH	at Arletta St.	317
F122S	PALLETTE CREEK	at Big Rock Creek	317
F248S	RIO HONDO	above Arrow Highway	318
F238S	RUSTIC CANYON STORM DRAIN	100 ft. above Channel Road	318
F91S	SAN DIMAS CREEK	above San Dimas Dam	319
F247S	SAN GABRIEL RIVER	at Arrow Highway	319
F86S	SAN GABRIEL RIVER	below Standifer Ditch	320
100A-B C-D-E-F	SAN GABRIEL SPREADING GROUNDS	near mouth of San Gabriel Canyon	321-322
F137S	SANTA CLARA RIVER	1 mi. W. of Castaic Junction	322
F55S	SANTA MONICA CANYON	150' below Channel Lane	323
F125S	SANTIAGO CREEK	500' above Little Rock Creek	323
F257S	SOLSTICE CREEK	at Roosevelt Highway	324
F85S	STANDIFER DITCH	below head gate	324-325
F258S	TRANCAS CREEK	at Roosevelt Highway	325
F66S	TRI-CITY OUTFALL SEWER	above junction with Rio Hondo	325-326

PERCOLATION DATA

SAN GABRIEL RIVER AND RIO HONDO

12-26-34	300' below Foothill Blvd., Rec. Sta. F190R to Rio Hondo Sta. 130+00	362
2-19-35	Rio Hondo - San Gabriel River at Foothill Blvd. to San Gabriel River 1500' above Lower Azusa Rd.	363
3-19-35	San Gabriel River at Foothill Blvd. to San Gabriel River 1500' above Lower Azusa Rd.	363
4-17-35	San Gabriel River at Foothill Blvd. to Rio Hondo - Station 167+00	364

SANTA ANITA WASH

2-25-36	155 ft. above N. end of improved channel to 250 ft. below Valnet Dr.	364
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RAINFALL AND EVAPORATION REPORT

FOREWORD

In line with the policy of the Los Angeles County Flood Control District of placing raingages throughout the County to obtain effective distribution, a number of rainfall stations are added from year to year. New stations are established as funds permit in areas where present gage distribution is not sufficient to completely cover the area. Particular attention has been directed toward obtaining locations in the mountains where stations are not so plentiful due to scarcity of observers. Long time records kept by private parties are obtained when possible and these become a valuable addition to the District's records.

The District maintains 39 automatic raingages, 20 of which are located in the mountains and the remaining 19 in the valley area. These gages afford the maximum information regarding rainfall as they furnish a continuous graphic record of rainfall occurrence.

The various District dams, debris basins and flood patrol stations are equipped with rainfall gages, which are read at frequent intervals during storms, thereby furnishing valuable intensity data.

Many services are rendered to outside agencies during the season, as shown under the following classifications:

1. Daily rainfall and snow records are furnished to the U. S. Weather Bureau at Los Angeles every month for 39 cooperative rainfall stations, for publication.
2. Daily rainfall and snow records are furnished the State Division of Water Resources at Sacramento, each month, during the winter and spring for the Snow Surveys Bulletin. This service involves records from 36 cooperative rainfall stations. Considerable data are also furnished the Los Angeles Branch of the Division as well.
3. Individuals and agencies are furnished data as requested.

The following table shows the number, types, and ownership of gages from which data are received:

Table I - Gage Ownership and Type

<u>Gage Ownership</u>	<u>Type</u>	Number of Gages			
		1934 <u>-35</u>	Totl. <u> </u>	1935 <u>-36</u>	Totl. <u> </u>
(a) Flood Control	Std. 8"	166		169	
	Can & Glass Grad.	12		15	
	Auto-Ferg. 9" cap.	31		31	
	Auto-Ferg. 12" cap.	7		7	
	Special Auto.	1	217	1	223
(b) Los Angeles Water Dept.	Std. 8"	17		17	
	Auto.	1	18	1	18
(c) U. S. Weather Bureau	Std. 8"	18		18	
	Auto.	1	19	1	19
(d) City of Long Beach	Std. 8"	5		5	
	Auto.	1	6	1	6
(e) City of Beverly Hills	Std. Type 5"	1		1	
	Auto-Ferg. 9" cap.	1	2	1	2
(f) Calif. Botanical Gardens	Std. 8"	1	1	1	1
(g) So. Pacific R. R.	Std. Type 3"	5	5	5	5
(h) So. Calif. Edison Co.	Std. 8"	2		2	
	Std. Type 3"	1	3	1	3
(i) L. A. County Rec. Dept.	Std. 8"	5	5	5	5
(j) L. A. Co. Survey Dept. Storm Drain Div.					
	Auto-Ferg. 9" cap.	3	3	3	3
(k) Pomona Valley Prot. Assn.	Std. 8"	2	2	2	2
(l) State of California	Std. 8"	4	4	3	3
(m) Miscellaneous-Individuals, Companies, Cities, Towns, etc.	Auto.			1	
	Std. 8"	42		45	
	Std. Type 5"	4		4	
	Std. Type 4"	2		1	
	Std. Type 3"	14		14	
	Dial Type	1	63	1	66
			<u>348</u>		<u>356</u>

PRECIPITATION RECORDS - General Statistics

During the Seasons 1934-35 and 1935-36, the District received records from 313 stations and 322 stations respectively. Of these, 308 stations were active in 1934-35 and 316 stations in 1935-36. These stations cover quite satisfactorily all parts of the County with the exception of certain parts of the San Gabriel mountain area, where observers are not available.

Thirteen stations were discontinued during 1934-35, and 7 stations discontinued in 1935-36, for the following reasons: (1) no observers available, (2) stolen gages; and (3) abandoned locations.

Nine stations were re-established in 1934-35, and fourteen stations re-established in 1935-36, as a result of personal visits.

The following statistics are self-explanatory:

Inactive stations	Season 1934-35	Season 1935-36
No observers	6	6
Broken gage	1	1
Observer refused	1	
	<hr/>	<hr/>
Total	8	7
New Rainfall Stations	16	6
Stations becoming cooperative	<hr/> 3	<hr/> 4
	19	10

Four private stations were found with records from 5 to 40 years in 1934-35, and 3 private stations with 17 to 24 years in 1935-36.

The following table shows the number of stations which furnished complete records, or, where records were lacking in only a few instances, were estimated from nearby stations to make them complete.

Table 2. Complete Seasonal Reports:

<u>Type</u>	<u>Season 1934-35</u>	<u>Season 1935-36</u>
F. C. Standard with F. C. Auto. gage	24	25
F. C. Standard Gage Stations	133	138
F. C. Automatic Station	2	2
F. C. Auto. with Private Standard	11	12
F. C. Can and Glass Graduate Stations	5	13
Private Cooperative Stations	103	105
Private Auto. Stations	6	8
Total	284	303

SUMMARY OF SEASONAL PRECIPITATION

PRECIPITATION IN GENERAL

The rainfall for the Season 1934-35 was above normal and for the Season 1935-36 below normal. The U. S. Weather Bureau Station at Los Angeles recorded 21.63 inches in 1934-35 and 12.02 inches in 1935-36, or 142% and 79% respectively, of the 60 year normal seasonal rainfall.

For a comparison with the record of the Los Angeles station, which reflects typically the valley type of rainfall, the records of the mountain stations at Colby's Ranch, Mt. Wilson and Mouth of San Antonio Canyon are as follows:

	<u>Yr. of Record</u>	<u>60 yr. Normal</u>	<u>1934 -35</u>	<u>% of 60 yr. Normal</u>	<u>1935 -36</u>	<u>% of 60 yr. Normal</u>
Colby's Ranch	35	32.42"	36.51"	113	18.46"	57%
Mt. Wilson	28	31.13"	45.73"	147	28.72"	92%
Mouth San Antonio Cn.	28	28.73"	32.62"	114	22.81"	79%

The distribution of rainfall for the Season 1934-35 was consistently uniform over the period from October to April, inclusive, averaging approximately 3 inches each month for Los Angeles with no excessive intensity at any time. In the mountain area, this condition also prevailed in general.

During the Season 1935-36, rainfall was very light with one exception. Rain fell on 13 days during February and the total for the month averaged approximately 1/3 of the entire seasonal total, throughout the District.

During the Season 1934-35, the storm of April 7th and 8th had the heaviest intensities. These are shown as follows:

Sta. 57 - Opid's Camp.

Apr. 8, 1935	4:59 a.m. to 5 a.m.	.52 inches in 1 minute
" " "	4:00 a.m. to 5 a.m.	1.04 " " 1 hr.
" " "		6.20 " " 24 hrs.

Sta. 60 - Hoegge's Camp.

Apr. 8, 1935	3:18 a.m. to 4:18 a.m.	1.26 inches in 1 hr.
" " "		5.62 " " 24 hrs.

During the Season 1935-36, the storms of Feb. 2nd and 12th had the heaviest intensities. These are shown as follows:

Sta. 57 - Opid's Camp

Feb. 2, 1936	5:37 a.m. to 6:37 a.m.	.80 inches in 1 hr.
Feb. 12, 1936	1:32 p.m. to 2:32 p.m.	.87 " " 1 hr.
Feb. 2, 1936		4.50 " " 24 hrs.
Feb. 12, 1936		4.09 " " 24 hrs.

Sta. 60B - Winter Creek (near Hoegge's Camp)

Feb. 2, 1936	4:20 a.m. to 5:20 a.m.	.97 inches in 1 hr.
Feb. 2, 1936		4.48 " " 24 hrs.
Feb. 12, 1936	2:17 p.m. to 2:27 p.m.	.34 " " 10 min.
Feb. 12, 1936	2:10 to 3:10 p.m.	.90 " " 1 hr.
Feb. 12, 1936		4.10 " " 24 hrs.

See Table VII for intensities at representative stations.

COMPARISON OF PRECIPITATION BY AREAS

Taking station averages for different areas, we find that rainfall conditions for the Seasons 1934-35 and 1935-36 are as follows:

Section	No. Stations	Av. 60 yr. Normal	Season 1934-35		Season 1935-36	
			Average Amt.	% 60 yr. Normal	Average Amt.	% 60 yr. Normal
San Gabriel Mts.	18	29.74"	38.06"	128%	24.66"	83 %
Valley (and Coastal Plain)	24	17.35"	22.14"	128%	13.89"	80 %
Santa Monica Mts.	14	19.64"	23.59"	120%	16.96"	86 %
Desert Side - Area No. of San Gabriel Mountains	8	15.33"	18.53"	121%	9.98"	65%

SNOWFALL

Snowfall at four high mountain points for Seasons 1934-35 and 1935-36 is shown as follows:

<u>Sta.</u> <u>No.</u>	<u>Location</u>	<u>Elev.</u>	<u>Season</u> <u>1934-35</u>	<u>Season</u> <u>1935-36</u>
80	Table Mountain	7500 ft.	117½ in.	69 in.
83	Big Pines Recreation Camp	6860 ft.	81 "	65½ "
283a	Crystal Lake County Park	5740 ft.	75 "	48-3/4"
308	Kelly's Kamp	8300 ft.	178 "	131½ in.

EVAPORATION

The District maintained 26 evaporation stations in 1934-35 and 23 stations in 1935-36, through the cooperation of raingage observers. The principal station is the Baldwin Park Experimental Station which is cooperatively maintained by several agencies. This station is fully equipped and includes four of the leading types of evaporation pans. The pan in use by the District is 24 inches in diameter and 36 inches in depth and is sunk in the ground 34 inches, with the water surface at ground level.

The maximum evaporation for the Seasons 1934-35 and 1935-36 occurred at Palmdale and amounted to 94.695 inches, and 101.285 inches respectively. The maximum monthly evaporation occurred in July at the same station, amounting to 16.365 inches in 1934-35 and 15.150 inches in 1935-36. The daily maximum also occurred in July amounting to 0.825 inches in 1934-35 and 0.750 inches in 1935-36.

During some winter months, a number of stations indicated water as frozen or partially frozen, thus giving an incomplete total evaporation as a result.

COOPERATION

We wish to express our appreciation to the many agencies and individuals who have so freely cooperated with us in the collection of these data and by so doing have made this report possible.

This report on rainfall and evaporation records has been compiled by Mr. C. George Carlson, under the direct supervision of Mr. W. J. Wood, Assistant Chief Hydraulic Engineer.

TABLE I
1934-35 MONTHLY RAINFALL SUMMARY

No.	Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
2	S	Escondido Patrol Sta.	1.25	3.89	6.01	3.84	1.27	2.09	4.24	.10	0	.34	0	0	23.03
3	S	Seminole Hot Springs	1.10	4.75	4.26	5.69	1.34	4.28	2.66	0	0	0	.14	.06	24.30
4	Sp	Grage Country Club	1.29	4.15	6.00	6.08	1.33	4.27	3.01	0	0	.02	.06	.09	26.30
5	Sp	Galabanas	1.75	2.45	4.23	4.01	1.56	3.63	1.76	.08	0	0	.17	.21	19.85
6	Sp	Topanga Canyon	1.04	2.25	5.05	5.16	1.68	3.57	4.25	0	0	0	.13	.10	25.21
7	E	Bel Air Bay Club	.97	2.60	2.94	2.41	1.16	3.09	3.30	†	0	0	0	0	16.47
8	Sp	Mandeville Canyon	.80	2.40	5.10	3.52	1.95	3.95	3.40	0	0	0	.25	.20	21.57
9	Sow	Sepulveda & Chace	.85	2.71	4.35	2.92	1.40	3.41	1.83	0	0	.04	.16	.01	17.68
10	SA	Bel Air	1.36	3.10	5.02	3.85	2.12	4.29	4.15	.02	0	0	.15	0	24.04
11	Sow	Upper Franklin Cn. Resv.	1.30	2.72	4.56	3.88	2.11	3.88	3.09	0	0	.10	0	0	21.64
12	S	Frank Mulholland Fire Sta.	1.45	2.88	5.53	4.20	2.02	4.11	3.29	†	0	.09	.18	0	23.75
13	S	No. Hollywood - Blix	2.99	2.23	4.64	3.41	1.97	4.08	2.49	.05	0	.01	.11	†	21.96
14	Sow	Roscoe-Merrill	2.41	1.53	4.55	2.97	1.69	3.28	1.86	.01	†	.09	.07	†	18.46
15	Sowa	Van Nuys City Whse	1.00	2.59	4.23	3.18	1.53	3.27	2.09	.03	0	.01	.17	.04	18.14
16	S	Cahuanga Park	1.14	3.67	4.94	3.61	2.04	4.07	NR	†	0	.06	.18	†	Ino.
17	S	Patrol #2 - Sepulveda Cn.	1.10	2.80	5.27	3.62	1.79	4.27	3.24	.01	†	.09	.23	†	23.53
18	S	Adohr Dairy	.94	2.40	3.99	3.64	1.49	3.26	1.81	0	0	0	.12	.11	17.76
19	S	Topanga Summit	1.26	2.23	3.94	4.44	1.78	3.04	2.48	.01	0	.05	.16	.01	19.42
20	S	Girard	1.34	2.34	3.69	3.77	1.74	2.91	1.76	0	0	0	.27	.02	17.84
21	SA	Brant Ranch	1.14	2.15	3.65	3.14	1.65	2.89	1.63	.05	0	†	.24	.01	16.55
22	S	Johnson-Woodruff Res. Bell Cn.	1.93	2.44	4.22	3.67	1.54	3.54	2.23	.08	0	†	.18	.16	19.99
23	Sow	Chatsworth Res.	1.71	2.55	3.75	3.71	1.56	3.39	2.01	.10	0	.02	.15	.06	19.01
24	S	Chatsworth	1.53	2.21	4.08	3.64	1.51	3.38	2.32	0	0	.04	.12	.09	18.97
25	Sp	W. L. A. - Andrews Zolzah	1.01	2.89	4.26	3.07	1.45	3.22	1.94	0	0	0	.14	.24	18.22
26	Sp	W. B. Miller Ranch	1.24	2.52	4.43	2.84	1.54	3.51	1.59	†	†	0	.04	0	17.71
27	S	San Fernando - Lemon Growers	1.06	2.94	5.12	3.29	1.66	3.52	2.22	0	0	.07	.10	.07	20.05
28	S	Ass'n.	1.27	2.75	5.46	3.11	1.42	3.33	2.74	0	0	.04	.04	.14	20.30
29	SA	Granada	1.12	2.64	5.76	3.39	1.84	3.65	2.36	0	0	.07	.07	0	20.90
30	Sow	Sylmar	1.12	2.64	5.76	3.39	1.84	3.65	2.36	0	0	.07	.07	0	20.90

* Est from nearby Stations
NR - No record

NOTE: Amounts shown are in inches depth of rainfall.

No.	Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	
76	S	San Gabriel Forks	5.80	2.37	6.85	5.80	3.00	3.63	5.25	0	0	0	.12	0	32.82	
78	CGG	Coldbrook Camp	NR	NR	NR	6.32	4.03	4.41	8.26	.05	0	.08	0	.01	Ino.	
80	S	Frairie Forks	Discontinued for Winter	0	0	.29	1.59	NR	Ino.	0	0	0	0	0	1.59	
82	S	Table Mountain	3.97	1.00	4.15	2.99	2.32	1.56	3.14	.16	†	†	2.76	.17	22.22	
83E	SA	Big Pines Camp	6.15	1.83	6.30	6.96	2.99	3.43	5.03	.17	0	0	2.72	.13	35.73	
85B-E	Swba	Camp Baldy	7.92	2.58	9.40	8.40	5.10	2.52	5.60	1.40	0	0	4.45	.30	44.67	
87	S	San Dimas Rgr. Sta.	5.26	3.19	5.45	4.90	3.55	3.70	4.07	.13	0	.19	.18	0	30.62	
88	S	Wolfskill Falls	5.74	2.87	6.00	5.04	3.30	4.04	4.24	.16	0	.16	.14	0	31.69	
89E	S	San Dimas Dam	4.94	2.58	5.55	4.74	3.01	2.79	3.56	.10	0	.10	.13	†	27.50	
90	S	Brydons Ranch	4.85	2.64	4.97	4.20	3.01	2.87	3.24	.04	0	.13	.13	0	26.08	
91	S	Claremont-Indian Hill	5.07	2.14	4.08	2.76	2.65	2.91	3.05	.21	0	0	.27	†	23.14	
92	SA	Pomona College	5.05	2.50	4.02	2.93	2.47	2.82	2.56	.05	†	.08	.35	.02	22.85	
93	S	Claremont Fire Sta.	4.97	2.61	4.10	2.95	2.45	2.86	2.59	.02	0	.07	.28	.01	22.91	
94	S	Charters Oak-Fields	6.03	3.08	6.41	3.21	2.76	2.91	2.70	.07	0	.03	†	†	27.30	
95	S	San Dimas - Fire Warden	4.66	2.42	4.83	3.40	2.88	3.68	2.87	.06	0	.06	.30	0	25.16	
96	S	Puddingstone Dam	4.52	2.35	4.36	2.72	2.39	3.11	2.89	.09	0	.04	.23	†	22.68	
97	S	San Dimas - Ferguson	4.44	2.34	4.79	3.24	3.82	3.23	3.04	.14	0	0	.27	†	25.31	
98	Swb	Azusa - Hibsch	5.12	2.25	5.42	3.48	3.07	3.27	2.94	0	0	.18	.08	.01	26.82	
99	S	Azusa - Foothill Rch.	5.53	2.32	5.47	3.85	3.07	3.40	3.05	0	0	.15	.18	.25	27.27	
100	Swb	Fish Canyon	4.95	2.22	6.84	4.88	4.11	3.28	4.48	.46	0	.20	.30	.15	31.85	
101	S	Hurst Ranch - Covina	4.09	2.73	5.08	3.21	3.05	2.93	1.86	.11	0	.02	.06	0	23.14	
102	S	Howell Rch. - Walnut	5.17	NR	5.39	2.63	1.85	2.45	2.54	.01	0	.02	.48	0	20.54	
104	CGG	No. Whittier-Cole Ranch	NR	NR	5.19	2.93	2.84	3.08	2.67	0	0	.06	.43	0	Ino.	
105	S	E. Whittier - Sharples	3.32	3.04	3.83	2.22	2.39	3.05	2.06	0	0	0	.21	0	20.12	
106	S	Whittier City Hall	3.27	2.85	3.83	2.31	2.00	2.85	1.86	0	0	.02	.24	†	19.23	
107	S	Dorney	3.32	3.21	3.49	3.04	2.58	4.23	1.95	†	0	†	.12	†	21.94	
108	S	El Monte - C. of C.	3.10	2.72	4.32	3.45	2.59	3.32	2.80	.02	0	0	.14	0	22.52	
109	S	West Arcadia	3.40	2.94	5.48	4.18	2.97	3.09	4.31	.15	0	.05	.10	0	26.67	
110	S	Alhambra	4.07	2.42	5.18	4.10	2.91	3.59	3.10	0	0	.06	.20	†	26.33	
111	Sp	So. Pasadena	3.98	1.72	4.75	3.68	2.69	3.17	3.61	.03	.08	.06	.21	0	23.98	
114	S	Gardena - Roseorans	1.61	3.43	2.43	3.03	1.93	3.63	2.56	0	0	0	.30	0	18.92	
116	Sp	Inglewood High School	1.29	3.57	2.69	2.25	1.95	4.55	2.18	.01	0	.00	.04	.36	.01	18.90
117	S	Compton	1.54	3.31	2.80	3.00	2.24	3.86	2.03	0	.02	.02	.42	†	19.24	
118B	S	Willington	1.49	3.32	2.55	4.81	1.40	3.64	2.01	0	0	0	.08	†	19.30	

* Est. from nearby stations
NR - No record

No.	Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
32E	S	Newhall	1.85	1.92	5.59	3.79	2.13	2.91	1.66	0	0	†	.05	.07	19.97
34A-E	SA	Pacoima Dam	3.74	2.51	6.50	3.57	2.12	3.84	2.50	.07	0	.18	.14	†	25.17
34	Swb	Dillons Ranch	3.35	2.85	7.11	4.48	2.31	3.89	3.35	.02	0	.10	.02	†	27.48
38	S	Chappell's Ranch	2.57	2.00	5.93	2.94	1.77	3.11	1.73	†	0	.05	0	0	20.10
39	S	Sunset Cn. G. Club	2.46	2.65	7.45	3.91	2.80	3.94	3.36	.22	.05	.34	.23	†	27.41
42	S	Redondo City Hall	1.07	1.52	2.57	2.97	1.04	4.22	2.05	0	0	0	.28	0	15.69
43A	Sp	A. Palms Verdes (Admin. Bldg.)	1.29	2.44	2.51	3.48	.98	3.29	2.29	.03	0	.01	.23	.04	16.59
44	Sp3	Pt. Vincente Light Hse.	1.39	2.65	2.38	2.59	1.21	2.85	1.94	0	0	0	.16	0	15.17
45	S	Wildwood Lodge	Discontinued	0	0	0	0	0	0	0	0	0	0	0	0
46B-E	S	Big Tujunga Dam	6.07	2.10	8.29	6.27	2.84	4.48	5.04	0	0	†	.59	0	35.68
47A	SA	Clear Creek	4.62	2.57	9.50	6.49	3.14	4.85	6.44	.04	0	†	.91	.00	38.95
48	S	Oak Wild	5.37	3.37	7.86	5.61	3.47	4.23	5.29	0	0	0	2.15	0	37.35
49	Sp	Altadena-Chiesa	4.67	2.36	6.38	4.41	2.35	3.13	4.53	.07	0	.31	.03	†	28.24
50B	S	Arroyo Seco Patrol	4.72	2.47	6.29	4.22	2.69	3.19	4.02	.06	0	.24	.11	†	27.98
51K	SA	Little Chisoga	6.84	2.84	8.56	7.20	5.20	4.03	6.83	.23	0	.12	.18	†	4

No.	Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total		
166B	Sp3*	Monrovia #4	3.40	2.10	2.85	See 67B for continued	nearby station										
167	Sp	Arcadia Pump. Plt.	3.20	2.33	6.00	4.36	3.09	2.78	4.55	.08	0	.27	.07	T	26.73		
168	S	Sierra Madre - Watts	2.96	2.48	5.04	4.09	2.78	2.98	3.56	.04	0	.04	.15	T	24.12		
169	Sp	Sierra Madre - Hogan	3.69	2.35	6.12	4.25	3.15	2.73	4.17	.37	0	.31	.09	0	27.25		
170	S	Potrero Heights	3.49	2.93	4.93	3.26	2.86	3.55	3.14	0	0	0	.24	.04	24.44		
171	S	Chapman Wells	3.60	2.52	5.89	4.24	3.27	2.41	4.39	0	0	.09	0	0	26.41		
173	Sp	San Vicente Point	No Observers														
174	Sp	Glendora - Warren	5.96	2.59	5.72	3.83	2.87	3.20	3.09	.08	T	.17	.17	T	27.68		
175	GGG	Alta Canyada - Clang	NR	NR	5.87	5.09	3.16	4.90	4.39	.07	0	.12	.72	0	Ino.		
176	Sp	Altadena Rubio Cn. Land & Water Ass'n.	4.55	2.36	5.73	4.22	2.43	2.96	4.56	.06	0	.27	.05	.04	27.23		
177	GGG	La Canada	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	Ino.		
178	A	Azusa - Griffith	5.60	2.38	4.83	2.88	2.80	2.43	3.26	0	0	0	0	0	Ino.		
179	Swb	Sierra Madre - Carter	4.22	2.60	5.80	4.60	3.77	3.02	4.27	.45	0	.57	.06	.01	23.28		
181	Sp3*	Bassett - S.P.R.R.	3.18	2.50	4.68	2.72	2.58	3.13	2.09	0	0	.12	T	0	21.00		
182	Sp	Baldwin Park - Leach	4.08	2.32	4.48	3.40	2.75	2.68	3.31	.08	0	.02	.04	0	22.16		
185	Sp	Glendora - West	5.55	2.68	6.27	3.83	2.96	2.95	3.08	0°	0°	.19	.17	.29	27.97		
187	S	San Dimas - Mount	4.84	2.38	4.65	3.20	2.73	3.17	2.88	.16	0	.08	.27	0	24.36		
188	Sp5*	San Dimas - Howard	4.91	1.99	4.50	3.27	2.53	2.64	2.73	.17	0	.09	.17	0	23.00		
189	Sp	San Dimas - Harris	5.21	2.51	4.94	3.14	2.77	3.10	2.93	.08	0	.22	.27	0	25.17		
192B	S	Bell Fire Department	2.46	3.06	3.21	3.04	2.15	4.13	2.95	.04	0	.10	.01	.21	21.15		
193	S	Covina - Temple	5.38	2.69	4.87	2.95	2.15	2.66	2.13	.06	0	.01	T	0	22.67		
194	Sp3*	Covina - Evans	5.19	2.67	4.47	2.93	2.31	2.75	2.26	0	0	.01	.01	0	22.67		
196	Sp5*	La Verne Leader	4.47	1.90	3.93	2.66	2.34	2.96	2.83	.05	0	.02	.20	T	21.25		
198	Sp	Dial Brand Estate	1.68	2.17	4.61	3.15	2.76	3.45	3.42	.13	0	.08	.07	T	21.52		
199B	S	Huntington Park	1.87	3.14	3.26	3.16	2.28	4.37	3.31	.02	T	.12	T	0	21.53		
200	Sp3*	Saugus - S.C.E. Co.	1.83	1.53	4.19	2.74	1.57	2.03	1.13	0	0	.24	.05	0	15.11		
201	Sp	Puentes Hills	4.10	3.21	5.09	2.20	2.36	2.91	2.59	0	0	T	.04	T	22.72		
203	Sp3*	Whittier - S.P.Ry. Co.	3.28	2.92	3.96	2.49	2.12	2.89	2.15	0	0	0	.50	0	20.31		
205	Sp	Puentes - S.C.E. Co.	5.25	2.73	5.61	2.80	2.55	3.27	2.22	.10	0	0	.54	0	25.07		
206	S	Valencia Heights	5.20	2.67	5.19	2.78	2.29	2.96	2.14	.08	0	T	.04*	0	23.35		
208	Sp5*	Artesia - Barr Lumber Co.	3.93	2.83	3.18	2.21	2.08	2.87	1.40	0	0	0	.73	0	19.63		
209	S	Big Raj, Edison Patrol Sta.	5.17	2.24	7.60	5.46	2.42	3.90	4.53	0	0	.06	.02	0	32.10		
210B	SA	Brand Park	1.98	2.63	5.35	3.47	1.86	3.93	3.49	.21	0	.25	.15	T	24.42		
210A	SA	Hancock Park	2.31	3.27	3.52	2.69	1.89	4.66	3.21	.02	0	0	.18	T	21.75		
214B	Sp	Montebello	Discontinued See #391														

NR No record
* Est. from nearby stations

No.	Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total		
254	S	Rowlands Ranch	5.25	3.00	5.22	2.71	2.57	3.46	2.18	0	0	0	0	0	24.39		
255	S	State Narcotic Hosp.	4.51	1.89	4.09	2.80	2.52	2.74	2.40	0	0	0	0	0	Ino.		
256	Sp3*	Pomona - S.P.R.R.	1.58	2.33	4.12	3.19	3.17	3.42	3.17	T	0	.04	.05	0	21.07		
257	SA	Griffith Park Nursery	1.90	2.46	4.42	3.09	2.79	3.99	1.86	.08	0	.01	.40	0	21.00		
258a	GGG	A. Griffith Park Tunnel	1.70	2.46	4.19	3.18	2.81	3.48	2.84	.10	0	.01	.50	0	21.27		
258b	GGG	B. Griffith Park - So.Slope	2.20	2.83	5.05	3.37	3.28	3.98	3.39	.14	0	.02	.40	0	24.66		
258c	GGG	C. Griffith Park - No.Slope	1.68	2.68	5.26	4.43	1.94	3.35	3.80	0°	0°	.04°	.09°	.13°	23.50		
259	S	Twin Lake Park	5.08	1.93	6.15	4.82	2.41	5.22	3.44	T	0	T	0	NR	25*		
260	S	Monte Cristo Mines	1.48	1.19	3.53	2.11	.81	2.45	.86	.19	0	0	0	2.06	.02		
261E	SA	Acton Mellens	4.40	2.05	3.44	2.63	2.41	3.27	2.56	.15	0	0	.31	T	21.19		
263	S	Pomona Frater	4.05	1.71	7.60	5.76	2.20	3.37	2.28	0	0	0	0	0	26.97		
264	S	Sand Canyon	5.49	2.83	4.71	2.81	2.94	3.18	2.28	T	T	T	.33	T	24.67		
265B-E	Sp	Puentes Hills (La Habra Hgts)	4.50	2.35	4.24	2.85	2.66	3.02	1.80	.05	0	0	.48	0	21.95		
266	Sp	E. Whittier-Leffingwell Roh.	1.38	2.98	2.52	2.97	1.30	3.22	2.14	0	0	.02	.39	0	16.92		
268E	Sp	Torrance - S.C.E.Co.	4.80	2.71	4.39	2.32	2.41	3.72	2.29	.06	0	T	.12	0	22.82		
269	S	Diamond Bar Roh. #1	2.89	3.07	3.45	2.64	2.62	4.10	1.82	.01	0	0	.35	T	20.95		
270	S	County Park	1.29	3.44	2.93	3.03	1.87	3.60	1.84	0	0	0	.51	0	18.51		
271	S	Domiguez Hill	2.22	2.68	4.98	3.55	2.95	3.75	2.99	.14	0	.02	.19	0	23.47		
272	S	Headworks Plt.	1.60	3.03	2.44	3.28	1.04	3.40	2.65	0	0	0	.12	T	17.56		
273	Sp5*	San Pedro Hills	1.41	1.28	3.29	2.08	.86	2.42	.94	.10	0	0	0	1.59	0		
274	Sp	Acton-Hubbard	3.73	2.37	5.86	4.00	3.24	2.48	2.23	0	0	.17	0	0	26.08		
275	Sp3*	San Marino	4.05	1.84	6.47	7.24	2.03	3.87	2.45	0	0	0	.66	.07	28.68		
277	S	Sawmill Mt. Roh.	1.72	2.78	3.78	2.56	1.77	4.86	2.59	T	0	T	T	0	20.06		
278	S	Clark Estate	3.92	2.53	7.56	4.43	3.94	3.99	5.16	.05	0	.65	.15	T	32.38		
279	Sp	Kinnetola Ranch	4.30	2.39	6.36	4.37	3.38	3.34	3.96	.07	0	.20	.12	T	28.49		
280	SA	Flintbridge Fire Sta.	7.66	3.09	4.47	9.10	7.84	4.70	5.78	.27	0	0	.32	.33	50.56		
283a	SoC	Crystal Lake - East	7.62	3.00	4.76	8.34	8.27	4.82	6.16	.22	0	0	.01	.30	50.50		
283b	SoC	Crystal Lake - West	1.80	2.10	6.55	5.34	3.90	3.70	1.80	0	0	.17	0	0	25.36		
284	Sp	Flacerrita Canyon	1.48	2.01	4.36	3.40	2.15	4.95	3.70	0	0	.02	.26	.05	21.39		
285B	Sp	Mt. St. Marys College	2.55	2.52	5.94	2.94	1.68	3.39	1.92	.02	0	.04	.09	.01	21.10		
286	Sp4*	Covane Ranch	4.85	2.11	5.33	3.50	2.18	2.83	3.58	0	0	.08	.17	0	23.63		
287	Sp	Glendora-C.M.I.Co.Office	1.48	5.20	6.78	5.87	1.52	4.71	3.89	0	0	.19	.28	0	29.92		
288	S	Newton Canyon	2.67	3.07	3.45	2.72	2.58	3.77	2.59	T	0	T	.11	0	20.96		
289	Aco	Laguna - Bell	* Est. from nearby stations														

* Est. from nearby stations

No.	Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total			
215	Sp	Bellflower	4.47	3.31	3.31	2.56	2.10	3.96	1.57	0	0	.27	.01	.21	21.56			
216	Swb	Glendale - Jones	1.91	3.24	4.52	3.54	2.93	3.31	3.49	0	.02	.02	.14	.02	23.19			
217	Sp3*	Watts	1.45	3.50	3.09	2.90	2.53	5.66	2.65	0	0	.01*	.29*	0	22.08			
218	S	Torrance - Gen. Pet.	2.30	3.55	2.78	3.44	1.28	3.65	2.15	0	0	T	.13	0	19.28			
219	S	San Fernando Rgr. Sta.	2.07	2.39	5.15	2.94	1.56	3.14	2.02	0	0	0	.07	0	19.34			
220	S	Whittier Narrows	3.12	2.92	3.72	2.75	2.31	2.99	2.46	0	0	.02	.73	T	21.02			
221	Sp	Davis Ranch	3.55	Records lost when new owner took over ranch														
222	Spw	Lankershim Power Plt.	1.66	1.75	4.01	2.96	1.74	3.34	1.63	0	0	0	.07	0	17.16			
223E	Sp	Big Dalton Dam	6.94	2.31	6.29	4.44	2.96	3.24	4.28	.21	0	.17	.07	T	30.91			
224	S	L.B. Los Alamitos Land	2.50	3.28	1.91	3.02	2.69	2.77	1.55	.01	0	T	.06	0	17.79			
225	Sp3*	Montana Ranch	4.06	3.37	2.83	2.72	2.18	3.05	1.66	0	0	T	.32	0	20.24			
226	S	Burbank	1.69	2.55	4.60	3.63	2.72	3.58	3.22	.13	0	.02	.11	0	22.25			
227	S	San Gabriel	3.24	2.														

TABLE II

1935-36 MONTHLY RAINFALL SUMMARY

No.	Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
338	Swb	Mt. Wilson - Standard	6.97	3.24	1.64	6.67	6.21	4.17	6.50	.16	0	T	.15	.02	45.73
338	Ap	Mt. Wilson - Merwin	6.20	3.17	1.09	5.45	5.94	3.64	5.36	.04	0	T	.11	T	41.00
338	A	Mt. Wilson - Auto	6.97	3.34	1.68	6.65	6.19	4.24	6.58	.18	0	T	.15	T	45.98
339	Sp	Walnut - F. G. Assn.	5.31	2.93	4.71	3.01	2.06	3.74	2.95	T	0	.02	.47	0	25.20
340	GGG	Leimert	Discontinued												
341	S	Blum Ranch	1.82	1.02	2.61	2.14	1.08	1.96	.91	.04	0	0	1.38	T	12.96
342	S	Upland	6.10	1.96	3.19	2.77	2.66	2.97	2.84	.06	0	.01	.20	.04	22.80
343	Sp	Telegraph Rd.	3.90	2.99	3.59	3.04	2.47	3.99	1.99	T	0	0	.09	T	21.96
344	GGG	Los Angeles - Morrill	Gage Removed												
345	Sp	Palms	1.45	2.73	3.41	2.28	1.83	4.57	2.70	0	0	.01	.18	0	19.16
346	Sp	GGG Downey C. of C.	Gage Broken												
347E	S	Baldwin Park - Exp. Sta.	4.20	2.82	5.81	3.40	2.82	2.72	2.39	.09	0	.02	.02	T	24.29
348B	S	Honor Camp #4	6.37	1.55	5.94	7.57	3.15	3.64	6.12	0	0	0	.16	.93	35.43
349	S	Camp Rincon	5.70	2.46	7.50	6.95	3.25	3.83	7.28	0	0	.11	0	T	37.08
350B	S	Detention Camp #5	Inc.												
351D-E	Swb	Palmdale Elizabeth Lake	3.11	2.09	4.97	5.71	1.17	3.68	3.99	0	0	0	.62	T	24.94
352	SA	Lechuza Pat. Sta.	1.63	.92	2.51	2.32	1.86	1.76	.56	0	0	0	1.38	.07	12.01
353	Sp	Duarte-Monrovia Citrus Assn	3.19	2.63	5.58	4.17	2.83	2.83	3.60	.09	0	T	T	0	24.92
354AB	Sp	Honor Camp #6	6.03	2.52	6.07	4.67	3.08	3.36	3.61	.16	0	.02	.31	.02	29.85
355	GGG	L. A. Junior College	1.22	2.27	5.40	1.19	2.03	3.69	2.79	0	0	T	.05	T	18.64
356	Sp	Diamond Bar Reh.#2 Spadra	5.19	2.20	3.77	2.74	1.85	3.02	2.19	0	0	0	.20	0	21.16
357	Sp	Power Hse. #3 L.A.W.D.	1.25	2.97	5.74	3.87	1.95	3.02	3.11	.01	0	.02	.03	T	22.75
358B	S	Aldrich Ranch	4.10	.71	2.32	2.72	1.41	1.82	1.41	.18	0	0	2.56	.13	17.36
359	A	Poly Hl School	Inc.												
360	S	Haines - Gravel Pit	2.20	2.22	7.24	4.88	3.06	4.42	3.59	.07	0	.52	.02	T	28.22
361AB	S	CCC Camp Angeles Crest Hwy	4.03	3.20	6.72	4.88	3.13	4.01	5.37	.14	0	.19	.79	0	32.46
362	Sp	El Miredor Reh.	4.11	2.39	6.29	4.13	3.11	3.37	4.46	.06	0	.10	.09	0	28.11
363	A	Wilson Cn. Auto	Discontinued												
364	Swb	Lower Haines U.S.G.S.	1.82	2.47	7.74	4.92	3.40	4.41	3.75	.06	0	.54	.04	T	29.15
365	SA	Sister Elsie Peak	3.32	2.55	8.57	4.74	4.22	3.55	4.72	.23	0	.14	.09	.01	32.14
366	S	Valerymo	3.09	.74	2.69	1.93	1.46	1.84	.87	.08	0	0	2.07	.13	14.90
367	ASwb	Haines Cn. Upper	3.96	2.84	9.03	5.68	3.74	4.99	4.80	.08	0	.25	.12	T	35.49
371	S	S.G.No.Pk. Gaging Sta.	5.69	2.31	6.73	6.48	3.34	3.81	6.15	.03	0	0	.03	.04	34.61

#354A* Gage moved to B location 7-3-35
Est. from nearby station

No.	Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
2	S	Esocondido Patrol	.34	1.36	1.34	.41	12.37	11.80	9.90	0	.01	T	T	0	18.53
3	S	Seminole Hot Springs	.27	1.22	.64	.22	11.63	2.51	1.06	0	.03	0	0	0	17.58
4	Sp	Craga Country Club	.21	1.51	1.57	.13	11.64	NR	0	0	.05	0	0	0	15.11+
5	Sp	Calabasas	.14	1.13	.70	.22	6.75	1.35	.61	0	.06	0	0	0	10.96
6	SA	Topanga Canyon	.31	1.79	1.62	.31	13.32	3.35	1.44	.03	.18	.06	.11	0	22.52
7	S	Bel Air Bay Club	.06	1.03	.75	.12	7.23	1.54	.82	0	0	T	T	0	11.65
8	Sp	Wandeville Canyon	.15	2.08	.75	.39	9.26	5.05	1.15	0	0	T	T	0	16.52
9	Sp	Sepulveda & Chase	.11	.63	.63	.12	7.36	1.29	.47	0	.02	T	0	0	10.63
10	SA	Bel Air	.24	1.90	.96	.48	9.63	2.08	1.03	0	0	T	T	0	16.32
11	Sp	Upper Franklin Canyon	.22	1.71	.79	.42	8.30	2.06	1.07	0	0	0	.07	T	14.64
12	S	Franklyn-Mulholland Fire Sta.	.12	1.56	1.02	.48	8.94	NR	NR	0	0	0	0	0	12.12+
13	S	North Hollywood Blix	.16	1.62	.61	.34	6.83	1.80	.71	0	.05	.02	0	0	12.14
14	Sow	Roscoe-Merrill	.28	.94	.65	.10	6.42	1.20	.52	0	.02	.05	0	0	10.18
15	Sow	Van Nuys City Whse.	.11	1.06	.49	.22	6.31	1.22	.43	0	0	.02	0	0	9.86
16B	S	Gahmanga Park	.14	1.54	.91	.37	10.25	1.62	.67	0	0	0	0	0	15.50
17	S	Patrol #2 Sepulveda Canyon	.14	1.21	1.17	.35	10.42	1.87	.80	0	0	0	0	0	16.47
18	S	Ador Dairy	.06	1.00	.67	.13	6.84	1.42	.50	0	0	.06	0	0	10.68
19	S	Topanga Summit	.17	.98	.86	.23	8.50	1.59	.61	0	.20	T	.03	0	13.17
20	S	Girard	.12	1.27	.57	.20	7.03	1.22	.59	0	0	T	.01	0	11.01
21	SA	Brant Ranch	.08	1.17	.53	.22	7.61	1.14	.52	0	0	0	.01	0	11.28
22	S	Johnson-Woodruff Reh.Bell Cn	.15	1.35	.61	.23	8.63	1.17	.67	0	0	0	0	0	12.71
23E	Sow	Chatsworth Res.	.19	1.63	.61	.15	7.76	1.21	.63	0	.04	.03	.02	.01	12.27
24B	S	Chatsworth	.19	1.50	.71	.41	7.76	1.36	.43	0	0	0	0	0	12.35
25	Sp	No. L. A. - Andrews	.31	1.33	.66	.20	7.71	1.22	.56	0	.02	.08	.04	0	12.13
27	S	W. D. Miller Ranch	.27	.82	.58	.19	7.63	1.39	.69	0	.03	0	0	0	11.60
28	S	San Fernando-Leson Growers Ass'n.	.21	1.04	.81	.35	9.45	1.69	.86	.02	.07	.10	0	.04	14.64
29	SA	Granada	.26	1.34	.90	.31	9.47	1.69	.82	0	0	0	0	0	14.79
30	Sow	Sylmar	.42	1.03	.79	.37	10.09	1.99	.51	.03	0	0	0	0	15.29
32E	S	Newhall	.10	.81	.69	.07	7.16	1.57	.31	0	0	.05	T	.01	10.75
33AE	SA	Pacoima Dam	.57	1.38	.68	.40	11.28	2.48	.65	.03	.04	.05	.02	.21	17.79

* Partly Est.
x Est. nearby station + Incomplete

No.	Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	
372	SA	San Franciscoquito P.Hse #2	1.87	1.97	4.61	3.00	.99	2.52	1.59	.75	0	T	.80	.12	16.22	
373	S	Bridge Terrace (Pickens Cn.)	3.80	2.53	7.34	5.10	3.52	4.54	5.12	.05	0	.60	.82	0	33.42	
374	S	L. A. Examiner	NR	NR	3.15	2.96	2.23	4.31	3.16	.03	T	T	.11	T	Inc.	
375	S	Griffith Park Zoo	1.08	2.23	5.70	2.16	3.48	3.83	4.01	.02	0	.02	.09	.02	22.64	
376	SA	Little Rock (Stevens Auto)	2.26	4.05	5.84	2.60	2.02	1.07	1.24	.69	0	0	0	2.05	12.65	
377	Sp	Lake Sherwood Est. - Potrero Rc.	1.45	3.31	4.75	5.95	.55	2.49	2.42	0	0	0	.15	0	21.07	
378	Sp3	Le Canada - Hall	4.70	2.49	6.80	4.31	3.39	3.48	4.13	.30	0	.31	.33	0	30.24	
379	S	E. Fork S.G. at F.G.Sta.	6.64	2.09	6.29	5.85	2.94	3.44	4.00	.02	0	T	.02	.06	32.16	
380A	SA	El Sereno - Morgan	NI	2.18	5.69	3.08	2.73	4.37	3.16	0	0	.03	.14	.02	Inc.	
381AB	GGG	Santa Monica - Gutlook 4th & Broadway	NI	NI	3.60	2.23	1.70	3.40	3.94	0	0	.03	.22	.10	Inc.	
382	Sp	Marques Pastures	NI	NI	4.37	3.05	2.66	3.21	2.45	0	0	0	.36	.01	Inc.	
383E	GGG	Tuesdale Gravel Pit	NI	NI	4.69	2.90	1.83	3.03	3.14	0	No	Observer	-	Inc.		
384	S	Highland Park - Leverty	2.76	2.14	5.24	2.24	2.58	3.56	3.00	0	0	.03	.15	T	21.72	
385	Sp3	W.Littler Bgts. - Smith	3.90	3.40	5.35	2.82	2.82	3.39	2.47	.06	0	0	.38	T	24.59	
386	Sp3	Vera Canyon - Robles	1.26	5.93	6.79	5.90	1.56	4.69	4.35	.10	0	.34	.82	.05	30.92	
387	Sp	Covina - City Water Dept.	NI	NI	4.67	2.67	2.09	2.62	2.15	0	0	.3	.02	.01	Inc.	
388	GGG	Hynes - Haydon	NI	NI	NI	NI	2.05	4.25	1.69	0	0	.34	.12	.40	Inc.	
389	Sp	Glendale - Brown	NI	NI	NI	NI	3.94	2.79	2.71	3.59	.07	T	.23	.16	T	13.51+
390B	Sp	Morris Dam	5.17	2.18	7.15	4.99	3.36	3.23	5.04	.23	0	.07	.17	.05	31.64	
391	Sp	Montebello - Cotton	3.20	3.37	4.06	3.48	2.43	3.32	2.76	0	0	0	.25	T	22.57	
392	Sp	Altadena - Barton	NI	NI	NI	NI	NI	1.03	4.49	.06	0	.44	.			

No.	Gage Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
76	CG	San Gabriel Forks	.58	.52	1.36	.08	16.82	2.93	2.23	0	0	0	.09		24.61
78	CGG	Goldbrook Camp	.45	.42	1.29	T	14.78	2.94	1.41	0	T	.04	.06	.12	21.51
80	S	Frairie Forks	No	Observer	During	Winter	1.01	0	.12	.11	.28	0			1.60
82	S	Table Mountain	.08	.75	.76	.24	5.38	.31	1.59	0	.02	.54	.18	.02	8.87
83-E	SA	Big Pines Camp	.15	.72	1.08	.12	12.87	1.55	1.17	0	.05	.38	.28	T	18.17
85B-O	Swba	Camp Baldy	.37	.30	.87	.10	20.87	2.71	2.33	0	.03	.03	.20	.13	27.99
87	S	San Dimas Rgr. Sta.	.48	.48	1.18	.14	14.27	2.38	1.80	0	0	.06	.04	.04	21.42
88	S	Wolfkill Falls	.44	.43	1.21	.14	16.18	2.50	1.86	0	0	.02	T	.03	22.81
89-E	S	San Dimas Dam	.52	.50	1.23	.16	14.27	2.66	1.63	0	0	.05	0	.03	21.05
90	S	Brydons Ranch	.50	.45	1.14	.06	12.85	2.42	1.55	0	0	0	0	.05x	20.02
91	S	Claremont - Indian Hill	.33	.36	.70	.21	10.38	1.82	.92	0	0	.08	.02	T	14.82
92	SA	Pomona College	.33	.50	.81	.22	9.47	1.53	1.18	.01	0	.16	.06	T	14.27
93	S	Claremont Fire Sta.	.38	.48	.86	.23	9.41	1.66	1.26	0	T	.12	.04	.01	14.45
94	S	Charter Oak - Fields	.73	.53	1.04	0	9.62	2.01	2.02	0	T	T	0	.03	15.96
95	S	San Dimas - Fire Warden	.54	.42	1.21x	.23	10.02	2.17	.91	0	.03	T	.01	.08	15.69
96-E	S	Fuddingstone Dam	.56	.44	1.11	.28	8.93	1.81	1.37	0	0	.05	0	0	18.55
97	S	San Dimas - Ferguson	.83	.44	1.24	.86	10.00	1.71	1.04	0	0	0	0	.06	16.18
96	Swb	Azusa - Hibeoh	.47	.49	1.01	.35	11.36	2.25	1.24	0	0	0	0	0	17.17
99	S	Azusa Foothill Reh.	.32	.46	1.07	.34	11.65	2.31	1.16	0	0	0	.02	.0x	17.33
100	Swb	Fish Canyon	.28	.65	1.26	.50	15.94	5.05	2.45	0	.08	.19	.28	.09	24.57
101	S	Burnt Hill-Covina	.08	.78	.72	.19	9.15	1.51	1.63	0	0	0	0	0	16.92
102	S	Howell Roh. Walnut	.07	.76	.94	.12	9.03	1.55	.67	0	.04	T	0	0	13.18
104	GGG	No. Whittier - Cole Roh.	.10	1.04	1.00	.27	10.09	1.58	.29	0	.22	0	0	0	14.59
105	S	H. K. Whittier - Sharples	.12	.77	1.13	.18	7.27	1.12	.35	.03	T	T	.01	.03	11.01
106	S	Whittier City Hall	.14	.70	.92	.08	7.19	1.20	.26	T	T	T	T	T	10.49
107	S	Downey	.07	.90	.66	.08	7.08	.66	.19	0	T	T	.01	0	9.65
108	S	El Monte - C. of C.	.11	.67	.88	.10	8.79	1.41	1.20	0	0	0	0	0	13.16
109	S	West Arcadia	.29	.64	.89	.36	11.21	2.31	1.47	0	0	0	.03	0	17.20
110	S	Alhambra	.15	.99	1.01	.34	10.80	2.06	1.46	0	.11	T	0	0	16.92
111	Sp	So. Pasadena	.28	1.06	.70	.28	9.94	1.71	1.17	0	.20	T	T	.08	15.42
114	Sp	Gardena - Rosecrans	.08	1.27	.50	.66	6.19	.35	.19	.03	T	T	0	0	9.27
116	Sp	Inglewood High School	.14	1.75	.40	.55	7.07	1.16	.22	0	.06	.02	T	T	11.39
117C	S	Compton	.13	1.78	.47	.18	5.94	.88	.23	.11	.07	T	0	0	9.79
118B	S	Wilmington	.07	1.12	.42	.31	6.47	.79	.15	.12	.35	0	0	.25	9.75
119	S	Soldiers Home	.09	1.89	.74	.33	9.01	1.90	1.16	0	.01	.01	.10	0	15.24

x Est. from nearby stations
 x Partly Estimated
 NOTE: #85B moved to C 2-28-36

No.	Gage Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
176	Sp	Altadena Rubio Cn. Land and Water Assn.	.48	1.24	.83	.32	10.60	3.38	1.06	0	.11	T	T	T	18.12
177	CGG	La Canyada	.53	1.31	.85	.22	11.20	2.64	.76	T	0	T	0	0	17.51
178	A	Azusa - Griffith	.32	.49	.89	.20	9.99	1.86	.92	0	.02	0	0	0	14.69
179	Swb	Sierra Madre - Garter	.59	1.08	1.02	.55	13.13	2.81	1.64	.07	.11	.13	.05	.02	21.20
181	Sp3	Bassett - S.P.R.R.	.05	.66	.85	.46	8.01	1.48	1.06	0	0	0	0	0	12.55
182	Sp	Baldwin Park - Leach	.15	.66	.78	.18	9.22	1.60	1.15	0	.03	.02	0	0	13.79
185	S	Glendora - West	.25	.42	1.04	.29	12.82	2.39	1.31	T	0	0	0	0	18.52
187	S	San Dimas - Mount	.57	.50	1.17	.27	10.07	2.08	.96	0	.02	0	0	0	16.50
188	Sp5	San Dimas - Howard	.61	.49	1.11	.25	10.64	2.15	.91	0	0	.05	0	0	16.21
189	Sp	San Dimas - Harris	.58	.54	1.10	.23	10.65	1.97	.85x	0	0	0	0	0	15.98
192B	S	Bell Fire Dept.	.17	1.33	.56	.30	6.70	1.36	.64	0	.01	T	T	T	11.07
193	S	Covina - Temple	.41	.54	.96	.19	8.80	1.50x	1.44	0	.05	T	T	T	13.95
194	Sp3	Covina - Evans	.40	.52	.88	.19	9.01	Discontinued							Inc.
196	Sp3	La Verne Leader	.62	.46	.99	.20	9.88	1.77	1.22	0	.02	.03	0	0	15.21
198	Sp, Dial	Brand Estate	.42	1.40	.55	.32	8.17	2.34	.64	0	.09	.06	.03	.03	14.05
199B	S	Huntington Park	.14	1.45	.46	.29	7.25	3.38	.17	0	0	0	0	.01	11.15
200	Sp3	Saugus - S. G. E. Co.	.29	.49	.46	.17	5.08	.95	.22	0	0	.03	.01	0	7.70
201	Sp	Fuente Hills	.12	1.03	1.05	.41	9.06	1.53	.58	.04	.06	T	0	0	13.88
203	Sp3	Whittier - S.P.Ry. Co.	.17	.92	.87	.15	7.52	1.23	.37	0	0	0	0	0	11.23
205	Sp	Puente - S. G. E. Co.	.20	.69	.87	.16	8.81	1.20	.40	0	.07	.01	.02	0	12.43
206	S	Valencia Heights	.08	.77	.64	.13	8.40	1.27	.98	0	T	0	T	T	12.27
208	Sp5	Artesia - Barry Lumber	0	.72	.70	.10	7.32	.49	.35	0	0	T	T	T	9.68
209	S	Big Tujunga Edison Pat. Sta.	.74	1.25	1.07	.01	11.92	2.05	.97x	0	.08x	.06x	.01x	.16x	17.90
210B	SA	Brand Park	.43	1.63	.62	.34	9.16	2.32	.68	.04	.06	.06	.06	.03	15.45
213	SA	Hancock Park	.10	1.98	.60	.29	7.77	1.37	1.11	0	.04	.04	.01	T	13.31
215	Sp	Bellflower	.10	.80	.33	.20	6.70	.73	.17	.05	T	0	0	0	9.08
216	Swb	Glendora - Jones	.28	1.22	.78	.61	7.77	2.74	.88	T	.02	.04	.01	.02	14.37
217	Sp3	Watts	.08	2.26	.37	.25	6.72x	1.16	.43	0	.04x	Tx	.0x	Tx	11.38
218	S	Torrance - Gen. Petrol.	.13	1.45	.40	.33	5.53	.63	.44	.02	0	T	.09	0	9.02
219	S	San Fernando Rgr. Sta.	.29	.86	.61	.18	7.57	1.38	.59	0	0	.02	0	.01	11.51
220	S	Whittier Narrows	.18	.89	.93	.31	7.73	1.29	.25	0	.02	0	0	0	11.60
221	CGG	Kiener (Davis) Ranch	.27	1.15x	NR	NR	NR	NR	NR	0	0	0	0	0	Inc.
222	Sw	Lankershim Power Plt.	.23	.92	.40	.17	5.60	1.14	.58	0	.04	.02	0	0	9.10
223BE	S	Big Dalton Dam	.52	.50	1.10	.25	14.23	2.88	1.90	.02	.02	.04	.04	.07	21.57

x Partly Estimated
 x Estimated from nearby stations

No.	Gage Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
120	S	Vinecent Patrol Sta.	0	.10	.42	0	1.56	.54	.18	0	.05	.15	0	0	3.00
121	S	Lanester	.11	.48	.75	.20	2.14	.52	.18	0	.04	.17	0	0	3.55
122	S	Rouff Ranch	.10	.48	.75	0	8.37	1.94	.47x	0	0	0	0	0	12.11
127	Sp	El Marz Ranch	.64	NR	.81	.20	5.94	.46	NR	0	.08x	.29x	.02x	0	+12.00
124B	Sw	Bouquet Canyon	.56	.74	.54	.11	8.06	1.78	.81	0	.12	.19	.04	0	12.95
125	Sw	Power House #1	.55	1.23	.79	.77	10.09	1.57	.73	0	.07	.19	.03	0	16.02
126	S	Venice - City Yard	.21	1.40	.45	.28	7.11	1.00	.25	0	.10	0	0	0	10.80
127	Sw	Dry Canyon Res.	.08	.45	.47	.15	5.82	.86	.20	0	.03	.04	.09	0	8.19
128-E	S	Radium Hot Springs	.40	1.99	.94	.36	13.98	2.17	1.35	0	.10	.32	.14	0	21.75
130	S	Sandbergs	.45	1.21	.36	.51	6.41	1.51	.35	.09	.08	.08	.21	0	11.26
134	S	San Dimas - Stevens	.45	.31	1.10	.19	11.77	2.20	1.09	0	0	.02	.04	0	17.17
135	S	Merwalk	.13	.75	.73	.25	7.32	.81	.35	.10	.12	0	0	0	10.58
136-E	S	Hollywood	.26	2.29	.57	.27	8.03	1.84	1.03	0	.06	.03	0	0	14.20
137B	S	Cursom Canyon	.42	2.15	.74	.41	9.30	2.76	1.09	0	.12	.05	.01	.01	17.06
139	Sw	L.A. 2nd & Brdwy. L.A.W.D.	.04	1.20	.39	.32	7.82	1.29	.83	0	.23	0	.02	.02	12.16
140	S	Sawtelle (West L. A.)	.06	1.25	.42	.35	8.00	1.36	.82	0	.24	T	.02x	.03	12.55
143	S	Azusa C. of G.	.10	1.84	.91	.28	7.82	1.64	1.16	0	.02	T	.05	0	13.92
144	S	Sierra Madre Dam	.48	1.07	1.02	.51	13.02	2.74	1.75	.02	.16	T	.01	.01	20.79
150	SA	Monrovia Falls	.91	.82	1.04	.43	18.99	3.04	2.00	0	.06	0	0	0	27.35
153B	S	Little Rock Creek	.08	.12	.39	0	3.32	.75	.22	0	0	T	0	0	4.88
156	Sp3	La Bhrada	.11	1.23	.54	.34	5.94	1.06	1.18	.06	.11	.01	.01	0	10.00
157E	Sp	El Segundo	.43	.49	1.16	.12	17.50	2.96x	2.55x	0	0	T	0	T	25.21
158	Asp	Tanbark Flats	.38	.75	1.39	.81	23.56	4.01	1.90	0	0	0	0	.25	33.05
159B	SA	Trorchard Camp	.52	.05	1.03	.49	11.74	2.53	1.40	T	.94	0	0	.06	17.85
167	Sp	Monrovia - O'Gonnor	.36	.90	.70	.36	11.31	2.48	1.50	T	.05	.07	.03	.04	17.80
168	S	San Gabriel - Watts	.18	.82	.86	.33	9.61								

No.	Gage Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
259	S	Twin Lake Park	.43	1.77	.74	.50	9.15	1.60	.50	0	.10	.13	0	0	14.92
260	S	Monte Cristo Mines	NR	NR	NR	.02	8.96	1.67	1.11	0	.27	.07x	.13x	0	+12.23
261E	SA	Anton - Mellens	.55	.07	.28	.12	4.21	.68	.53	0	.17	.18	.15	T	6.94
263	S	Pomona Frater	.31	.52	1.09	.12	8.71	1.21	1.10	T	0	.03	T	0	15.09
264	S	Sand Canyon - Riley	0	1.31	.78	.05	13.40	2.54	.15	0	0	0	0	.03	18.26
265BE	S	Puente Hills (La Habra Hts.)	.14	.85	.83	.22	8.65	1.11	.55	T	.02	T	.03	T	12.40
266	Sp	E. Whittier - Leffingwell Roh.	.10	.69	.93	.20	6.94	.97	.31	.05	.06	0	0	0	10.25
268E	Sp	Torrance - S.G.E.Co.	.09	.98	.37	.19	5.41	.99	.23	.14	.09	0	.02	0	8.51
269	S	Diamond Bar Roh. #1	.15	.71	.71	.17	10.02	1.14	1.22	0	0	0	0	0	14.16
270	S	County Farm	.07	1.40	.60	.16	5.96	.92	.19	0	0	0	0	0	9.30
271	S	Domiguez Hills	.10	1.39	.33	.20	5.59	.77	.07	.09	.04	0	0	0	8.58
272	S	Headworks Plant	.22	2.27	.65	.23	9.19	2.79	.91	0	.05	.05	.04	.02	16.42
273	Sp5*	San Pedro Hills	T	1.20	.46	.63	6.76	.15	.14	.35	.08	T	T	.24	10.01
274	Sp	Anton - Hubbard	.56	.23	.32	.08	4.35	.74	.55	0	.16	.17	.07	.05	7.26
275	Sp5*	San Marino	.30	.99	.79	.42	11.18	2.25	1.17	0	0	0	T	T	17.10
277	S	Sawmill Mt. Roh.	.59	1.47	.79	.30	10.32	2.46	.57	.08	.32	.34	.11	0	17.35
278	S	Clark Estate	.07	1.62	.24	.36	7.13	1.19	.76	0	0	0	T	T	11.37
279	Sp	Kinneloa Ranch	.64	1.29	.94	.63	12.51	3.19	1.25	0	.10	.16	.07	.04	20.82
280	SA	Flintbridge Fire Sta.	.61	1.32	.87	.35	10.25	3.26	.89	.03	.03	.02	0	0	17.63
283a	ASco	Crystal Lake - East	.43	.56	1.47	.10	19.08	3.00	1.35	0	.13	.10	.29	T	26.51
283b	So	Crystal Lake - West	.41	.61	1.56	.10	19.13	3.06	1.31	0	.11	.04	.29	T	26.62
284	Sp	Placecita Canyon	.10	.95	.65	.12	10.19	2.55	.15	0	0	0	0	0	14.71
285B	S	Mt. St. Mary's College	.27	2.18	.40	.32	10.18	1.96	1.07	0	0	0	0	.01	16.41
286A&B	GGG	Glendora - G.M.I.Co. Office	.75	NR	NR	NR	NR	NR	NR	0	T	0	0	0	Inc.
287	Sp	Newton Canyon	.41	.41	.99	.29	11.92	2.05	1.47	T	T	0	0	0	16.34
288	S	Newton Canyon	.58	1.90	1.71	.46	13.03	2.97	1.37	Ox	.01	Tx	Tx	Ox	22.05
289	Aoo	Leguna Bell	.16	1.15	.66	.16	6.64	1.13	.20	0	.03	Tx	Tx	Tx	10.13
290	Aoo	Newmark	.11	1.04	.87	.22	7.94	1.37	.85	0	T	Tx	Tx	Ox	12.40
291	Aoo	96th and Central	.07	1.39	.36	.40	6.42	1.32	.07	0	T	Tx	Ox	Tx	10.03
292E	Sow	Enolno Res.	.09	.83	.55	.16	4.79	1.19	.57	0	.06	.05	.01	0	8.29
293	Sow	Lower San Fernando Res.	.21	.96	.74	.94	8.97	1.82	.83	0	.02	.03	0	0	14.35
294	Sp	Mira Monte Res.	.52	.98	.99	.51	13.07	2.86	1.58	.01	.10	T	.01	.01	20.64
295	S	Glendale - Taylor	.29	1.20	.79	.28	7.88	2.98	.99	0	.31	.06	T	.05	14.83
297	GGG	Reeder Ranch	.36	1.27	1.89	Observer moved	-	-	-	-	-	-	-	-	Inc.

x Estimated
+ Incomplete

No.	Gage Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
347E	S	Baldwin Pk. Exp. Sta.	.17	.67	.81	.16	9.37	1.64	1.10	T	T	.04	0	0	13.96
348B	S	Honor Camp #4	.23	.36	.92	0	13.60	2.37	1.36	0	0	0	0	0	18.87
349	S	Camp Rincon	.40	.62	1.43	.09	17.90	2.77	1.67	0	0	0	T	T	24.88
350E	S	Detention Camp #5 (Eliz.Lake)	.33	1.84	1.05	.29	13.49	2.39	.92	0	.13	.40	Tx	Cx	20.84
351DE	Swb	Palmdale	.04	.07	.32	.04	3.18	.72	.40	0	.15	.05	.02	0	4.99
352	SA	Lechuza Patrol Sta.	.67	1.73	2.66	.71	10.10	2.39	1.23	0	.05	.11	.02	T	19.67
353	Sp	Duarte-Monrovia Citrus Aasn.	.34	.58	1.09	.24	10.55	2.70	1.29	0	0	.02	0	.02	16.83
354B	S	Honor Camp No. 6	.31	.54	1.16	.16	18.54	2.67	2.20	0	.03	.23	.10	.13	25.07
355	GGG	L. A. Junior College	.14	1.27	.46	.24	7.74	1.58	1.26	0	.11	.08	.03	.03	12.94
356	Sp	Diamond Bar Roh. #2 Spadra	.39	.61	.84	.21	8.19	1.29	.16	0	0	0	0	0	11.69
357	Sow	Power Hse. #3 L.A.W.D.	.26	1.03	.77	.47	11.04	2.26	.44	.01	.02	T	.01	.04	16.35
358B	S	Aldrich Ranch	.16	0	.25	.04	3.62	2.10	.41	0	0	0	0	.33	6.01
360	S	Haines Cn. - Gravel Pit	.53	1.37	.70	.22	10.19	2.29	.62	.02	.05	.06	.04	.07	16.16
361B	S	C.C.C.Camp-Angeles Great Hwy.	.93	1.47	1.04	.41	14.02	1.81	1.27	0	T	.07	0	T	21.02
362	Sp	El Mirador Ranch	.40	1.07	.89	.42	10.03	3.63	.99	0	.06	T	.03	.02	17.54
364	Swb	Lower Haines U.S.G.S.	.51	1.35	.79	.26	10.81	2.22	.66	.02	.06	.07	.04	.11	16.90
365	SA	Sister Elsie Peak	.47	1.43	1.01	.37	15.57	1.79	.71	0	.27	.15	0	.12	21.89
366	S	Valyermo	.14	0	.13	.03	2.50	.71	.24	0	0	0	0	.44	4.19
367	ASwb	Haines Cn. - Upper	.52	1.41	1.03	.40	14.49	2.53	.81	.01	.12	.10	.04	.12	21.58
371	S	San Gab. N.Fk.Gaging Sta.	.57	.55	1.39	.09	16.74	2.63	1.73	0	.01	.01	T	.03	23.75
372	Sow	San Francisco Po.Hse #2	.27	.97	.63	.27	8.05	1.40	.61	0	.02	.18	0	0	12.40
373	SA	Briggs Terrace (Pickens Cn.)	.20	1.53	.98	.22	13.77	2.57	.87	.06	.11	.09	.08	T	20.48
374	S	L. A. Examiner	.05	1.24	-	-	-	-	-	-	-	-	-	-	Inc.
375	S	Griffith Park Zoo	.33	1.95	.80	.31	10.00	3.32	1.06	.02	.15	0	.06	0	18.00
376	SA	Little Rock - Booth	.22	.20	.15	0	2.68	.68	.26	0	.21	0	.50	0	4.90
377B	Sp	Lake Sherwood Estate	.26	.94	1.42	.15	10.23	2.19	.25x	0	.18	0	0	0	15.62
378	Sp3*	La Canyada - Hall	.29	.53	1.25	.06	14.75	2.73	1.70	0	T	.05	T	.07	21.43
379	S	East Pk. San Gab.Gag.Sta.	.09	1.08	.58	.26	9.36	1.48	1.20	0	T	T	T	0	14.05
380	SA	El Sereno	.12	.76	.76	.22	7.53	1.33	.74	0	.05	.04	.06	0	12.61
381B	GGG	Santa Monica - "Outlook"	.32	.92	.61	.31	7.43	1.27	.55	0	0	0	0	0	11.41
382	Sp	Marka Pastures	.12	.76	.76	.22	7.53	1.33	.74	0	.05	.04	.06	0	12.61
383E	GGG	Truesdale Gravel Pit	-	-	-	-	-	-	-	-	-	-	-	-	Gage Removed
384	S	Highland Park - Laverty	.21	.98	.59	.23	9.88	1.71	1.15	0	.18	T	T	.02	14.95
385	Sp3*	No.Whittier Mts. - Smith	.07	1.05	.99	.22	10.14	1.59	.31	0	.10	.01	.01	0	14.49
386	Sp3*	Vera Canyon - Roblee	.63	1.86	1.96	.86	14.94	2.62	1.40	.08	.14	.04	.16	0	24.69

* Partly estimated

x Estimated from nearby stations

No.	Gage Type	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
298	S	Gorman	.25	.45	.90	.90	4.45	1.00	.60	0	0	0	.16	0	8.71
299B	S	Calivalli Farms	.15	.03	.25	.35	1.86	.68	0	0	.18x	Ox	.15x	Ox	3.65
300B	Sp3*	Carrapata Canyon	.24	1.12	1.10	.35	10.57	2.74	.89	0	.19	0	.03	Ox	17.23
303	SA	Cal. Tech.	.39	.97	.72	.58	10.17	2.33	1.06	0	.03	T	.01	T	16.26
304	S	Deer Park	.56	1.04	1.18	.29	22.63	1.09	5.04	0	.10	0	.03	.04	32.00
305	S	Mason Estate (Arroyo Sequia)	.52	1.33	2.07	.57	9.84	2.27	1.24	.05	.06	.05	.04	T	18.05
306	S	Steeb's Trdg. Post	.24	1.17	.95	.97	5.84	.34	.08	0	0	0	.12	0	9.71
307	Sp	Snow Crest Camp	Will not send in records	-	-	-	-	-	-	-	-	-	-	-	-
308	Sp	Kelly's Kemp	.43	.85	1.51	.37	22.44	3.51	3.55	0	.36	.32	.27	.10	33.74
309	Sp	Padua Hills	.08	.58	1.10	.20	11.98	3.33	.97	0	0	0	0	.04	17.20
311	SA	Pasadena - Sunset Res.	.39	1.03	.77	.36	9.33	2.94	1.08	0	.07	T	0	T	15.97
312	Sp	Glendora C.M.I.Co. Azusa Pkt.	.43	.41	1.08	.34	11.93	2.49	1.59	0	0	0	0	0	18.27
314	Sp	Glendora C.M.I.Co. San Dimas	.61	.43	1.04	.29	10.68	2.12	1.87	T	.02	.04	0	.03	16.65
315	Sp	Glendora C.M.I.Co.H.C.Warren	.58	.50	1.15	.39	12.82	2.54	1.67	T	T	0	0	0	19.63
317	So	Big Pines - Sawmill Flat #2	.14	.70	.71	.12	12.05	1.02	1.15	0	.44	.33	.25	T	18.31
318	So	Big Pines - Jackson Lake	.23	.39	.81	.08	10.34	.69	.90	0	.11	.71	.75	T	16.01
319	So	Big Pines - Apple Tree Flat	.34	.39	.94	.11	12.38	1.96	1.01	0	.07	.51	.65	T	18.36
320B&C	GGG	Sycamore Cn.-Chevy Chase	.35	1.12	.81	.61	9.07	3.42	.96x	.05	.07	0	.05	.05	16.57
321E	S	Pine Canyon Patrol	.22	1.00	.77	.18	8.40	1.80	.61	0	.06	.29	.02	0	13.37
322	GGG	E. S. Munz Ranch	0	0	.30	0	3.62	.93	.14	0	0	0	0	0	4.99
325	S	Fish Hatchery-San Gab. Cn.	.59	.61	1.44	.05	17.44	2.93	1.90	0	.01	.01	T	.03	25.01
326	Sp3*	Santa Ynez Canyon	.07	1.41	1.16	.11	13.71	2.63	.80	0	0	0	0	0	19.89
334E	SA	San Gabriel Dam No. 2	.31	1.32	1.45	.10	16.18	3.42	1.17	0	.09	T	.03	T	24.07
335A&B	S	Happy Valley	NR	NR	NR	NR	NR	NR	NR	1.30	.41	0	.09x	T	Inc.
336	Sow	Silver Lake Res.	.12	1.87	.46	.72	7.11	1.69	1.04	0	T	0	T	T	13.01
337	GG														

TABLE III
RAINGAGE STATION LOCATION
1934-1935 --- 1935-1936

Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
2	22-25	1025	Maek Couchois	Upper Escondido Canyon
3	34-09	875	F. L. Porter	La Sierra Canyon at Cornell
4	22-70	600	F. H. Cese 1934-35 L. S. Brown 1935-36	Malibu Creek B.W. of Calabasas
5	35-54	950	Tom Farmer	In Calabasas, So. Side Blvd.
6	24-01	747	E. C. Roth	.4 mile S. of Topanga Bridge
70	24-55	900	Henry Jenks	Bel Air Bay Club - Coast Highway
8	35-03	480	Dudley Corlett	Rear of Admin. Bldg., Handeville Canyon
9	48-37	815	Robt. Larson	Sepulveda Blvd., 2nd House N. of Chase
10	25-51	540	C. F. Bell	Bel Air Admin. Bldg.
11	37-88	867	W. H. Wood	Upper Franklin Canyon Res.
12	37-86	1175	R. H. Chaplin 1934-35 H. Huggins 1935-36	Mulholland Hwy., at Franklin Canyon
13	38-34	593	Katie Elix	10834 E. Elix St.
14	49-46	1000	E. S. Merrill	Near Mouth La Tuna Canyon
15	37-41	695	Frank Carr	Aetna and Vesper Sts., Van Nuys
16 B	37-25	825	R. C. Gibson	Sepulveda Canyon at old Ranch House
17	37-07	1400	Earl M. Nave	Sepulveda Canyon at Mulholland Drive
18	36-73	815	E. L. Sherman	Adohr Dalry - Ventura Blvd.
19	35-96	1520	A. L. Scott	Summit Topanga Canyon Rd.
20	35-93	892	R. F. Kunkee 1934-35 Allen Shaw 1935-36	S. E. Cor. Ventura Blvd., end Topanga Cn. Rd.
21	36-02	876	Thos. Franklin	Canoga Rd. No. of Ventura Blvd.
22	46-58	930	Arthur Hoffer 1934-35 Paul Johnson 1935-36	S. W. of Stage and Canasset Sts., Bell Cn. San Fern. Valley
23 E	46-87	865	R. R. Melrose	E. end of Chatsworth Res.
24 B	46-94	965	E. L. Johnson	E. of Vassar St., S. of Devonshire St., Chatsworth
25	47-47	797	Jack Andrews	N.E. Cor. Parthenia & Van Alden, No. L. A.
27	48-64	944	W. D. Miller	14163 Van Nuys Blvd.
28	48-32	950	B. Hanneman	San Fernando Lemon Assn. Packing House
29	47-82	1130	R. E. Moore	Sunshine Ranch, Rinaldi St.
30	59-28	1250	W. C. Simonds	Sylmar Olive Pkg. Plant

#70 is 10 ft. above ground. #10 is 12 ft. above. #18 is 12 ft. above.
#20 is 10 ft. above. #21 is 15 ft. above. #24 is 10 ft. above.
#28 is 10 ft. above. #30 is 12 ft. above.

Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
69	42-31	2000	M. L. Packer	Sawpit Canyon, Upper
70E	42-93	800	Roger Dalton	Mouth of San Gabriel River
73	43-54	1200	Mrs. J. F. Englehart	Mouth Engle Wild Canyon
74	44-01	1950	A. M. Trout 1934-35	Jung Wolfe & Bell Canyon, Big Dalton
75B-E	54-48	1275	F. C. Employee	Robert's Relay Sta., San Gabriel Canyon
75	54-27	1600	Albert E. Marshall	W. Side San Gabriel Forks, U. S. Rgr. Sta.
78	54-60	3300	R. F. Hill	No. Fork San Gabriel
80	67-05	5680	Gus Waisendorff	2 mi. E. of Vincent Gulch - Juno.
82	67-11	7500	A. P. Moore 1934-35 Hoover & Zodtner 1935-36	Top of Table Mt.
83-E	67-02	6860	Leslie E. MacDonald	Big Pines County Park
85B-E	56-46	4300	T. E. Adams 1934-35	Camp Baldy, San Antonio near Bear
850	56-46	4300	W. K. Vernon 1935-36	Bear Canyon Resort - Camp Baldy
87	44-33	1500	O. L. Trout 1934-35 H. G. Shtwoob 1935-36	San Dimas Canyon at West Fork
88	44-52	2400	Albert Colautti 1934-35 Lloyd E. Davis 1935-36	Wolfskill Canyon
89-E	44-24	1350	G. W. Rodgers	San Dimas Canyon below Dam at Caretakers house
90	44-44	1680	R. S. Brydon	No. end Wheeler-La Verne Road
91	44-87	1405	W. White	Indian Hill Rd., No. of Base Line
92	32-90	1190	John S. Hopkins	Pomona College Observatory
93	32-60	1165	G. M. Williams	No. side 2nd St., bet. Harvard and Yale Sts.
94	31-60	805	Will G. Fields	Covina Blvd., at P. R.R. crossing, Charter Oaks
95	43-99	960	Sam L. Trout	114 E. 1st St., San Dimas
96-E	31-90	1030	F. A. Pollard	Knoll above Caretakers house, Puddingstone Dam
97	44-08	1000	Mrs. Geo. Ferguson	N. side Juanita, East of Walnut
98	42-96	602	John Hiseach	325 Foothill Blvd., Azusa
99	43-06	615	Chas. Stewart	Foothill Blvd. S. side 2 mi. W. of Citrus
100	42-73	1050	August Bohm	Above U.S.G.S. Gaging Sta. Fish Canyon
101	30-55	358	Rurst Bros.	S. Cor. Orange & Merced Ave., Covina
102	31-29	475	Mr. Carr 1934-35 C. Gullum 1935-36	1 mi. West of Walnut P. O., So. of R.R. tracks
104	30-09	600	E. B. Linn	S. end 7th Ave., No. Whittier Heights
105	16-64	215	Peter E. Sharples	1/4 mi. S. Whittier Blvd., on Laurel Ave.
106	16-61	365*	E. W. Honeyman	City Hall Roof, N.W. Cor. Greenleaf
107	15-65	117*	Arthur I. Darby	N. E. Cor. Downey and Firestone

*#106 is 15 ft. above ground. #107 is 15 ft. above.

Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
32 E	58-61	1245	Milen A. Priest	Inland Highway, 1/4 mi. N. of Newhall
33A-E	60-07	1700	R. E. Waddicor	Caretakers House near Paoclima Dam
34	60-45	2050	John McQuillen	2.5 mi. above Paoclima Dam
38	49-34	1060	Sam Chappell	10100 Helen St., Roscoe
39	50-19	1650	F. C. Employee	Rear of House at turn around tree, Sunset Cn.
42	7-15	50*	City Clerk	Roof of Redondo City Hall
43-A	2-10	300*	G. B. Enelgrove	75 Melaga Cove Plaza, Palos Verdes Estate
44	1-85	125	A. Trittinger	Near Pt. Vicente Lighthouse
45	50-61	1800	T. E. Justice 1934-35	Big Tujunga Canyon
46 B-E51-01	2050		Sam Browne	Big Tujunga Canyon below Dam
47A	51-22	3100	R. H. Rogers	1.6 mi. up Clear Creek from Big Tujunga
48	51-15	2000	J. R. Phillips	Oak Wild Resort - Arroyo Seco
49	40-50	1345	Geo. S. Chiesa	165 E. Foothill Blvd., Altadena
50B	40-10	1155	H. J. Durand	352 Michigan Ave., Elmtbridge
51	65-69	4650	Frank H. Headlee	1 mi. No. of Coldbrook Camp
52	51-44	3000	Bertha E. Austin 1934-35 J. A. Perrell 1935-36	Switzer's Camp, Long Canyon
53B	62-89	2950	Joe Argay	Coldwater Canyon near Big Tujunga
54	63-55	4050	L. G. Loomis	Near Junct. No. & Middle Forks - Alder Creek
56	52-24	3400	Cherie DeVore	West Fork, San Gabriel River
57A-E	52-04	4380	Mrs. John Opid 1934-35	West Fork San Gabriel River
57B-E	52-04	4350	Mrs. John Opid 1935-36	West Fork San Gabriel River
58	52-67	3375	V. B. Hoopes 1934-35 H. H. Shoemaker 1935-36	Upper Big Santa Anita Canyon
59	52-47	5650	Kenneth Pitt	Bet. 60 in. & 100 in. telescopes, Mt. Wilson
60A	52-69	2750	Wm. Murphy 1934-35	West Fork Santa Anita Canyon
60B	52-79	2580	Willard Plummer 1935-36	West Fork Santa Anita Canyon
62	41-80	1950	J. Converse 1934-35 F. L. Steele 1935-36	Santa Anita Canyon Rgr. Station
63B-E	41-81	1400	Joseph Propst	Caretakers House, Santa Anita Dam
64	41-71	1600	J. E. Clark	On Sturtevant Trail, Big Santa Anita
65	41-42	1160	Col. H. B. Hersey	575 N. Hermosa Ave., Sierra Madre
66	41-54	669	C. J. Pegler	415 East Live Oak, Sierra Madre
67B	41-95	560*	G. H. Duell	Roof City Hall, Monrovia
68B	42-12	1378	M. L. Packer	Parapet Wall of Sawpit Dam

*#42 is 30 ft. above ground. #43 is 20 ft. above
#67B is 40 ft. above.

Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
108	29-62	285*	G. S. Ranger 1934-35 Barrie O'Daniels 1935-35	El Monte C. of C. Bldg.
109	41-37	490	Manie L. Picard	2307 Neomi Drive, Aroadia
110	28-70	485*	J. W. Clay	N.W. Cor. 2nd & Main, rear of City Hall, Alhambra
111	40-48	660*	Frank H. Clough	City Hall, N.W. Cor. Mound & Mission, So. Pasadena
114	14-09	64	C. E. Rosecrans	S. E. Cor. Vermont & Rosecrans Blvd.
116	13-43	117*	Geo. Green	Inglewood High School
1170	8-90	67	Chas. H. Merrill Jr. 1934-35 Geo. H. Nye 1935-36	401 So. Poinsettia Ave., Compton 328 So. Poinsettia Ave., Compton
118B	3-41	40	E. A. Bishop	1251 Banning Blvd., Wilmington
119	25-44	335*	W. E. Wheeler 1934-35 L. P. Emerick 1935-36	National Military Home, Sawtelle
120	74-70	3250	Jack Albright 1934-35 Geo. M. Cuthbert 1935-36	Mint Cn. Rd., 1 mi. west of Vincent
121	112-79	2350	R. E. Lorinck	N.W. Cor. Union High School Grounds
122	98-29	3200	Geo. Rouff	Bouquet Cn. Rd., 1/2 mi. S. Elizabeth Lake Rd.
123	96-73	3250	Ell Munz	Between Elizabeth & Hughes Lakes
124B	84-31	3000	R. W. Mathews	Bouquet Cn. W. of Orchard at Res. Yard
125	83-40	2100	Sta. Operator	Power Plnt., #1 Upper San Francisquito
126	12-41	7*	A. S. Ede	Venice City Yard
127	70-71	1507	Jim Ray	Dry Canyon Reservoir
128-E	95-49	2041	Louis G. Klein	Elizabeth Lake Cn. at Warm Springs
130	106-85	4200	A. R. Grant	Old Ridge Route at Sandberg
134	44-07	1110	A. L. Stevens	1/2 mi. N. of Foothill Blvd., San Dimas
135	10-30	83	C. S. Hargitt	1/4 mi. N. of Center St., 1/5 mi. W. of Bloomfield
136B	26-70	305*	E. L. Phillips	6225 Santa Monica Blvd.
137B	38-48	1125	F. C. Employee	E. side Curson Canyon
139	27-54	300*	D. A. Lane	Just S. of S.E. Cor. 2nd & Hill Sts. on Roof L.A.
140	27-54	287*	F. C. Employee	205 So. Broadway, Roof, Los Angeles
142	25-55	232*	W. B. Boott	Rear 1620 S. Purdue, Roof Garage, City Hall, W.L.A.
143	42-96	607	Paul E. Smith	Rear of City Hall in Park, Azusa
144	41-52	1400	Al Freehand	Foot of Sierra Madre Dam
145	25-02	600	Various 1934-35	Mandeville Canyon S.W. of glass houses
148	25-02	575	Various 1934-35	Mandeville Cn. 1/2 mi. from mouth of Canyon
149B	36-99	1050	Various 1934-35	Mandeville Cn. 1/4 mi. below Mulholland Dr.

*#108 is 15 ft. above ground. #110 is 15 ft. above. #111 is 30 ft. above.
#116 is 15 ft. above. #119 is 12 ft. above. #126 is 10 ft. above.
#136B is 20 ft. above. #139 is 85 ft. above. P.C. is 118 ft. above
#140 is 20 ft. above.

Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
150	42-11	1450	M. L. Paoker	Monrovia Canyon Falls
154	52-47	5600	Kenneth Pitt 1934-35	Mt. Wilson St. 60 in. & 100 in. Observatories
155B	87-79	2900	Gene Brealin	Little Rock Cr. 1.5 mi. below dam.
156	10-81	90	Std. Oil Employee	Center St., La Mirada near S.F.R.R.
157E	12-88	135	T. H. N. Waite	Std. Oil Refinery, El Segundo
158	55-49	2700	U.S.F.S. Employee	W. Fork San Dimas Canyon
159B	41-40	3000	M. A. DeTemple	Mt. Wilson Trall, Little Santa Anita
164	41-94	675	Charles J. O'Connor	432 N. Primrose, Monrovia
166	41-94	575*	O. A. Gierlich 1934-35	Roof Citizen's Bank Bldg., Monrovia
167	41-64	611	Spott M. Lee	Aerodia Pumping Plt., 1 mi. N. of E. Live Oak
168	41-09	433*	Richard Watts	309 E. Live Oak Ave., San Gabriel
169	41-63	700	Joe. P. Hogan	Sierra Madre Pump Plt., 621 E. Central Ave.
170	29-15	320	J. A. Reifer, Jr.	3623 Delta St., San Gabriel
171	41-35	635	W. E. Comerford	1000 ft. S. of E. Colorado St., on Sierra Madre Ave.
173	36-87	1965	C. J. Traup	San Vicente Point near Mandeville Cr. & Mulholland Dr.
174	43-86	965	C. C. Warren	Foothill Blvd., 2.75 mi. E. Glendora
175	50-87	1915	V. M. Glang 1934-35	5268 Linda Vista Dr. Alta Cenada
176	40-61	1125	K. L. Williams 1935-36	575 Sacramento St., Altadena
177	51-09	1275	J. H. Parsons	4620 Commonwealth Ave., Alta Cenada
178	43-09	545*	Mrs. S. T. Chisam	Bonita St., Just W. of Cerritos, Azusa
179	41-42	1110	E. B. Griffith	N. of upper end Baldwin Ave., Sierra Madre
181	30-04	296	Arthur N. Carter	S.P.R.R. Station, Bassett.
182	30-41	378	R. S. Gipple	334 N. Main St., Baldwin Park
185	43-46	822	S. Howard Leach	460 E. Bennett, Glendora
187	43-99	960	L. M. West	167 N. San Dimas Ave.
188	44-07	1075	W. E. Mount	Foothill Blvd., near Puddingstone Diver. Channel
189	43-98	1000	H. E. Howard	112 W. 6th St., San Dimas
192B	15-12	145	J. R. Harris	6320 Pine St. Bell
193	31-21	575	J. F. Salwall	.8 mi. E. of High School, S. Side Puente St.
194	31-11	560	W. B. Temple	460 E. Badillo St., Covina
196	44-39	1054*	A. R. Evans	2152 3rd. St., La Verne
198	39-21	815	Allice G. Mclellan	Rear of Brand Residence, Ext. Grandview Ave.
199B	14-81	175*	W. F. Pomeroy	City Yard, Slauson and Miles St., Huntington Park
			W. E. Forth	

* #166 is 40 ft. above ground. #168 is 6 ft. above. #178 is 8 ft. above.
 #196 is 10 ft. above. #199B is 8 ft. above.

Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
237	37-49	725	H. L. Murrietta	Stone Canyon Dam
238	36-68	750	C. J. Chering	Hollywood Dam
240	60-67	1700	F. H. McBride	4.3 mi. up Little Tujunga Cr. from Foothill Blvd.
241	4-03	30*	C. Bower	City Hall, Long Beach 1/4 mi. from ocean
242	32-20	1036	L. M. Jones	F.E.R.R. Station, La Verne
244A	54-13	1925	F. C. Employee	F. C. Gaging Sta. at Bear Cr. 1.8 mi. N. of W. Fr. San Gab.
244B	54-15	1600	F. C. Employee	F. C. Gaging Sta. at Bear Cr. 500 ft. N. of W. Fr. San Gab.
246A	26-07	91*	Fire Dept. Employee-Jan'35	City Hall, Culver City
246B	26-18	65*	Bus Dept. Employee-Jan'35-36	Cor. Jefferson & Duquesne Sts., Culver City
247	15-93	151	B. F. Lindsey	233 Burke St., Rivera
248-E	23-12	590	Ralph Zellke	W. Slope Saddle Peak, Above Crater Camp
249	84-48	2400	W. A. Dodrill	Mint Cr. Rd. at Oaks Garage
250	73-85	2575	R. W. Willday 1934-35	Soledad Cr. - 2 mi. W. of Acton
			Joe Schadler 1935-36	
251	50-67	1565	H. A. Scheuner	2908 Foothill Blvd., La Cressenta
252	69-80	1156*	W. H. Callis	Castro W. side of Ridge Rd.
253	13-95	235	W. G. Frayer	Western Ave. Tank, L.A.W.D.
254	17-50	466	R. R. Steele	Extension Graziade Rd. & S. of Rowlands Reh. House
255	31-55	770	E. E. Frary	State Narcotic Hospital, near Spadra
256	32-44	862	Various	S.P.R.R. Station, Pomona
257	39-17	750	J. Kladler	Griffith Park Nursery, Ext. No. Commonwealth Ave.
258A	36-07	1100	Louis Straus	W. of Tunnel, pt. of ridge, Griffith Park
258B	39-97	1400	Louis Straus	No. Slope Mt. Hollywood, Griffith Park
258C	39-06	1600	Louis Straus	Bottom Devils Creek abv. Upper Lake, Twin Lakes Park
259	46-91	1225	Ed. F. Coltrin	E. Fork Mill Cr. Fuller Canyon
260	63-14	4500	F. W. Carlisle	Escondido Cr. N. Branch
261E	73-30	3075	H. F. Mellen	2211 S. Tower Ave., Pomona
263	32-56	778	Milton Frater	Sand Canyon - Coyote Canyon Branch
264	59-92	1900	R. Riley	Anaheim Rd. 1 mi. No. Whittier Blvd., Fuente Hills
265B-E	17-74	725	R. H. Marsh	Lettingwell Reh. 1/2 mi. S. of Whittier Blvd.
266	17-06	253	J. M. Stevenson	190th & Western Ave., at Sub-Station
268-E	7-94	27	B. Banje	Diamond Bar Reh. Area Cr. Rd.
269	18-53	710*	F. E. Lewis	741 Old River School Rd. County Farm
270	15-46	104	Glyde Morrow	Dominguez Hill, S. Side of Reservoir
271	8-63	195	James L. Nash	

* #241 is 30 ft. above ground. #246A & B are 10 ft. above.
 #252 is 10 ft. above. #269 is 10 ft. above.

Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
200	70-27	1093	W. H. Roberts	2.5 mi. W. of Saugus Ridge Route
201	17-00	860	Elliott Renoh	Tumbull Canyon Rd.
203	16-51	245	G. A. Kuhry	S.P.R.R. Station, Whittier
204	31-49	538	A. Graffin 1934-35	N. Side Lemon Rd., 1st house E. Packing house, Walnut
205	30-79	374	G. A. Follette, Oper.	S.G.E.Co. Sub Sta. 1.5 mi. E. Puente
206	30-94	467	P. R. Jackson	Azusa Ave., Bet. Merced and Vine Sts.
208	10-14	49	Barr Lumber Co., 1804 Pioneer St., Artesia	
209	62-49	2600	J. R. Hoehn	Big Tujunga at Lujaas Creek Brand Pk.
210B	39-22	1250	F. C. Employee	On S.W. Slope, 30 ft. N. firebreak 200 ft. abv. tank, /
213	26-43	177	F. C. Employee	La Brea Fossil Pite, 5801 Wilshire Blvd., L. A.
214B	26-88	192	Elsie Smith 1934-35	1209 Whittier Blvd., Montebello
215	9-72	68	R. V. Bashore	900 E. Park at Somerset, Bellflower
216	39-43	620	J. E. Jones	318 E. Randolph St., Glendale
217	14-75	110	M. E. Tower & Students	103rd St., 2nd Block W. of Alameda
218	7-54	75	Marion E. Dio*	2 mi. N.W. Torrance, Gen'l. Petrol Corp.
219	42-34	955	V. Taylor	12605 Osborne Ave., .1 mi. N.E. San Fernando Rd.
220	29-28	195	D. M. Gate	547 Friendship Ave., near Montebello
221	59-99	1375	Lawrence Grosnikle 34-35	Rear of Caretakers house at Kiener Ranch San Fern. Valley
			Earl Kern 1935-36	
222	38-10	732	F. L. Hoffmeister 1934-35	.2 mi. W. Lankershim Blvd., Generating Plant N. Hollywd.
			D. A. Reid 1935-36	
223B-E	43-83	1575	Paul Keiser	75 ft. S. of Caretakers house Big Dalton Dam
224	4-03	30*	W. N. Beach	22 Pacific Ave., Long Beach
225	9-85	47	J. F. Anthony	Montana Ranch, 3 mi. S.W. Artesia
226	35-21	650*	F. Olshvay	125 E. 3rd. St. Burbank Fire Station
227A	40-99	465	Geo. B. Gleason	147 Bradbury Dr., San Gabriel
227B	40-99	487	Geo. B. Gleason	424 N. Milton Ave., San Gabriel
228B	26-02	255*	C. Valle Riestra	Roof City Hall, Beverly Hills
230B	44-57	1435	C. S. Elder	E. Side of Canyon of Live Oak Dam
230C	44-68	1255	C. S. Elder	4055 N. San Antonio Ave., .6 mi. N. of Foothill Blvd.
231B	51-97	4500	Wm. Hostetler	Ridge N.W. of proposed Eaton Canyon Dam Site
233	31-11	527	J. L. Mathews	161 Navilla Place, Covina
234	31-23	630	Ben F. Thorpe	N. Side Cameron Ave., .2 mi. E. of Berranosa
235	41-10	2650	G. M. Whittechurch	Henninger Flat, Forestry Nursery, Mt. Wilson Toll Rd.
			E. L. Lioret	
236	59-88	1455	V. H. Craig	Craig Ranch, San Fernando

* #224 is 50 ft. above ground. #220 is 15 ft. above.
 #228B is 30 ft. above

Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
272	38-94	473	W. A. Herring	W. of N. Entrance Griffith Park at L. A. River
273	2-12	1235	W. H. McCarrrell	Top San Pedro Hills, W. end
274	85-68	3250	Mrs. A. S. Hubbard	Mint Canyon Rd., Just E. of Summit
275	40-87	670	G. L. Brown	Huntington Estate, San Marino
277	108-17	3700	Clarence Seates	Sawmill Mt. Ranch, 8.9 mi. N.W. of Lake Hughes
278	26-86	203	M. C. McCrae 1934-35	2205 W. Adams L. A.
			K. L. Scott 1935-36	
279	41-11	1400	Frank Hannon 1934-35	E. Side Eaton Wash, near Mouth of Canyon
			Rosa M. Lookhart 1935-36	
280	40-01	1325	Station Employee	200 ft. W. Summit Chevy Chase Dr. Cor. Inverness & Gleneagle
283A	65-57	5740	Roy M. Tuttle	Crystal Lake Co. Park, East Pine Flat
283B	65-58	5370	Roy M. Tuttle	Crystal Lake Co. Park, West Pine Flat
284	59-22	1480	John Wood	Dulin Ranch, Placerita Cr.
285B	25-11	1015	Sister Gertrude Joseph	Mt. St. Mary's College, Ridge bet. Boehme Cr. & Ch. West
286A	49-22	1090*	W. E. Foltz	10700 Foothill Blvd., San Fernando
286B	49-22	1120*	John Hermann	11532 Osborne Ave., San Fernando
287	43-36	782*	H. C. Warren	234 N. Michigan Ave., Glendora
288	22-01	1750	G. C. Carter	150 ft. W. of Latico Cr. Rd., in Newton Cr.
289	15-52	140	L. A. Co. Surveyors	10 mi. W. of Compton & Abonera Rd. 20 mi. N. of Baker Av.
290	28-75	375	L. A. Co. Surveyors	La Merced Hills - Garfield Ave. at S.G.E. Sta.
291	14-45	121	L. A. Co. Surveyors	96th and Central Ave., L. A.
292E	36-85	1000	John H. Cowan	Crest of Encino Dam, 1 mi. S.W. of Encino
293	48-11	1150	F. Ortiz	800 ft. N. of W. end of Dam Lower San Fernando
294	41-55	985	Al Frelend	Mira Monte Ave., at pump pl. 50' W. of Rd. Mt. Wilson Tr.
295D	39-34	525	A. W. Taylor	448 W. Pioneer Drive, Glendale
297	21-01	900	Oscar Carlson	E. Fork Arroyo Seco - 1/4 mi. S. of Rd.
298	105-40	3630	J. L. Ralphs	Gorman, Ridge Route N.W. Cor. L. A. County / Victoria Rd.
299B	88-26	2835	Geo. Jacoby	1 mi. W. of Pear Blossom Hwy & 1 mi. N. of Palmdale /
300B	36-18	990	R. L. Feeler	1/2 mi. N.E. of Topanga Cr. Rd. in Gerrapata Cr.
302	53-85	1790	F. C. Employee 1934-35	2-3/4 mi. W. of N. Fork in W. Fork San Gabriel River
303E	40-76	763	Students	Cal Tech 150 E. of Wilson Ave. 25 ft. S. of San Pasqual
304	42-30	2500	Ben Overturf	1 1/2 mi. up Canyon from Sawpit Dam
305	21-01	1155	R. L. Mason	East Fork of Arroyo Seco, S. of Road
306	21-56	650	Wm. Staeb	Roosevelt Hwy. at Trancas Canyon
307	56-73	150	A. B. Collins	Upper San Antonio - 1 mi. below Divide
308	56-96	8300	H. S. Delker	1 1/2 mi. N.E. of Ontario Pk. Just N. of Divide

* #286 A & B are 10 ft. above ground. #287 is 15 ft. above.

Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
309	45-05	1768	K. B. Forbes	1 1/2 mi. N. of Baseline Rd. 300 ft. E. of Monte Vista Av.
310	40-79	527	D. Donaldson 1934-35	800 N. Monterey St., Alhambra
311	40-43	930	H. Sievert	100 ft. N.W. Mountain Av. & 50 ft. N.E. Manzanita St. Pasa
312	42-85	675	Plant Operator	1 mi. N.W. Azusa; .4 mi. W of W. end Sierra Madre Ave.
314	44-07	1064	Plant Operator	N.E. Cor. Foothill & Artesia Av. .5 mi. W. Puddingstone Div.
315	43-15	865	Plant Operator	300 ft. W. intersection Ben Lomond Av. on Sierra Madre Av.
317	67-12	6750	L. MacDonald	.6 mi. S.E. Main Bldge nr Swartout Valley Pk. Entrance
318	66-70	6075	Ralph Price	So. edge Jackson Lake
319	66-81	5900	Ralph Price	Big Pines Park - Apple Tree Flat 2 1/2 mi. by Palmdale Rd.
320A	39-93	900	F. H. Hay 1934-35	2821 N. Chevy Chase, Glendale
320B	39-83	800	F. H. Hay 1935-Mar.'36	2601 N. Chevy Chase, Glendale
320C	40-03	1225	F. H. Hay Mar.'36-Sept.'36	3552 Linda Vista Ave., L. A. County
321B	96-72	3400	L. A. Co. Forestry	Ranger Sta., Mt. Hughes & Elizabeth Lakes
322	110-48	2600	Eric Munz	Lancaster-Balley Rd. 14 mi. W. of Lancaster
325	54-35	1600	F. C. Employee	N. Fork of W. Fork San Gab. Cn. (Fish Hatchery)
326	24-43	500	W. W. Culp	2 mi. up Santa Ynez Cn. from Beverly Blvd. at Forks
334E	53-35	2335	F. C. Employees	San Gabriel Dam #2 W. Fork San Gabriel River
335A	17-21	468	C. L. Jordan 1934-35	Los Altos Dr. - .1 mi. W. Hacienda Blvd. Happy Valley
335B	17-21	493	J. S. Gariker 1935-36	276 Los Altos St., Happy Valley
336	39-39	455	L.A.W.D.	Silver Lake Reservoir, L. A.
337	62-22	6500	Various Rangers	Top of Mt. Gleason
338	32-47	5850	K. Pitt	50 ft. So. 60 in. Telescope, Mt. Wilson
339	31-49	533	Operator	1/2 mi. S.E. of Walnut, S. side U.P. RR. Tracks.
340	26-89	125	C. F. Benjamin 1934-35	4160 2nd Ave., L. A.
341	74-43	2900	Geo. J. Blum	Aliso Canyon - S. of Acton
342	45-17	1550	L. Wood	1544 N. Benson Ave., Upland
343	16-04	141	F. C. Collins	Telegraph Rd., 0.2 mi. W. of San Gabriel River
344	26-37	93	F. M. Merrill 1934-35	5408 Homeside Ave., L. A.
345	25-97	92	M. R. Pollard 1934-35	3671 Motor Ave., Palms
346	15-65	119*	Mrs. K. C. Wells	241 N. Downey Ave., Downey
347E	30-30	387	Various	Scott Place, 1 Blk. W. of Main St., Baldwin Park
348B	55-42	2500	G. H. McKelvey	No. Fork of E. Fork San Gabriel River
349	54-46	1500	R. B. Luckey	W. Fork San Gabriel 1.3 mi. W. of Forks (Camp Rincon)
350B	95-76	2350	E. G. Richey	14 mi. up Elizabeth Lake Cn. from State Hwy. nr. Castaic

* #346 is 35 ft. above ground.

Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
385	30-19	500	J. A. Smith	1058 Los Robles Ave., No. Whittier Heights
386	21-71	1500	R. A. Roblee	1 mi. beyond Summit of Latico Rd. to Ventura Bl. in Van O
387	31-11	545*	H. H. Snodgrass	125 E. College St., Covina
388	9-41	72	N. B. Hayden	347 So. Paramount Blvd., Hynes
389	43-35	825	Frank H. Brown	Cor. Penn. Ave. and Sierra Madre Ave., Glendora
390B	43-21	1210	Pasadena Water Dept.	Morris Dam, San Gabriel Canyon
391	29-08	205	Mrs. Zola Cotton	117 W. Washington Ave., Montebello
392	40-81	1330	C. W. Barton	2780 Page Drive, Altadena
393	26-92	238	F. K. Casey	4213 W. 2nd St., L. A.
394	40-28	680	Robert H. Lindsay	6425 Elgin St., L. A.
395	59-57	1425	R. N. Loomis	Olive View Sanitarium, San Fernando
396	48-03	1005	L. D. Bowlus	13781 Payton Ave., San Fernando
397	50-25	1835	Philip Bagus	9743 Tujunga Cn. Blvd., at Summit
398	56-85	6200	J. H. Warner 1935-36	14 mi. E. of Ice House Resort, San Antonio Canyon
399	39-54	583	Mrs. T. W. Preston 1935-36	330 N. Jackson St., Glendale
400	40-63	1010	H. J. Sievert 1935-36	Washington and Palm Terrace, Pasadena
401	50-29	2825	L. A. Co. Forestry 1935-36	Oakmont Fire Rd. on Verdugo Mountain
402	52-52	4700	B. H. Henry, Supt. 1935-36	State Prison Camp, E. of Barley Flats, San Gab. Mts.
403	40-90	1360	F. C. Lindvall	1860 Allen Drive, Altadena
404	39-54	653	John Opid 1935-36	811 No. Glendale Ave., Glendale
405	73-06	2250	James E. Nelson 1935-36	11.7 mi. E. of Mint Cn. on Soledad Canyon Rd.
508	51-27	1750	U. S. Forest Rangers	3 mi. from mouth in Arroyo Seco Canyon
517	27-55	330*	U. S. W. B.	S. W. Cor. 6th and Main Sts. L. A. on Roof
589	44-25	1400	Mrs. E. B. White	Mouth San Dimas Cn. Top of hill, E. edge of Canyon
593A	68-69	775	Hilme Metcher 1934-35	3.1 mi. W. of L. A. - Ventura Co. Line .4 mi. S. of Hwy.
593B	68-69	675	Hilme Metcher 1935-36	300 ft. N. of "A" Location
594	58-72	1270	A. B. Thatcher	So. Pacific Depot, Newhall
612	51-39	1181	Pasadena Water Dept.	1/4 mi. upstream from mouth Arroyo Seco Canyon.
618	V. Co.	980	J. K. Fuller	1 mi. W. of Santa Susana 5 mi. N.E. L. A. Ave.

* #387 is 38 ft. above ground. #577 is 87 ft. above.

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Sta. No.	Quad Index	Elev. U.S.G.S.	Observer	Location
351D-E	86-82	2648	H. P. Schoeller	Palmdale - 1 Blk. E. of Main Hwy.
352	21-21	1530	J. L. Ozanne 1934-35	4 mi. from Roosevelt Hwy. on Decker Rd.
353	42-26	458	R. T. Chew	Duarte Rd. at Buena Vista St. (Duarte)
354A	55-29	3100	M. H. Smith 1934-35	Divide bet. San Dimas and Big Dalton Canyons Baldy
354B	56-27	4527	M. H. Smith 1935-36	Divide bet. Cow and San Antonio Canyons 1 1/2 mi. S.W. Camp /
355	27-01	315*	Frank S. Trueblood	855 N. Vermont Ave., L. A.
356	31-86	675	Employees	Spadra Office - Diamond Bar Roh. .5 mi. SE Pomona Blvd.
357	59-08	1248	Operator L.A.W.D.	San Fernando Power Hse #5, N. of Upper San Fernando Res.
358B	77-16	4050	A. P. Aldrich	Pallett Creek 2 1/2 mi. N.W. Devils Punchbowl
359	27-36	220	L.A. City Eng. 1934-35	Polytechnic High School - Washington Blvd.
360	50-23	2250	M. R. Larson	Haines Canyon at Rock Crusher Plant
361A	51-14	3000	Forest Ranger 1934-35	6 mi. from Foothill Blvd., at C.O.C. Camp location
361B	51-14	2975	Forest Ranger 1935-36	6 mi. from Foothill Blvd. at C.O.C. Camp 300' N. of old /
362	40-23	1025	J. D. Hoffman	W. end of El Mirador Drive, Pasadena
363	59-54	2900	F. C. Employee 1934-35	3 mi. N. of Olive View Sanitarium, Wilson Canyon
364	50-23	2250	F. C. Employees	50 ft. E. USGS Gaging Sta. Haines Creek
365	50-62	5040	U.S.F.S. Rangers	Sister Elsie Peak
366	77-45	3740	L. F. Noble	1/2 mi. N.W. Valyermo 1/2 mi. S. Big Rock Cr. on Rd. to Big Pines
367	50-42	3450	F. C. Employees	At upper Fork near head of Haines Canyon
371	54-44	1750	F. C. Employees	N. Fork Gaging Sta. San Gabriel River
372	82-76	1580	Operator L.A.W.D.	San Francisquito Cn. 1.1 mi. N.E. of Saugus
373	50-76	2310	L. R. Bleitz	Briggs Terrace, Pickens Canyon
374	27-46	242*	Employees	L. A. Examiner, 11th and Broadway, L. A.
375	39-16	575	B. C. Gibson	Griffith Park Zoo, L. A.
376	76-50	3150	J. N. Booth	Little Rock, Juniper Hills
377A	33-55	900	Archie Lawrence 1934-35	1 mi. N. of Potrero Rd. 1.6 mi. from State Hwy by Rd. at /
377B	V. Co.	1030	H. R. Hovey 1935-36	300 ft. W. of Lake Sherwood - Ventura County
378	51-09	1350	Tom Hall	4874 Commonwealth Ave., La Canada
379	54-86	1500	F. C. Employees	2 mi. above confluence E & W Forks San Gabriel River
380	28-11	553	Geo. P. Morgan	4566 Bedillion St., L. A.
381A	25-08	100	Paul F. Knief 1934-35	Cor. 4th & Broadway "Outlook", Santa Monica
381B	25-08	100*	Paul F. Knief 1935-36	1245 4th St., Santa Monica Montebello Hse
382	29-16	425	W. S. Marks	Arroyo Dr. 3 mi. S. of Valley Bl. N. of Whittier Blvd. /
383E	49-24	970	L.A.W.D. Employees 1934-35	201 W. of Truesdale, 500' S. of Stonehurst Av. Stonehurst
384	39-98	655	F. B. Laverty	5332 Abbott Place, L. A.

* #354A moved to B 7-3-35 #355 is 20 ft. above ground #361A moved to B 12-6-34 #374 is 50 ft. above. #381A moved to B 5-7-35, is 15 ft. above ground.

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.
- Sp3* Standard type private 3" diameter.
- Sp5* Standard type private 5" diameter.
- GGG Special "can" gages using glass graduate for measuring.
- ow Gage owned by L. A. City Water Department.
- gg Uses glass graduate for measuring in place of stook.
- oo Gage owned by L. A. County but not the Flood Control District.
- Sp1 Special type gage.
- wb Gage owned by U. S. Weather Bureau.
- AP Automatic tipping bucket at U.S.W.B. L. A.

AUTOMATIC RAINGAGES

TABLE IV

1934-35 - 1935-36

F.C. No.	Name of Station	Size	Watershed	Remarks
4	Crags Co. Club	9"	Triunfo & Malibu	Gage removed-Nov.'34
6	Topanga Ranger Sta.	9"	Topanga Cn.	
10	Bel Air	9"	Stone Canyon	
15	Van Nuys Whse.	9"	L. A. River	
21	Brant Rancho	9"	L. A. River	
29	Granada	9"	L. A. River	
33A-E	Pacoima Dam	9"	Pacoima	
41	Alta Canyon	9"	Verdugo	Gage removed 1933
47A	Clear Creek	12"	Big Tujunga	
51	La Cienega	12"	San Gabriel No.Fk.	Gage removed-Nov.'35
53B	Colby Ranch	9"	Big Tujunga	
54	Loomis Ranch	12"	Big Tujunga	
57B-E	Opid's Camp	12"	San Gabriel W.Fk.	
60B	Winter Creek	9"	Big Santa Anita - Previously to Dec.'35 at Hoegge's Camp	
65	Sierra Madre	9"	Rio Hondo	
70E	Dalton No. 1	9"	San Gabriel	
75B-E	Robert's Relay Sta.	9"	San Gabriel - Prev.to 1930 at Edison Intake	
80	Prairie Forks	9"	San Gabriel	Gage removed -Dec'33
83-E	Big Pines Co. Park	9"	Desert	
85C	Camp Baldy	12"	San Antonio	
92	Pomona College	9"	San Antonio	
130	Sandbergs	9"	Piru Creek	Gage removed-Oct.'34
150	Monrovia Falls	9"	Sawpit	
158	Tanbark Flats	12"	San Dimas	
159	Orchard Camp	9"	Sierra Madre	
178	Azusa	9"	San Gabriel	
210B	Brand Park	9"	L. A. River	
213	Hancock Park	9"	Ballona	
228B	Beverly Hills	9"	Ballona	Private
235	Henninger Flats	9"	Eaton Canyon	
257	Griffith Park Nursery	9"	Ballona	
261E	Acton	9"	Santa Clara	
280	Flintridge Fire Sta.	9"	Arroyo Seco	
283a	Crystal Lake	12"	San Gabriel No.Fork	1935-36
289	Laguna Bell	12"	Rio Hondo	Private
290	Newmark	12"	L. A. River	Private
291	96th and Central	12"	L. A. River	Private
303	Cal. Tech.	9"	Alhambra Wash	
311	Sunset Reservoir	9"	Arroyo Seco	
334E	San Gabriel Dam No. 2	9"	San Gabriel W.Fork	
338	Mt. Wilson	12"	Various	
352	Lachuza Patrol Sta.	9"	Arroyo Sequis and Trancas	
359	Poly High School	9"	Ballona	Gage removed-Nov.'34
363	Wilson Canyon	9"	Pacoima	Gage removed-Oct.'34
365	Sister Elsie Peak	9"	Big Tujunga, etc.	
367	Upper Haines Cn.	9"	Big Tujunga	
373	Briggs Terrace	9"	Verdugo	
376	Little Rock	Spol	Juniper Hills	
380	El Sereno	9"	L. A. River	
400	Pasadena	9"	Rio Hondo	Private -1935-36
508	Arroyo Seco Rgr. Sta.	9"	Arroyo Seco	
577	U.S.W.B.	12"	L. A. River	
205	Puente S.C.E. Co.	Marvin	San Jose Cr.	U.S.W.B. Jan.1934 Gage
137	Curson Canyon	"	Ballona	" Mar.'34 Removed
347	Baldwin Park Exp. Sta.	"	San Gabriel	" " "

TABLE V
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Department

EVAPORATION RECORDS
IN INCHES

Season 1934-35

Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
23 Chatsworth	6.415	3.840	3.730	3.181	4.320	2.835	3.670	4.900	7.025	10.195	9.850	8.425	68.386
32 Newhall	6.235	3.930	3.155	2.585	3.985	3.750	4.695	6.830	8.900	9.705*	9.485*	8.085	71.340
33 Pacoima Dam	6.195	3.740	3.330	2.285	3.115	2.780	3.185	3.800	4.725	6.780	7.415	6.665	53.995
46 Big Tujunga	5.325	2.830	1.900	1.575	2.350	2.450	2.950	4.500	6.950	8.000	7.500	7.000	53.330
51 La Cienega	3.550	2.742	1.270	.645	.965	.710	1.550	2.680	5.165	6.870	7.270	4.255	37.672
57 Opid's	1.710	1.200	.240*	Frozen	.116°	.277°	1.822	2.625	4.485	5.580	5.320	4.195	27.570*
63 Santa Anita	6.395	4.275	4.080	3.275	4.410	3.470	3.730	4.465	6.135	9.025	9.205	7.265	65.730
70 Dalton	7.040	4.924	3.875	2.760	4.215	3.620	3.550	5.360	7.140	9.145	9.745	7.780	69.154
75 Edison Intake	4.145	2.945	1.850	1.615	1.970	2.620	3.130	4.095	6.780	8.020	7.850	6.655	51.675
83 Big Pines Pk.	4.340	2.450	-	-	-	-	-	6.125	9.245	9.795	8.593	6.948	47.496*
85 Camp Baldy	4.395	2.530	1.790	1.825	2.645	2.570	3.158	4.140	6.710	7.625	6.825	Removed	44.213
89 San Dimas Dam	7.280	2.975	1.685	.640	.575	.650	.645	1.250	2.775	3.020	4.870	5.390	31.755
96 Puddingstone	6.460	3.670	3.495	2.720	2.630	3.325	3.840	5.730	6.720	9.485	9.845	7.685	65.625
128 Radium Hot Spg.	6.930	4.270	3.160	2.485	3.200	3.565	4.908	6.245	10.085	11.460	10.600	9.500	76.408
157 El Segundo	4.595	3.605	3.090	3.240	3.840	4.385	5.255	6.705	5.970	8.090	7.725	5.955	62.455
223 Big Dalton	7.025	3.770	3.520	2.870	4.165	3.250	4.425	5.725	8.300	10.450	10.425	7.825	71.750
248 W. Saddle Pk.	4.410	2.485	1.510	.960	2.350	2.140	2.990	4.595	6.270	8.150	7.445	6.200	49.505
261 Acton (near)	7.710	4.565	3.915	2.940	3.990	4.010	5.385	8.020	11.805	13.005	11.670	10.240	87.255
265 Puente Hills	3.870	2.110	1.525	1.465	1.835	1.600	2.595	4.085	5.190	6.855	6.925	5.255	43.510
268 Torrance	4.575	1.715	1.125	.400	1.840	2.805	3.955	6.055	6.055	8.150	7.610	5.875	50.160
292 Encino - F. G.	7.840	4.510	3.795	2.710	4.230	3.945	5.585	7.255	8.975	11.900	11.980	9.560	82.345
" USWB	7.344	3.252	2.844	1.824	2.124	3.444	5.100	5.970	8.376	11.664	11.784	8.148	71.880
" Lake	6.528	3.384	2.904	1.644	2.172	2.628	3.624	5.604	7.188	8.976	8.856	7.284	60.792
303 Gal Tech	-	-	-	-	-	-	Moved to #383	12-4-34	-	-	-	-	-
305 Arroyo Sequis	-	-	-	-	-	-	Moved to #334	San Gabriel Dam #2	-	-	-	-	-
321 Pine Cn. Patr.	6.513	3.627	3.187	2.804	3.375	3.713	4.854	7.195	14.075	12.450	10.515	9.845	82.153
347 Baldwin Pk. FC	4.250	2.650	2.190	1.770	2.710	3.090	4.390	6.375	8.520	10.190	9.635	7.345	63.115
" USWB	4.430	2.490	2.210	1.940	2.940	3.200	4.450	5.920	7.480	9.400	8.820	6.660	59.940
" 6 ft.	3.430	2.130	1.710	1.410	2.220	2.480	3.510	4.910	6.220	7.780	7.220	5.460	48.480
" 2 ft.	4.260	2.660	2.230	1.700	2.640	2.900	4.070	5.700	7.120	9.130	8.570	6.410	57.390
383 Truesdale Gravel Pit	-	-	NI	2.052	3.515	3.435	4.050	5.800	8.1-35	moved to #2	No Obs.	NI	Ino.
351 Palmdale	6.775	3.540	1.795	1.585*	2.635	3.860	6.755	10.720	15.545	16.365	13.395	11.725	94.695
354 San Gab. Dam #2	NI	NI	NI	1.655	3.320	3.450	4.415	5.560	7.895	9.890	10.015	9.005	55.205

x Partly estimated ° Partly frozen
NI Not Installed + Incomplete

TABLE VI
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Department

EVAPORATION RECORDS
IN INCHES

Season 1935-36

Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
23 Chatsworth	7.680	4.865	4.585	4.985	2.165	4.735	5.140	8.425	9.540	10.625	10.170	8.460	81.375
32 Newhall	7.005	4.030	3.765	3.705	2.630	4.900	4.950	8.555	9.370	10.135	10.265	8.455	77.765
33 Pacoima Dam	5.810	4.290	3.610	3.340	1.930	4.280	4.530	5.510	5.515	6.705	7.110	7.985	60.555
46 Big Tujunga	5.675	2.975	2.585	2.450	1.250	4.025	4.350	6.900	7.650	8.800	9.250	7.575	63.485
51 La Cienega	3.315	1.065	Ina.	Removed	-	-	-	-	-	-	-	-	Ino.
57 Opid's	5.560	2.190	.698*	1.284°	.625°	2.047°	2.662°	5.475	6.052	8.046	7.310	6.205	48.154°
63 Santa Anita	6.710	5.185	4.585	4.285	2.350	4.780	4.620	6.970	7.365	8.365	8.320	7.735	71.270*
70 Dalton	7.183	5.552	4.745	4.340	2.407	4.506	4.710	7.600	8.855	10.150	9.845	8.820	78.713
75 Edison Intake	5.280	3.130	2.415	2.155	1.395	3.639	4.060	6.150	7.350	7.915	8.475	7.620	59.584
83 Big Pines Pk.	6.380	3.260	.941	Ina.	No rods.	kept-Frozen	8.415	9.050	8.388	8.922	8.710	54.066*	
85 Camp Baldy	-	-	-	-	-	-	Removed	-	-	-	-	-	-
89 San Dimas Dam	5.220	3.232	1.943	1.861	.785	2.632	2.615	4.424	5.308	6.255	7.260	7.010	48.545
96 Puddingstone	6.685	5.190	4.350	3.965	2.455	3.866	4.655	7.610	8.605	10.100	10.775	9.240	77.496
128 Radium Hot Spg.	7.345	3.695	3.410	3.140	1.680	4.980	5.850	8.745	10.095	11.585	11.295	9.705	81.525
157 El Segundo	5.740	3.835	3.270	3.480	3.030	5.155	4.975	7.460	7.750	8.050	7.515	6.500	66.760
223 Big Dalton	6.500	4.125	3.275	2.875	1.850	4.050	4.100	7.000	8.235	9.325	9.550	8.450	69.335
248 W. Saddle Pk.	4.635	2.725	2.180	2.090	1.125	3.345	3.560	5.950	7.090	7.810	7.575	6.190	54.275
261 Acton (near)	7.800	5.537	4.638	4.750	2.210	6.000	6.530	10.125	11.340	13.040	13.215	10.820	96.005
265 Puente Hills	4.700	3.080	2.800	2.505	1.460	2.700	3.420	5.640	5.940	6.880	7.035	5.740	51.900
268 Torrance	4.895	2.145	1.360	1.720	1.765	3.910	4.485	7.170	7.640	8.375	8.000	6.860	58.285
292 Encino - F. G.	7.625	4.815	3.890	4.210	2.225	5.315	6.405	9.845	10.940	12.185	12.425	10.575	90.455
" USWB	7.044	3.768	3.240	3.936	2.592	4.680	5.736	8.508	9.672	11.172	11.064	9.396	80.808
" Lake	6.300	3.264	2.880	2.772	2.784	3.828	4.668	7.284	8.244	9.360	9.288	7.944	68.616
321 Pine Cn. Patr.	7.500	3.938	2.615	2.635	2.215	5.145	6.275	8.885	10.485	11.550	11.660	9.400	82.303
347 Baldwin Pk. F.C.	6.125	3.425	2.450	2.325	2.075	3.675	4.705	8.490	9.760	10.290	9.565	7.560	70.445
" USWB	5.640	3.280	2.380	2.450	2.360	3.780	4.940	7.780	8.920	8.980	8.350	6.670	65.530
" 6 ft.	4.600	2.620	1.840	1.770	1.700	2.930	3.810	6.490	7.260	7.540	7.040	5.600	53.200
" 2 ft.	5.280	2.990	2.190	2.050	1.890	3.120	4.050	7.290	8.110	8.480	7.800	6.310	59.560
351 Palmdale	7.705	4.115	3.115*	3.680	2.195	6.695	7.655	11.425	13.330	15.150	14.645	11.575	101.285
354 Dam No. 2	7.180	4.129	3.050	2.915	1.425	4.325	4.600	6.165	9.825	11.700	11.510	10.005	76.829

* Partly frozen

TABLE VII
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT
COMPARATIVE MAXIMUM RAINFALL INTENSITIES IN INCHES.

		5 min. 10 min. 30 min. 1 hr. 2 hrs. 12 hrs. 24 hrs.							Total Storm	Remarks
Los Angeles (USWB) 1934-35	Amt.	.41	.45	.85	.96	1.52	2.50	2.75	2.75	
	Date	1-5-35	1-5-35	10-17-34	10-17-34	4-8-35	4-8-35	4-7,8-35	4-7,8-35	
1935-36	Amt.	.21	.31	.42	.62	.86	1.15	1.43	4.85	
	Date	2-14-36	2-14-36	2-14-36	2-14-36	2-14-36	2-12-36	2-12,13-36	2-10,16-36	
Max. of Record	Amt.	.44	.65	1.12	1.51	1.99	4.45	7.38	8.27	
	Date	1-14-08	2-18-14	2-18-14	2-18-14	2-18-14	2-23-13	12-31-33	12-31,33 - 1-1-34	
Van Nuys Warehouse	Amt.	.19	.28	.55	.80	1.15	1.48	2.12	3.14	
1934-35	Date	1-5-35	1-5-35	1-5-35	1-5-35	1-5-35	12-13	12-12,13-34	12-13,14-34	
1935-36	Amt.	.07	.10	.18	.31	.48	1.37	1.43	3.88	
	Date	2-15-36	2-15-36	4-3-36	2-22-36	11-17-35	2-12-36	2-12,13-36	2-11,16-36	
Max. of Record	Amt.	.24	.31	.55	.82	1.27	5.29	6.94	7.85	
	Date	2-3-31	2-3-31	1-5-35	2-3-31	2-3-31	12-31-33	12-31-33	12-30-33	
							1-1-34	1-1-34	1-1-34	
Azusa-Griffith	Amt.	.24	.35	.77	1.10	1.73	4.08	4.65	5.55	
1934-35	Date	10-17-34	10-17-34	10-17-34	10-17-34	10-17-34	10-17-34	10-17,18-34	10-17,18-34	
1935-36	Amt.	.30	.40	.64	.89	1.10	1.71	2.64	7.20	
	Date	2-11-36	2-11-36	2-11-36	2-11-36	2-11-36	2-12-36	2-11,12-36	2-11,16-36	
Max. of Record	Amt.	.30	.40	.77	1.10	1.73	5.99	8.27	12.02	
	Date	2-11-36	2-11-36	10-17-34	10-17-34	12-31-33	12-31-33	12-31-33	12-31-33	
						1-1-34	1-1-34	1-1-34	1-1-34	
Pomona College	Amt.	.23	.29	.58	.80	1.22	2.64	3.39	5.03	Std.
1934-35	Date	10-17-34	10-17	10-17	10-17	10-17	10-17-34	10-17,18-34	10-17,18	
1935-36	Amt.	.17	.24	.54	.86	1.36	1.60	1.77	6.07	Std.
	Date	2-2-36	2-12-36	2-12-36	2-12-36	2-12-36	2-12-36	2-11,12-36	2-11,16-36	
Max. of Record	Amt.	.23	.29	.58	.92	1.47	4.35	7.86	8.87	
	Date	10-17-34	10-17-34	10-17-34	1-1-34	1-1-34	12-31-33	12-31-33	12-31-33	
							1-1-34	1-1-34	1-1-34	

COMPARATIVE MAXIMUM INTENSITIES IN INCHES

		5 min. 10 min. 30 min. 1 hr. 2 hrs. 12 hrs. 24 hrs.							Storm Total	Remarks
Opids Camp	Amt.	.58	.66	.80	1.04	1.85 ^x	4.95 ^x	5.90 ^x	9.18*	.51" in 1 min.
1934-35	Date	4-8-35	4-8-35	4-8-35	4-8-35	10-17-34	10-17-34	10-17	12-12,	4.59a-5.00a
								18-34	14-34	4-8-35
1935-36	Amt.	.18	.25	.52	.85	1.45	4.19 ^x	5.34 ^x	12.77*	
	Date	2-12-36	2-12-36	2-12-36	2-12-36	2-12-36	2-2-36	2-1,2-36	2-10,16-36	
Max. of Record	Amt.	1.17	1.18	1.43	2.16	3.44	8.50	14.00	21.34	1.03" in 1 min.
	Date	4-5-26	4-5-26	4-5-26	4-5-26	4-5-26	4-5-26	12-31-33	4-4-26	4.48a-4.49a
								1-1-34	4-8-26	4-5-26
from Dec. '34 on only	Amt.	.41	.47	.80	1.47	1.72	2.68	6.07	6.90*	
Roegees Camp	Date	4-29-35	4-29-35	1-5-35	4-8-35	1-5-35	2-4,5-35	4-7,8-35	12-11,14-34	
from Dec. '35 on only	Amt.	.24	.34	.60	.97	1.46	4.09	4.31	15.74*	
Winter Creek	Date	2-12-36	2-12-36	2-12-36	2-2-36	3-30-36	2-12-36	2-12,13-36	2-10,16-36	
1935-36	Amt.	.41	.47	.80	1.47	1.84	9.45	13.83	17.07	
Max. of Record	Date	4-29-35	4-29-35	1-5-35	4-8-35	12-31-33	12-31-33	12-31-33	12-30-33	
								1-1-34	1-1-34	
Robts. Relay Sta. '34-'35 (Eden. IN.)	Amt.	.26	.44	.60	.96	1.74	3.93	4.22	5.83*	
1934-35	Date	1-5-35	1-5-35	4-8-35	4-8-35	4-8-35	4-7,8-35	4-7,8-35	10-16,18-34	
1935-36	Amt.	.29	.43	.59	.89	1.39	3.10 ^x	3.82	10.80*	.22" in 1 min.
	Date	2-11-36	2-11-36	2-11-36	2-22-36	2-22-36	2-11-36	2-1,2-36	2-11,19-36	4.25p-4.26p
Max. of Record	Amt.	.60	.62	1.04	1.18	1.74	4.47	6.39	12.07	2-11-36
	Date	4-5-26	4-5-26	4-5-26	4-5-26	4-8-35	12-13-33	4-5-26	4-4,8-26	
Anton-Mellen	Amt.	.29	.41	.43	.44	.57	1.38	1.72	1.72	
1934-35	Date	8-26-35	8-26-35	8-26-35	8-26-35	3-2-35	3-2-35	3-2-35	3-2-35	
1935-36	Amt.	.14	.17	.24	.25	.36	.80	.87	2.24	
	Date	2-22-36	2-22-36	2-22-36	2-12-36	2-12-36	2-12-36	2-12-36	2-11,16-36	
Max. of Record	Amt.	.29	.41	.66	.72*	1.55	2.24	2.78		
	Date	8-26-35	8-26-35	10-1-32	10-1-32	2-8-32	2-8-32	2-2-32		
Topanga Canyon	Amt.	.28	.42	1.12	1.46	1.83	2.75	3.18	4.04	
1934-35	Date	1-5-35	1-5	1-5	1-5	1-5	47-35	4-7,8-35	11-15,19-34	
1935-36	Amt.	.20	.22	.54	.80	1.16	1.66	2.00	7.59	Sta.
	Date	2-12-36	2-12-36	2-22-36	12-29-35	12-29-35	2-22-36	2-1-36	2-10,16,36	
Max. of Record	Amt.	.28	.42	1.12	1.52	2.72	9.69	13.44	16.03	
	Date	1-5-35	2-12-36	2-22-36	12-31-33	12-31-33	12-31-33	12-31-33	12-29-33	

x Estimate, gage not working properly.
* Std. gage



- LEGEND**
- Flood Control Standard Gages
 - Flood Control Automatic & Standard Gages
 - ▲ Flood Control Standard Gage Active - Automatic Gage Inactive
 - ◆ United States Weather Bureau Standard Gage
 - ⊕ United States Weather Bureau Automatic Gage
 - ▲ Private Gage, Standard Type
 - ⊕ Private Gage, Automatic Type
 - Flood Control Automatic & Private or U.S. Weather Bureau Standard
 - Flood Control Automatic Active - U.S. Weather Bureau Automatic Inactive
 - An Inactive Gage is Shown by Encircling the Symbol
 - ② at a Station Denotes a Flood Control Evaporation Tank
 - Capital Letters A, B, etc. Following a Station Number Denote Successive Locations of a Gage in a Locality
 - Lower Case Letters a, b, etc. Following a Station Number Denote Central Gages Operated Simultaneously by a Single Observer.
- Note: Where necessary to use two symbols the Location is Designated by the "Active" symbol.*
- Note: Inactive Flood Control Gages have been Removed*

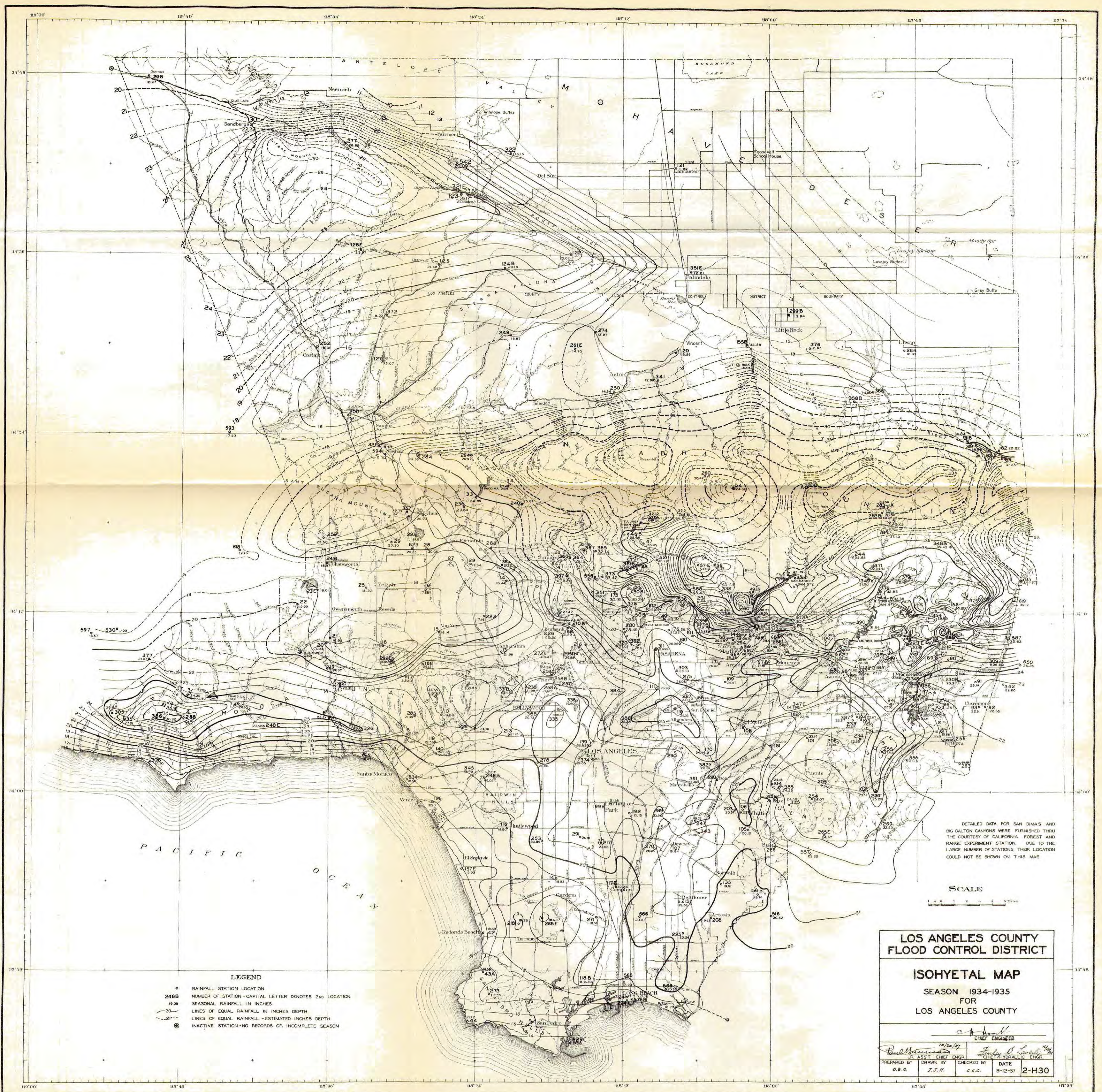
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

LOCATION OF RAIN GAGES AND EVAPORATION TANKS OF WHICH THE DISTRICT HAS A RECORD-SEPT 1936

APPROVED BY *C. M. Smith* CHIEF ENGINEER

RECOMMENDED BY *John B. Smith* DATE 11-14-34 No. 2-H23

JOHN B. SMITH JR. ASST. CHIEF ENGR. REV. 9-30-38



LEGEND

- RAINFALL STATION LOCATION
- 248B NUMBER OF STATION - CAPITAL LETTER DENOTES 2nd LOCATION
- 19.05 SEASONAL RAINFALL IN INCHES
- 20— LINES OF EQUAL RAINFALL IN INCHES DEPTH
- 27- LINES OF EQUAL RAINFALL - ESTIMATED INCHES DEPTH
- ⊙ INACTIVE STATION - NO RECORDS OR INCOMPLETE SEASON

DETAILED DATA FOR SAN DIMAS AND BIG DALTON CANYONS WERE FURNISHED THROUGH THE COURTESY OF CALIFORNIA FOREST AND RANGE EXPERIMENT STATION. DUE TO THE LARGE NUMBER OF STATIONS, THEIR LOCATION COULD NOT BE SHOWN ON THIS MAP.

SCALE
 1 2 3 4 5 Miles

**LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT**

ISOHYETAL MAP
 SEASON 1934-1935
 FOR
 LOS ANGELES COUNTY

C. A. Hall
 CHIEF ENGINEER

Paul H. ...
 ASST. CHIEF ENGINEER

...
 CHIEF HYDROLOGIC ENGINEER

PREPARED BY: *c.e.c.* DRAWN BY: *J.J.H.* CHECKED BY: *c.e.c.* DATE: 8-12-37 2-H30



LEGEND

- Flood Control Standard Gages
- Flood Control Automatic & Standard Gages
- ◆ Flood Control Standard Gage Active - Automatic Gage Inactive
- United States Weather Bureau Standard Gage
- ◆ United States Weather Bureau Automatic Gage
- ▲ Private Gage, Standard Type
- ◆ Private Gage, Automatic Type
- ◆ Flood Control Automatic & Private or U.S. Weather Bureau Standard
- ◆ Flood Control Automatic - U.S. Weather Bureau Automatic Inactive
- An Inactive Gage is Shown by Encircling the Symbol
- ② at a Station Denotes a Flood Control Evaporation Tank
- Capital Letters A, B, etc. Following a Station Number Denote Successive Locations of a Gage in a Locality
- Lower Case Letters a, b, etc. Following a Station Number Denote Several Gages Operated Simultaneously by a Single Observer
- Note: Where necessary to use two symbols the Location is Designated by the "Active" symbol.
- Note: Inactive Flood Control Gages have been removed.

246 8-NUMBER OF STATION - CAPITAL LETTER DENOTES 2ND LOCATION
 180 3-SEASONAL RAINFALL, IN INCHES
 ---LINES OF EQUAL RAINFALL IN INCHES DEPTH
 ---LINES OF EQUAL RAINFALL - ESTIMATED INCHES DEPTH
 ○ INACTIVE STATION - NO RECORDS OR INCOMPLETE SEASON

DETAILED DATA FOR SAN DIMAS AND BIG DALTON CANYONS WERE FURNISHED THROUGH THE COURTESY OF CALIFORNIA FOREST AND RANGE EXPERIMENT STATION. DUE TO THE LARGE NUMBER OF STATIONS THEIR LOCATION COULD NOT BE SHOWN ON THIS MAP.



**LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT**

ISOHYETAL MAP
SEASON 1935-1936
FOR
LOS ANGELES COUNTY

C. H. Arnold
CHIEF ENGINEER

10/20/37
Prepared by: J. J. H. (J.J.H.)
Checked by: C. C. C. (C.C.C.)
Date: 8-12-37 2-H31

DAM OPERATION RECORDS

The first dam constructed by the Flood Control District at Devil's Gate near Pasadena, was completed in 1920. Subsequent to that time, ten additional flood control and conservation dams have been built and placed in operation. This number does not include Sierra Madre Dam and Sunset Dam as these structures were built primarily for debris retardation.

Puddingstone Diversion Dam is also not included in the above number of major dams. It functions primarily to divert water released from San Dimas Reservoir through a concrete channel to Puddingstone Reservoir.

The total conservation capacity of the eleven major dams is 50,400 acre feet. Completion of San Gabriel Dam No. 1 and Eaton Wash Debris Dam will increase the total available conservation storage to 107,400 acre feet.

In addition to the major dams and debris dams mentioned, the District maintained the following debris basins during all or a portion of the period covered by this report: Haines, Dunsmuir, Pickens, Hall-Beckley and Verdugo in the La Crescenta District; Brand Canyon near Glendale, and Lincoln, Fern, West Ravine, Fair Oaks and Las Flores as temporary structures in the Altadena area. As no storms of major consequence occurred during the seasons covered by this report, the releases from the reservoirs were so regulated that they could either be diverted for irrigation or spread in channels or in the several District operated Spreading Grounds. Therefore, none of the inflow into these reservoirs, totaling 54,200 acre feet for the period, was wasted into the ocean.

Dam operation and maintenance are under the direction of F. B. Laverty, Chief Hydraulic Engineer; W. J. Wood, Assistant Chief Hydraulic Engineer; and F. H. Hay, Maintenance and Operation Engineer. Compilation and preparation of records for this report has been done by H. A. van der Goot and M. W. Ransom.

Los Angeles County Flood Control District
Hydraulic Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - Big Dalton Dam Bond Issue - 1924
Location - Big Dalton Canyon Drainage Area - 4.49 sq. mi.
Stream - Big Dalton Creek from elev. 1711.0 to elev. 3636.0
Purpose - Flood Control and Conservation
Type - Concrete - Multiple Arch - Gravity Abutments

DIMENSIONS:
Crest Ht. above orig. streambed 126.0 ft.
Crest Ht. above foundation 170.20 ft. Total Vol. of Concrete 45,049 c.y.
Crest Length 480.0 ft. Character of Foundation - Granite
Crest Width 5.0 ft. and Diorite
Ht. of Parapet Wall 3.0 ft.
Base Thickness of Buttress 195.0 ft.

EXCAVATION AND FILL:
Total Vol. of Excav. 108,817 c.y.

OUTLETS:

No.	Type	Size	Inlet Elev.	Outlet Elev.	Area	Max. Disch.	at Elev.	W. S.
A	Sluice Gate	3'x3'	1576.0	1569.0	7.07 sq.ft.	400 cfs	1711.0	
B	Gate Valve	4"	1591.0		.087 sq.ft.	-	-	
1	Pelton Valve	42"	1614.0	1613.0	9.62 sq.ft.	510 cfs	1711.0	
2	Butterfly Valve	48"	1640.0	1613.0	12.58 sq.ft.	645 cfs	1711.0	
3	Butterfly Valve	48"	1670.0	1613.0	12.58 sq.ft.	565 cfs	1711.0	

SPILLWAY:
No. Type Elev. Length Disch. at Elev.
1 Open C.G. Weir 1497.0 20 370 cfs 1500 ft.

ELEVATIONS AND CAPACITIES:

	Elev.	Storage	Spillway	Sill Elev.	Storage
Orig. streambed	1565.0 ft.	0 a.f.	1706.0 ft.	1706.0 ft.	1053.4 a.f.
Lowest Excav.	1541.0 ft.	0.0 a.f.	Valve #A	1575.0 ft.	0.0 a.f.
Crest	1711.0 ft.	1175.3 a.f.	Valve #B	1591.0 ft.	0.5 a.f.
Top of Parapet	1714.0 ft.	1250.2 a.f.	Valve #1	1612.0 ft.	19.1 a.f.
Assmd. H.W.Line	1711.0 ft.	1175.3 a.f.	Valve #2	1638.0 ft.	100.0 a.f.
			Valve #3	1668.0 ft.	371.8 a.f.

CONSTRUCTION:
Began - Dec. 1927 Constructed by Rohl Contracting Co.
Completed Aug. 1929 Resident Engineer - B. R. Metcalf
Designer & Comput. - L.A.C.F.C.D. Design Dept.

Cost \$1,020,525.07
Cost per a.f. F. C. 868.31
Cost per a.f. Conserv. 968.72

REMARKS:
Capacities corrected to U.S.F.S. Survey Nov. 1934 with streambed Elev. 1590. Costs per a.f. based on original capacities.

Comp. H.A.V. & M.W.R. Hydraulic Dept.
Checked E.C.V. Design Dept.
Revised Sept. 1937

Approved by *[Signature]* Chief Engineer
Date SEP 29 1937

Los Angeles County Flood Control District
Hydraulic Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - Live Oak Dam Bond Issue - 1917
Location - 2.5 mi. N.E. of La Verne Drainage Area - 2.30 sq. mi.
Stream - Live Oak Creek from elev. 1500.0 to elev. 3694.0
Purpose - Flood Control and Conservation
Type - Concrete, Gravity, Arched in plan

DIMENSIONS:
Crest Ht. above orig. streambed 70.0 ft. Total Vol. of Excav. 12,985 c.y.
Crest Ht. above foundation 80.0 ft. Total Vol. of Concrete 11,735 c.y.
Crest Length 303.0 ft. Character of Foundation - Granite
Crest Width (net) 6.0 ft.
Ht. of Parapet Wall 2.0 ft.
Base Thickness 52.0 ft.

EXCAVATION AND FILL:
Total Vol. of Excav. 12,985 c.y.
Total Vol. of Concrete 11,735 c.y.
Character of Foundation - Granite

OUTLETS:

No.	Type	Size	Inlet Elev.	Outlet Elev.	Area	Max. Disch.	at Elev.	W. S.
A	Circ. Gate Valve	10" dia.	1431.0	1431.42	0.54	411 cfs	1500 ft.	
B	Sluice Gate	36"x42"	1444.0	1422.80	20.0	Max.	1500 ft.	

SPILLWAY:
No. Type Elev. Length Disch. at Elev.
1 Open C.G. Weir 1497.0 20 370 cfs 1500 ft.

ELEVATIONS AND CAPACITIES:

	Elev.	Storage	Spillway	Sill Elev.	Storage
Orig. streambed	1430.0 ft.	0 a.f.	1497.0 ft.	1497.0 ft.	242.1 a.f.
Lowest Excav.	1420.0 ft.	0 a.f.	Valve #A	1431.25 ft.	0 a.f.
Crest	1500.0 ft.	274.9 a.f.	Valve #1	1442.25 ft.	0 a.f.
Top of Parapet	1502.0 ft.	226.7 a.f.	Assmd. H.W.L.	1500.0 ft.	274.9 a.f.

CONSTRUCTION:
Began - Aug. 1921 Constructed by C. H. Hudson
Completed - Nov. 1922 Resident Engineer - Ray Borthick
Cost \$185,663.13 Designer - L.A.C.F.C.D. Design Dept.
Cost per a.f. of F.C. 4658.38 Computations - L.A.C.F.C.D. Design Dept.
Cost per a.f. Conserv. 3743.84

REMARKS:
Capacities corrected to U.S.S.C.S. Survey of Mar. 1936
Present streambed elevation 1442.0 ft.
Costs per a.f. based on original capacities.

Approved by *[Signature]* Chief Engineer
Date SEP 29 1937

Comp. HAV Hydraulic Dept.
Checked ECV Design Dept.
Compiled January 1936
Revised Sept. 1937

Los Angeles County Flood Control District
Hydraulic Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - Devil's Gate Dam Bond Issue - 1917
Location - On Arroyo Seco N.W. of Pasadena Drainage Area - 30.62
Stream - Arroyo Seco from elev. 1070.0 to elev. 6152.0
Purpose - Flood Control and Conservation
Type - Concrete Gravity, Arched in plan - Radius of Upstream face = 400'

DIMENSIONS:
Crest Ht. above orig. streambed 100.0 ft. Total Vol. of Excav. - 20,000 c.y.
Crest Ht. above foundation 130.0 ft. Total Vol. of Concrete - 34,000 c.y.
Crest Length 310.0 ft. Character of Foundation - Granite
Crest Width Roadway 30.5 ft.
Ht. of Parapet Wall 4.5 ft.
Base Thickness 99.0 ft.

EXCAVATION AND FILL:
Total Vol. of Excav. - 20,000 c.y.
Total Vol. of Concrete - 34,000 c.y.
Character of Foundation - Granite

OUTLETS:

No.	Type	Size	Sill Elev.	Inlet Elev.	Outlet Elev.	Area	Max. Disch.	at Elev.	W. S.
A	Circ. Gate Valve	28"	927.5		3.14 sq.ft.				
B	Slide Gates	7'x10'	1007.0	953.8	140.0 sq.ft.	5700 cfs	1070.0		

SPILLWAY:
No. Type Elev. Length Disch. at Elev.
I Open Weir 1054.0 68.86
II 8 semi-circ. openings 1065.5 3' radius

ELEVATIONS AND CAPACITIES:

	Elev.	Storage	Spillway	Sill Elev.	Storage
Orig. streambed	970.0 ft.	0 a.f.	1054.0 ft.	1054.0 ft.	4014.6 a.f.
Lowest Excav.	940.0 ft.	0 a.f.	Spillway #2	1065.5 ft.	6031.4 a.f.
Crest	1070.0 ft.	6956.5 a.f.	Valve #A	987.6 ft.	0 a.f.
Top of Parapet	1074.5 ft.	- a.f.	Valve #1&2	1007.0 ft.	74.7 a.f.
			Assumed HWL	1072.0 ft.	7367.8 a.f.

CONSTRUCTION:
Began - May 1919 Constructed by Bent Bros.
Completed - June 1920 Resident Engr. R. A. Borthick
Cost \$483,943.37 Designer - M. Sasso & others
Cost per a.f. Conserv. 120.55 Computations - B. R. Metcalf
Cost per a.f. F. C. 81.63

REMARKS:
Capacities corrected to L.A.C.F.C.D. Survey - Nov. 1934 with streambed elev. 1001.55 ft.
Datum for elev. L.A.C.F.C.D.
Costs per a.f. based on survey prior to October 17, 1934.

Comp. HAV & MWR Hydraulic Dept.
Checked by ECV Design Dept.
Compiled January 1936
Revised Sept. 1937

Approved by *[Signature]* Chief Engineer
Date SEP 29 1937

Los Angeles County Flood Control District
Hydraulic Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - Pacoima Dam Bond Issue - 1924
Location - Pacoima Cr. 4 mi. N.E. San Fernando Drainage Area - 27.77 sq. mi.
Stream - Pacoima Creek from elev. 2015 to elev. 6503
Purpose - Flood Control and Conservation
Type - Concrete, Constant Angle Arch - Gravity Abutments

DIMENSIONS:
Crest Ht. above orig. streambed 365.0 ft. Total Vol. of Excav. 105,927 c.y.
Crest Ht. above foundation 372.4 ft. Total Vol. of concrete 226,140 c.y.
Crest Length 640.0 ft. Character of Foundation - Granite
Crest Width 10.4 ft.
Ht. of Parapet Wall 0.75 ft.
Base Thickness 100.0 ft.

EXCAVATION AND FILL:
Total Vol. of Excav. 105,927 c.y.
Total Vol. of concrete 226,140 c.y.
Character of Foundation - Granite

OUTLETS:

No.	Type	Size	Inlet Elev.	Outlet Elev.	Area	Max. Disch.	at Elev.	W. S.
A	Gate Valve	18" dia.	1664.17		.087			
B	Gate Valve	18" dia.	1669.75	1670.0	1.77	151.0 cfs	2015.0 ft.	
1	Gate Valve	30" dia.	1700.00	1700.0	4.91	416.0 cfs	2015.0 ft.	
2	Pelton Needle	30" dia.	1750.00	1750.0	4.91	398.0 cfs	2015.0 ft.	
3	Pelton Needle	30" dia.	1800.00	1800.0	4.91	365.0 cfs	2015.0 ft.	

SPILLWAY:
No. Type Elev. Length Disch. at Elev.
1 Tunnel 1950.0 12,400 cfs 2015.0 ft.
2 Tunnel 1990.0 (combined)

ELEVATIONS AND CAPACITIES:

	Elev.	Storage	Spillway	Sill Elev.	Storage
Orig. streambed	1650.0 ft.	0 a.f.	1950.0 ft.	1950.0 ft.	5592.0 a.f.
Lowest excav.	1642.6 ft.	0 a.f.	Spillway #2	1990.0 ft.	8684.0 a.f.
Crest	2015.0 ft.	11201.0 a.f.	Valve #A	1664.0 ft.	0 a.f.
Top of Parapet	2015.75 ft.	11284.1 a.f.	Valve #B	1669.0 ft.	0 a.f.
Assmd. H.W.L.	2015.0 ft.	11201.0 a.f.	Valve #1	1698.75 ft.	0 a.f.
			Valve #2	1748.75 ft.	59.9 a.f.
			Valve #3	1728.75 ft.	460.3 a.f.

CONSTRUCTION:
Began - Mar. 1925 Constructed by Bent Bros.
Completed - Feb. 1929 Designer - Constant Angle Arch Co.
Cost \$2,466,738.28 Resident Engineer - K. J. Harrison
Cost per a.f. F. C. 206.85 Computations - B. F. Jakobsen
Cost per a.f. Conserv. 407.09 K. J. Harrison

REMARKS:
Capacities corrected to L.A.C.F.C.D. Survey of Jan. 1936 with streambed elevation - 1720.0
Costs based on original capacities.

Comp. HAV Hydraulic Dept.
Checked ECV Design Dept.
Compiled January 1936
Revised Sept. 1937

Approved by *[Signature]* Chief Engineer
Date SEP 29 1937

Los Angeles County Flood Control District
Hydraulic Department
FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - Puddingstone Dams #1,2,3 Drainage Area - 39.16 sq. mi.
Location - 1 mi. S. of San Dimas from elev. 982 to elev. 5586.0
Stream - Puddingstone Creek above mean sea level
Purpose - Flood Control and Conservation Upstream slopes vary from 3:1 to 2:1. Downstream slopes vary from 3:1 to 2:1
Type - Three earthen dams with concrete face and concrete core wall.

DIMENSIONS:
Crest Ht. above orig. streambed 147.0 ft. 47.5 ft. 58.0 ft. Total Vol. of excoav. (stripping) 25,169 c.y.
Crest Ht. above foundation 182.0 ft. 63.0 ft. 72.0 ft. Total Vol. earthfill 41,117 c.y.
Crest Length 1085.0 ft. 785.0 ft. 826.0 ft. Total Vol. concrete 12,154 c.y.
Crest Width 25.0 ft. 25.0 ft. 25.0 ft. Character of Foundation - Sand-Base Thickness 910.0 ft. 250.0 ft. 220.0 ft. stone and Puddingstone.

OUTLETS:
No. Type Size Sill Elev. Inlet Outlet Area Max. Disch. at W. S. Elev.
1 & 2 Slide Gates 21x5' 884.0 882.64 28.0 1000 cfs combined 975.0

SPILLWAY:
No. Type Sill Elev. Length Max. Disch. at W. S. Elev.
1 Open C.G. Section 970.0 182.0 8100 cfs 975.0

ELEVATIONS AND CAPACITIES:
Orig. streambed 325 ft. 0 a.f. Spillway #1 970 ft. 17,398 a.f.
Lowest excoav. 800 ft. 0 a.f. Valve #1 884 ft. 382.8 a.f.
Crest 982 ft. - Assumed H.W.L. 975 ft. 20,012 a.f.

CONSTRUCTION:
Began - February 1925 Constructed by C. H. Richards and Paul Construction Co.
Completed - Jan. 1928 Resident Engr. C. H. Richards
Cost \$1,021,618.25
Cost per a.f. F.C. 51.05 Designer - L.A.C.F.C.D. Design Dept.
Cost per a.f. Conserv. 58.72 Computations - C.R. Buckley and Investigating Com.

REMARKS:
Present streambed elev. 843.0
Capacities based on L.A.C.F.C.D. Survey of 1915 supplemented in 1923.
* Dam No. 1

Comp. HAV & MWR Hydraulic Dept.
Checked ECV Design Dept.
Compiled January 1936
Revised Sept. 1937

Approved by *C. H. Howarth*
Chief Engineer

Date SEP 29 1937

Los Angeles County Flood Control District
Hydraulic Department
FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - San Dimas Dam Bond Issue - 1917
Location - 3 mi. N.E. of San Dimas Drainage Area - 15.92 sq. mi.
Stream - San Dimas Creek from elev. 1470 to elev. 5558
Purpose - Flood Control & Conserv. feet above mean sea level

DIMENSIONS:
Type - Concrete Gravity, Arched
Crest Ht. above orig. streambed 117.0 ft. Total Vol. of excoav. 31,091 c.y.
Crest Ht. above foundation 127.0 ft. Total Vol. of Concrete 41,286 c.y.
Crest Length 430.0 ft. Character of Foundation - Granite
Crest Width 11.0 ft.
Ht. of Parapet Wall 2.0 ft.
Base Thickness 80.0 ft.

OUTLETS:
No. Type Size Sill Ht. Sill Elev. Area Max. Disch. at W. S. Elev.
1 Gate Valve 16" Dia. 1371.3 1.4 sq. ft.
1 & 2 Slide Gates 4' x 6' 1375.0 1258.0 48. sq. ft. 2250 cfs 1470.0

SPILLWAY:
No. Type Sill Elev. Length Max. Disch. at W. S. Elev.
1 Open Weir 1462.0 35.0 3280.0 cfs 1470.0

ELEVATIONS AND CAPACITIES:
Orig. streambed 1353.0 ft. 0 a.f. Spillway #1 1462.0 ft. 1372.9 a.f.
Lowest excoav. 1343.0 ft. 0 a.f. Valve #4 1371.3 ft. 0 a.f.
Crest 1470.0 ft. 1689.5 a.f. Valve #1&2 1375.0 ft. 0 a.f.
Top of Parapet 1472.0 ft. - Assumed H.W.L. 1470.0 ft. 1689.5 a.f.

CONSTRUCTION:
Began Nov. 1920 Resident Engineer Ray Borthick
Completed Sept. 1922 Designed by L.A.C.F.C.D. Design Dept.
Cost \$589,859.55 Computations L.A.C.F.C.D. Design Dept.
Cost per a.f. Conserv. \$394.29 Constructed by Bent Bros.
Cost per a.c. of F. C. 324.10

REMARKS:
Capacities based on U.S.F.S. Survey of Dec. 1935.
Present streambed elevation 1378.6.
* Costs based on original capacity.

Comp. HAV & MWR Hydr. Dept.
Checked ECV Design Dept.
Compiled January 1936
Revised Sept. 1937

Approved by *C. H. Howarth*
Chief Engineer

Date SEP 29 1937

Los Angeles County Flood Control District
Hydraulic Department
FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - Puddingstone Diversion Dam Bond Issue - 1924
Location - 2 mi. N.E. of San Dimas Drainage Area - 2.57 sq. mi.
Stream - San Dimas Creek from elev. 1165.3 to elev. 3207.0 above mean sea level.
Purpose - Flood Control and Conservation Upstream slopes - 2:1 and 3:1 Downstream slopes 2:1 and 2:1

DIMENSIONS:
Type - Earthfill, Concrete Face
Crest Ht. above orig. streambed 33.5 ft. Total Vol. of Earthfill 89611 c.y.
Crest Length 825 ft. Character of Foundation - Gravel
Crest Width 15 ft.
Base Thickness 120 ft.

OUTLETS:
No. Type Size Elev. Sill Elev. Area Max. Disch. at W. S. Elev.
1 Gate Valve 24" Inlet 1139.0 1128.5 3.14 sq. ft.
2 to 5 Radial Gates 14"x13' 1145.5 3500 cfs 1158.5

SPILLWAY:
No. Type Sill Elev. Length Max. Disch. at W. S. Elev.
1 Open Once Section 1152.5 176' 10000 cfs 1158.5

ELEVATIONS AND CAPACITIES:
Orig. streambed 1130.0 ft. 0 a.f. Spillway #1 1152.5 ft. 121.2 a.f.
Crest 1163.8 ft. 322.8 a.f. Valve #1 1139.0 ft. 18.0 a.f.
Assumed H.W.L. 1168.5 ft. 212.7 a.f. Valve #2-5 1145.5 ft. 52.7 a.f.

CONSTRUCTION:
Began - Sept. 1927 Constructed by A. O. Nelson
Completed July 1928 Resident Engr. F. Z. Lee
Cost \$185,323.14 Design and Comput. L.A.C.F.C.D.
Cost per a.f. per day of Diversion Capacity \$26.69 Design Dept.

REMARKS:
Capacities corrected to revised L.A.C.F.C.D. Survey of June 1936, with streambed elev. of 1127.8.
* Costs based on original capacity.

Comp. HAV & MWR Hydr. Dept.
Checked ECV Design Dept.
Compiled January 1936
Revised Sept. 1937

Approved by *C. H. Howarth*
Chief Engineer

Date SEP 29 1937

GENERAL:
Name - San Gabriel Dam No. 2 Bond Issue - 1924
Location - 22 mi. W. of Azusa Drainage Area - 40.42 sq. mi.
Stream - San Gabriel River, W. Fork from elev. 2405 to elev. 8020
Purpose - Flood Control and Conservation feet above mean sea level.

DIMENSIONS:
Type - Rockfill with Concrete Cutoff Wall and Temporary Timber Face to be replaced by permanent Concrete Face. Slopes vary Upstream - 1:2 1/2, 1:3 1/2 and 1:3 1/2; Downstream - 1:3 1/2, 1:5 1/2, 1:6 1/2
Crest Ht. above orig. streambed 265.0 ft. Total Vol. of excoav. 300,408 c.y.
Crest Ht. above foundation 280.0 ft. Total Vol. of Rockfill 1,044,945 c.y.
Crest Length 2405.0 ft. Character of Foundation - Granite
Crest Width 18.0 ft.
Base Thickness Elev. 2140 750.0 ft.

OUTLETS:
No. Type Size Elev. Sill Elev. Area Max. Disch. at W. S. Elev.
1 Sluice Gate 30" dia 2168.45 2148.0 153.9 sq. ft.
2 Butterfly 84" dia 2169.1 2148.0 153.9 sq. ft.
3 Butterfly 84" dia 2178.0 2148.0 153.9 sq. ft.
4 Butterfly 84" dia 2205.6 2148.0 153.9 sq. ft.
5 Butterfly 84" dia 2247.5 2148.0 153.9 sq. ft.
6 Butterfly 84" dia 2285.7 2148.0 153.9 sq. ft.

Valves discharge directly or by inclined shafts into a 14.0' (dia.) outlet tunnel. Tunnel length from #1 Outlet to downstream portal 1098.0'. Sill Elev. of downstream portal 2148.0 ft. Tunnel slope .015

SPILLWAY:
No. Type Sill Elev. Length Max. Disch. at W. S. Elev.
1 Open Once Section 2385.0 150 25,300 cfs 2388

ELEVATIONS AND CAPACITIES:
Orig. streambed 2140.0 ft. 0 a.f. Sluice Gate 2164.2 ft. 0.1 a.f.
Lowest excoav. 2125.0 ft. 0 a.f. Valve 1 2166.2 ft. 0.1 a.f.
Crest 2405.0 ft. Valve 2 2177.0 ft. 5.0 a.f.
Spillway No. 1 2385.0 ft. 12298.0 a.f. Valve 3 2212.3 ft. 295.0 a.f.
Assumed H.W.L. 2398.0 ft. 14372.0 a.f. Valve 4 2248.1 ft. 1129.0 a.f.
Valve 5 2282.9 ft. 2545.0 a.f.
Valve 6 2319.2 ft. 4870.0 a.f.

CONSTRUCTION:
Began - March 1932 Constructed by Macco Constr. Co. and Lewis Constr. Co.
Completed April 1934 Resident Engr. K.J. Harrison - J. Herkner
Cost \$3,127,761.42 Design and Comput. L.A.C.F.C.D. Design Dept.
Cost per a.f. conserv. 254.32
Cost per a.f. F. C. 217.63 Comp. by L.A.C.F.C.D. Design Dept.

REMARKS:
Capacities based on F.C. Survey Jan. 1936 with streambed at elev. 2165.0

Comp. HAV & MWR Hydr. Dept.
Checked ECV Design Dept.
Compiled January 1936
Revised Sept. 1937

Approved by *C. H. Howarth*
Chief Engineer

Date SEP 29 1937

Los Angeles County Flood Control District
Hydraulic Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - Big Santa Anita Dam Bond Issue - 1924
Location - 2 1/2 mi. N.E. of Sierra Madre Drainage Area - 10.82 sq. mi.
Stream - Big Santa Anita Creek from elev. 1325.0 to elev. 5886.0
Purpose - Flood Control and Conservation

Type - Concrete, Constant Angle Arch - Gravity Abutments

DIMENSIONS:
Crest Ht. above orig. streambed 225.0 ft. Total Vol. of excav. 78,840 c.y.
Crest Ht. above foundation 230.0 ft. Total Vol. of Concrete 76,184 c.y.
Crest Length 612.0 ft. Character of foundation - Granite and Diorite
Crest Width 7.0 ft.
Ht. of Parapet Wall 3.0 ft.
Base Thickness 61.5 ft.

OUTLETS:

No.	Type	Size	Inlet Elev.	Outlet Elev.	Area	Max. Disch.	W. S. at Elev.
A	Gate Valve	18" dia.	1112.75	1112.75	1.77 sq.ft.	125.0 cfs	1325 ft.
B	Gate Valve	20" dia.	1160.0	1160.0	2.15 sq.ft.	145.0 cfs	1325 ft.
1	Needle Valve	30" dia.	1177.0	1177.0	4.91 sq.ft.	321.0 cfs	1325 ft.
2	Needle Valve	30" dia.	1198.0	1198.0	4.91 sq.ft.	302.0 cfs	1325 ft.

SPILLWAYS AND CAPACITIES:

No.	Type	Elev.	Storage	Sill Elev.	Storage	
1	Streambed	1100.0 ft.	0 a.f.	1316.0 ft.	1014.3 a.f.	
2	Lowest excav.	1095.0 ft.	0 a.f.	1325.0 ft.	1148.8 a.f.	
3	Crest	1325.0 ft.	1148.8 a.f.	Valve A	1112.0 ft.	0 a.f.
4	Top of Parapet	1326.0 ft.	Valve B	1159.17 ft.	45.0 a.f.	
5	Assumed H.W.L.	1325.0 ft.	Valve 1	1175.75 ft.	26.0 a.f.	
6			Valve 2	1196.75 ft.	72.7 a.f.	

CONSTRUCTION:
Began - Oct. 1924 Constructed by Rosa Construction Co.
Completed - March 1927 Resident Engr. - B. R. Vetoalf
Cost \$1,207,884.54 Designer - Constant Angle Arch Co.
Cost per a.f. of F. C. 288.53 Computations - B. R. Vetoalf.
Cost per a.f. of Conserv. 1,130.66

REMARKS:
Capacities based on U.S.S.C.S. Survey of Feb. 1936
Present streambed 1150.5
Costs based on original capacity

Comp. HAV & MWR Hydraulic Dept.
Checked ECV Design Dept.
Compiled January, 1936
Revised Sept. 1937

Approved by *[Signature]*
Chief Engineer

Date SEP 29 1937

Los Angeles County Flood Control District
Hydraulic Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - Thompson Creek E. & W. Dams Bond Issue - 1924
Location - 3 miles N. of Claremont Drainage Area - 3.91 sq. mi. from elev. 1648.0 to elev. 4615.0
Stream - Thompson Creek feet above mean sea level.
Purpose - Flood Control and Conservation

Type - Concrete core, Gravel fill
Downstream slope 2:1 Upstream slope - 2:1

DIMENSIONS:
Crest Ht. above orig. streambed 66.0 ft. Total Vol. of excav. 11,687 c.y.
Crest Ht. above foundation 103.0 ft. Total Vol. of Concrete 1,153 c.y.
Crest Length 1500.0 ft. Character of foundation - Granite and disintegrated Granite.
Crest Width 15.0 ft. Corewall - to bedrock.
Base Thickness 353.0 ft.

OUTLETS:

No.	Type	Size	Inlet Elev.	Outlet Elev.	Area	Max. Disch.	W. S. at Elev.
1	Slide Gate	24" dia.	1603.625	1598.76	3.14 sq.ft.	119.0 cfs	1645 ft.
2	Slide Gate	Empty into 3' x 3' tunnel					Limited by Flume

SPILLWAYS AND CAPACITIES:

No.	Type	Elev.	Storage	Sill Elev.	Storage	
1	Orig. streambed	1587 ft.	0 a.f.	1640.3 ft.	812.0 a.f.	
2	Lowest excav.	1545 ft.	0 a.f.	1648.8 ft.	108.5 a.f.	
3	Crest	1648 ft.	1112 a.f.	Valves 2 & 3	1625.0 ft.	407.5 a.f.
4	Assumed H.W.L.	1645 ft.	996 a.f.			

CONSTRUCTION:
Began - September 1926 Constructed by Roche Axman Co.
Completed March 1928 Resident Engr. - C.H. Richards - S. Cole
Cost \$252,629.28 Designer - L.A.C.F.C.D. Design Dept.
Cost per a.f. of Conserv. 311.12 Computations - L.A.C.F.C.D. Design Dept.
Cost per a.f. of F. C. 253.64

REMARKS:
Capacities corrected to L.A.C.F.C.D. Survey of November 1932.
Elevation of Bottom of upstream Borrow Pit - 1571.0 ft.

Comp. HAV & MWR Hydraulic Dept.
Checked ECV Design Dept.
Compiled January 1936
Revised Sept. 1937

Approved by *[Signature]*
Chief Engineer

Date SEP 29 1937

Los Angeles County Flood Control District
Hydraulic Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - Sawoit Dam Bond Issue - 1924
Location - 1 mi. N. of Monrovia Drainage area - 3.27 sq. mi.
Stream - Sawoit Creek from elev. 1375 to elev. 5376 ft.
Purpose - Flood Control and Conservation

Type - Concrete, Constant Radius Arch

DIMENSIONS:
Crest Ht. above orig. streambed 147.0 ft. Total Vol. of excav. 44,815.29 c.y.
Crest Ht. above foundation 162.0 ft. Total Vol. of Concrete 56,239.03 c.y.
Crest Length 527.0 ft. Character of Foundation - Granite
Crest Width 8.0 ft.
Ht. of Parapet Wall 3.0 ft.
Base Thickness 58.0 ft.

OUTLETS:

No.	Type	Size	Inlet Elev.	Outlet Elev.	Area	Max. Disch.	W. S. at Elev.
A	Uncontrolled pipe	16" dia.	1309.0	1235.66	1.39 sq.ft.	-	-
1	Gate Valve	30" dia.	1251.25	1251.25	4.91 sq.ft.	-	-
2	Needle Valve	30" dia.	1251.25	1251.25	4.91 sq.ft.	389 cfs	1378.0 ft.

SPILLWAYS AND CAPACITIES:

No.	Type	Elev.	Storage	Sill Elev.	Storage	
1	Orig. streambed	1228.0 ft.	0.0 a.f.	1360.0 ft.	389.0 a.f.	
2	Lowest Excav.	1213.0 ft.	0.0 a.f.	1375.0 ft.	540.3 a.f.	
3	Crest	1375.0 ft.	540.3 a.f.	Valve #A	1309.0 ft.	84.5 a.f.
4	Top of Parapet	1378.0 ft.	572.8 a.f.	Valve #1	1250.0 ft.	0.0 a.f.
5	Assumed H.W.L.	1375.0 ft.	540.3 a.f.	Valve #2	1250.0 ft.	0.0 a.f.

CONSTRUCTION:
Began - March 1926 Constructed by H. E. Heller
Completed June 1927 Design and Comput. L.A.C.F.C.D.
Cost \$637,075.85 Design Dept.
Cost per a.f. of F. C. 1,033.38 Resident Engineer - W.D. Richardson
Cost per a.f. of Conserv. 1,369.17

REMARKS:
Capacities corrected to L.A.C.F.C.D. Survey of Oct. 1935 with streambed elevation 1264.0 feet.
Costs per a.f. based on original capacity.
Pelton Needle Valve removed December 1935.

Comp. HAV & MWR Hydraulic Dept.
Checked ECV Design Dept.
Compiled January 1936
Revised Sept. 1937

Approved by *[Signature]*
Chief Engineer

Date SEP 29 1937

Los Angeles County Flood Control District
Hydraulic Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:
Name - Big Tujunga Dam No. 1 Bond Issue - 1924
Location - Big Tujunga Cr. 10 mi. N. E. of Sunland Drainage Area - 81.35 sq. mi.
Stream - Big Tujunga Creek from elev. 2290.0 to elev. 7076.0
Purpose - Flood Control and Conservation

Type - Concrete Variable Radius Arch

DIMENSIONS:
Crest Ht. above orig. streambed 200.0 ft. Total Vol. of Excav. 81,318 c.y.
Crest Ht. above foundation 251.0 ft. Total Vol. of Concrete 79,293 c.y.
Crest Length (less spillway) 505.0 ft. Total Vol. of earthfill 5,574 c.y.
Crest Width 8.0 ft. Character of foundation - Granite
Ht. of Parapet Wall 4.0 ft.
Base Thickness at 2060 77.0 ft.

OUTLETS:

No.	Type	Size	Inlet Elev.	Outlet Elev.	Area	Max. Disch.	W. S. at Elev.
A	Gate Valve	4" dir.	2110.0	2110.0	0.09 sq.ft.	Stillwell Drain	
1	Hydr. Gate	60" dia.	2145.0	2145.0	19.63 sq.ft.	Sluice Only	
2	Hydr. Gate	48" dia.	2160.0	2160.0	12.57 sq.ft.	1397 cfs	2304 ft.
3	Needle Valve	72"x60"	2160.0	2160.0	23.76 sq.ft.	1508 cfs	2304 ft.
4	Hydr. Gate	62" dia.	2185.0	2185.0	20.97 sq.ft.	934 cfs	2304 ft.

SPILLWAYS AND CAPACITIES:

No.	Type	Elev.	Storage	Sill Elev.	Storage	
1	Orig. Streambed	2104.0 ft.	0 a.f.	2290.0 ft.	6240.0 a.f.	
2	Lowest Excav.	2053.0 ft.	0 a.f.	2142.5 ft.	183.5 a.f.	
3	Crest	2304.0 ft.	7460.0 a.f.	Valve 1	2158.0 ft.	395.0 a.f.
4	Top of Parapet	2308.0 ft.	7820.0 a.f.	Valve 2	2157.0 ft.	370.0 a.f.
5	Assumed H.W.L.	2304.0 ft.	7460.0 a.f.	Valve 3	2182.4 ft.	857.6 a.f.

CONSTRUCTION:
Began - January 1930 Constructed by L. E. Dixon Co.
Completed July 1931 Resident Engr. - K. J. Harrison
Cost \$1,166,915.95 Design & Comput. - LAOFGD Design Dept.
Cost per a.f. of F. C. \$156.42
Cost per a.f. of Conserv. \$187.01

REMARKS:
Capacities based on L.A.C.F.C.D. Survey of 1928

Comp. HAV & MWR Hydraulic Dept.
Checked ECV Design Dept.
Compiled January 1936
Revised September 1937

Approved by *[Signature]*
Chief Engineer

Date SEP 29 1937

Storage is based on U.S.F.S. Survey of November, 1934.

BIG DALTON										DAM OPERATION RECORD															
Daily Gage Height in feet and Operation Record of										LOS ANGELES COUNTY															
in										FLOOD CONTROL DISTRICT															
BIG DALTON CANYON										HYDRAULIC DEPARTMENT															
for the Year Ending September 30, 1935										Continuous Water Stage Recorder															
Drainage Area 4.49										Gage Height Read daily at 8:00 A.M.															
Capacity of Reservoir 1053.4										Ac. Ft. at Spillway Elev. 1706.0															
Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1591.0	0.5	0	0	1611.8	18.8	0.1	0	1614.0	22.4	0.1	0	1634.8	82.7	0.4	0	1653.3	213.1	0.9	0	1663.5	318.8	1.2	0	1
2	1591.0	0.5	0	0	1611.8	18.8	0	0	1614.0	22.4	0	0	1634.9	83.1	0.5	0.3	1653.5	214.9	0.9	0	1663.9	323.3	2.2	0	2
3	1591.0	0.5	0	0	1611.9	19.0	0.1	0	1614.1	22.5	0.1	0	1635.1	84.1	0.5	0	1653.7	216.7	0.9	0	1664.1	325.5	1.1	0	3
4	1581.0	0.5	0	0	1611.9	19.0	0	0	1614.1	22.5	0	0	1635.2	84.6	1.0	0.7	1654.2	217.3	2.3	0	1664.3	327.8	1.2	0	4
5	1591.0	0.5	0	0	1612.0	19.1	0	0	1614.2	22.7	0.1	0	1637.1	85.1	5.2	0	1655.2	230.5	4.6	0	1664.5	330.1	1.1	0	5
6	1591.0	0.5	0	0	1612.0	19.1	0	0	1614.2	22.7	0	0	1637.6	85.9	1.2	0	1656.0	238.6	4.1	0	1664.7	332.3	1.1	0	6
7	1591.0	0.5	0	0	1612.0	19.1	0	0	1614.3	22.8	0.1	0	1638.4	102.2	1.6	0	1656.6	244.7	3.0	0	1664.9	336.3	2.3	0	7
8	1591.0	0.5	0	0	1612.1	19.3	0.1	0	1614.4	23.0	0	0	1638.9	105.0	1.4	0	1657.3	251.8	3.6	0	1665.1	339.3	1.2	0	8
9	1591.0	0.5	0	0	1612.1	19.3	0	0	1614.5	23.2	0.1	0	1639.8	109.9	2.5	0	1657.9	257.9	3.0	0	1665.5	341.7	1.2	0	9
10	1591.0	0.5	0	0	1612.1	19.3	0	0	1614.6	23.4	0.1	0	1640.5	114.3	2.2	0	1658.4	263.0	2.6	0	1665.8	345.3	1.8	0	10
11	1591.0	0.5	0	0	1612.1	19.3	0	0	1614.6	23.4	0	0	1641.1	118.3	2.0	0	1658.8	267.0	2.0	0	1666.0	347.7	1.2	0	11
12	1591.0	0.5	0	0	1612.1	19.3	0	0	1614.9	23.6	0.2	0	1641.6	121.6	1.7	0	1659.2	271.1	2.0	0	1666.1	348.9	0.6	0	12
13	1591.0	0.5	0	0	1612.1	19.3	0	0	1615.5	31.1	3.7	0	1642.0	127.3	1.3	0	1659.7	276.2	2.6	0	1666.3	351.3	1.2	0	13
14	1591.0	0.5	0	0	1612.1	19.3	0	0	1616.2	50.3	9.6	0	1642.5	127.6	1.7	0	1660.1	280.3	2.0	0	1666.4	352.5	0.5	0	14
15	1591.0	0.5	0	0	1612.4	19.8	0.3	0	1618.4	57.7	3.7	0	1644.1	138.2	5.3	0	1660.4	283.7	1.7	0	1666.5	354.9	1.2	0	15
16	1591.0	0.5	0	0	1612.7	20.3	0.2	0	1619.2	60.4	1.3	0	1645.0	144.2	3.0	0	1660.7	287.1	1.7	0	1666.7	356.1	0.6	0	16
17	1606.0	11.2	5.3	0	1612.9	20.6	0.2	0	1620.3	62.8	1.2	0	1645.7	149.7	3.7	0	1661.0	290.5	1.7	0	1666.9	358.5	1.2	0	17
18	1591.0	0.5	0	0	1613.1	20.9	0.1	0	1620.4	64.7	1.0	0	1646.8	158.3	4.3	0	1661.2	292.9	1.7	0	1667.0	359.7	0.6	0	18
19	1611.7	18.7	0.6	0	1613.2	21.1	0.1	0	1620.9	66.8	0.9	0	1647.8	166.1	3.9	0	1661.5	297.1	1.7	0	1667.1	360.9	0.6	0	19
20	1611.7	18.7	0	0	1613.3	21.2	0.1	0	1621.3	68.4	0.8	0	1648.5	171.6	2.8	0	1661.8	299.5	1.1	0	1667.2	362.1	0.6	0	20
21	1611.7	18.7	0	0	1613.4	21.4	0.1	0	1621.7	70.0	0.8	0	1649.2	177.0	2.7	0	1662.0	301.8	1.2	0	1667.4	364.5	1.2	0	21
22	1611.7	18.7	0	0	1613.5	21.6	0.1	0	1621.9	70.9	0.5	0	1649.8	181.7	2.3	0	1662.2	304.1	1.1	0	1667.5	365.8	0.7	0	22
23	1611.7	18.7	0	0	1613.5	21.6	0	0	1622.1	71.7	0.4	0	1650.3	186.0	2.2	0	1662.4	306.3	1.1	0	1667.7	368.2	1.2	0	23
24	1611.7	18.7	0	0	1613.5	21.7	0	0	1622.4	72.2	0.9	0	1650.9	191.4	2.7	0	1662.6	308.6	1.2	0	1667.9	370.6	1.2	0	24
25	1611.7	18.7	0	0	1613.6	21.7	0	0	1622.7	74.1	0.4	0	1651.3	195.1	1.9	0	1662.8	310.8	1.4	0	1668.1	372.9	0.2	0	25
26	1611.7	18.7	0	0	1613.7	21.9	0.1	0	1622.9	74.9	0.4	0	1651.7	198.7	1.8	0	1663.0	313.1	1.1	0	1668.3	375.4	1.2	0	26
27	1611.7	18.7	0	0	1613.7	21.9	0	0	1623.1	75.7	0.4	0	1652.0	201.4	1.4	0	1663.2	315.4	1.2	0	1668.4	376.6	0.6	0	27
28	1611.7	18.7	0	0	1613.8	22.1	0.1	0	1623.3	79.0	1.7	0	1652.3	204.1	1.3	0	1663.3	316.5	0.5	0	1668.5	377.8	0.6	0	28
29	1611.7	18.7	0	0	1613.9	22.2	0.1	0	1624.1	79.8	0.4	0	1652.6	206.6	1.3	0	1663.5	318.7	0.5	0	1668.6	379.0	0.6	0	29
30	1611.7	18.7	0	0	1613.9	22.2	0	0	1624.4	81.1	0.6	0	1652.9	209.8	1.3	0	1663.7	320.9	0.5	0	1668.7	380.2	0.6	0	30
31	1611.7	18.7	0	0	1613.9	22.2	0	0	1624.6	81.9	0.4	0	1653.1	211.3	0.9	0	1663.9	323.1	0.5	0	1668.8	381.4	0.6	0	31
TOTAL		9.1				1.8			59.6				65.7		1.0		52.6		0		32.5				
Inf. Ac. Ft.		18.2				3.6			59.6				131.4				105.2				65.0			383.0	
Outf. Ac. Ft.						0			0								0				0			0	
Net Change						0.3			9.6				5.3		2.0		4.6				2.3			2.0	
Storage Change		+18.2			+3.5			+59.7				+129.4				+105.2				+64.9			+380.9		
REMARKS	U.S.F.S. Survey of November 1934 used for Storages.										RECORDS COLLECTED BY														
Min. W. S. Elev.	1682.2 feet on June 1-12-35 Storage 576.8										H.A. van der Goot & Paul Keiser														
Max. W. S. Elev.	1591.0 feet on Various Storage 0.5										Roger P. Dalton														
Max. Peak Inf.	49.2 C.F.S. from 5 A.M. on 4-8-35 to 6 A.M. on 4-8-35										Dam Tender														
Max. Peak Outf.	6.1 C.F.S. from Mid. on 9-22-35 to Mid. on 9-23-35										Hydrographer														
Gage Heights and Storage as of Midnight on day shown.										Date 11-20-35															

DAM OPERATION RECORD

Big Dalton										DAM OPERATION RECORD															
Daily Gage Height in feet and Operation Record of										LOS ANGELES COUNTY															
in										FLOOD CONTROL DISTRICT															
Big Dalton Canyon										HYDRAULIC DEPARTMENT															
for the Year Ending September 30, 1935										Continuous Water Stage Recorder															
Drainage Area 4.49										Gage Height Read daily at 8:00 A.M.															
Capacity of Reservoir 1053.4										Ac. Ft. at Spillway Elev. 1706.0															
Date	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1668.9	382.6	0.6	0	1680.8	542.7	1.5	0	1682.2	576.8	0.2	0	1679.6	522.9	0.2	1.7	1672.2	426.2	0	2.1	1655.7	226.6	0	5.0	1
2	1669.0	383.0	0.6	0	1680.8	543.4	0.8	0	1682.2	576.8	0.2	0	1679.4	521.5	0.2	1.0	1671.9	422.1	0	2.0	1654.9	226.9	0	4.5	2
3	1669.1	383.0	0.6	0	1680.4	547.0	0.8	0	1682.2	576.8	0.2	0	1679.2	520.8	0.2	1.0	1671.8	418.6	0	2.8	1658.8	217.7	0	4.5	3
4	1669.2	383.6	0.6	0	1680.5	548.7	0.8	0	1682.2	576.8	0.2	0	1679.2	520.8	0.2	0.9	1671.8	424.4	0	2.1	1658.8	220.6	0	4.5	4
5	1669.4	388.6	1.2	0	1680.6	550.3	0.8	0	1682.2	576.8	0.2	0	1679.1	522.8	0.3	0.9	1670.9	408.2	0	2.1	1651.9	199.8	0	4.5	5
6	1669.5	389.8	0.6	0	1680.7	552.0	0.8	0	1682.2	576.8	0.2	0	1679.0	522.2	0.2	0.8	1670.6	404.1	0	2.1	1650.7	189.6	0	5.0	6
7	1669.6	391.0	0.6	0	1680.8	553.6	0.8	0	1682.2	576.8	0.2	0.1	1678.9	522.5	0.1	1.6	1670.3	399.9	0	2.1	1649.5	179.4	0	5.1	7
8	1672.7	435.1	21.1	0	1680.8	553.6	0.8	0	1682.2	576.8	0.2	0.1	1678												

Storage is based on U.S.F.S. Survey of November, 1934.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

File No.

In Big Dalton Canyon for the Year Ending September 30, 1936

Continuing Water Stage Recorder AU

Drainage Area 4.49 Square Miles. Capacity of Reservoir 1053.4 Ac. Ft. at Spillway Elev. 1706.0 Ft.

Gage Heights Read Daily

Table with columns for months (OCTOBER, NOVEMBER, DECEMBER, JANUARY, FEBRUARY, MARCH) and rows for Gage Height, Area Ft. Storage, C.F.S. Inflow, C.F.S. Outflow. Includes summary statistics and remarks.

REMARKS section containing summary statistics like Max. W. S. Elev., Min. W. S. Elev., Max. Peak Inf., and a table for RECORDS COLLECTED BY.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

File No.

In Big Dalton Canyon for the Year Ending September 30, 1936

Continuing Water Stage Recorder AU

Drainage Area 4.49 Square Miles. Capacity of Reservoir 1053.4 Ac. Ft. at Spillway Elev. 1706.0 Ft.

Gage Heights Read Daily

Table with columns for months (APRIL, MAY, JUNE, JULY, AUGUST, SEPTEMBER) and rows for Gage Height, Area Ft. Storage, C.F.S. Inflow, C.F.S. Outflow. Includes summary statistics and remarks.

REMARKS section containing summary statistics like Max. W. S. Elev., Min. W. S. Elev., Max. Peak Inf., and a table for RECORDS COLLECTED BY.

Storages Based on Rating Table Dated 12-6-35 - Reconnaissance Survey.

DAM OPERATION RECORD																								
LOS ANGELES COUNTY																								
FLOOD CONTROL DISTRICT																								
HYDRAULIC DEPARTMENT																								
Daily Gage Height in feet and Operation Record of <u>Live Oak</u> Dam																		File No.						
In <u>Live Oak Canyon</u> for the Year Ending September 30, 1935																		Continuous Water Stage Recorder: <u>None</u>						
Drainage Area: <u>2,370</u> Square Miles. Capacity of Reservoir: <u>246.6</u> Ac. Ft. at Spillway Elev. <u>1497.0</u> Ft.																		Gage Height: <u>Read at Various Times</u>						
Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH			
	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	Dry	0	0	0	Dry	0	0	0	Dry	0	0	0	Dry	0	0	0	1455.8	7.7	.1	0	1462.2	17.6	0	0
2	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1455.9	7.8	.1	0	1462.2	17.6	0	0
3	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1456.0	7.9	.1	0	1462.3	17.8	0	0
4	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1456.1	8.0	.1	0	1462.3	17.8	0	0
5	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1458.1	9.9	.9	0	1462.3	17.8	0	0
6	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1459.9	11.7	.9	0	1462.3	17.8	0	0
7	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1460.6	13.4	.8	0	1462.6	18.6	.4	0
8	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1461.0	14.4	.5	0	1462.8	19.1	.2	0
9	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1461.2	14.9	.3	0	1462.9	19.4	.1	0
10	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1461.4	15.5	.3	0	1462.9	19.4	.1	0
11	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1461.6	16.0	.2	0	1463.0	19.7	.1	0
12	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1461.8	16.5	.2	0	1463.0	19.7	0	0
13	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1462.0	17.0	.2	0	1463.0	19.7	0	0
14	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1462.2	17.6	.2	0	1463.0	19.7	0	0
15	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1462.3	17.8	.2	0	1463.0	19.7	0	0
16	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1442.6	1.4	.7	0	1463.0	19.7	0	0
17	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1450.6	2.6	.4	0	1462.9	19.4	0	0
18	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1451.5	3.5	.4	0	1462.9	19.4	0	0
19	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1452.4	4.4	.4	0	1462.9	19.4	0	0
20	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1453.3	5.2	.3	0	1462.9	19.4	0	0
21	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1454.2	6.1	.3	0	1462.8	19.1	0	0
22	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1454.8	6.7	.2	0	1462.8	19.1	0	0
23	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1455.0	6.9	.1	0	1462.8	19.1	0	0
24	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1455.1	7.0	.1	0	1462.7	18.9	0	0
25	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1455.2	7.1	.1	0	1462.7	18.9	0	0
26	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1455.3	7.2	.1	0	1462.7	18.9	0	0
27	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1455.4	7.3	.1	0	1462.7	18.9	0	0
28	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1455.5	7.4	.1	0	1462.7	18.9	0	0
29	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1455.6	7.5	.1	0	1462.7	18.9	0	0
30	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1455.6	7.5	.1	0	1462.7	18.9	0	0
31	"	0	0	0	"	0	0	0	"	0	0	0	"	0	0	0	1455.7	7.6	.1	0	1462.7	18.9	0	0
TOTAL																								
Infl. Ac. Ft.																								
Outfl. Ac. Ft.																								
Max. Peak Infl.																								
Max. Peak Outfl.																								
Storage Change																								
REMARKS																								
Max. W. S. Elev.	1465.3	feet	on 4-14, 20-35	Storage	25.7	Ac. Feet													RECORDS COLLECTED BY		FIRST 6 MONTHS			
Min. W. S. Elev.	Dry	feet	on Var. Times	Storage	0	Ac. Feet													Emergency		Checked			
Max. Peak Infl.	16.7	C.F.S. from 8:00 A.M.	on 4-8-35	to 4:00 A.M.	on 4-8-35													R. P. Dalton		Checked				
Max. Peak Outfl.	(Mean Daily) 0.6	C.F.S. from	on 7-19-35	to	on													H. A. Van der Goot		Checked				
Gage Height and Storage are as of Midnight on day shown.																								

DAM OPERATION RECORD																								
LOS ANGELES COUNTY																								
FLOOD CONTROL DISTRICT																								
HYDRAULIC DEPARTMENT																								
Daily Gage Height in feet and Operation Record of <u>Live Oak</u> Dam																		File No.						
In <u>Live Oak Canyon</u> for the Year Ending September 30, 1935																		Continuous Water Stage Recorder: <u>None</u>						
Drainage Area: <u>2,370</u> Square Miles. Capacity of Reservoir: <u>246.6</u> Ac. Ft. at Spillway Elev. <u>1497.0</u> Ft.																		Gage Height: <u>Read at Various Times</u>						
Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1462.7	18.9	0	0	1464.9	24.6	0	0	1462.4	18.1	0	0	1459.1	10.9	0	0	Dry	0	0	0	Dry	0	0	0
2	1462.7	18.9	0	0	1464.9	24.6	0	0	1462.3	17.8	0	0	1458.3	10.7	0	0	"	0	0	0	"	0	0	0
3	1462.7	18.9	0	0	1464.8	24.4	0	0	1462.2	17.6	0	0	1458.8	10.6	0	0	"	0	0	0	"	0	0	0
4	1462.6	18.6	0	0	1464.7	24.1	0	0	1462.1	17.2	0	0	1458.7	10.5	0	0	"	0	0	0	"	0	0	0
5	1462.6	18.6	0	0	1464.7	24.1	0	0	1462.0	17.0	0	0	1458.6	10.4	0	0	"	0	0	0	"	0	0	0
6	1462.6	18.6	0	0	1464.6	23.9	0	0	1461.9	16.8	0	0	1458.5	10.3	0	0	"	0	0	0	"	0	0	0
7	1462.6	18.6	0	0	1464.6	23.9	0	0	1461.8	16.6	0	0	1458.4	10.2	0	0	"	0	0	0	"	0	0	0
8	1464.5	22.6	2.3	0	1464.5	23.6	0	0	1461.7	16.2	0	0	1458.3	10.1	0	0	"	0	0	0	"	0	0	0
9	1464.7	24.1	.2	0	1464.4	23.3	0	0	1461.6	16.0	0	0	1458.2	10.1	0	0	"	0	0	0	"	0	0	0
10	1464.9	24.6	.3	0	1464.3	23.1	0	0	1461.5	15.7	0	0	1458.2	10.0	0	0	"	0	0	0	"	0	0	0
11	1465.1	25.2	.3	0	1464.3	23.1	0	0	1461.4	15.5	0	0	1458.1	9.9	0	0	"	0	0	0	"	0	0	0
12	1465.2	25.4	.1	0	1464.2	22.8	0	0	1461.3	15.2	0	0	1458.0	9.8	0	0	"	0	0	0	"	0	0	0
13	1465.2	25.4	.1	0	1464.1	22.6	0	0	1461.2	14.9	0	0	1457.8	9.5	0	0	"	0	0	0	"	0	0	0
14	1465.3	25.7	.1	0	1464.0	22.3	0	0	1461.1	14.7	0	0	1457.6	9.5	0	0	"	0	0	0	"	0	0	0
15	1465.3	25.7	0	0	1463.9	22.0	0	0	1461.0	14.4	0	0	1457.4	9.5	0	0	"	0	0	0	"	0	0	0
16	1465.3	25.7	0	0	1463.9	22.0	0	0	1460.9	14.2	0	0	1457.3	9.5	0	0	"	0	0	0	"	0	0	0
17	1465.3	25.7	0	0	1463.8	21.8	0	0	1460.7	13.6	0	0	1457.2	9.4	0	0	"	0	0	0	"	0	0	0
18	1465.3	25.7	0	0	1463.8	21.8	0	0	1460.6	13.4	0	0	1457.1	9.3	0	0	"	0	0	0	"	0	0	0
19	1465.3	25.7	0	0	1463.7	21.5	0	0	1460.5	13.1	0	0	1457.0	9.2	0	0	"	0	0	0	"	0	0	0
20	1465.3	25.7	0	0	1463.6	21.2	0	0	1460.4	12.8	0	0	1449.2	1.8	0	0	"	0	0	0	"	0	0	0
21	1465.2	25.4	0	0	1463.5	21.0	0	0	1460.3	12.6	0	0	1447.9	1.5	0	0	"	0	0	0	"	0	0	0
22	1465.2	25.4	0	0	1463.4	20.7	0	0	1460.2	12.3	0	0	1446.6	1.2	0	0	"	0	0	0	"	0	0	0
23	1465.2	25.4	0	0	1463.3	20.4	0	0	1460.0	11.8	0	0	1445.3	.8	0	0	"	0	0	0	"	0	0	0
24	1465.1	25.2	0	0	1463.2	20.2	0	0	1459.9	11.7	0	0	1444.0	.5	0	0	"	0	0	0	"	0	0	0
25	1465.1	25.2	0	0	1463.1	19.9	0	0	1459.8	11.6	0	0	1442.7	.2	0	0	"	0	0	0	"	0	0	0
26	1465.0	24.9	0	0																				

Storage based on original reconnaissance survey of 1919.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PAOQIMA Dam
in PAOQIMA CANYON for the Year Ending September 30, 1935
Drainage Area 27.77 Square Miles. Capacity of Reservoir 5900.0 Ac. Ft. at Spillway Elev. 1950.0 Ft.
Continuous Water Stage Recorder AU
Gage Height Read Daily at 8:00 A.M.

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH			
	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1717.0	61.0	0.4	0	1717.5	61.9	0	0	1721.7	75.3	0.2	0	1798.0	655.4	6.1	6.7	1815.0	876.5	11.5	54.6	1828.7	1065.9	10.0	1.5
2	1716.8	60.7	0.5	0	1717.5	62.5	0	0	1721.8	75.6	0.1	0	1797.8	650.9	5.1	5.2	1814.5	899.5	11.1	0	1826.5	1118.9	28.0	1.5
3	1716.8	60.4	0.1	0	1717.8	62.4	0	0	1721.8	75.7	0.1	0	1797.8	648.8	4.8	6.0	1815.5	912.2	10.3	0	1826.5	1158.5	23.5	1.5
4	1716.8	60.4	0.1	0	1718.3	64.2	0	0	1721.8	74.7	0	0	1798.9	644.5	10.0	2.0	1817.0	944.7	12.8	0	1830.0	1192.5	19.0	1.5
5	1716.8	60.4	0.1	0	1718.8	65.4	0	0	1721.5	74.7	0	0	1802.7	738.4	41.9	5.0	1820.1	997.9	25.6	0	1831.2	1228.5	17.5	1.5
6	1716.8	60.4	0.1	0	1719.3	67.9	0	0	1721.5	74.7	0	0	1802.8	735.5	27.4	12.0	1822.1	1054.6	28.3	0	1832.2	1252.2	15.3	1.5
7	1716.8	60.4	0.1	0	1719.8	69.4	0	0	1722.5	77.8	1.6	0	1802.8	800.0	22.4	4.0	1822.9	1105.6	25.6	0	1832.5	1291.5	20.7	1.5
8	1716.8	60.4	0.1	0	1720.0	70.0	0	0	1722.5	81.8	2.0	0	1811.0	848.1	21.0	0	1822.5	1156.7	25.5	0	1832.8	1329.8	20.6	1.5
9	1716.8	60.4	0.1	0	1720.0	70.0	0	0	1722.5	82.8	0.9	0	1812.5	890.0	24.0	0	1822.1	1208.4	25.9	0	1832.5	1366.2	19.7	1.5
10	1716.8	60.4	0.1	0	1720.2	70.5	0	0	1722.5	84.9	0.5	0	1812.5	927.2	22.9	0	1822.5	1258.2	27.7	0	1832.5	1399.0	17.4	1.5
11	1716.8	60.4	0.1	0	1720.5	71.5	0	0	1722.5	86.1	0.6	0	1812.1	980.5	21.4	0	1822.4	1317.4	25.2	0	1832.4	1432.7	17.4	1.5
12	1716.8	60.4	0.1	0	1720.5	71.6	0	0	1722.1	92.1	4.5	0	1821.2	1016.7	19.0	0	1820.6	1377.9	24.7	0	1832.4	1459.2	16.2	1.5
13	1716.8	60.4	0.1	0	1720.3	70.9	0	0	1722.5	92.7	38.8	0	1822.1	1044.6	18.0	0	1827.8	1432.1	23.1	0	1832.4	1490.9	17.4	1.5
14	1716.8	60.4	0.1	0	1720.1	70.2	0	0	1722.5	93.4	34.4	0	1824.8	1066.7	16.0	0	1822.7	1456.9	21.7	0	1832.4	1518.0	15.0	1.5
15	1716.8	60.4	0.1	0	1720.4	71.2	0	0	1722.5	94.0	31.3	0	1830.8	1129.3	13.6	0	1822.2	1484.7	20.2	0	1832.4	1547.5	16.2	1.5
16	1716.8	60.4	0.1	0	1721.8	75.5	0	0	1722.5	101.1	22.5	0	1832.8	1244.6	25.7	8.0	1824.5	1572.8	18.1	0	1832.4	1579.7	15.3	1.5
17	1721.6	108.0	0	0	1721.9	75.9	0	0	1727.4	156.4	12.7	0	1835.7	1285.8	30.3	20.7	1824.2	1612.2	19.2	0	1832.4	1597.3	14.0	1.5
18	1732.8	144.1	0	0	1722.5	77.8	0	0	1728.9	142.9	8.2	0	1824.4	1278.7	24.1	16.7	1824.1	1672.5	17.1	0	1832.4	1622.2	12.9	1.5
19	1728.8	127.5	2.3	0	1722.5	79.5	0	0	1730.2	157.5	7.9	0	1827.4	1356.2	23.0	4.2	1819.9	1724.5	19.5	0	1832.4	1645.9	14.9	1.5
20	1728.8	124.5	2.5	0	1722.4	77.4	1.0	0	1731.4	152.2	7.4	0	1828.5	1356.2	25.0	10.0	1819.0	1719.0	16.7	0	1832.4	1672.4	12.7	1.5
21	1728.8	111.1	2.6	0	1721.7	75.2	1.2	0	1732.5	158.8	6.9	0	1832.8	1361.8	26.4	20.0	1819.0	1719.0	16.7	0	1832.4	1702.2	15.4	1.5
22	1728.8	98.8	2.5	0	1721.5	75.0	0	0	1732.5	158.6	4.9	0	1833.8	1361.8	26.2	56.8	1815.2	1719.0	14.2	0	1832.4	1729.7	15.3	1.5
23	1728.2	84.4	2.6	0	1721.6	75.5	0	0	1732.5	160.7	3.0	0	1835.8	1319.2	21.7	45.0	1817.5	1725.2	12.6	1.5	1832.4	1757.5	16.4	1.5
24	1720.6	71.9	3.6	0	1722.0	75.2	0	0	1734.2	162.7	2.5	0	1835.7	1265.8	19.6	47.8	1818.8	1725.5	12.6	1.5	1832.4	1792.2	21.9	1.5
25	1716.0	58.0	3.0	0	1722.8	75.8	0	0	1734.6	161.6	2.8	0	1835.1	1229.7	17.0	34.0	1819.9	1724.5	10.9	1.5	1832.4	1822.1	16.4	1.5
26	1714.8	52.5	1.8	0	1722.4	77.4	0	0	1734.6	155.3	1.8	0	1822.5	1225.9	19.2	21.8	1820.9	1612.0	10.8	1.5	1832.4	1855.2	15.1	1.5
27	1714.8	54.4	0	0	1722.2	76.8	0	0	1734.6	152.1	1.1	0	1830.4	1192.5	16.0	32.0	1821.9	1612.0	10.0	1.5	1832.4	1889.5	15.0	1.5
28	1714.8	55.9	0	0	1721.5	74.7	0	0	1734.6	157.1	11.1	0	1822.1	1149.1	16.8	39.0	1822.9	1648.9	10.0	0	1832.4	1906.2	14.4	1.5
29	1716.8	58.9	0	0	1721.6	75.0	0	0	1734.6	158.1	8.4	2.8	1824.7	1084.8	18.1	50.5	1822.9	1648.9	10.0	0	1832.4	1935.4	14.3	1.5
30	1716.8	58.9	0	0	1721.6	75.0	0	0	1734.6	158.1	7.0	0	1820.1	997.9	14.0	57.4	1822.9	1648.9	10.0	0	1832.4	1959.8	13.2	1.0
31	1716.8	60.4	0	0	1721.6	75.0	0	0	1734.6	158.1	6.2	6.2	1815.7	922.5	17.0	54.7	1822.9	1648.9	10.0	0	1832.4	1984.2	13.2	1.0
TOTAL			26.3				9.3				897.3	17.5			675.4	539.4			504.5	441.3			512.9	45.2
Inf. Ac. Ft.		51.7				32.2					314.6				1246.8				1029.0			1026.8	4080.7	
Out. Ac. Ft.		52.6				18.5					34.6				1079.8				882.6			904.6	2187.6	
Net. Ac. Ft.											84.4				21.8				146.4			122.2	1893.1	
Max. Peak Inflow											94.4				61.8				28.0			28.0	84.4	
Max. Peak Outflow											0				4.8				10.0			10.0	10.0	
Storage Change											-14.6				-227.9				-126.4			-225.2	-1222.9	

REMARKS: I = Interpolated, C = Computed, * = Accrued debris on 12-4-35 = 74.7 Ac.Ft. Outflows as shown by Dam Tender's Estimates. (at 6 Months)

RECORDS COLLECTED BY: R. E. Haddiger, R. P. Dalton

STORAGE: 5061.2

Max. W. S. Elev. 1716.8

Max. Peak Inflow 94.4

Max. Peak Outflow 92.1

Gage Heights & Storage as of Midnight on day shown. Inflow & debris & water.

Storage based on original reconnaissance survey of 1919.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PAOQIMA Dam
in PAOQIMA CANYON for the Year Ending September 30, 1935
Drainage Area 27.77 Square Miles. Capacity of Reservoir 5900.0 Ac. Ft. at Spillway Elev. 1950.0 Ft.
Continuous Water Stage Recorder AU
Gage Height Read daily at 8:00 A.M.

Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1867.7	2008.5	12.5	0.3	1894.1	3061.2	14.7	10.7	1839.7	1391.6	5.8	5.8	1811.3	847.2	6.8	6.8	1791.7	575.9	5.5	5.5	1785.9	174.8	4.5	1
2	1864.5	2032.8	12.1	0	1894.1	3061.2	11.0	11.0	1837.4	1342.6	27.9	27.9	1810.5	833.6	6.8	6.8	1790.7	563.6	5.5	5.5	1785.2	171.3	2.1	4
3	1865.5	2063.2	15.2	0	1894.1	3061.2	11.0	11.0	1832.3	1234.0	57.3	57.3	1809.6	819.1	6.8	6.8	1789.6	550.6	5.5	5.5	1785.0	170.3	3.1	8
4	1865.6	2090.6	13.7	0	1894.1	3061.2	11.0	11.0	1829.1	1168.0	34.3	34.3	1808.7	809.9	6.7	6.7	1789.6	539.6	5.5	5.5	1784.9	164.7	2.1	4
5	1867.1	2111.8	10.6	0	1893.9	3053.2	7.0	14.0	1828.5	1152.5	9.8	9.8	1807.1	794.1	6.7	6.7	1787.4	526.4	5.5	5.5	1783.3	161.7	1.7	6
6	1867.8	2133.1	10.6	0	1893.5	3031.2	5.8	13.8	1828.1	1139.1	6.9	6.9	1807.1	782.1	6.7	6.7	1786.3	514.5	5.5	5.5	1783.3	161.7	0	6
7	1868.8	2153.5	15.2	0	1892.6	3001.1	4.7	22.7	1827.6	1139.6	6.8	6.8	1806.2	759.1	6.5	6.5	1785.2	502.9	5.5	5.5	1783.3	161.7	0	6
8	1871.8	2259.4	48.0	0	1891.9	2973.1	9.0	23.0	1827.2	1132.1	6.3	6.3	1805.3	755.9	6.5	6.5	1784.0	489.0	5.5	5.5	1783.3	161.7	0	8
9	1874.1	2335.3	37.9	0	1891.1	2941.1	7.0	23.0	1826.6	1120.7	6.9	6.9	1804.3	741.2	6.5	6.5	1782.9	477.9	5.5	5.5	1783.3	161.7	0	9
10	1876.0	2398.0	31.4	0	1890.3	2909.0	6.9	23.0	1826.0	1109.4	7.2	7.2	1803.4	725.0	6.5	6.5	1781.8	464.8	5.5	5.5	1783.3	161.7	0	10
11	1877.7	2454.1	28.0	0	1889.6	2882.3	6.0	19.3	1825.5	1100.0	7.0	7.0	1802.4	713.3	6.5	6.5	1780.7	452.7	5.5	5.5	1783.3	161.7	0	11
12	1874.3	2506.9	26.4	0	1888.7	2849.3	7.0	23.5	1824.9	1085.6	6.9	6.9	1801.5	701.1	6.5	6.5	1779.6	440.6	5.5	5.5	1783.3	161.7	0	12
13	1880.6	2552.0	22.6	0	1887.8	2816.3	7.0	23.5	1824.4	1073.2	6.3	6												

Storages based on L.A.C.F.C.D. Survey of January 1936.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gauge Height in feet and Operation Record of PACOIMA Dam
In Pacoima Canyon for the Year Ending September 30, 1936

File No.

Continuous Water Stage Recorder AM

Table with columns for months (OCTOBER, NOVEMBER, DECEMBER, JANUARY, FEBRUARY, MARCH) and rows for Gauge Height, Inflow, and Outflow. Includes summary statistics at the bottom and remarks.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gauge Height in feet and Operation Record of PACOIMA Dam
In Pacoima Canyon for the Year Ending September 30, 1936

File No.

Continuous Water Stage Recorder AM

Table with columns for months (APRIL, MAY, JUNE, JULY, AUGUST, SEPTEMBER) and rows for Gauge Height, Inflow, and Outflow. Includes summary statistics at the bottom and remarks.

Storage based on original reconnaissance survey of 1915.

DAM OPERATION RECORD

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam
On PUDDINGSTONE CREEK for the Year Ending September 30, 1935.

File No. _____

Continuous Water Stage Recorder Rational
Gage Height Read daily at 6 A.M.

Drainage Area 39.16 Square Miles. Capacity of Reservoir 17,398.0 Ac. Ft. at Spillway Elev. 970.0 Ft.

Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH			
	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	895.7	844.4	5.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
2	895.6	839.5	5.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
3	895.4	829.7	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
4	895.2	819.8	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
5	895.0	810.0	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
6	894.8	800.2	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
7	894.6	790.3	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
8	894.4	780.5	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
9	894.3	775.6	4.5	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
10	894.1	765.7	5.3	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
11	893.9	755.9	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
12	893.6	741.1	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
13	893.4	731.3	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
14	893.2	721.4	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
15	893.0	711.6	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
16	892.8	701.8	6.0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
17	892.6	692.0	2.5	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
18	892.4	682.2	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
19	892.2	672.4	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
20	892.0	662.6	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
21	891.7	652.8	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
22	891.5	643.0	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
23	891.3	633.2	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
24	891.0	623.4	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
25	890.8	613.6	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
26	890.6	603.8	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
27	890.4	594.0	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
28	890.2	584.2	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
29	890.0	574.4	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
30	889.8	564.6	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
31	889.6	554.8	0	896.5	883.8	0	896.5	898.5	0	898.5	898.5	0	898.5	897.0	0	900.5	1115.4	0	902.1	1212.0	0	902.1	1212.0	0
TOTAL			96.3																					
Inf. Ac. Ft.			227.0				9.9				98.4					103.6				115.1			18.6	572.6
Outf. Ac. Ft.			192.6				0				0					0				0			0	192.6
Man. Pk. Inf.																								
Man. Pk. Outf.																								
Storage Change			+ 74.4			+ 9.9					+ 98.4					+ 103.6				+ 115.1			+ 18.6	+ 580.0
REMARKS	Outflows as shown are actual outflows as pumped by the San Dimas Water Co. and do not include Evaporation, Percolation or Leakage																							
Max. W. S. Elev.	903.05																							
Min. W. S. Elev.	888.45																							
Max. Peak Inf.	205.1																							
Max. Peak Outf.	6.0																							
Storage and Gage Heights as of Midnight on day shown																								
RECORDS COLLECTED BY	F. A. Follard Roger Dalton												Dan Tander Hydrographer						FIRST 6 MONTHS H. A. V. Checked M. W. R.					
Storage and Gage Heights as of Midnight on day shown																								

Storage based on original reconnaissance survey of 1915.

DAM OPERATION RECORD

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of Puddingstone Dam
On Puddingstone Creek for the Year Ending September 30, 1935.

File No. _____

Continuous Water Stage Recorder Rational
Gage Height Read daily at 8:00 A.M.

Drainage Area 39.16 Square Miles. Capacity of Reservoir 17,398.0 Ac. Ft. at Spillway Elev. 970.0 Ft.

Date	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Area Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	902.40	1224.2	0	902.96	1276.2	0	902.60	1249.2	0	901.70	1182.2	0	901.70	1182.2	0	898.80	997.0	2.2	894.85	775.1	4.2	894.85	775.1	4.2
2	902.40	1224.2	0	902.96	1276.2	0	902.60	1249.2	0	901.70	1182.2	0	901.70	1182.2	0	898.80	997.0	2.2	894.85	775.1	4.2	894.85	775.1	4.2
3	902.40	1224.2	0	902.96	1276.2	0	902.60	1249.2	0	901.70	1182.2	0	901.70	1182.2	0	898.80	997.0	2.2	894.85	775.1	4.2	894.85	775.1	4.2
4	902.40	1224.2	0	902.96	1276.2	0	902.60	1249.2	0	901.70	1182.2	0	901.70	1182.2	0	898.80	997.0	2.2	894.85	775.1	4.2	894.85	775.1	4.2
5	902.40	1224.2	0	902.96	1276.2	0	902.60	1249.2	0	901.70	1182.2	0	901.70	1182.2	0	898.80	997.0	2.2	894.85	775.1	4.2	894.85	775.1	4.2
6	902.40	1224.2	0	902.96	1276.2	0	902.60	1249.2	0	901.70	1182.2	0	901.70	1182.2	0	898.80	997.0	2.2	894.85	775.1	4.2	894.85	775.1	4.2
7	902.45	1238.0	0	902.88	1267.7	0	902.50	1241.8	0	901.35	1156.3	0	901.35	1156.3	0	898.05	960.1	4.2	892.80	741.6	4.2	892.80	741.6	4.2
8	902.00	1278.9	0	902.88	1267.7	0	902.45	1238.0	0	901.25	1148.9	0	901.25	1148.9	0	897.90	952.7	1.1	892.50	711.6	4.2	892.50	711.6	4.2
9	902.05	1282.6	0	902.80	1264.0	0	902.45	1238.0	0	901.15	1141.4	0	901.15	1141.4	0	897.85	950.2	1.2	892.50	701.8	4.2	892.50	701.8	4.2
10	902.05	1282.6	0	902.80	1264.0	0	902.45	1238.0	0	901.05	1134.7	0	901.05	1134.7	0	897.75	942.8	2.2	892.50	694.4	4.2	892.50	694.4	4.2
11	902.05	1282.6	0	902.80	1264.0	0	902.45	1238.0	0	900.95	1128.0	0	900.95	1128.0	0	897.65	935.2	2.2	892.50	687.0	4.2	892.50	687.0	4.2
12	902.05	128																						

Storages Based on Original Reconnaissance Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam
in PUDDINGSTONE CREEK for the Year Ending September 30, 19 36

File No.

Drainage Area 39.16 Square Miles. Capacity of Reservoir 17,398 Ac. Ft. at Spillway Elev. 970.0 Ft.
Gage Height Road Daily

Table with columns for months (OCTOBER to MARCH) and rows for Gage Height, Inflow, and Outflow. Includes summary rows for totals and remarks.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam
in PUDDINGSTONE CREEK for the Year Ending September 30, 19 36

File No.

Drainage Area 39.16 Square Miles. Capacity of Reservoir 17,398 Ac. Ft. at Spillway Elev. 970.0 Ft.
Gage Height Road Daily

Table with columns for months (APRIL to SEPTEMBER) and rows for Gage Height, Inflow, and Outflow. Includes summary rows for totals and remarks.

Storage based on U.S.G.S. Topographical Maps.

DAM OPERATION RECORD																				LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT				
Daily Gauge Height in feet and Operation Record of <u>Puddingstone Diversion</u> Dam																		File No.						
On <u>San Dimas Creek</u> for the Year Ending September 30, 1935.																		Continuous Water Stage Recorder: <u>National</u>						
Drainage Area <u>2.57</u> Square Miles. Capacity of Reservoir <u>147.5</u> Ac. Ft. at Spillway Elev. <u>1152.5</u> Ft.																		Gage Heights Read at Various Times						
Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH			
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	Dry	0			Dry	0			Dry	0			Dry	0			1139.0	15.0						
2	Dry	0				0				0				0			1139.0	15.0						
3		0				0				0				0			1138.8	14.2						
4		0				0				0				0			1139.5	17.5						
5		0				0				0				0			1139.1	15.5						
6		0				0				0				0			1138.2	11.8						
7		0				0				0				0			1137.3	8.9						
8		0				0				0				0			1136.3	5.9						
9		0				0				0				0			1135.3	2.9						
10		0				0				0				0			1134.3	1.3						
11		0				0				0				0			1133.3	0.3						
12		0				0				0				0			Dry	0						
13		0				0				0				0										
14		0				0				0				0										
15		0				0				0				0			1134.0	1.0						
16		0				0				0				0			1134.0	1.0						
17		0				0				0				0			1133.9	0.9						
18		0				0				0				0			1133.9	0.9						
19		0				0				0				0			1133.8	0.8						
20		0				0				0				0			1132.8	0.6						
21		0				0				0				0			1138.3	12.2						
22		0				0				0				0			1139.5	17.5						
23		0				0				0				0			1139.6	18.0						
24		0				0				0				0			1139.6	18.0						
25		0				0				0				0			1139.6	18.0						
26		0				0				0				0			1139.6	18.0						
27		0				0				0				0			1139.6	18.0						
28		0				0				0				0			1139.2	16.0				1137.5 ^o	10.1	
29		0				0				0				0			1139.1	15.5				1136.5	6.5	
30		0				0				0				0			1139.1	15.5				1135.5	3.5	
31		0				0				0				0			1139.1	15.5				1134.6	1.6	
TOTAL																								
Inf. Ac. Ft.		0				0				0				0										
Outf. Ac. Ft.		0				0				0				0										
Max. Peak Inflow		0				0				0				0										
Max. Peak Outflow		0				0				0				0										
Storage Change						0				0				0										
REMARKS		I - Interpolated. Water from San Dimas Dam, released for testing U.S.P.S. Flumes.																						
Max. W. S. Elev.		1139.6	feet	on	Various	Storage	18.0	Acres	Feet	RECORDS COLLECTED BY						FIRST 6 MONTHS								
Min. W. S. Elev.		Dry	feet	on	Various	Storage	0	Acres	Feet	None						Gage Hts. copied M. F. R. Checked H. A. V.								
Max. Peak Inflow			C.F.S. from	on	to	on	on	on	on	R. P. Dalton & H. A. Van der Goot						Storage applied M. F. R. Checked H. A. V.								
Max. Peak Outflow			C.F.S. from	on	to	on	on	on	on	C. L. Brewster						Inf. & Outf. computed Date 5-21-36								
Gage Heights & Storage as of Midnight on day shown																								

DAM OPERATION RECORD																				LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT				
Daily Gauge Height in feet and Operation Record of <u>Puddingstone Diversion</u> Dam																		File No.						
On <u>San Dimas Creek</u> for the Year Ending September 30, 1935.																		Continuous Water Stage Recorder: <u>National</u>						
Drainage Area <u>2.57</u> Square Miles. Capacity of Reservoir <u>147.5</u> Ac. Ft. at Spillway Elev. <u>1152.5</u> Ft.																		Gage Heights Read at Various Times						
Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1133.6	0.6			Dry	0			Dry	0			Dry	0			Dry	0			Dry	0		
2	Dry	0				0				0				0				0				0		
3		0				0				0				0				0				0		
4		0				0				0				0				0				0		
5		0				0				0				0				0				0		
6		0				0				0				0				0				0		
7		0				0				0				0				0				0		
8	1135.5	3.5				0				0				0				0				0		
9	1135.1	2.3				0				0				0				0				0		
10	1134.6	1.6				0				0				0				0				0		
11	1133.9	0.8				0				0				0				0				0		
12	Dry	0				0				0				0				0				0		
13		0				0				0				0				0				0		
14		0				0				0				0				0				0		
15		0				0				0				0				0				0		
16		0				0				0				0				0				0		
17		0				0				0				0				0				0		
18		0				0				0				0				0				0		
19		0				0				0				0				0				0		
20		0				0				0				0				0				0		
21		0				0				0				0				0				0		
22		0				0				0				0				0				0		
23		0				0				0				0				0				0		
24		0				0				0				0				0				0		
25		0				0				0				0				0				0		
26		0				0				0				0				0				0		
27		0				0				0				0				0				0		
28		0				0				0				0				0				0		
29		0				0				0				0				0				0		
30		0				0				0				0				0				0		
31		0				0				0				0				0				0		
TOTAL																								
Inf. Ac. Ft.						0				0				0				0				0		
Outf. Ac. Ft.						0				0				0				0				0		
Max. Peak Inflow						0				0				0				0				0		
Max. Peak Outflow						0				0				0				0				0		
Storage Change						0				0				0				0				0		
REMARKS		RECORDS INSUFFICIENT																						
Max. W. S. Elev.		1139.6	feet	on	Various	Storage	18.0	Acres	Feet	RECORDS COLLECTED BY						SECOND 6 MONTHS								
Min. W. S. Elev.		Dry	feet	on	Various	Storage	0	Acres	Feet	None						Gage Hts. copied M. F. R. Checked H. A. V.								
Max. Peak Inflow			C.F.S. from	on	to	on	on	on	on	R. P. Dalton & H. A. Van der Goot						Storage applied M. F. R. Checked H. A. V.								
Max. Peak Outflow			C.F.S. from	on	to	on	on	on	on	C. L. Brewster						Inf. & Outf. computed Date 5-21-36								
Gage Heights and Storage as of Midnight on day shown																								

Storage Based on L.A.C.F.D. Survey of June 1936.

DAM OPERATION RECORD																										
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT																										
Continuous Water Stage Recorder, Rational																										
Gage Heights Read at Various Times																										
Daily Gage Height in feet and Operation Record of <u>PIDDINGSTONE DIVERSION</u> Dam																										
On <u>SAN DIMAS CREEK</u> for the Year Ending September 30, 19 <u>36</u>																										
Drainage Area <u>2.57</u> Square Miles Capacity of Reservoir <u>121.2</u> Ac. Ft. at Spillway Elev. <u>1152.5</u> Ft.																										
Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH					
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow		
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TOTAL																										
Inf. Ac. Ft.																										
Out. Ac. Ft.																										
Mean Daily Inflow																										
Mean Daily Outflow																										
Storage Change																										

REMARKS: * Discharges estimated by inspection of recorder sheets and San Dimas Dam. Outflow 1 = Interpolated.

Max. W. S. Elev. 1152.35 feet on 4-10-36 Storage 119.3 Acres Feet

Min. W. S. Elev. Dry on various times Storage 0 Acres Feet

Max. Peak Inf. 38.1 C.F.S. from 10:42A on 4-10-36 to 10:59A on 4-10-36 F. A. Pollard Dam Tender Gage Hts. copied H. A. V. Checked H. T. R.

Max. Peak Out. 1400+ C.F.S. from at 2:10 AM on 4-10-36 = diverted to = Pudd. Dam R. P. Dalton Hydrographer Storage spilled H. A. V. Checked H. T. R.

Gage Heights reduced to midnight on day shown. H. A. Van der Goot Hydrographer Inf. & Outl. computed H. A. V. Checked H. T. R. Date 3-29-36

DAM OPERATION RECORD																										
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT																										
Continuous Water Stage Recorder, Rational																										
Gage Heights Read at Various Times																										
Daily Gage Height in feet and Operation Record of <u>PIDDINGSTONE DIVERSION</u> Dam																										
On <u>SAN DIMAS CREEK</u> for the Year Ending September 30, 19 <u>36</u>																										
Drainage Area <u>2.57</u> Square Miles Capacity of Reservoir <u>121.2</u> Ac. Ft. at Spillway Elev. <u>1152.5</u> Ft.																										
Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER					
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow		
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31																										
TOTAL																										
Inf. Ac. Ft.																										
Out. Ac. Ft.																										
Mean Daily Inflow																										
Mean Daily Outflow																										
Storage Change																										

REMARKS: 1 = Interpolated.

Max. W. S. Elev. 1152.35 feet on 4-10-36 Storage 119.3 Acres Feet

Min. W. S. Elev. Dry on various times Storage 0 Acres Feet

Max. Peak Inf. 38.1 C.F.S. from 10:42A on 4-10-36 to 10:59A on 4-10-36 F. A. Pollard Dam Tender Gage Hts. copied H. A. V. Checked H. T. R.

Max. Peak Out. 1400+ C.F.S. from at 2:00P on 4-10-36 = diverted to = Pudd. Dam R. P. Dalton Hydrographer Storage spilled H. A. V. Checked H. T. R.

Gage Heights reduced to midnight on day shown. H. A. Van der Goot Hydrographer Inf. & Outl. computed H. A. V. Checked H. T. R. Date 3-29-37

Storage is based on original reconnaissance survey of 1916.

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

DAM OPERATION RECORD LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

File No.

In SAN DIMAS CANYON for the Year Ending September 30, 1935

Continuous Water Stage Recorder - All

Drainage Area 35.92 Square Miles. Capacity of Reservoir 1496.0 Ac. Ft. at Spillway Elev. 1462.0 Ft.

Gage Heights read daily at 8 A.M.

Table with columns for months (OCTOBER to MARCH) and rows for Gage Height, Inflow, and Outflow. Includes summary statistics and remarks at the bottom.

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

DAM OPERATION RECORD LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

File No.

In SAN DIMAS CANYON for the Year Ending September 30, 1935

Continuous Water Stage Recorder - All

Drainage Area 15.92 Square Miles. Capacity of Reservoir 1496.0 Ac. Ft. at Spillway Elev. 1462.0 Ft.

Gage Heights read daily at 8 A.M.

Table with columns for months (APRIL to SEPTEMBER) and rows for Gage Height, Inflow, and Outflow. Includes summary statistics and remarks at the bottom.

Storages based on U.S.F.S. Survey of 1929

Daily Gage Height in feet and Operation Record of <u>SAN DIMAS</u> Dam														DAM OPERATION RECORD LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT													
In <u>San Dimas Canyon</u> for the Year Ending September 30, 19 <u>36</u>														File No. _____													
Drainage Area <u>15.92</u> Square Miles. Capacity of Reservoir <u>1372.9</u> Ac. Ft. at Spillway Elev. <u>1462.0</u> Ft.														Continuous Water Stage Recorder <u>AU</u>													
Gage Heights <u>Read Daily</u>														Gage Heights <u>Read Daily</u>													
OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH							
Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow				
1	1400.2	57.4	0	3.5	1393.7	33.1	0	1.0	1393.7	33.1	0	0	1394.0	34.3	0.2	0	1398.9	60.0	1.6	0	1429.1	425.3	3.8	0			
2	1399.3	52.2	0	2.6	1393.7	33.1	0	0	1393.7	33.1	0	0	1394.1	34.8	0.2	0	1402.4	82.9	11.5	0	1429.5	432.8	3.8	0			
3	1398.8	59.4	0	1.4	1393.7	33.1	0	0	1393.7	33.1	0	0	1394.2	35.2	0.2	0	1403.0	87.1	2.1	0	1429.8	438.5	2.8	0			
4	1398.2	56.1	0	1.6	1393.7	33.1	0	0	1393.7	33.1	0	0	1394.4	35.0	0.2	0	1403.3	89.2	1.0	0	1430.1	444.5	3.0	0			
5	1397.7	53.4	0	1.4	1393.7	33.1	0	0	1393.7	33.1	0	0	1394.5	36.4	0.2	0	1403.5	90.6	0.7	0	1430.4	451.1	3.3	0			
6	1397.2	50.6	0	1.4	1393.7	33.1	0	0	1393.7	33.1	0	0	1394.7	37.3	0.5	0	1403.7	92.0	0.7	0	1430.7	457.6	3.2	0			
7	1396.7	42.9	0	1.3	1393.7	33.1	0	0	1393.7	33.1	0	0	1394.9	38.1	0.4	0	1403.9	93.5	0.8	0	1430.9	462.0	2.2	0			
8	1396.1	44.6	0	1.7	1393.7	33.1	0	0	1393.7	33.1	0	0	1395.1	39.1	0.5	0	1404.1	94.9	0.7	0	1431.1	466.6	2.2	0			
9	1395.6	41.8	0	1.4	1393.7	33.1	0	0	1393.7	33.1	0	0	1395.3	40.2	0.5	0	1404.3	96.3	0.7	0	1431.3	470.7	2.1	0			
10	1395.1	39.1	0	1.3	1393.7	33.1	0	0	1393.7	33.1	0	0	1395.5	41.3	0.6	0	1404.5	97.7	0.7	0	1431.5	475.1	2.2	0			
11	1394.8	37.7	0	0.7	1393.7	33.1	0	0	1393.7	33.1	0	0	1395.7	42.4	0.5	0	1404.7	99.1	0.7	0	1431.7	479.5	2.2	0			
12	1394.5	36.4	0	0.7	1393.7	33.1	0	0	1393.7	33.1	0	0	1395.8	42.9	0.3	0	1404.9	100.6	0.6	0	1431.9	483.9	2.2	0			
13	1394.3	35.6	0	0.4	1393.7	33.1	0	0	1393.7	33.1	0	0	1396.0	44.0	0.5	0	1405.1	102.0	0.5	0	1432.1	488.2	2.2	0			
14	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0.2	1396.2	45.1	0.6	0	1405.3	103.5	0.5	0	1432.3	492.4	1.1	0			
15	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0	1396.3	45.7	0.3	0	1405.5	105.0	0.4	0	1432.5	496.6	2.2	0			
16	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0	1396.5	46.8	0.5	0	1405.7	106.4	0.3	0	1432.7	500.8	1.1	0			
17	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0	1396.7	47.9	0.6	0	1405.9	107.8	1.4	2.2	1432.9	505.0	2.2	0			
18	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0	1396.8	48.4	0.3	0	1406.1	109.2	1.6	1.1	1433.1	509.2	1.1	0			
19	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0	1397.0	49.5	0.5	0	1406.3	110.6	1.5	1.1	1433.3	513.4	2.2	0			
20	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0	1397.1	50.1	0.3	0	1406.4	112.0	1.1	1.1	1433.5	517.6	1.1	0			
21	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0	1397.2	50.6	0.3	0	1406.5	113.4	0.7	6.6	1433.7	521.8	2.2	0			
22	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0	1397.3	51.1	0.3	0	1406.6	114.8	0.7	7.8	1433.9	526.0	1.1	0			
23	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0	1397.4	51.7	0.2	0	1406.7	116.2	1.6	1.1	1434.1	530.2	1.1	0			
24	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.7	0	0	1397.5	52.3	0.3	0	1406.8	117.6	1.3	8.5	1434.3	534.4	3.3	0			
25	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.3	0	0.2	1397.6	52.8	0.3	0	1406.9	119.0	1.5	7.6	1434.5	538.6	2.2	0			
26	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.3	0	0	1397.7	53.4	0.3	0	1407.0	120.4	1.5	7.6	1434.7	542.8	2.2	0			
27	1394.3	35.6	0	0	1393.7	33.1	0	0	1393.7	32.3	0	0	1397.8	53.9	0.2	0	1407.1	121.8	1.5	7.6	1434.9	547.0	1.1	0			
28	1394.3	35.6	0	0.2	1393.7	33.1	0	0	1393.7	32.3	0	0	1397.9	54.4	0.3	0	1407.2	123.2	1.5	7.6	1435.1	551.2	1.1	0			
29	1394.2	35.2	0	0	1393.7	33.1	0	0	1393.8	33.5	0.5	0	1398.0	54.9	0.6	0	1407.3	124.6	1.5	9.5	1435.3	555.4	1.1	0			
30	1394.2	35.2	0	0	1393.7	33.1	0	0	1393.8	33.5	0	0	1398.2	55.1	0.2	0	1407.4	126.0	1.5	9.5	1435.5	559.6	4.4	0			
31	1394.2	35.2	0	0	1393.7	33.1	0	0	1393.9	33.9	0.2	0	1398.3	55.7	0.3	0	1407.5	127.4	1.4	0	1435.7	563.8	10.9	0			
TOTAL			19.6				1.0				0.8	0.4			11.4				313.2	132.7			76.8				
Inf. Ac. Ft.											1.6				22.8				626.4				153.6	808.4			
Outf. Ac. Ft.			39.2				2.0				0.8				0								307.4				
Mag. Diff. Inflow											0.6				0.6								10.9	35.0			
Mag. Diff. Outflow															0.2								0.7	1.1			
Storage Change			-39.2				-2.1				+0.8				+22.8								+153.6	+496.9			

REMARKS: Flows as shown are computed from storage changes as indicated by recorder chart.

Max. W. S. Elev. <u>1440.8</u>	feet on <u>4-9-36</u>	Storage <u>696.2</u>	Acres Feet	RECORDS COLLECTED BY	Dam Tender	Gage Hts. copied	SECOND 6 MONTHS	Checked	M/W/R
Min. W. S. Elev. <u>1395.5</u>	feet on <u>Various times</u>	Storage <u>32.3</u>	Acres Feet	Geo. W. Rodgers	Hydrographer	H. A. V.	Checked	M/W/R	
Max. Peak Inflow <u>134.8</u>	C.F.S. from <u>7:00 P.M.</u> on <u>2-11-36</u> to <u>8:00 P.M.</u> on <u>2-11-36</u>			R. P. Dalton	Hydrographer	H. A. V.	Checked	M/W/R	
Max. Peak Outflow <u>135.2</u>	C.F.S. from <u>9:00 A.M.</u> on <u>4-10-36</u> to <u>10:00 A.M.</u> on <u>4-10-36</u>				Hydrographer	H. A. V.	Checked	M/W/R	

Gage Heights reduced to midnight on day shown.

Daily Gage Height in feet and Operation Record of <u>SAN DIMAS</u> Dam														DAM OPERATION RECORD LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT													
In <u>San Dimas Canyon</u> for the Year Ending September 30, 19 <u>36</u>														File No. _____													
Drainage Area <u>15.92</u> Square Miles. Capacity of Reservoir <u>1372.9</u> Ac. Ft. at Spillway Elev. <u>1462.0</u> Ft.														Continuous Water Stage Recorder <u>AU</u>													
Gage Heights <u>Read Daily</u>														Gage Heights <u>Read Daily</u>													
APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER							
Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow				
1	1436.1	578.7	3.7	0	1436.3	583.6	1.2	0	1426.7	379.9	0.5	2.3	1417.6	255.6	0	2.7	1392.0	25.0	0	2.2	1393.9	33.9	0	0			
2	1436.3	583.6	2.4	0	1436.4	586.1	1.3	0	1426.5	376.1	0.5	2.4	1417.1	258.9	0	3.3	1392.1	50.1	0	2.2	1393.9	33.9	0	0			
3	1436.7	593.4	4.9	0	1436.4	586.1	1.2	1.2	1426.3	372.3	0.5	2.4	1416.7	253.5	0	2.7	1396.2	45.1	0	2.5	1393.9	33.9	0	0			
4	1438.5	637.6	22.1	0	1436.3	583.6	1.2	2.4	1426.1	368.5	0.5	2.4	1416.3	248.2	0	2.7	1395.4	40.7	0	2.2	1393.9	33.9	0	0			
5	1439.3	657.2	9.8	0	1436.2	581.1	1.2	2.4	1425.8	362.8	0.5	3.3	1415.8	241.5	0	3.3	1394.5	36.4	0	2.2	1393.9	33.9	0	0			
6	1440.9	671.9	7.3	0	1436.1	578.7	1.2	2.4	1425.6	359.1	0.4	2.3	1415.4	205.2	0	2.7	1394.0	34.3	0	1.1	1393.8	33.5	0	0.2			
7	1440.3	682.6	5.9	0	1436.0	576.2	1.1	2.4	1425.4	355.3	0.4	2.3	1414.9	199.7	0	2.6	1394.0	34.3	0	0	1393.8	33.5	0	0			
8	1440.6	690.7	4.0	0	1435.9	573.8	1.1	2.3	1425.2	351.5	0.4	2.3	1414.4	194.2	0	2.8	1394.0	34.3	0	0	1393.8	33.5	0	0			
9	1437.7	618.0	3.7	40.0	1435.8	571.3	1.1	2.3	1424.9	346.1	0.4	3.1	1414.0	189.8	0	2.2	1394.0	34.3	0	0	1393.8	33.5	0	0			
10	1432.5	497.0	3.5	64.0	1435.6	566.4	1.1	3.6	1424.7	342.9	0.4	2.0	1413.5	184.3	0	2.7	1394.0	34.3	0	0	1393.8	33.5	0	0			
11	1432.8	503.6	2.3	0	1435.5	564.0	1.0	2.2	1424.4	338.1	0.3	2.7	1413.0	178.8	0	2.8	1394.0	34.3	0	0	1393.8	33.5	0	0			
12	1433.1	510.1	3.2	0	1435.3	559.1	1.0	3.4	1424.2	334.9	0.3	1.9	1412.5	173.3	0	2.7	1394.0	34.3	0	0	1393.8	33.5	0	0			
13	1433.3	514.5	2.2	0	1435.0	553.7	1.0	4.7	1423.9	330.1	0.3	2.7	1412.0	167.7	0	2.8	1394.0	34.3	0	0	1393.8	33.5	0	0			
14	1433.6	5																									

DAM OPERATION RECORD															LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT										
Daily Gage Height in feet and Operation Record of <u>SAN GABRIEL</u> Dam NO. 2															File No. _____										
In <u>West Fork San Gabriel Canyon</u> for the Year Ending September 30, 1935															Continuous Water Stage Recorder _____										
Drainage Area <u>40.42</u> Square Miles Capacity of Reservoir <u>12,298.4</u> Ac. Ft. at Spillway Elev. <u>2385.0</u> Ft.															Gage Height <u>No record</u>										
Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				
	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
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31																									
TOTAL																									
Inf. Ac. Ft.																									
Outf. Ac. Ft.																									
Max. Daily Inflow																									
Max. Daily Outflow																									
Storage Change																									
REMARKS	DAM UNDER CONSTRUCTION - - - NO RECORD																								
Max. W. S. Elev.	feet on _____				Storage _____				Acro Feet _____				RECORDS COLLECTED BY _____				SECOND 6 MONTHS _____								
Min. W. S. Elev.	feet on _____				Storage _____				Acro Feet _____				DAM TENDER _____				GAGE Hts. copied _____								
Max. Peak Inflow	C.F.S. from _____				_____				_____				Hydrographer _____				Storage applied _____								
Max. Peak Outflow	C.F.S. from _____				_____				_____				Hydrographer _____				Inf. & Outf. computed _____								

Storage is based on L.A.C.F.C.D. Survey of 1935.

DAM OPERATION RECORD															LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT									
Daily Gage Height in feet and Operation Record of <u>SAN GABRIEL #2</u> Dam															File No. _____									
In <u>San Gabriel Canyon-West Fork</u> for the Year Ending September 30, 1935															Continuous Water Stage Recorder <u>RD# 17 9:00 A.M.</u>									
Drainage Area <u>40.42</u> Square Miles Capacity of Reservoir <u>12,298.4</u> Ac. Ft. at Spillway Elev. <u>2385.0</u> Ft.															Gage Height <u>No record</u>									
Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acro Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1					2225.2	767.2	23.4	40.7	2225.1	764.6	16.8	18.1	2225.3	557.9	8.6	15.0	2208.4	225.5	2.8	7.0	2192.4	59.9	0.5	2.0
2					2224.9	759.5	31.4	35.2	2225.0	761.9	15.5	14.9	2225.1	555.4	7.7	10.0	2207.8	227.1	2.8	7.0	2192.1	57.7	0.7	1.8
3					2224.9	759.5	27.8	27.8	2224.9	759.5	14.2	15.4	2225.8	545.7	6.7	10.0	2207.1	217.5	1.6	6.5	2191.7	54.8	0.4	1.8
4					2224.9	759.5	28.5	28.5	2224.8	757.1	14.2	15.4	2225.6	542.2	8.3	10.5	2206.4	207.5	2.1	7.0	2191.3	51.9	0.5	1.8
5					2225.1	764.5	27.7	25.2	2224.7	754.7	13.6	14.8	2225.2	532.2	8.2	10.5	2205.7	137.7	1.5	6.5	2191.0	42.7	0.5	1.5
6					2225.5	775.0	29.5	31.1	2224.4	749.8	12.3	14.8	2224.8	524.7	5.7	10.0	2205.0	127.8	1.6	6.5	2189.9	41.9	0.3	3.4
7					2225.5	775.0	27.6	21.1	2224.4	747.4	13.0	14.2	2224.4	516.7	5.0	10.0	2204.4	130.6	2.4	6.0	2188.4	35.3	0.3	4.2
8					2225.7	780.2	28.5	25.9	2224.2	742.5	11.8	14.2	2223.9	506.5	4.9	10.0	2203.7	172.2	1.4	5.5	2185.8	28.2	0.2	3.4
9					2225.4	772.4	27.0	30.9	2224.0	737.7	11.8	14.2	2223.5	498.5	5.5	9.5	2203.0	165.9	1.3	5.5	2185.6	22.1	0.2	3.4
10					2225.0	761.9	26.7	32.0	2223.7	730.4	10.6	14.2	2223.1	490.4	4.9	9.0	2202.3	155.5	1.2	5.5	2181.4	12.3	0.2	6.5
11					2224.8	757.1	25.4	27.8	2223.5	725.0	11.3	14.2	2222.7	482.2	5.0	10.0	2201.5	145.2	0.2	5.0	2179.9	8.9	0.1	2.8
12					2224.9	759.5	25.1	26.9	2223.3	720.7	11.2	13.6	2222.0	475.1	2.9	10.0	2200.9	138.7	1.0	4.5	2180.4	10.0	0.1	0.7
13					2225.2	757.2	23.4	19.5	2223.0	713.4	9.3	13.0	2221.4	466.0	3.4	9.5	2200.3	131.5	1.0	4.5	2179.1	7.9	0.1	0.5
14					2225.5	769.8	25.5	25.2	2222.8	708.6	10.6	13.0	2220.7	441.8	2.9	10.0	2199.7	125.0	1.3	4.6	2175.9	4.8	0.1	0.6
15					2225.0	761.9	28.0	32.0	2222.5	701.2	9.2	13.0	2220.1	429.7	4.0	10.0	2199.2	120.1	2.2	4.6	2174.7	2.1	0.1	0.6
16					2224.9	759.5	21.5	22.7	2222.3	696.4	10.6	13.0	2219.5	418.7	4.0	9.5	2198.6	114.2	1.5	4.5	Dry	0	0.1	0.8
17					2224.9	759.5	17.4	17.4	2222.1	691.5	10.6	13.0	2218.8	406.1	3.2	9.5	2197.9	107.4	1.2	4.6	"	0	0.5	0.6
18					2225.0	761.9	16.5	17.4	2221.9	684.2	9.2	13.0	2218.1	393.5	3.2	9.5	2197.2	100.5	0.8	4.2	"	0	0.5	0.5
19					2224.7	759.5	19.9	21.1	2221.4	677.0	8.8	13.0	2217.5	382.7	4.1	9.5	2196.7	95.5	1.7	4.2	"	0	0.2	0.2
20					2224.9	759.5	19.9	21.1	2221.1	667.3	8.2	13.0	2216.8	370.1	3.7	9.0	2196.2	90.7	1.8	4.2	"	0	0.1	0.1
21					2224.8	757.1	20.7	21.9	2220.6	665.1	6.9	13.0	2216.1	357.5	2.2	8.5	2195.7	85.8	1.5	3.8	"	0	0.1	0.1
22					2224.9	759.5	19.5	19.5	2220.2	645.4	8.1	13.0	2215.3	343.1	1.3	8.5	2195.3	81.9	1.0	3.0	"	0	0.1	0.1
23					2224.8	757.1	18.1	18.1	2220.0	636.1	8.4	13.0	2214.5	329.7	1.8	8.5	2194.9	78.2	1.0	2.8	"	0	0.1	0.1
24					2224.9	759.5	19.3	18.1	2220.3	627.1	7.9	12.4	2213.9	313.5	2.9	8.5	2194.5	75.8	1.2	2.8	"	0	0.2	0.2
25					2224.9	759.5	17.4	17.4	2220.3	616.0	5.6	11.2	2213.1	307.4	2.4	8.0	2194.2	72.1	1.4	2.5	"	0	0.2	0.3
26					2224.9	759.5	16.7	16.7	2220.4	604.8	5.6	11.2	2212.5	297.9	3.2	8.0	2194.0	71.7	1.6	2.3	"	0	0.3	0.3
27					2224.9	759.5	21.2	16.0	2220.9	593.6	6.2	11.8	2211.8	286.7	2.4	8.0	2193.9	70.9	2.1	2.5	"	0	0.3	0.2
28					2225.4	772.4	16.7	15.4	2221.5	584.7	7.4	11.8	2211.2	277.2	3.2	8.0	2193.7	69.5	1.6	2.2	"	0	0.3	0.3
29					2225.5	769.8	14.1	15.4	2221.7	575.7	6.7	11.2	2210.5	266.0	1.9	7.5	2193.4	67.3	0.9	2.0	"	0	0.2	0.2
30					2225.5	769.8	20.3	20.3	2221.7	565.8	5.7	10.2	2209.7	253.8	1.4	7.5	2193.1	65.1	0.9	2.0	"	0	0.2	0.3
31					2225.2	767.2	17.5	18.8					2209.0	244.0	2.5	7.								

Storages based on L.A.C.F.C.D. Survey of January, 1936.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam No. 2

In West Fork of San Gabriel Canyon for the Year Ending September 30, 1936

Continuous Water Stage Recorder Pressure

Table with columns for months (OCTOBER to MARCH) and rows for Gage Height, Inflow, and Outflow. Includes summary statistics at the bottom and a 'REMARKS' section.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam No. 2

In West Fork San Gabriel Canyon for the Year Ending September 30, 1936

Continuous Water Stage Recorder Pressure

Table with columns for months (APRIL to SEPTEMBER) and rows for Gage Height, Inflow, and Outflow. Includes summary statistics at the bottom and a 'REMARKS' section.

DAM OPERATION RECORD		LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT																DAM									
Daily Gage Height in feet and Operation Record of.....		SANTA ANITA																Dam									
On.....		BIG SANTA ANITA CREEK																for the Year Ending September 30, 1935									
Drainage Area.....		10.82		Square Miles.....		Capacity of Reservoir.....		1068.3		Ac. Ft. at Spillway Elev.....		1316.0		Ft.		Gage Height.....		Feet.....		Read daily at 7 A.M.							
No.	Gage Height	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				Day	
		Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow			
1	122.2	227.0	0.2	2.3	1203.2	107.7	0.3	4.0	1171.6	28.5	0.5	0.4	1192.8	75.9	1.9	4.0	1204.4	111.6	4.3	5.8	1288.5	704.8	7.0	2.1	1		
2	122.4	228.8	0.2	2.3	1201.1	100.9	0.3	3.9	1171.7	28.7	0.5	0.4	1190.7	70.1	1.1	4.0	1205.2	114.3	3.5	2.1	1289.0	710.3	7.0	2.1	2		
3	122.6	218.6	0.2	2.3	1198.8	93.6	0.3	3.7	1171.7	28.7	0.5	0.6	1188.3	63.9	1.4	4.5	1205.9	117.0	3.4	2.1	1288.7	707.0	6.2	9.9	3		
4	122.8	214.5	0.2	2.3	1196.6	86.9	0.3	3.5	1171.7	28.7	0.7	0.7	1186.3	56.8	2.3	4.8	1208.1	125.6	6.4	2.1	1288.9	709.2	6.1	5.0	4		
5	122.9	209.8	0.2	2.3	1195.0	82.0	0.3	3.2	1172.0	29.2	0.7	0.4	1206.6	119.7	30.9	0.5	1228.3	217.1	45.8	0	1289.5	715.7	5.3	2.0	5		
6	122.6	206.7	0.2	2.3	1193.7	78.4	0.2	2.0	1171.9	29.0	0.5	0.6	1213.6	147.4	13.9	0	1239.0	278.1	30.5	0	1290.3	724.7	9.0	1.5	6		
7	122.5	201.6	0.1	2.3	1192.4	74.8	0.2	2.0	1171.9	29.0	0.5	0.8	1218.5	169.0	10.8	0	1247.0	331.1	26.5	0	1290.3	724.7	9.7	6.7	7		
8	122.3	196.6	0.1	2.3	1191.1	71.2	0.2	2.0	1172.6	30.3	1.6	1.0	1221.2	181.6	8.5	2.2	1253.3	376.5	27.7	0	1289.6	716.8	6.0	10.0	8		
9	122.3	192.3	0.1	2.3	1189.9	67.9	0.2	2.0	1172.6	30.3	1.6	1.0	1223.5	192.7	10.4	4.8	1258.2	414.8	19.1	0	1289.9	709.2	6.1	9.9	9		
10	122.2	188.4	0.1	2.2	1188.6	64.6	0.3	2.0	1170.3	26.2	0.9	2.6	1226.2	206.2	11.9	5.1	1262.5	450.7	18.0	0	1288.1	700.5	5.5	9.9	10		
11	122.1	184.0	0.1	2.2	1187.4	61.6	0.4	1.9	1166.3	20.0	0.5	3.6	1228.0	215.5	9.6	5.0	1266.2	482.5	15.9	0	1287.8	697.3	5.1	6.7	11		
12	122.0	180.2	0.1	2.2	1186.2	58.5	0.4	1.9	1164.8	17.8	1.6	2.9	1228.5	217.1	8.8	8.0	1269.6	511.4	14.4	0	1287.7	698.2	4.6	5.1	12		
13	122.0	175.8	0.1	2.2	1185.0	55.5	0.4	1.9	1162.9	14.8	1.9	3.5	1228.5	229.2	7.7	7.4	1272.3	538.1	13.4	0	1287.7	698.2	5.1	5.1	13		
14	121.9	171.7	0.1	2.2	1183.8	52.4	0.4	1.9	1162.4	11.8	2.0	4.2	1228.5	235.7	6.6	9.9	1274.7	561.1	12.6	1.0	1287.5	694.0	4.0	5.1	14		
15	121.8	167.5	0.1	2.2	1182.3	49.6	0.6	2.0	1162.1	8.0	2.6	5.0	1228.5	242.4	5.5	11.0	1276.3	576.8	9.7	2.0	1287.3	691.8	4.0	5.1	15		
16	121.7	163.5	0.1	2.2	1181.3	46.8	0.7	2.1	1161.9	4.1	3.1	5.7	1228.5	249.7	4.5	12.9	1277.8	591.4	9.3	2.0	1287.2	690.7	4.0	4.5	16		
17	121.6	160.6	0.1	2.2	1180.3	44.1	0.8	2.2	1161.0	0.2	3.7	7.1	1228.5	257.0	3.5	14.9	1279.1	604.0	8.3	2.0	1287.4	689.9	3.4	4.0	17		
18	121.5	157.8	0.1	2.2	1179.3	41.4	0.9	2.3	1160.0	-3.1	4.4	8.5	1228.5	264.3	2.5	17.0	1280.4	617.0	7.5	2.0	1287.2	689.2	3.4	4.0	18		
19	121.4	155.0	0.1	2.2	1178.3	38.7	1.0	2.4	1159.0	-6.2	5.1	9.9	1228.5	271.6	1.5	19.1	1281.4	624.9	6.5	2.0	1287.2	689.2	3.5	4.0	19		
20	121.3	152.3	0.1	2.2	1177.3	36.0	1.1	2.5	1158.0	-9.3	5.8	11.3	1228.5	278.9	0.5	21.2	1282.4	632.7	5.5	2.0	1287.1	689.7	3.5	4.0	20		
21	121.2	149.6	0.1	2.2	1176.3	33.3	1.2	2.6	1157.0	-12.4	6.5	12.7	1228.5	286.2	-0.5	22.4	1283.3	640.5	4.5	2.0	1287.1	689.7	4.0	4.0	21		
22	121.1	147.0	0.1	2.2	1175.3	30.6	1.3	2.7	1156.0	-15.5	7.2	14.1	1228.5	293.5	-1.5	23.6	1284.2	648.3	3.5	2.0	1287.0	688.6	3.4	4.0	22		
23	121.0	144.4	0.1	2.2	1174.3	27.9	1.4	2.8	1155.0	-18.6	7.9	15.5	1228.5	300.8	-2.5	24.8	1285.0	656.1	2.5	2.1	1286.9	688.6	3.4	4.0	23		
24	120.9	141.8	0.1	2.2	1173.3	25.2	1.5	2.9	1154.0	-21.7	8.6	16.9	1228.5	308.1	-3.5	26.0	1285.9	663.9	1.5	2.1	1286.8	688.6	3.7	3.1	24		
25	120.8	139.2	0.1	2.2	1172.3	22.5	1.6	3.0	1153.0	-24.8	9.3	18.3	1228.5	315.4	-4.5	27.2	1286.7	671.7	0.5	2.1	1286.8	688.6	3.7	3.1	25		
26	120.7	136.6	0.1	2.2	1171.3	19.8	1.7	3.1	1152.0	-27.9	10.0	19.7	1228.5	322.7	-5.5	28.4	1287.0	679.5	-0.5	2.1	1286.8	688.6	3.7	3.1	26		
27	120.6	134.0	0.1	2.2	1170.3	17.1	1.8	3.2	1151.0	-31.0	10.7	21.1	1228.5	330.0	-6.5	29.6	1287.5	687.3	-1.5	2.1	1286.8	688.6	3.7	3.1	27		
28	120.5	131.4	0.1	2.2	1169.3	14.4	1.9	3.3	1150.0	-34.1	11.4	22.5	1228.5	337.3	-7.5	30.8	1288.0	695.1	-2.5	2.1	1286.8	688.6	3.7	3.1	28		
29	120.4	128.8	0.1	2.2	1168.3	11.7	2.0	3.4	1149.0	-37.2	12.1	23.9	1228.5	344.6	-8.5	32.0	1288.5	702.9	-3.5	2.1	1286.8	688.6	3.7	3.1	29		
30	120.3	126.2	0.1	2.2	1167.3	9.0	2.1	3.5	1148.0	-40.3	12.8	25.3	1228.5	351.9	-9.5	33.2	1289.0	710.7	-4.5	2.1	1286.8	688.6	3.7	3.1	30		
31	120.2	123.6	0.1	2.2	1166.3	6.3	2.2	3.6	1147.0	-43.4	13.5	26.7	1228.5	359.2	-10.5	34.4	1289.5	718.5	-5.5	2.1	1286.8	688.6	3.7	3.1	31		
TOTAL		32.9		91.0		24.0		67.4		184.2		158.2		267.3		289.1		333.8		42.4		148.9		162.3			
Inf. Ac. Ft.		65.8		182.0		134.8		368.4		316.4		498.2		667.6		84.8		324.6		1140.6		8.2		443.2			
Out. Ac. Ft.		12.3		2.7		58.0		30.9		45.8		24.8		3.4		-		-		-		-		-			
Max. Peak Inflow		-116.2		-85.9		51.9		436.5		+562.8		-24.9		443.2													
Storage Change		-116.2		-85.9		51.9		436.5		+562.8		-24.9		443.2													
REMARKS		* 3-17-35 large earth slide into reservoir. Inflow as shown in inflow and debris. [Mean for period]																									
Max. W. S. Elev.		1293.5		feet on 4-8-35		Storage 763.4		Ac. Feet		Joseph R. Propst		Dam Tender		Gage Hts. copied		H. A. V.		Checked		M. W. R.							
Min. W. S. Elev.		1164.8		feet on 12-12-34		Storage 17.8		Ac. Feet		Roger Dalton		Hydrographer		Storage applied		H. A. V.		Checked		M. T. R.							
Max. Peak Inflow		448.7		C.F.S. from 5 A.M. on 4-8-35		to 6 A.M. on 4-8-35				R. E. Lindsey		Hydrographer		Inf. & Outf. computed		H. A. V.		Checked		M. W. R.							
Max. Peak Outflow		146.0		C.F.S. from 5 hrs. on 4-8-35																							
Gage Height and Storage are as of Midnight on day shown.																											

DAM OPERATION RECORD		LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT																DAM								
Daily Gage Height in feet and Operation Record of.....		BIG SANTA ANITA																Dam								
On.....		BIG SANTA ANITA CREEK																for the Year Ending September 30, 1935.								
Drainage Area.....		10.82		Square Miles.....		Capacity of Reservoir.....		1068.3		Ac. Ft. at Spillway Elev.....		1316.0		Ft.		Gage Height.....		Feet.....		Read daily at 7 A.M.						
No.	Gage Height	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				Day
		Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow		
1	128.5	675.6	3.6	3.1	1286.4	682.1	9.4	13.7	1283.6	653.9	5.6	5.6	1277.5	588.5	4.4	3.0	1272.8	542.9	0.8	2.3	1262.2	448.1	0.8	2.5	1	
2	128.5	675.6	3.1	3.1	1286.1	678.8	8.5	10.1	1283.6	651.7	4.5	5.6	1277.6	589.4	3.7	3.2	1272.5	540.0	1.0	2.4	1261.8	444.7	0.8	2.5	2	
3	128.5	676.7	3.7	3.1	1285.7	674.5	7.9	10.1	1283.4	649.6	4.5	5.5	1277.7	590.4	3.6	3.1	1272.3	538.2	1.5	2.5	1261.4	441.3	0.8	2.5	3	
4	128.6	678.8	4.1	3.1	1285.5	672.3	8.7	9.8	1283.8	647.4	4.4	5.5	1277.8	591.4	3.5	3.0	1272.0	535.2	1.5	2.6	1261.0	437.8	0.7	2.5	4	
5	128.6	678.8	3.1	3.1	1285.6	673.4	8.6	8.0	1283.0	645.2	4.3	5.4	1277.8	591.4	2.9	2.9	1271.7	532.3	1.2	2.7	1260.9	434.4	0.8	2.5	5	
6	128.6	678.8	3.1	3.1	1285.6	673.4	8.0	8.0	1282.8	643.1	4.3	5.4	1277.8	591.4	2.8	2.8	1271.3	529.4	0.9	2.8	1260.2	431.0	0.8	2.5	6	
7	128.6	678.8	4.8	3.1	1285.6	673.4	8.0	8.0	1282.6	640.9	4.3	5.4	1277.8	591.4	2.7	2.7	1271.0	525.5	1.4	2.9	1259.7	426.9	0.5	2.5	7	
8	128.6	702.7	92.1	8.1	1285.6	673.4	8.0	8.0	1282.4	638.7	4.3	5.4	1277.7	590.4	2.1	2.6	1270.7	522.6	1.3	2.8	1259.1	422.0</				

Storages based on L.A.C.F.O.D. Survey of 1928

Daily Gage Height in feet and Operation Record of		SANTA ANITA		Dam		File No.																			
In <u>BIG SANTA ANITA CANYON</u> for the Year Ending September 30, 19 <u>36</u>																									
Drainage Area <u>10.82</u> Square Miles. Capacity of Reservoir <u>1014.3</u> Ac. Ft. at Spillway Elev. <u>1316.0</u> Ft.				Gage Heights <u>Read Daily</u>																					
Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1247.5	314.7	0.6	3.0	1215.2	138.4	0.6	3.4	1188.4	51.1	0.8	1.8	1187.6	49.3	1.3	0	1204.6	98.0	8.2	0.2	1265.7	452.6	10.4	9.1	
2	1246.8	309.9	0.5	3.2	1214.0	133.5	0.2	3.4	1187.5	49.1	0.8	1.8	1188.9	52.2	1.2	0	1225.9	187.3	45.3	0.3	1265.5	450.9	8.3	9.1	
3	1246.1	305.2	0.5	3.2	1212.8	128.8	0.2	3.3	1186.5	46.9	0.7	1.8	1189.5	53.5	1.2	0.3	1227.9	197.5	7.1	2.0	1265.4	450.0	8.6	9.1	
4	1245.3	299.7	0.5	3.2	1211.6	124.0	0.2	3.3	1186.2	46.2	0.7	1.8	1189.8	54.2	1.2	0.6	1228.3	199.6	4.2	3.1	1265.5	450.2	7.7	7.2	
5	1244.5	294.9	0.5	3.2	1210.4	119.3	0.2	3.2	1185.7	45.1	1.1	1.6	1190.0	54.6	1.2	0.6	1228.3	199.6	3.0	3.0	1265.9	454.3	7.5	5.8	
6	1243.5	289.1	0.5	3.2	1209.2	114.6	0.2	3.2	1184.6	42.8	0.9	2.1	1190.5	55.9	1.2	0.5	1228.6	201.1	2.2	2.2	1266.2	456.2	6.9	5.6	
7	1242.7	283.0	0.5	3.2	1208.0	110.3	0.2	3.1	1183.6	40.9	1.0	2.0	1191.6	58.7	1.2	0	1229.0	203.2	2.3	1.2	1266.5	459.8	6.9	5.6	
8	1241.9	277.9	0.5	3.2	1206.7	105.6	0.2	3.1	1182.7	39.1	1.0	1.9	1192.7	61.5	1.2	0	1229.6	204.2	1.7	1.2	1266.6	460.4	6.0	5.6	
9	1241.0	272.2	0.5	3.2	1205.8	102.2	0.2	2.9	1181.8	37.3	1.0	1.9	1193.7	64.1	1.2	0	1229.5	205.7	2.0	1.2	1266.7	461.2	6.0	5.6	
10	1240.2	267.1	0.5	3.1	1205.0	99.3	0.2	2.9	1180.9	35.6	1.1	1.9	1194.6	66.4	1.1	0	1230.1	208.9	2.3	0.7	1266.8	462.1	6.1	5.6	
11	1239.3	261.6	0.5	3.1	1204.2	96.6	0.2	2.1	1180.0	33.8	0.9	1.8	1195.4	68.6	1.1	0	1240.3	267.7	29.9	0.3	1266.7	461.2	5.1	5.6	
12	1238.5	256.9	0.7	3.1	1203.3	93.6	0.6	2.1	1179.6	33.1	0.6	1.0	1196.3	71.3	1.1	0	1243.4	422.2	83.6	5.7	1266.6	460.4	5.2	5.6	
13	1237.7	252.7	1.0	3.1	1202.5	90.9	0.7	2.1	1179.6	33.1	0.7	0.7	1197.2	74.0	1.4	0	1246.0	481.0	55.8	26.1	1266.5	459.5	5.2	5.6	
14	1237.1	248.5	1.0	3.1	1201.7	88.2	0.8	2.1	1179.6	33.1	0.7	0.7	1198.1	76.8	1.4	0	1247.5	521.4	46.7	26.4	1266.3	457.8	4.9	5.8	
15	1236.4	244.3	1.0	3.1	1200.9	85.5	0.7	2.1	1179.6	33.1	0.7	0.7	1198.9	79.2	1.2	0	1247.7	560.9	47.3	27.4	1266.1	456.1	5.0	5.8	
16	1235.4	238.5	0.7	3.6	1200.0	82.5	0.6	2.1	1179.6	33.1	0.7	0.7	1199.7	81.6	1.2	0	1248.1	564.7	50.5	48.5	1266.2	456.2	4.7	4.3	
17	1234.4	231.6	0.9	3.0	1199.6	81.5	1.2	2.1	1179.7	33.2	0.9	0.7	1200.0	82.2	1.0	0.6	1248.3	519.6	29.2	52.0	1266.4	458.2	4.0	3.2	
18	1233.2	224.4	0.9	3.0	1199.2	80.1	1.2	2.1	1179.7	33.3	0.7	0.7	1199.8	81.9	1.0	1.2	1247.7	469.8	25.9	51.0	1266.6	460.4	4.1	3.2	
19	1231.7	217.7	0.6	3.8	1198.5	78.0	1.0	2.1	1179.7	33.3	0.7	0.7	1199.7	81.6	0.9	1.2	1246.1	406.8	20.3	52.0	1266.8	462.9	4.1	3.2	
20	1230.5	211.1	0.6	3.9	1197.8	75.9	0.9	2.1	1179.8	33.4	0.8	0.7	1199.5	81.0	0.9	1.2	1246.6	380.0	18.1	31.7	1266.9	462.9	4.0	3.6	
21	1229.4	205.2	0.6	3.8	1197.0	73.4	0.9	2.0	1179.8	33.4	0.7	0.7	1199.3	80.4	0.9	1.2	1249.3	400.7	15.9	5.4	1267.1	464.7	4.5	3.6	
22	1228.2	199.1	0.6	3.8	1196.2	71.0	0.9	2.0	1179.9	33.6	0.8	0.7	1199.2	80.1	0.9	1.1	1250.0	398.4	15.0	16.2	1267.2	465.5	3.8	3.4	
23	1226.9	192.8	0.6	3.8	1195.4	68.6	0.9	2.0	1179.2	33.6	0.7	0.7	1199.1	79.5	0.9	1.2	1248.4	432.6	34.0	16.2	1267.3	466.4	3.9	3.4	
24	1225.6	185.8	0.5	3.8	1194.6	66.4	0.9	2.0	1179.9	33.6	0.7	0.7	1198.7	79.2	0.9	1.2	1247.4	465.5	21.4	5.4	1267.4	469.9	4.7	3.4	
25	1224.2	178.9	0.5	3.7	1193.8	64.3	0.9	2.1	1180.0	33.8	0.8	0.7	1198.6	78.2	0.9	1.1	1247.3	495.4	15.7	16.2	1267.8	470.7	4.2	3.4	
26	1222.8	172.3	0.5	3.6	1193.0	62.3	0.9	2.1	1180.1	34.0	0.7	0.6	1198.6	78.3	0.9	1.1	1246.8	462.1	14.0	16.2	1268.0	472.4	4.1	3.2	
27	1221.5	166.2	0.5	3.6	1192.1	60.0	0.9	2.1	1180.4	34.6	1.0	0.7	1198.5	78.0	0.9	1.1	1245.8	453.5	11.9	16.2	1268.2	474.1	3.5	2.6	
28	1220.2	160.0	0.5	3.6	1191.2	57.7	0.9	1.9	1180.5	35.0	0.9	0.7	1198.2	77.1	0.9	1.2	1245.0	446.6	10.6	14.1	1268.6	477.6	4.3	2.6	
29	1219.0	154.8	0.5	3.6	1190.3	55.4	0.8	1.8	1182.8	33.3	2.5	0.4	1198.1	77.3	1.3	0.7	1245.4	450.0	10.8	9.1	1268.9	480.1	3.1	2.6	
30	1217.8	149.6	0.5	3.6	1189.3	53.1	0.8	1.8	1184.7	33.8	2.4	0.1	1197.9	80.1	1.1	0.6	---	---	---	---	---	---	---	---	---
31	1216.5	144.0	0.5	3.5	---	---	---	---	1186.3	46.5	1.4	0	1199.9	82.2	1.3	0.2	---	---	---	---	---	1274.6	531.4	83.6	2.6
TOTAL			18.2	106.7			26.5	72.3			129.2	32.6			34.4	16.4			636.6	451.2			188.6	147.6	
Inf. Ac. Ft.		36.1				52.6				58.1				68.2					1262.7				374.1	1861.8	
Outf. Ac. Ft.			1.0	211.6			1.5	143.4			2.5	64.7			32.9					894.9			292.8	1639.9	
Max. Peak Inflow																									
Max. Peak Outflow																									
Storage Change																									
REMARKS	Outflows from P.G. Runoff Sta. #19 - During Periods of Release																								
Max. W. S. Elev.	1299.9 feet on 5/1 - 6/36 Storage 685.6 Acres Feet																								
Min. W. S. Elev.	1179.6 feet on 12/12-16/35 Storage 33.1 Acres Feet																								
Max. Peak Inflow	C.F.S. from 4:00 PM on 2-12-36 to 5:00 PM on 2-12-36																								
Max. Peak Outflow	C.F.S. from Noon daily on 2-17+19-36 to																								
Gage Hts. reduced to midnight on day shown.																									

Storages based on L.A.C.F.O.D. Survey of 1928

Daily Gage Height in feet and Operation Record of		SANTA ANITA		Dam		File No.																		
In <u>BIG SANTA ANITA CANYON</u> for the Year Ending September 30, 19 <u>36</u>																								
Drainage Area <u>10.82</u> Square Miles. Capacity of Reservoir <u>1014.3</u> Ac. Ft. at Spillway Elev. <u>1316.0</u> Ft.				Gage Heights <u>Read daily</u>																				
Date	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1275.8	542.7	8.1	2.4	1280.9	685.6	3.5	3.0	1288.5	670.7	2.1	2.1	1284.0	623.3	0.8	2.2	1273.4	520.5	0.2	2.1	1258.1	391.5	0.2	2.2
2	1275.8	552.2	7.2	2.4	1289.9	685.6	3.0	3.0	1288.6	671.8	2.7	2.1	1283.6	618.3	0.8	2.2	1275.0	516.8	0.2	2.1	1257.6	387.7	0.2	2.2
3	1278.8	569.5	11.3	2.6	1289.9	685.6	3.0	3.0	1288.6	671.8	2.1	2.1	1283.5	618.3	0.8	2.2	1272.6	513.2	0.2	2.2	1257.0	383.1	0.2	2.2
4	1281.2	595.0	18.1	5.2	1289.9	685.6	3.0	3.0	1288.6	671.8	2.1	2.1	1283.2	615.2	0.7	2.2	1272.1	508.7	0.2	2.2	1256.5	379.3	0.2	2.2
5	1282.1	604.1	10.8	6.2	1289.9	685.6	3.0	3.0	1288.6	671.8	2.1	2.1	1282.9	611.2	0.7	2.3	1271.7	505.0	0.2	2.2	1256.0	375.5	0.2	2.2
6	1282.6	609.2	8.5	6.0	1289.9	685.6	3.0	3.0	1288.6	671.8	2.1	2.1	1282.5	609.2	0.7	2.3	1271.3	501.4	0.1	2.2	1255.4	370.9	0.2	2.2
7	1282.9	612.2	7.5	6.0	1289.8	684.6	2.7	3.2	1288.6	671.8	2.1	2.1	1282.2	605.1	0.7	2.2								

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAWPIT Dam
in SAWPIT CANYON for the Year Ending September 30, 1935.

Drainage Area 3.27 Square Miles. Capacity of Reservoir 465.3 Ac. Ft. at Spillway Elev. 1360.0 Ft.
Gage Height Read Daily at 8:00 A.M.

Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH			
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1260.6	11.8	0	0	1260.6	11.8	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1280.2	48.0	0	0	1280.2	48.0	0.4	0.6
2	1260.6	11.8	0	0	1260.6	11.8	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1280.2	48.0	0	0	1280.2	48.0	0.4	0.6
3	1260.7	11.9	0	0	1260.7	11.9	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
4	1260.7	11.9	0	0	1260.7	11.9	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
5	1260.7	11.9	0	0	1260.7	11.9	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
6	1260.7	11.9	0	0	1260.7	11.9	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
7	1260.8	12.0	0	0	1260.8	12.0	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
8	1260.8	12.0	0	0	1260.8	12.0	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
9	1260.8	12.0	0	0	1260.8	12.0	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
10	1260.8	12.0	0	0	1260.8	12.0	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
11	1260.9	12.2	0	0	1260.9	12.2	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
12	1260.9	12.2	0	0	1260.9	12.2	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
13	1260.9	12.2	0	0	1260.9	12.2	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
14	1261.0	12.3	0	0	1261.0	12.3	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
15	1261.0	12.3	0	0	1261.0	12.3	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
16	1261.0	12.3	0	0	1261.0	12.3	0	0	1279.4	43.9	0.5	0	1281.9	52.5	0	0	1277.9	42.8	0	0	1277.9	42.8	1.5	0.5
17	1266.1	6.3	3.2	0	1266.1	6.3	3.2	0	1257.0	7.4	4.8	0.6	1295.4	91.6	1.0	4.3	1288.8	71.1	1.2	2.4	1284.5	58.9	0.2	0.7
18	1266.6	6.9	0.3	0	1266.6	6.9	0.3	0	1251.5	15.0	2.8	0	1294.7	89.2	1.7	2.9	1287.7	67.9	0.6	2.2	1284.1	57.9	0.2	0.7
19	1266.6	6.9	0.3	0	1266.6	6.9	0.3	0	1251.5	15.0	2.8	0	1294.7	89.2	1.7	2.9	1287.7	67.9	0.6	2.2	1284.1	57.9	0.2	0.7
20	1267.5	8.0	0.6	0	1267.5	8.0	0.6	0	1254.9	19.5	1.4	0	1294.2	87.7	1.7	2.2	1284.9	59.9	0.1	2.2	1283.5	56.4	0.2	0.9
21	1268.4	9.0	0.6	0	1268.4	9.0	0.6	0	1257.4	22.0	1.2	0	1293.7	86.1	1.6	2.4	1283.7	56.9	0.6	2.1	1283.8	57.2	0.2	0.4
22	1268.9	9.6	0.3	0	1268.9	9.6	0.3	0	1258.7	24.2	1.1	0	1292.7	82.0	0.9	2.4	1282.6	54.1	0.6	2.0	1284.0	57.7	0.2	0.2
23	1269.3	10.1	0.2	0	1269.3	10.1	0.2	0	1259.9	26.2	1.0	0	1291.7	79.8	0.8	2.4	1281.8	52.1	0.7	1.7	1284.2	58.2	0.2	0.2
24	1269.6	10.4	0.2	0	1269.6	10.4	0.2	0	1270.9	28.2	1.0	0	1290.6	76.1	0.6	2.3	1280.9	49.8	0.2	1.4	1286.2	60.8	1.3	0.4
25	1269.8	10.7	0.1	0	1269.8	10.7	0.1	0	1271.8	29.2	0.8	0	1289.6	72.4	0.7	2.1	1279.9	47.5	0.1	1.4	1285.7	62.2	0.7	0.2
26	1269.0	10.9	0.1	0	1269.0	10.9	0.1	0	1272.6	31.5	0.8	0	1288.8	71.1	0.7	2.0	1280.0	47.5	1.4	1.3	1286.2	63.8	0.2	0.2
27	1260.8	11.2	0.1	0	1260.8	11.2	0.1	0	1273.1	32.5	0.6	0	1287.9	68.6	0.6	1.9	1280.3	48.2	1.1	0.7	1286.7	65.1	0.6	0.2
28	1260.3	11.5	0.1	0	1260.3	11.5	0.1	0	1274.8	32.8	1.7	0	1287.0	65.9	0.6	1.8	1280.4	48.6	0.6	0.6	1287.1	66.2	0.6	0.2
29	1260.4	11.5	0.1	0	1260.4	11.5	0.1	0	1276.0	33.5	1.3	0	1285.2	63.6	0.6	1.8	1280.3	48.2	1.1	0.7	1286.7	65.1	0.6	0.2
30	1260.4	11.5	0.1	0	1260.4	11.5	0.1	0	1277.0	34.7	1.1	0	1285.0	62.2	0	1.7	1280.4	48.6	0.6	0.6	1287.1	66.2	0.6	0.2
31	1260.5	11.6	0	0	1260.5	11.6	0	0	1277.7	35.3	0.8	0	1283.5	56.4	0	1.7	1280.4	48.6	0.6	0.6	1287.1	66.2	0.6	0.2
TOTAL																								
Inf. Ac. Ft.																								
Outf. Ac. Ft.																								
Max. Peak Inflow																								
Max. Peak Outflow																								
Storage Change																								

REMARKS: * Water held over boards - 11.6' interpolated. Storage 146.0. C.F.S. from 4-8-35 to 6 A.M. on 4-8-35. C.F.S. from Dec. 15, 1935 an Estimate.

RECORDS COLLECTED BY: M. L. Proker, Roger P. Dalton, R. E. Lindsay. Dam Tender, Hydrographer, Storage applied, Inf. & Outf. computed.

SECOND 6 MONTHS: H. A. V., M. W. R., H. A. V., M. W. R., H. A. V., M. W. R.

Date: 7-3-35

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAWPIT Dam
in SAWPIT CANYON for the Year Ending September 30, 1935.

Drainage Area 3.27 Square Miles. Capacity of Reservoir 465.3 Ac. Ft. at Spillway Elev. 1360.0 Ft.
Gage Height Read daily at 8:00 A.M.

Date	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1288.7	70.8	0.4	0	1309.2	143.7	0.8	1.2	1309.1	143.3	0.5	0.5	1309.1	143.3	0.1	0.1	1298.2	101.3	0	0.7	1288.8	54.6	0	0.5
2	1288.9	71.4	0.3	0	1309.1	143.3	0.8	1.0	1309.2	143.7	0.7	0.5	1309.0	142.9	0.1	0.3	1297.7	99.5	0	0.9	1282.3	51.3	0	0.7
3	1289.1	71.9	0.3	0	1308.9	142.5	0.5	0.9	1309.2	143.7	0.5	0.5	1309.0	142.9	0	0	1297.3	98.2	0	0.7	1281.6	51.6	0	0.8
4	1289.3	72.5	0.3	0	1308.9	142.5	0.5	0.5	1309.2	143.7	0.5	0.5	1309.0	142.9	0	0	1296.8	96.4	0	0.9	1281.0	50.0	0	0.8
5	1289.4	72.8	0.2	0	1308.9	142.5	0.5	0.5	1309.2	143.7	0.5	0.5	1309.0	142.9	0	0	1296.8	96.4	0	0.9	1280.4	48.5	0	0.8
6	1289.6	73.4	0.3	0	1308.9	142.5	0.5	0.5	1309.2	143.7	0.5	0.5	1309.0	142.9	0	0	1296.8	96.4	0	0.9	1280.4	48.5	0	0.8
7	1290.2	75.1	0.8	0	1308.9	142.5	0.5	0.5	1309.1	143.3	0.4	0.6	1309.0	142.9	0	0	1295.5	91.9	0	0.7	1278.3	43.7	0	1.0
8	1309.6	145.4	36.0	0.9	1308.9	142.5	0.4	0.4	1309.1	143.3	0.4	0.4	1309.0	142.9	0	0	1295.0	90.2	0	0.8	1277.2	41.2	0	1.3
9	1309.6	145.4	36.0	0.9	1308.9	142.5	0.4	0.4	1309.1	143.3	0.2	0.2	1308.6	141.2	0	0.8	1294.5	88.6	0	0.8	1276.0	38.5	0	1.3
10	1309.5	144.3	2.6	5.6	1308.9	142.5	0.4	0.4	1309.1	143.3	0.2	0.2	1308.6	141.2	0	0.8	1294.0	87.1	0	0.8	1275.8	35.8	0	1.4
11	1309.5	144.3	2.6	5.6	1308.9	142.5	0.4	0.4	1309.1	143.3	0.1	0.1	1308.6	141.2	0	0.8	1293.5	85.6	0	0.8	1275.8	35.8	0	1.4
12	1309.5	144.3	2.6	5.6	1308.9	142.5	0.4	0.4	1309.1	143.3	0.1	0.1	1308.6	141.2	0	0.8	1293.5	85.6	0	0.8	1275.8	35.8	0	1.4
13	1309.5	144.3	2.6	5.6	1308.9	142.5	0.4	0.4	1309.1	143.3	0.1	0.1	1308.6	141.2	0	0.8	1293.5	85.6	0	0.8	1275.8	35.8	0	1.4
14	1309.5	144.3	2.6	5.6	1308.9	142.5	0.4	0.4	1309.1	143.3	0.1	0.1	1308.6	141.2	0	0.8	1293.5	85.6	0	0.8	1275.8	35.8	0	1.4
15	1309.5	144.3	2.6	5.6	1308.9	142.5	0.4	0.4	1309.1	143.3	0.1	0.1	1308.6	141.2	0	0.8	1293.5	85.6	0	0.8	1275.8	35.8	0	1.4
16	1309.5	144.3	2.6	5.6	1308.9	142.5	0.4	0.4	1309.1	143.3	0.1	0.1	1308.6	141.2	0	0.8	1293.5	85.6	0	0.8	1275.8	35.8	0	1.4
17	1309.5	144.3	2.6	5.6	1308.9	142.5	0.4	0.4	1309.1	143.3	0.1	0.1												

Storages based on L.A.O.F.C.D. survey of October 1935.

DAM OPERATION RECORD																								
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT																								
Daily Gage Height in feet and Operation Record of <u>SAWPIT</u> Dam										File No. _____														
In <u>SAWPIT CANYON</u> for the Year Ending September 30, 19 <u>36</u>										Continuous Water Stage Recorder <u>AU</u>														
Drainage Area <u>3.27</u> Square Miles.		Capacity of Reservoir <u>389.0</u>		Ac. Ft. at Spillway Elev. <u>1360.0</u>		Gage Height <u>Read Daily</u>																		
Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH			
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow				
1	1255.0	0	0	0	1309.3	85.5	2.1	2.0																
2	1285.1	23.9	12.0	0	1309.2	85.2	1.9	2.0																
3	1286.2	25.9	1.0	0	1309.2	85.2	2.0	2.0																
4	1287.0	27.4	0.7	0	1309.2	85.2	2.0	2.0																
5	1287.5	28.4	0.5	0	1309.2	85.2	1.9	1.9																
6	1288.0	29.2	0.5	0	1309.2	85.2	1.7	1.7																
7	1288.4	30.0	0.3	0	1309.3	85.5	1.8	1.7																
8	1288.8	30.8	0.4	0	1309.3	85.5	1.7	1.7																
9	1289.1	31.3	0.3	0	1309.4	85.8	1.9	1.7																
10	1289.2	32.1	0.3	1.4	1309.4	85.8	1.4	1.4																
11	1289.7	32.9	0.3	0	1309.4	85.8	1.0	1.0																
12	1307.0	78.1	15.8	0	1309.4	85.8	0.5	0.7																
13	1310.2	88.5	16.3	11.1	1309.2	85.2	0.4	0.5																
14	1309.0	84.6	10.4	12.4	1309.1	84.8	0.3	0.5																
15	1307.1	78.4	18.6	12.4	1309.2	85.2	0.8	0.6																
16	1306.9	77.4	18.5	19.0	1309.4	85.8	1.1	0.8																
17	1304.8	70.2	15.0	18.6	1309.3	85.5	0.4	0.6																
18	1304.8	71.0	10.7	10.3	1309.2	85.2	0.3	0.4																
19	1305.1	71.9	8.5	8.0	1309.2	85.2	0.4	0.4																
20	1304.8	71.0	7.5	8.0	1308.8	83.9	0.4	1.1																
21	1304.4	69.9	5.8	6.3	1308.7	83.5	0.5	0.7																
22	1306.1	75.2	6.6	4.0	1308.7	83.5	0.4	0.4																
23	1307.2	78.7	12.6	10.4	1308.6	83.2	0.3	0.4																
24	1304.1	69.0	6.0	10.9	1308.7	83.5	1.0	0.2																
25	1304.8	71.0	4.3	3.3	1308.6	83.2	1.0	0.3																
26	1304.6	70.4	4.2	4.5	1308.2	81.9	0.2	0.9																
27	1307.1	78.4	4.0	0	1307.8	80.6	1.3	0.9																
28	1309.1	84.8	3.2	0	1307.4	79.4	0.3	0.9																
29	1309.2	85.2	2.2	2.0	1307.0	78.1	0.2	0.9																
30	--	--	--	--	1307.5	79.7	1.6	0.8																
31	--	--	--	--	1309.2	85.2	21.5	18.7																
TOTAL					196.5	153.9	49.9	49.9																
Inf. Ac. Ft.					393.0		99.8	492.8																
Out. Ac. Ft.							307.0																	
Mean Daily Inflow							18.6																	
Mean Daily Outflow							0																	
Storage Change							0																	
REMARKS	Outflow computed from dam tender's record of Disch. Inflows computed from storage change. 1 = interpolated.																							
Max. W. S. Elev.	1310.8	feet	on 4-4-36	Storage	90.7	Acres Feet																		
Min. W. S. Elev.	72.0	feet	on Various times	Storage	0	Acres Feet																		
Max. Peak Inf.	72.0	C.F.S. from	6:00 PM on 2-11-36	to	7:00 PM on 2-11-36																			
Max. Peak Outf.	21.7	C.F.S. from	Mean daily on 2-15-36	to																				
Gage Heights reduced to midnight on day shown.																								
RECORDS COLLECTED BY	M. L. Paoker Dam Tender Gage Hts. copied H. A. V. Checked M. W. R.																							
	R. P. Dalton Hydrographer Storage applied H. A. V. Checked M. W. R.																							
	Hydrographer Inf. & Outf. computed H. A. V. Checked M. W. R.																							
Date	4-6-37																							

DAM OPERATION RECORD																								
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT																								
Daily Gage Height in feet and Operation Record of <u>SAWPIT</u> Dam										File No. _____														
In <u>SAWPIT CANYON</u> for the Year Ending September 30, 19 <u>36</u>										Continuous Water Stage Recorder <u>AU</u>														
Drainage Area <u>3.27</u> Square Miles.		Capacity of Reservoir <u>389.0</u>		Ac. Ft. at Spillway Elev. <u>1360.0</u>		Gage Height <u>Read Daily</u>																		
Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER			
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow				
1	1309.1	84.8	1.4	1.6	1287.1	27.6	0.3	1.1	1274.8	9.2	0.1	0												
2	1309.1	84.8	1.4	1.4	1286.2	25.9	0.3	1.1	1274.9	9.3	0.1	0												
3	1310.6	89.9	6.0	3.5	1285.2	24.0	0.3	1.1	1275.0	9.4	0.1	0												
4	1309.4	85.8	6.8	8.8	1284.1	22.3	0.3	1.1	1275.1	9.6	0.1	0												
5	1302.2	85.2	4.4	4.7	1283.0	20.6	0.3	1.1	1275.1	9.6	0.1	0												
6	1309.1	84.8	2.8	3.0	1281.9	18.9	0.3	1.1	1275.2	9.7	0	0												
7	1309.0	84.5	2.2	2.4	1280.9	17.3	0.3	1.1	1275.3	9.8	0	0												
8	1308.8	83.9	1.8	2.1	1279.8	15.7	0.2	1.1	1275.4	10.0	0	0												
9	1308.2	81.9	1.0	2.0	1278.8	14.4	0.2	1.1	1275.5	10.1	0	0												
10	1307.1	78.4	0.9	2.7	1277.7	12.9	0.2	1.1	1274.5	9.9	0	0.6												
11	1305.9	74.5	0.8	2.7	1276.5	11.4	0.2	1.1	1268.5	5.1	0.1	3.0												
12	1304.6	70.4	0.6	2.6	1274.8	9.2	0.2	1.1	1264.0	0	0.1	1.5												
13	1304.4	69.9	0.5	0.8	1272.8	7.2	0.2	1.1	1264.9	0.4	0.1	0												
14	1304.7	70.7	0.4	0	1271.4	5.7	0.2	1.0	1265.3	0.7	0.1	0												
15	1305.0	71.6	0.4	0	1271.8	6.1	0.1	0	Dry	0	0.1	0.4												
16	1305.1	71.9	0.2	0	1272.1	6.4	0.1	0																
17	1304.5	70.2	0.2	1.0	1272.4	6.7	0.1	0																
18	1303.3	66.6	0.2	2.0	1272.7	7.1	0.1	0																
19	1302.0	62.8	0.1	2.0	1272.9	7.3	0.1	0																
20	1300.9	59.6	0.2	2.0	1273.1	7.5	0.1	0																
21	1299.6	56.0	0.2	1.9	1273.3	7.7	0.1	0																
22	1298.3	52.6	0.2	1.8	1273.5	7.9	0.1	0																
23	1297.0	49.3	0.2	1.8	1273.6	8.0	0.1	0																
24	1295.6	45.7	0.2	1.8	1273.7	8.1	0.1	0																
25	1294.2	42.3	0.2	1.8	1273.9	8.3	0.1	0																
26	1292.8	39.2	0.2	1.7	1274.1	8.5	0.1	0																
27	1291.5	36.4	0.2	1.6	1274.2	8.6	0.1	0																
28	1290.4	33.3	0.2	1.6	1274.3	8.7	0.1	0																
29	1289.1	31.3	0.2	1.6	1274.4	8.8	0.1	0																
30	1288.0	29.3	0.2	1.4	1274.6	9.0	0.1	0																
31	--	--	--	--	1274.7	9.1	0.1	0																
TOTAL		74.3	62.3		5.2	15.3		1.0	5.5															
Inf. Ac. Ft.		68.6			10.4			2.0																
Out. Ac. Ft.			124.6						11.0															
Mean Daily Inflow		6.8			0.3	30.6		0.1																
Mean Daily Outflow		0.2			0.1			0																
Storage Change		-55.9			-20.2			-9.1																
REMARKS	Outflows as from dam tender's record of Disch. Inflows computed from storage change. 1 = interpolated. (= Mean for period.)																							
Max. W. S. Elev.	1310.8	feet	on 4-4-37	Storage	90.7	Acres Feet																		
Min. W. S. Elev.	72.0	feet	on Various	Storage	0	Acres Feet																		
Max. Peak Inf.	72.0	C.F.S. from	6:00 PM on 2-11-36	to	7:00 PM on 2-11-36																			
Max. Peak Outf.	21.7	C.F.S. from	Mean daily on 2-15-36	to																				
Gage Heights reduced to midnight on day shown.																								
RECORDS COLLECTED BY	M. L. Paoker Dam Tender Gage Hts. copied H. A. V. Checked M. W. R.																							
	R. P. Dalton Hydrographer Storage applied H. A. V. Checked M. W. R.																							

Storages based on L.A.C.F.C.D. survey of 1932.

DAM OPERATION RECORD														LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT																																																								
Daily Gage Height in feet and Operation Record of Thompson Creek Dam														File No.																																																								
On Thompson Creek for the Year Ending September 30, 1935														Gage Height at Various Times																																																								
Drainage Area 3.91 Square Miles. Capacity of Reservoir 812 Ac. Ft. at Spillway Elev. 1640 Ft.														Gage Height at Various Times																																																								
Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH																																																	
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow																																														
1	Dry	0			Dry	0			Dry	0			Dry	0			1671.9*	0			1674.2	0.36	0																																															
2																	1672.0*	0			1674.2	0.39	0																																															
3																	1672.0*	0			1674.2	0.39	0																																															
4																	1672.4*	0			1674.2	0.39	0																																															
5																	1672.4*	0.10			1674.2	0.39	0																																															
6																	1672.4	0.18			1674.2	0.39	0																																															
7																	1672.6	0.22			1674.2	0.39	0																																															
8																	1672.7	0.24			1674.2	0.39	0																																															
9																	1672.8	0.26			1674.2	0.39	0																																															
10																	1672.9	0.28			1674.2	0.36	0																																															
11																	1674.0	0.30			1674.2	0.36	0																																															
12																	1674.1	0.33			1674.2	0.36	0																																															
13																	1674.2	0.36			1674.1	0.33	0																																															
14																	1674.3	0.39			1674.0	0.30	0																																															
15																	1674.3	0.39			1674.0	0.30	0																																															
16																	1674.4	0.42			1673.9	0.28	0																																															
17																	1674.4	0.42			1673.8	0.26	0																																															
18																	1674.4	0.42			1673.7	0.24	0																																															
19																	1674.4	0.42			1673.7	0.24	0																																															
20																	1674.4	0.42			1673.5	0.22	0																																															
21																	1674.4	0.42			1673.5	0.20	0																																															
22																	1674.3	0.39			1673.5	0.20	0																																															
23																	1674.3	0.39			1673.4	0.18	0																																															
24																	1674.3	0.39			1673.4	0.18	0																																															
25																	1674.3	0.39			1673.3	0.16	0																																															
26																	1674.3	0.39			1673.2	0.14	0																																															
27																	1674.2	0.36			1673.2	0.14	0																																															
28																	1674.1	0.33			1673.1	0.12	0																																															
29																	-	-			1673.1	0.12	0																																															
30																	-	-			1672.9	0.10	0																																															
31	Dry	0			Dry	0											-	-			1672.9	0.10	0																																															
TOTAL																																																																						
Infl. Ac. Ft.		0																																																																				
Outfl. Ac. Ft.		0																																																																				
Max. Pool Inflow		0																																																																				
Max. Pool Outflow		0																																																																				
Storage Change																																																																						
REMARKS	* Small pool - No appreciable storage. ° Losses due to percolation, leakage, and evaporation.														+ 0.32														- 0.22														let 6 Months																											
Max. W. S. Elev.	1676.8 feet on 4-12-36 Storage 1.0														None														Dam Tender Hydrographer														Gage Hts. copied M. W. R. Storage applied M. W. R. Inf. & Outfl. computed M. W. R.														Checked H. A. Y. Checked H. A. Y. Checked H. A. Y.													
Min. W. S. Elev.	Dry feet on Various Storage														None														R. P. Dalton														Date 5-21-36																											
Max. Peak Inflow	C.F.S. from on to on																																																																					
Max. Peak Outflow	C.F.S. from on to on																																																																					

Storages based on L.A.C.F.C.D. survey of 1932.

DAM OPERATION RECORD														LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT																																																								
Daily Gage Height in feet and Operation Record of Thompson Creek Dam														File No.																																																								
On Thompson Creek for the Year Ending September 30, 1935														Gage Height at Various Times																																																								
Drainage Area 3.91 Square Miles. Capacity of Reservoir 812 Ac. Ft. at Spillway Elev. 1640 Ft.														Gage Height at Various Times																																																								
Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER																																																	
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow																																														
1	1672.9*				1674.8	0.54	0	0	1671.6*				Dry	0			Dry	0			Dry	0																																																
2	1672.8*				1674.7	0.51	0	0	1671.6*																																																													
3	1672.8*				1674.6	0.48	0	0	1671.4*																																																													
4	1672.7*				1674.5	0.45	0	0	1671.3*																																																													
5	1672.7*				1674.4	0.42	0	0	1671.2*																																																													
6	1672.6*				1674.3	0.39	0	0	1671.0*																																																													
7	1672.6*				1674.2	0.36	0	0																																																														
8	1673.0	0.60			1674.1	0.28	0	0																																																														
9	1673.2	0.70			1674.0	0.20	0	0																																																														
10	1673.6	0.86			1673.9	0.22	0	0																																																														
11	1673.7	0.95			1673.8	0.26	0	0																																																														
12	1673.8	1.00			1673.8	0.26	0	0																																																														
13	1673.7	0.95			1673.7	0.24	0	0																																																														
14	1673.7	0.95			1673.6	0.22	0	0																																																														
15	1673.6	0.90			1673.5	0.20	0	0																																																														
16	1673.6	0.86			1673.4	0.18	0	0																																																														
17	1673.5	0.86			1673.3	0.16	0	0																																																														
18	1673.5	0.86			1673.2	0.14	0	0																																																														
19	1673.4	0.80			1673.1	0.12	0	0																																																														
20	1673.3	0.75			1673.0	0.10	0	0																																																														
21	1673.2	0.75			1672.9		0	0																																																														
22	1673.2	0.70			1672.8		0	0																																																														
23	1673.2	0.70			1672.7		0	0																																																														
24	1673.1	0.68			1672.6		0	0																																																														
25	1673.1	0.65			1672.5		0	0																																																														
26	1673.0	0.60			1672.4		0	0																																																														
27	1673.0	0.60			1672.3		0	0																																																														
28	1674.9	0.57			1672.1		0	0																																																														
29	1674.9	0.57			1672.0		0	0																																																														
30	1674.8	0.64			1671.9		0	0																																																														
31	-	-			1671.8		0	0																																																														
TOTAL																																																																						
Infl. Ac. Ft.		0																																																																				
Outfl. Ac. Ft.		0																																																																				
Max. Pool Inflow		0																																																																				
Max. Pool Outflow		0																																																																				
Storage Change		+ 0.54			- 54.0																																																																	
REMARKS	* Small pool. No appreciable storage. ° Losses due to evaporation, evaporation, and leakage.																																										Year																											
Max. W. S. Elev.	1676.8 feet on 4-12-36 Storage 1.0														None														Dam Tender Hydrographer														Gage Hts. copied M. W. R. Storage applied M. W. R. Inf. & Outfl. computed M. W. R.														Checked H. A. Y. Checked H. A. Y. Checked H. A. Y.													
Min. W. S. Elev.	Dry feet on Various Storage														None														R. P. Dalton														Date 5-21-36																											
Max. Peak Inflow	C.F.S. from on to on																																																																					
Max. Peak Outflow	C.F.S. from on to on																																																																					

Storages based on L.A.C.F.C.D. survey of 1932.

DAM OPERATION RECORD LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT																				File No.											
Daily Gauge Height in feet and Operation Record of <u>THOMPSON CREEK</u> Dam																															
On <u>Thompson Creek</u> for the Year Ending September 30, 1935																															
Drainage Area <u>3.91</u> Square Miles. Capacity of Reservoir <u>812.0</u> Ac. Ft. at Spillway Elev. <u>1640</u> Ft.																															
Gage Height <u>Read at various lines</u>																															
Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				Day						
	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow							
1																										1					
2																										2					
3																										3					
4																										4					
5																										5					
6																										6					
7																										7					
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28																										28					
29																										29					
30																										30					
31																										31					
TOTAL																															
Inf. Ac. Ft. Outflow																															
Mean Daily Inflow																															
Mean Daily Outflow																															
Storage Change																															
REMARKS: Daily Inflows and Outflows not shown due to insufficient data.																															
Max. W. S. Elev. <u>1574.7</u> feet on <u>3-A to 8-36</u> Storage <u>0.51</u> Ac. Ft.																															
Min. W. S. Elev. <u>DRY</u> feet on <u>Various lines</u> Storage <u>0</u> Ac. Ft.																															
Max. Peak Inf. <u>---</u> C.F.S. from <u>---</u> on <u>---</u> to <u>---</u> on <u>---</u> on																															
Max. Peak Outf. <u>---</u> C.F.S. from <u>---</u> on <u>---</u> to <u>---</u> on <u>---</u> on																															
Gage Heights to midnight on day shown.																															
RECORDS COLLECTED BY												Dam Tender				SECOND 6 MONTHS				Year											
R. P. Dalton												Gage Hts. copied				H. A. V.				Checked				M. W. R.							
H. A. Van der Goot												Hydrographer				Storage applied				H. A. V.				Checked				M. W. R.			
												Inf. & Outf. computed								Checked											
												Date				4-6-37															

Storages based on L.A.C.F.C.D. survey of 1932.

DAM OPERATION RECORD LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT																				File No.											
Daily Gauge Height in feet and Operation Record of <u>THOMPSON CREEK</u> Dam																															
On <u>Thompson Creek</u> for the Year Ending September 30, 1936																															
Drainage Area <u>3.91</u> Square Miles. Capacity of Reservoir <u>812.0</u> Ac. Ft. at Spillway Elev. <u>1640</u> Ft.																															
Gage Height <u>Read at various lines</u>																															
Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				Day						
	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Ac. Ft. Storage	C.F.S. Inflow	C.F.S. Outflow		Day					
1																										1					
2																										2					
3																										3					
4																										4					
5																										5					
6																										6					
7																										7					
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28																										28					
29																										29					
30																										30					
31																										31					
TOTAL																															
Inf. Ac. Ft. Outflow																															
Mean Daily Inflow																															
Mean Daily Outflow																															
Storage Change																															
REMARKS: Daily Inflows and Outflows not shown due to insufficient data.																															
Max. W. S. Elev. <u>1574.7</u> feet on <u>3-A to 8-36</u> Storage <u>0.51</u> Ac. Ft.																															
Min. W. S. Elev. <u>DRY</u> feet on <u>Various lines</u> Storage <u>0</u> Ac. Ft.																															
Max. Peak Inf. <u>---</u> C.F.S. from <u>---</u> on <u>---</u> to <u>---</u> on <u>---</u> on																															
Max. Peak Outf. <u>---</u> C.F.S. from <u>---</u> on <u>---</u> to <u>---</u> on <u>---</u> on																															
Gage Heights reduced to midnight on day shown.																															
RECORDS COLLECTED BY												Dam Tender				SECOND 6 MONTHS				Year											
R. P. Dalton												Gage Hts. copied				H. A. V.				Checked				M. W. R.							
H. A. Van der Goot												Hydrographer				Storage applied				H. A. V.				Checked				M. W. R.			
												Inf. & Outf. computed								Checked											
												Date				4-6-37															

Storage is based on original reconnaissance survey.

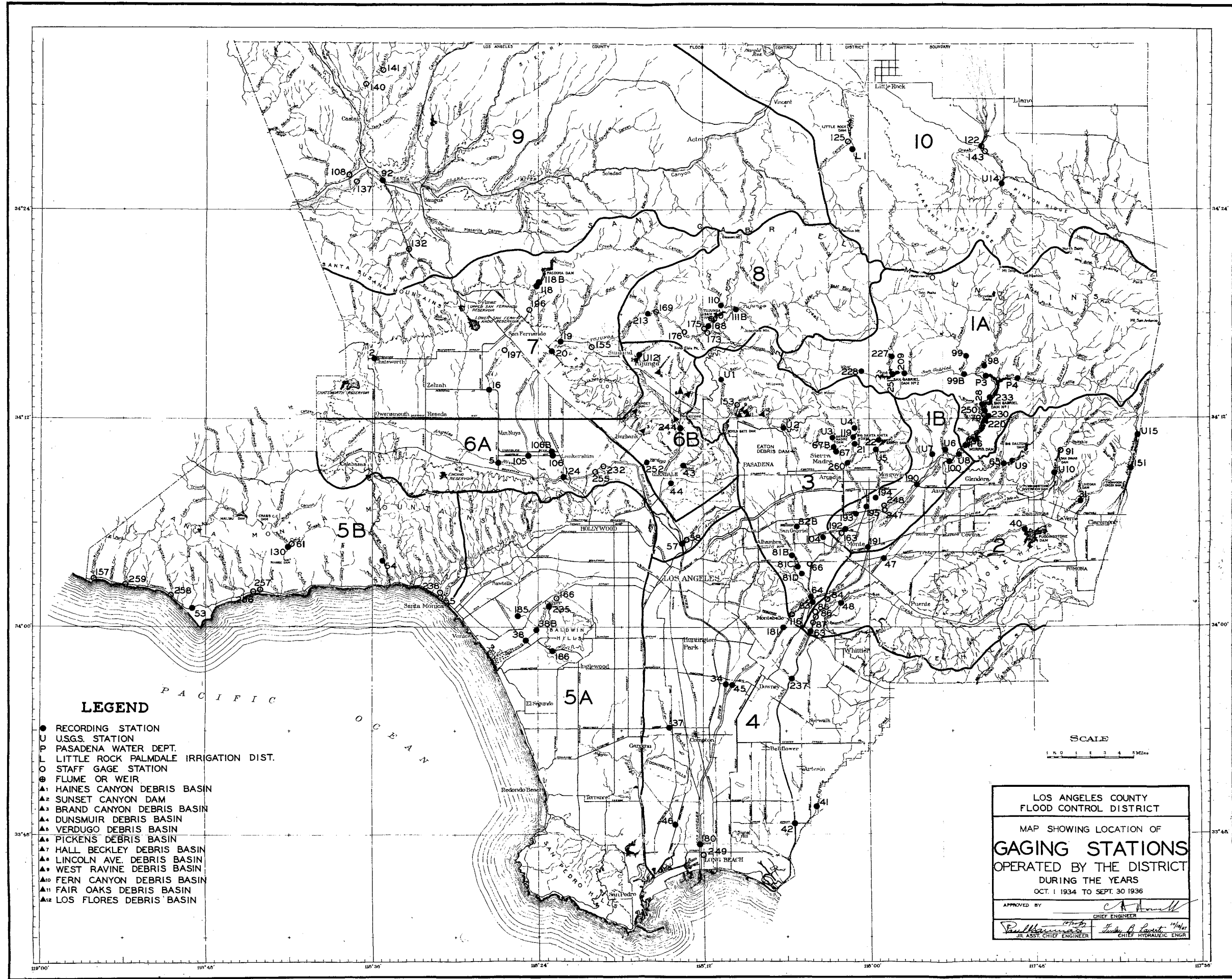
DAM OPERATION RECORD LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT. Daily Gage Height in feet and Operation Record of Big Tujunga Dam for the Year Ending September 30, 1935. Includes tables for months OCTOBER through MARCH, with columns for Gage Height, Inflow, and Outflow. Includes summary statistics and remarks.

DAM OPERATION RECORD LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT. Daily Gage Height in feet and Operation Record of Big Tujunga Dam for the Year Ending September 30, 1935. Includes tables for months APRIL through SEPTEMBER, with columns for Gage Height, Inflow, and Outflow. Includes summary statistics and remarks.

Storages based on original reconnaissance survey.

Daily Gage Height in feet and Operation Record of		TUJUNGA Dam #1										DAM OPERATION RECORD LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT												
In		BIG TUJUNGA CANYON										for the Year Ending September 30, 1936												
Drainage Area		81.35 Square Miles										Capacity of Reservoir 6240.0 Ac. Ft. at Spillway Elev. 2290.0 Ft.												
Gage Height		Read Daily										Continuous Water Stage Recorder Au												
Date	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH			
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	2221.1	2070.4	30.2	2170.6	602.0	0.1	16.2	2148.6	253.2	1.7	1.1	2143.3	192.3	2.7	2.2	2144.6	206.6	11.0	3.2	2217.9	1950.2	15.6	4.1	
2	2219.8	2022.4	28.8	2169.2	575.6	2.0	15.3	2146.7	254.4	1.7	0.1	2143.3	192.3	1.6	1.6	2155.1	341.5	68.0	0.0	2217.8	1945.4	15.2	18.1	
3	2218.5	1973.0	27.4	2167.9	552.2	2.6	14.4	2148.8	255.6	1.7	0.1	2143.4	193.4	2.5	1.9	2157.0	370.0	14.4	0	2217.6	1938.8	14.3	18.1	
4	2217.2	1923.6	26.0	2166.7	530.6	1.7	12.6	2148.9	256.8	1.7	0.1	2143.5	194.5	2.4	1.9	2158.0	385.0	7.5	0	2217.6	1935.9	14.4	14.4	
5	2215.9	1874.2	24.6	2165.6	510.8	0.7	10.7	2149.0	258.0	1.7	0.1	2143.5	194.5	2.2	2.2	2158.7	392.5	5.1	0	2217.7	1942.6	13.5	11.6	
6	2214.5	1822.0	24.6	2164.6	493.2	0.9	9.8	2149.2	260.4	2.3	0.1	2143.5	194.5	1.9	1.9	2159.4	406.0	5.3	0	2217.8	1946.4	13.5	11.6	
7	2213.2	1775.2	24.6	2163.6	476.2	2.1	10.7	2149.4	262.8	2.3	0.1	2143.6	195.6	2.2	1.6	2160.0	415.0	4.6	0	2217.8	1946.4	10.7	10.7	
8	2211.8	1724.8	24.6	2162.4	455.8	2.4	12.6	2149.5	264.0	1.7	0.1	2143.7	195.6	1.9	1.9	2160.5	423.5	4.3	0	2217.8	1946.4	10.7	10.7	
9	2210.4	1674.4	23.2	2161.8	428.6	1.5	15.3	2149.6	265.2	1.8	0.1	2143.7	196.7	2.5	1.9	2161.0	432.0	4.3	0	2217.8	1946.4	9.8	9.8	
10	2209.0	1624.0	23.2	2161.8	414.0	2.4	10.7	2149.6	265.2	1.1	0.1	2143.7	196.7	1.9	1.9	2161.5	440.8	4.3	0	2217.8	1946.4	9.8	9.8	
11	2207.6	1573.4	23.2	2158.7	395.5	0.9	9.2	2149.2	262.4	1.5	3.0	2143.4	193.4	1.7	3.4	2164.8	496.6	28.2	0	2217.7	1942.6	7.9	9.8	
12	2206.2	1530.8	23.2	2158.1	386.5	2.6	7.2	2147.7	242.4	0.9	10.0	2143.1	190.1	3.0	4.7	2177.9	753.8	129.7	0	2217.6	1938.8	7.9	9.8	
13	2204.7	1480.4	23.2	2157.9	381.5	2.5	4.0	2145.4	215.4	0.6	14.2	2143.1	190.1	2.2	2.2	2184.8	915.2	81.4	0	2217.5	1935.0	9.6	11.6	
14	2203.3	1435.6	23.2	2157.7	380.5	1.1	2.6	2144.5	205.5	1.0	6.0	2143.1	190.1	2.2	2.2	2190.0	1050.0	67.9	0	2217.4	1931.2	9.7	11.6	
15	2201.7	1384.4	24.6	2157.6	379.0	1.4	2.2	2144.6	206.6	1.1	1.1	2143.1	190.1	2.2	2.2	2196.3	1222.7	67.1	0	2217.3	1927.4	9.7	11.6	
16	2199.9	1332.1	27.4	2157.5	377.5	1.2	1.3	2143.7	196.7	1.7	0.1	2143.1	190.1	2.2	2.2	2199.7	1321.3	72.6	22.9	2217.2	1923.6	8.8	10.7	
17	2198.1	1274.9	26.0	2157.5	377.5	5.1	5.1	2143.1	190.1	2.0	5.3	2143.1	190.1	1.9	1.9	2200.3	1339.6	53.0	43.8	2217.1	1919.8	8.8	10.7	
18	2196.2	1219.8	27.4	2155.7	350.5	0.9	14.5	2143.0	189.0	2.0	2.6	2143.1	190.1	1.9	1.9	2203.0	1426.0	47.2	3.6	2217.2	1923.6	6.6	4.7	
19	2194.2	1163.4	26.0	2153.0	312.0	1.0	20.4	2143.0	189.0	2.2	2.2	2143.1	190.1	1.9	1.9	2203.8	1451.6	33.3	20.4	2217.6	1934.8	7.7	0	
20	2192.3	1112.1	25.4	2151.5	291.0	2.6	13.2	2143.0	189.0	1.9	1.9	2143.1	190.1	1.9	1.9	2204.3	1467.6	31.3	23.2	2217.9	1950.2	5.7	0	
21	2190.4	1060.8	24.6	2151.2	286.8	2.4	4.5	2143.0	189.0	1.9	1.9	2143.1	190.1	1.9	1.9	2204.5	1474.0	26.4	23.2	2218.1	1965.4	7.7	0	
22	2188.4	1008.4	23.2	2150.0	270.0	1.6	10.1	2143.0	189.0	1.9	1.9	2143.1	190.1	1.9	1.9	2205.2	1486.8	29.7	18.2	2218.2	1976.8	5.7	0	
23	2186.5	959.0	23.2	2149.3	261.6	1.2	5.4	2143.0	189.0	1.9	1.9	2143.2	191.2	2.8	2.2	2210.1	1663.6	64.1	0	2218.9	1988.2	5.8	0	
24	2184.6	910.4	23.2	2149.3	261.6	1.6	1.6	2143.0	189.0	1.9	1.9	2143.2	191.2	2.2	2.2	2212.6	1753.6	45.4	0	2219.4	2007.2	5.8	0	
25	2182.7	864.8	23.2	2149.3	261.6	1.6	1.6	2143.0	189.0	1.9	1.9	2143.2	191.2	2.2	2.2	2214.3	1814.8	34.6	3.8	2219.9	2026.2	5.8	0	
26	2180.9	821.6	23.2	2148.2	248.4	1.5	8.2	2143.0	189.0	1.9	1.9	2143.2	191.2	2.2	2.2	2215.4	1855.2	30.2	9.8	2220.2	2038.0	6.0	0	
27	2179.2	782.4	20.4	2148.2	248.4	1.7	1.6	2143.0	189.0	1.9	1.9	2143.2	191.2	2.2	2.2	2215.9	1874.2	25.8	16.2	2220.5	2050.0	6.0	0	
28	2177.4	743.6	20.4	2148.3	249.6	1.7	1.1	2143.0	189.0	1.9	1.9	2143.2	191.2	2.2	2.2	2216.4	1893.2	23.1	13.5	2220.9	2066.0	6.1	0	
29	2175.6	703.2	20.4	2148.4	250.8	1.7	1.1	2143.1	190.1	3.6	3.0	2143.2	191.2	2.2	2.2	2217.3	1927.4	17.2	0	2221.2	2078.0	8.0	0	
30	2173.8	666.0	19.0	2148.5	252.0	1.7	1.1	2143.2	191.2	4.6	4.0	2143.2	191.2	2.2	2.2	---	---	---	---	2221.9	2106.0	14.1	0	
31	2172.2	634.0	17.0	---	---	---	---	2143.2	191.2	3.0	5.0	2143.2	191.2	2.2	2.2	---	---	---	---	2223.1	2154.0	24.2	0	
TOTAL			742.6			52.3	244.9			118.0	178.7			67.1	67.1	1077.2	201.8			622.0	311.6	109.4		
Inf. Ac. Ft.			1488.0			103.7				138.0				133.1		2136.6				622.0	395.5	5081.3		
Outf. Ac. Ft.						485.7																		
Max. Daily Inflow						5.1				4.6						5.0				129.7		24.2	130.5	
Max. Daily Outflow						0.1				0.9						1.6				4.3		5.7		
Storage Change			-1488.0			-382.0				-60.8						+1736.2				+226.6		+32.0		

Daily Gage Height in feet and Operation Record of		TUJUNGA Dam #1										DAM OPERATION RECORD LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT													
In		BIG TUJUNGA CANYON										for the Year Ending September 30, 1936													
Drainage Area		81.35 Square Miles										Capacity of Reservoir 6240.0 Ac. Ft. at Spillway Elev. 2290.0 Ft.													
Gage Height		Read Daily										Continuous Water Stage Recorder Au													
Date	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				
	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acres Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	2223.7	2178.0	12.1	0	2234.1	2628.6	4.2	2.0	2232.7	2564.2	1.1	1.5	3.8	2227.6	2339.2	1.0	4.3	2215.2	1847.6	0	11.5	2191.9	1101.3	0	14.1
2	2224.3	2202.0	12.1	0	2234.2	2633.2	4.4	2.1	2232.6	2559.6	1.1	1.6	3.9	2227.4	2330.8	1.0	4.4	2214.5	1822.0	0	12.9	2190.9	1074.3	0	13.1
3	2224.9	2226.0	12.1	0	2234.3	2637.8	4.5	2.1	2232.5	2555.0	1.1	1.6	4.0	2227.2	2322.4	1.0	4.5	2213.8	1796.8	0	12.7	2189.9	1047.4	0	13.6
4	2226.0	2272.0	23.2	0	2234.4	2642.4	4.5	2.2	2232.4	2550.4	1.1	1.7	4.0	2227.0	2314.0	1.0	4.5	2213.2	1775.2	0	10.9	2189.0	1024.0	0	11.8
5	2226.9	2309.3	14.8	0	2234.5	2647.0	4.5	2.2	2232.3	2545.8	1.1	1.6	3.9	2226.5	2305.6	1.0	4.4	2212.5	1750.0	0	12.7	2188.0	998.0	0	13.1
6	2227.6	2339.2	14.8	0	2234.6	2651.6	3.6	1.5	2232.2	2541.2	1.1	1.5	3.8	2226.0	2297.0	1.0	4.3	2211.8	1724.0	0	12.7	2187.0	974.0	0	11.8
7	2228.2	2364.4	12.7	0	2234.6	2651.6	3.4	1.0	2232.1	2536.6	1.1	1.4	3.7	2225.4	2288.8	1.0	4.3	2211.1	1699.6	0	12.7	2186.1	948.6	0	13.1
8	2228.8	2389.6	12.7	0	2234.7	2656.2	3.3	1.2	2232.0	2532.0	1.1	1.3	3.7	2225.2	2280.4	1.0	4.4	2210.4	1674.4	0	12.7	2185.2	925.2	0	11.8
9	2229.3	2410.6	10.6	0	2234.7	2656.2	3.2	1.2	2231.8	2528.2	1.1	1.2	3.6	2225.0	2272.0	1.0	4.3	2209.7	1649.8	0	12.4	2184.2	900.8	0	12.3
10	2229.7	2427.4	8.5	0	2234.8	2660.8	3.0	1.2	2231.6	2513.6	1.1	1.2	3.5	2224.8	2263.6	1.0	4.3	2209.0	1626.0	0	12.0	2183.3	879.2	0	10.9
11	2230.1	2444.6	8.5	0	2234.8	2660.8	2.8	1.2	2231.4	2504.4	1.1	1.1	3.4	2224.6	2255.2	1.0	4.4	2208.2	1598.0	0	13.7	2182.3	855.2	0	12.1
12	2230.5	2463.0	9.4	0	2234.7	2656.2	2.7	1.3	2231.2	2495.2	1.1	1.0	3.3	2224.4	2246.8	1.0	4.3	2207.5	1579.0	0	13.0	2181.4	833.6	0	10.9
13	2230.8	2476.8	7.0	0	2234.6	2651.6	2.7	1.4	2231.1	2490.6	1.0</														



LEGEND

- RECORDING STATION
- U U.S.G.S. STATION
- P PASADENA WATER DEPT.
- L LITTLE ROCK PALMDALE IRRIGATION DIST.
- O STAFF GAGE STATION
- ⊙ FLUME OR WEIR
- ▲ HAINES CANYON DEBRIS BASIN
- ▲ SUNSET CANYON DAM
- ▲ BRAND CANYON DEBRIS BASIN
- ▲ DUNSMUIR DEBRIS BASIN
- ▲ VERDUGO DEBRIS BASIN
- ▲ PICKENS DEBRIS BASIN
- ▲ HALL BECKLEY DEBRIS BASIN
- ▲ LINCOLN AVE. DEBRIS BASIN
- ▲ WEST RAVINE DEBRIS BASIN
- ▲ FERN CANYON DEBRIS BASIN
- ▲ FAIR OAKS DEBRIS BASIN
- ▲ LOS FLORES DEBRIS BASIN

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

MAP SHOWING LOCATION OF
GAGING STATIONS
OPERATED BY THE DISTRICT
DURING THE YEARS
OCT. 1 1934 TO SEPT. 30 1936

APPROVED BY: *C. A. Howell* CHIEF ENGINEER

Paul H. ... JR. ASST. CHIEF ENGINEER *Frank A. ...* CHIEF HYDRAULIC ENGR.

RUNOFF REPORT

The District has been engaged in collecting data on stream flow since 1927. This work is included in the activities of the Hydraulic Department. Stream flow stations have been added since the inception of the work as necessity for information demanded and funds permitted until 70 recorder stations were in operation on September 30, 1936.

During the season 1934-35 6400 stream flow measurements were taken and 5400 measurements were made during 1935-36.

Included in this report are (1) tabulations of daily runoff at recorder stations (2) hydrographs of peak flow during the most important storms (3) station descriptions (4) lists of measurements at regular stations (5) miscellaneous measurements at staff gage stations and other points of interest (6) Percolation data for various channel reaches.

Data presented in this report include records furnished through the cooperation of the United States Geological Survey, Water Resources Branch and the United States Engineer Department, Los Angeles office.

The collection of data in the field was done by the following hydrographers in responsible charge of districts:

District 1A	G. P. Patterson and
" 1B & 3	T. A. Cooper
" 2	R. E. Lindsay
" 4	C. L. Brewster
" 5A & 5B	E. S. Bonadiman
" 6A	Jack Prickett
" 6B	C. E. Bollinger
" 7, 9 & 10	J. L. Irwin
" 8	John Luce
	T. A. Cooper and
	L. J. Turner

The office work was done under the direction of Mr. O. A. Wait.

All field and office work was under the supervision of Mr. W. J. Wood, Assistant Chief Hydraulic Engineer.

LEGEND

Station Numbers

Prefix F indicates Los Angeles County Flood Control District station.

Prefix U indicates U.S.G.S. Water Resources Branch Station.

Prefix P indicates a Pasadena Water Department station or a former Pasadena Water Department station which has been taken over by the Los Angeles County Flood Control District.

Prefix L indicates a Little Rock Palmdale Irrigation District station.

Suffix R indicates a recorder station.

Suffix S indicates a non-recorder station at which there is a staff (or other type) gage without a recorder.

Suffix A indicates the station is not at its original location.

Suffix B indicates the station has been moved from the "A" location.

Similarly for suffixes C, D, etc.

Suffix P indicates a Parshall flume without a recorder.

Hydrographs for stations with shifting control and/or poor rating are shown with a dotted line above and a full line below the highest discharge measurement made during the period covered by that hydrograph. Estimated portions of a hydrograph are shown with a dash line.

Hydrographs for stations with a stable control and/or satisfactory rating are similarly shown, except that limit of full line indicates approximately the highest applicable measurements made at that station as shown on rating curve. The following hydrographs come under this paragraph:

1934-35 for stations L1R, P3R, F37R, F81B-R, F82B-R, F98R, F110R, F111B-R, F186R, F190R, F228R, F244R;

1935-36 for stations L1R, P3R, F5R, F57R, F82B-R, F99B-R, F110R, F190R, F228R;

Also, the hydrograph for February 11, 12, 1936 for station F98R.

SEASON RUNOFF IN ACRES FEET AT RECORDER STATIONS

F.C. No.	Station	Drainage Area in Square Miles	Runoff in Acres Feet	
			1934-35	1935-36
F01B-R	ALHAMBRA WASH at Emerson Place	12.4	Oct.1-Feb.25 1690	Apr.27-May 22 0
F01C-R	ALHAMBRA WASH at Gladys Ave.	14.2	Feb.26-Sept.30 691	Oct.1-Apr.27 1420
F01D-R	ALHAMBRA WASH 250 ft. above Short Street	14.5	---	Sept.2-30 0
F02R	BALLONA CREEK at Centinela Blvd.	---	24870	Oct.1-Apr.26 13270
F02B-R	BALLONA CREEK at Sawtelle Blvd.	---	---	May 15-Sept.30 186
F160R	BIG TUJUNGA CREEK below Big Tujunga Dam #1	81.7	10760	5470
F111B-R	BIG TUJUNGA CREEK above Edison Road	67	9600	2330
F213R	BIG TUJUNGA CREEK below submerged dam	106	14840	7640
F106B-R	BIG TUJUNGA - EAST WASH at Chandler Blvd.	---	---	Mar.20-July 28 4.8
F106R	BIG TUJUNGA - EAST WASH Magnolia Blvd.	---	528	Oct.1-Mar.17 and 492
F110R	BIG TUJUNGA - FOX CREEK 1/4 mi. above mouth	9.35	1180	Aug.20-Sept.30 775
F20R	BIG TUJUNGA WASH at Stonehurst Ave.	148	10110	4220
F105R	BIG TUJUNGA - WEST WASH at Magnolia Blvd.	---	0	8.9
F186R	CENTINELA CREEK 1.2 mi. S. of Jefferson Blvd. on Centinela Blvd.	---	1620	509
F37R	COMPTON CREEK at Rosecrans Ave.	5.17	4170	2820
F41R	COYOTE CREEK below P. E. Bridge	21.7	3854	1150
F53R	DUNE CREEK at Roosevelt Highway	110	176	202
F104R	EATON WASH at Sunset Ave.	8.76	543	866
F65R	LITTLE DALTON CREEK at mouth of canyon	18.4	495	465
L1R	LITTLE ROCK CREEK 2 mi. above Little Rock Dam	3.3	---	---
F67R	LITTLE SANTA ANITA CR. 1/4 mi. below Sierra Madre Dam	49	17640	3320
F67B-R	LITTLE SANTA ANITA CR. 270 ft. below Sierra Madre Dam	2.57	276	Oct.1-May 19 141
F19R	LITTLE TUJUNGA CREEK at Foothill Blvd.	2.47	455	May 21-Sept.30 0
F31R	LIVE OAK CREEK near mouth of canyon	2.57	0	929
F57R	LOS ANGELES RIVER at Figueroa St.	510	12550	5770
F180R	LOS ANGELES RIVER at State St., Long Beach	---	40470	20470
F34R	LOS ANGELES RIVER at Stewart and Gray Road	614	29170	14920
F5R	LOS ANGELES RIVER at Van Nuys Blvd.	157	3150	1570
F144R	LOS ANGELES RIVER at Winland Ave.	---	6260	4090
F100R	MAIN SPREADING CANAL at mouth of San Gabriel Canyon	---	Incomplete	13360
F130R	MALIBU CREEK at Grater Camp	103	6220	2310
F22R	MONROVIA CREEK 300 ft. above junction with Sawpit Cr.	1.9	173	208
F195R	MONROVIA STORM DRAIN near Peak Road	4.47	392	307
F181R	MONTEBELLO STORM DRAIN at outlet into Rio Hondo at Miner Ave.	9.6	1650	889
F118R	PACIFICA CREEK Parrish flume below Pacifica Dam	28.4	Oct.1-Feb.8 1180	---
F118B-R	PACIFICA CREEK Parrish flume below Pacifica Dam	28.2	Feb.9-Sept.30 3950	3030
F16R	PACIFICA WASH at Parthenia St.	50.6	106	271
F40R	PUDDINGSTONE CREEK below Puddingstone Dam	32.7	44	36
F192R	RIO HONDO at Lower Azusa Road	---	8160	3400
F64R	RIO HONDO 1000 ft. above Mission Bridge	---	29230	20700
F45R	RIO HONDO at Stewart and Gray Road	---	6000	4220
F63R	RIO HONDO GLOUGH at San Gabriel Blvd.	---	9140	5810
F82B-R	RUBIO WASH at Broadway	13.0	1770	1280
F151R	SAN ANTONIO CREEK at mouth of canyon	38.0	6840	1640
F220R	SAN GABRIEL - AZUSA CONDUIT at North Portal #4-B Tunnel	---	46570	29500
F250R	SAN GABRIEL - AZUSA CONDUIT at sand box weir	---	Feb.15-Sept.30 36610	30540
F99R	SAN GABRIEL RIVER - BEAR CR. at Boy Scouts Camp	26	Incomplete	Oct.1-Dec.10 420
F99B-R	SAN GABRIEL RIVER - BEAR CR. 500 ft. above West Fork	27.9	---	Dec.11-Sept.30 5980
F227R	SAN GABRIEL RIVER - DEVILS CANYON 2 miles above S. G. Dam #2	15.4	5930	1810
F28R	SAN GABRIEL RIVER at Edison Intake	202	127400	53180
F4R	SAN GABRIEL RIVER - E. FORK 2 miles above Forks	91.4	61340	29590
F190R	SAN GABRIEL RIVER at Foothill Blvd.	230	59220	15300
F98R	SAN GABRIEL RIVER - NORTH FORK	18.8	8140	4310
F233R	SAN GABRIEL RIVER near Roberts Relay Station	201	127100	53410
F42R	SAN GABRIEL RIVER at Spring St., Long Beach	---	2380	1190
F237R	SAN GABRIEL RIVER at Telegraph Road	---	4700	1750
F3R	SAN GABRIEL RIVER - W. FORK 2 miles above Forks	102	56110	23070
F251R	SAN GABRIEL RIVER - W. FORK Parrish flume below S. G. Dam #2	---	Apr.27-Sept.30 2900	6730
F228R	SAN GABRIEL RIVER - W. FORK 3/4 miles above S. G. Dam #2	14.4	10900	4200
F209R	SAN GABRIEL RIVER - W. FORK 1/2 mile below S. G. Dam #2	40.8	19700	7690
F63R	SAN GABRIEL RIVER at Whittier Blvd.	---	12190	4590
F48R	SAN JOSE CREEK at Workman Mill Road	85	3860	1390
F260R	SANTA ANITA CREEK 770 ft. above junction with Little Santa Anita Creek	12.9	---	Aug.18-Sept.30 0
F119R	SANTA ANITA CREEK Parrish flume below Santa Anita Dam	10.7	---	2630
F21R	SANTA ANITA CREEK 1/4 mi. below Santa Anita Dam	11.2	3990	---
F193R	SANTA ANITA WASH below Arrow Highway	21.1	193	156
F92R	SANTA CLARA RIVER at old highway bridge 4 mi. W. of Saugus	355	1090	1590
F194R	SAWPIT WASH above Arrow Highway	---	51	---
F185R	SEVILVEDA CREEK at Charnock Road	25.68	2950	2920
F44R	SYCAMORE LOWER STORM DRAIN at Adams Square	6.2	1110	Incomplete
F43R	SYCAMORE UPPER STORM DRAIN at Bolway St.	2.76	---	Incomplete
F54R	TOPANGA CREEK at highway bridge 2 miles above mouth	18.0	1360	1490
F244R	VERDUGO CHANNEL at Don Carlos Street	18.66	Dec.21-Sept.30 620	463
F252R	VERDUGO CHANNEL at Estrella Ave.	22.4	---	Incomplete
F47R	WALNUT CREEK at Covina Blvd.	99	1920	1670
RISING	WATER AT WHITTIER NARROWS	---	31380	33450
ULR	ARROYO SECO near Pasadena	49	9010	3610
USR	DALTON CREEK near Glendora	7.5	282	213
URR	KATON CREEK near Pasadena	6.5	978	865
UTR	FISH CREEK near Duarte	6.5	3080	3290
ULPR	HAINES CREEK near Tujunga	1.9	500	21.5
URR	LITTLE SANTA ANITA CREEK near Sierra Madre	1.9	500	393
UL4R	MOCK CREEK near Valyerno	23.0	17800	5000
URR	ROGERS CREEK near Azusa	6.4	1870	1420
UL5R	SAN ANTONIO CREEK near Claremont	16.9	6240	1280
ULOR	SAN DIMAS CREEK near San Dimas	18.3	1590	1590
USR	SAN GABRIEL RIVER near Azusa	21.4	74680	22680
URR	SANTA ANITA CREEK near Sierra Madre	10.5	4480	2920
URR	SAWPIT CREEK near Monrovia	5.3	543	645

Station 81B-R

ALHAMBRA WASH at Emerson Place

Location

On downstream side of Emerson Place bridge, 2 blocks north of Garvey Avenue, and about 300 feet west of San Gabriel Boulevard
 Station F81B-R, Alhambra Wash at Emerson Place is 1400 feet upstream from station F81R Alhambra Wash at Garvey Ave., the original location; Station F81C-R Alhambra Wash at Gladys Ave. is 900 feet downstream from station F81R; station F81D-R Alhambra Wash 250 ft. above Short Street is 2650 feet downstream from the station F81R.

Drainage area

12.4 square miles.

Channel and control

Channel composed of sand and gravel.
 Control - 36" cement pipe crossing under channel just below station. There is a cement street crossing 1 block below station.

Discharge measurements

At low flow by wading.
 At high flow by float method.

Recorder

Installed October 1, 1934 in box type house over a corrugated iron pipe stilling well.
 Recorder removed February 25, 1935.
 Recorder reinstalled April 27, 1936.
 Recorder removed May 22, 1936.
 Stevens type L recorder.

Regulation

None

Diversions

None

Records available

At sta. F81R January 14, 1930 to Sept. 30, 1934.
 At sta. F81B-R October 1, 1934 to February 25, 1935.
 At Sta. F81C-R February 25, 1935 to April 27, 1936.
 At sta. F81B-R April 27, 1936 to May 22, 1936.
 At sta. F81D-R Sept. 2, 1936 to Sept. 30, 1936.

Extremes of discharge

at Sta. F81R

1929-30 Maximum 1870 second feet March 14
 Minimum no flow most of the year
 1930-31 Maximum 1530 second feet February 3
 Minimum no flow most of the year
 1931-32 Maximum 1120 second feet January 31
 Minimum no flow most of the year
 1932-33 Maximum 1850 second feet January 19
 Minimum no flow most of the year
 1933-34 Maximum 4890 second feet January 1
 Minimum no flow most of the year

at Sta. F81B-R

1934-35 Maximum 2280 second feet January 5

at Stas. F81B-R, F81C-R

1934-35 Minimum no flow most of year

at Sta. F81C-R

1935-36 Maximum 1700 second feet February 12

at Stas. F81C-R, F81B-R, F81D-R

1935-36 Minimum no flow most of year

Accuracy

Good

Operation

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

E. C. D. Form 194 (M. H. E.)

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPARTMENT

Station No. F 81 B-R

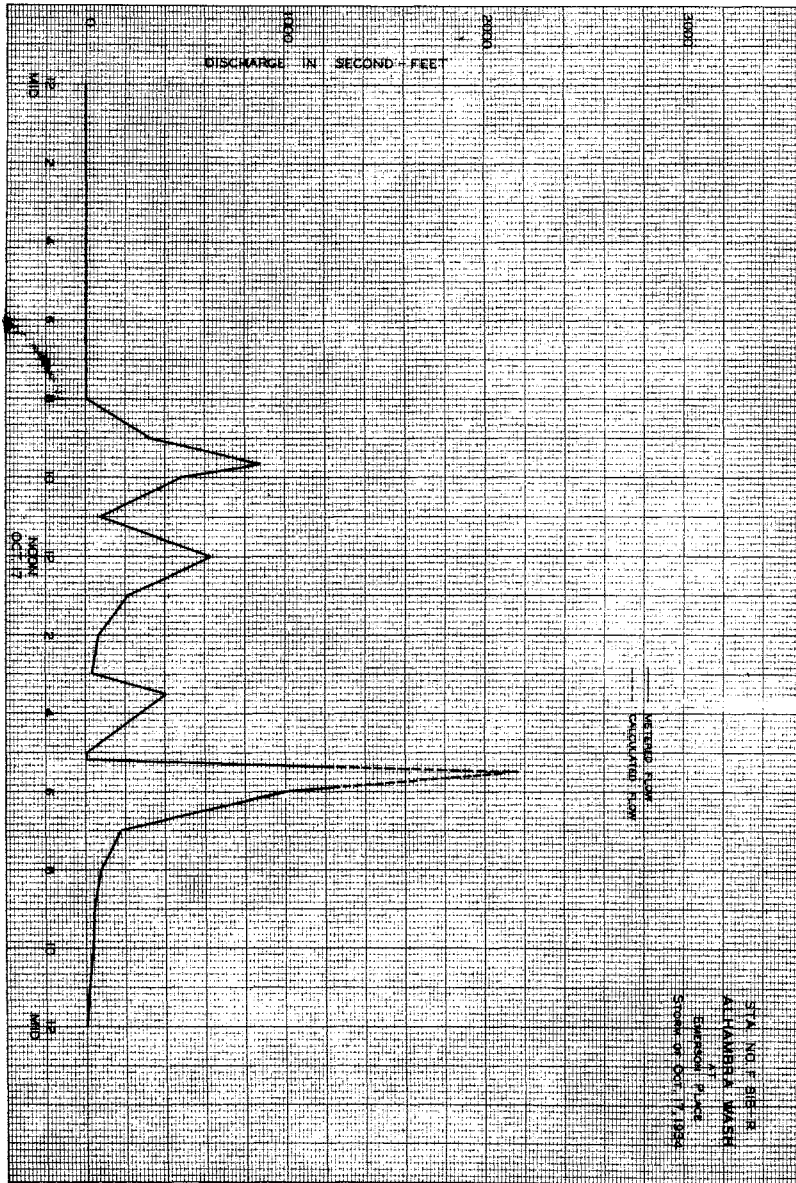
Discharge measurements of ALHAMBRA WASH

at Emerson Place during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating Percent	Method	Mean gage No.	G. H. above datum	Begin gage No.	Meter No.
1	1934 10/17	Lindsey - Richards	35.0	52.5	8.5	5.20	446.					856A	
2	10/17	"	41.0			5.95	689.	Float		+ .70		922A 940A 136P	FC 21
3	10/17	"	38.0	22.8	5.28	4.58	120.		.6	7	-.04	143P	"
4	10/17	" - Richards	39.0	24.2	5.00	4.70	121. Est.		.6	8	-.04	127P	"
6	10/18	"			Est. 4.02		.10	Est.				760A 340P	
6	10/18	"	36.5	10.8	2.69	4.40	29.		.6	9	-.02	360P	FC 21
7	10/18	" - Richards			Est. 4.26		5.0	Est.				450P 105A	
8	11/16	"	40.0	52.0	7.40	5.31	385.	Float		4	0	109A 442A	
9	11/16	" - Richards	38.5	11.8	3.58	4.37	42.		.6	9	-.05	455A 1110P	FC 21
10	11/17	"	38.0	13.5	3.63	4.39	49.		.6	9	-.02	1120P 540A 549A	"
11	11/19	"	38.0	17.6	4.45	4.49	78.		.6	9	-.02	902A 911A 1115A	"
12	12/13	"	38.0	24.3	5.86	4.94	201.		.6	7	-.04	1184A 248P	"
13	12/13	"	38.5	20.3	4.37	4.60	89.		.6	8	0	258P	"
14	12/13	"	40.0	54.0	7.27	5.35	392.		.6	5	-.05	600P 610P 620P	"
15	12/13	"	38.0	25.4	5.14	4.66	120.		.6	8	-.05	620P 765P	"
16	12/13	"	41.0	58.5		5.38	417.	Float		5	-.04	806P 918P	
17	12/13	"	35.0	10.8	2.66	4.40	29.		.6	10	0	928P 1122A	FC 21
18	12/13	"	15.0	3.13		4.21	7.2		.6	9	-.02	1130A 935A	"
19	12/14 1935	"	37.0	11.9	3.52	4.42	42.		.6	10	0	935A	"
20	1/5	"	9.0	2.08	3.01	4.30	6.3		.6	6	0	350A	
21	1/16	"	41.0	106.6	11.1	6.63	1070.	Float				350A 525A 645A 1240P	
22	1/16	" - Richards	34.5	11.1	3.45	4.45	38.		.6	9	0	645A 1240P	FC 21
23	2/6	"	39.0	34.8	5.79	4.92	201.		.6	6	-.08	1240P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F61B-R**



Daily discharge, in second-feet of **ALHAMBRA WASH at Emerson Place** for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1	0	0	0							
2	0	0	0	0	0							
3	0	0	0	0	0							
4	0	0	0	0	0							
5	0	0	0	15.6	2.9							
6	0	0	0	0	4.1							
7	0	0	0	0	0							
8	0	0	15	0	0.8							
9	0	0	0	0.5	0							
10	0	0	0	0	0							
11	0	0	0	0	0							
12	0	0	3.3	0	0							
13	0	0	18.1	0	0							
14	0	0	3.4	0	0							
15	0	2.2	0	7.6	0							
16	0	3.2	0	0	0							
17	18.6	3.6	0	0	0							
18	2.9	0.8	0	1.9	0							
19	0	1.8	0	0	0							
20	0	0	0	0	0							
21	0	0	0	0	0							
22	0	0	0	0	0							
23	0	0	0	0	0							
24	0	0	0	0	0							
25	0	0	0	0	0							
26	0	0	0	0	0							
27	0	0	0	0	0							
28	0	0	1.8	0	0							
29	0	0	0	0	0							
30	0	0	0	0	0							
31	0	0	0	0	0							
TOTAL	21.5	56.1	251.5	251.5	76.8							

MEAN	6.94	1.89	8.11	8.11	3.15							
ACRES-FEET	4.26	11.2	4.98	4.99	1.56							

Remarks: Mean on Oct. 1 - Feb. 25 5.77
Period ACRES-FEET 1690

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F61B-R**

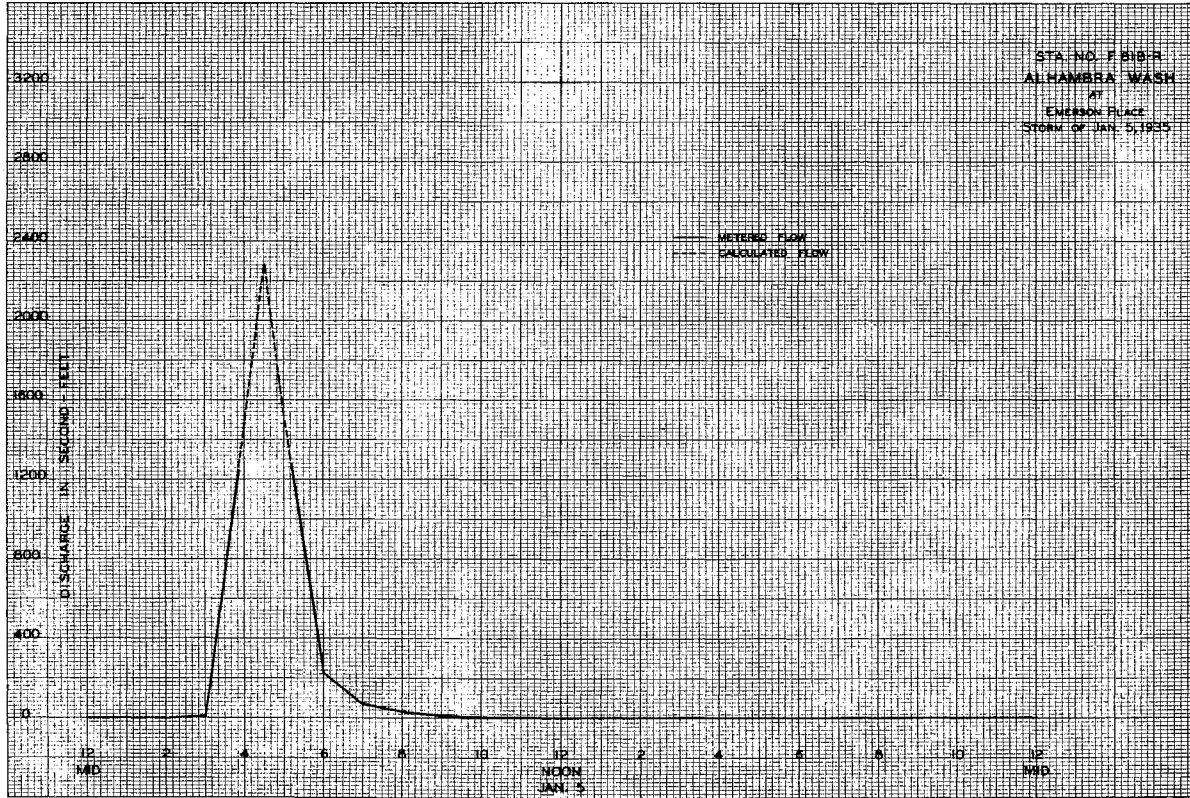
Daily discharge, in second-feet of **ALHAMBRA WASH at Emerson Place** for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								0				
2								0				
3								0				
4								0				
5								0				
6								0				
7								0				
8								0				
9								0				
10								0				
11								0				
12								0				
13								0				
14								0				
15								0				
16								0				
17								0				
18								0				
19								0				
20								0				
21								0				
22								0				
23								0				
24								0				
25								0				
26								0				
27								0				
28								0				
29								0				
30								0				
31								0				
TOTAL								0				

MEAN												
ACRES-FEET												

Remarks: Mean on May 1-22 0
Period ACRES-FEET 0

53



STATION & RECORD NO. 81 C-R
 11-10-35

F. C. D. Form 10 (11-3)

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPARTMENT

Station No. **F 81 C-R**

Station **F81C-R**
ALHAMBRA WASH at Gladys Ave.

Discharge measurements of **ALHAMBRA WASH**

at **GLADYS AVE.**, during the year ending September 30, 19**35**

Location

On the left bank of the stream 1 block east of San Gabriel Boulevard, 1 block south of Garvey Avenue

Drainage area

14.2 square miles.

Channel and control

Channel is sand and gravel.
 No artificial control.

Discharge measurements

At low flows by wading.
 At high flows from footbridge 16 feet below the station.

Recorder

Installed February 25, 1935 in a F. C. standard type house over a wooden stilling well.
 Recorder removed April 27, 1936.
 Stevens type L recorder

Regulation

None

Diversions

None

Records available

See Sta. F81B-R.

Extremes of discharge

See Sta. F81B-R.

Accuracy

Fair.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Obs. height foot	Discharge Sec.-ft.	Rating Percent full	Method	Mean area Sq. ft.	C. It. discharge Total	Begin time	End time	Water No.
24	3/2	Lindsay	34.6	55.7	6.52	4.12	227.			.6 10	+.02	8810A	8810A	81
25	3/2	" - Richards	34.6	55.18	6.01	4.05	211.			.6 9	-.15	850A	850A	"
26	3/2	" "	34.5	55.95	5.58	3.88	161.			.6 10	-.11	908A	908A	"
27	3/2	" "	16.0	4.21	2.65	3.22	11.			.6 6	-.04	1040A	1040A	"
28	3/2	" "	39.0	106.	9.78	5.96	257.			.6 7	-.41	1050A	1050A	"
29	3/2	" "	38.0	99.9	7.12	5.46	240.			.6 6	-.46	312P	312P	"
30	3/2	" "	31.5	10.8	2.92	3.22	32.			.6 7	-.05	325P	325P	"
31	3/7	" "	56.0	81.3	6.29	4.75	286.			.6 7	-.35	410P	410P	"
32	3/7	" "	52.0	10.9	2.85	3.25	31.			.6 8	-.02	1050A	1050A	"
33	4/8	" - Cole	38.0	101.8	10.5	6.51	1050.			.6 6	-.35	1210P	1210P	"
34	4/8	" "	25.0	5.84	2.98	2.96	20.			.6 6	0	850A	850A	"
35	4/29	" "	32.5	19.9	4.82	3.54	96.			.6 9	0	901A	901A	"
												325P	325P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F610-B**

Discharge measurement of **ALHAMBRA WASH**
at **GLADYS AVE.** during the year ending September 30, 19**36**

No.	Date	Made by	Water Stage in Feet	Area of Basin in Acres	Time of Travel in Min.	Discharge in CFS	Mean Vel. in Ft. Per Sec.	Area of Channel in Sq. Ft.	Mean Vel. in Ft. Per Sec.	Stage in Feet	Time of Travel in Min.
1	12/29	Monday-Young	20.5	9.09	3.12	2.95	29	6	7	-03	11204
2	12/29	"	33.0	22.3	4.04	3.33	90	6	8	-08	12105
3	12/29	"	20.0	9.09	3.12	2.95	29	6	7	-07	11104
4	2/1	"	20.0	9.09	3.12	2.95	29	6	7	-07	11104
5	2/1	"	19.0	6.16	1.45	2.67	9.2	6	7	-07	11104
6	2/1	"	26.5	11.62	2.58	2.76	29	6	7	-08	12105
7	2/2	"	36.0	36.67	5.52	5.10	534	6	6	-10	7974
8	2/2	"	32.0	22.1	4.24	3.05	94	6	5	-04	8384
9	2/2	"	32.0	23.5	4.47	3.11	105	6	8	-02	10454
10	2/11	Monday	21.0	5.11	1.58	2.52	8.1	6	7	-01	7124
11	2/11	"	32.0	18.8	4.68	3.17	88	6	8	-05	9412
12	2/11	"	38.0	194	8.69	5.48	90.0	6	6	-05	5107
13	2/11	"	38.0	84.8	7.93	4.99	873	6	6	-02	5607
14	2/11	Monday-Young	26.69	7.0							11104
15	2/12	Monday-Fall	32.0	9.17	2.80	2.85	20	6	10	-08	11204
16	2/12	"	39.0	143	10.7	7.02	1530	6	6	-05	3122
17	2/12	"	39.0	158	10.4	6.80	1650	6	6	-02	3472
18	2/12	"	35.0	25.1	5.73	3.80	144	6	11	-02	4412
19	2/14	"	38.0	87	3.8	5.45	729	6	6	-03	9242
20	2/14	"	38.0	88.6	8.27	5.48	733	6	6	-02	12034
22	2/15	"	32.0	15.2	3.91	3.41	59	6	9	-03	12154
23	2/15	"	33.0	22.8	4.93	3.69	112	6	10	-02	8934
24	2/18	"	33.0	20.0	4.16	3.59	83	6	9	0	9134
25	2/23	Monday-Fall	33.0	15.8	4.13	3.37	65	6	8	-07	8204
26	3/30	"	33.0	34.5	5.99	3.97	207	6	7	-10	8232
27	3/30	"	37.0	79.0	7.63	5.19	603	6	6	-08	11922
28	3/31	"	31.0	11.8	3.31	3.33	39	6	8	-05	2504
29	4/4	"	32.0	14.0	3.65	3.42	51	6	9	-05	6154

F. C. Dist. Form 104

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F610-C**

Daily discharge, in second-feet of **ALHAMBRA WASH at Gladys Ave.** for the year ending September 30, 19**36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	22	0	0	0	0	0	0	0
2	0	0	0	0	7	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	11	0	0	0	0	0	0	0
12	0	0	0	0	144	0	0	0	0	0	0	0
13	0	0	0	0	8	0	0	0	0	0	0	0
14	0	0	0	0	7	0	0	0	0	0	0	0
15	0	0	0	0	4	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0

MEAN 0 0.50 0.23 0.03 18.6 3.43 1.70
Acres Feet 0 30 14 1.6 1070 211 91

Remarks: Recorder removed April 27

F. C. Dist. Form 104

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F610-D**

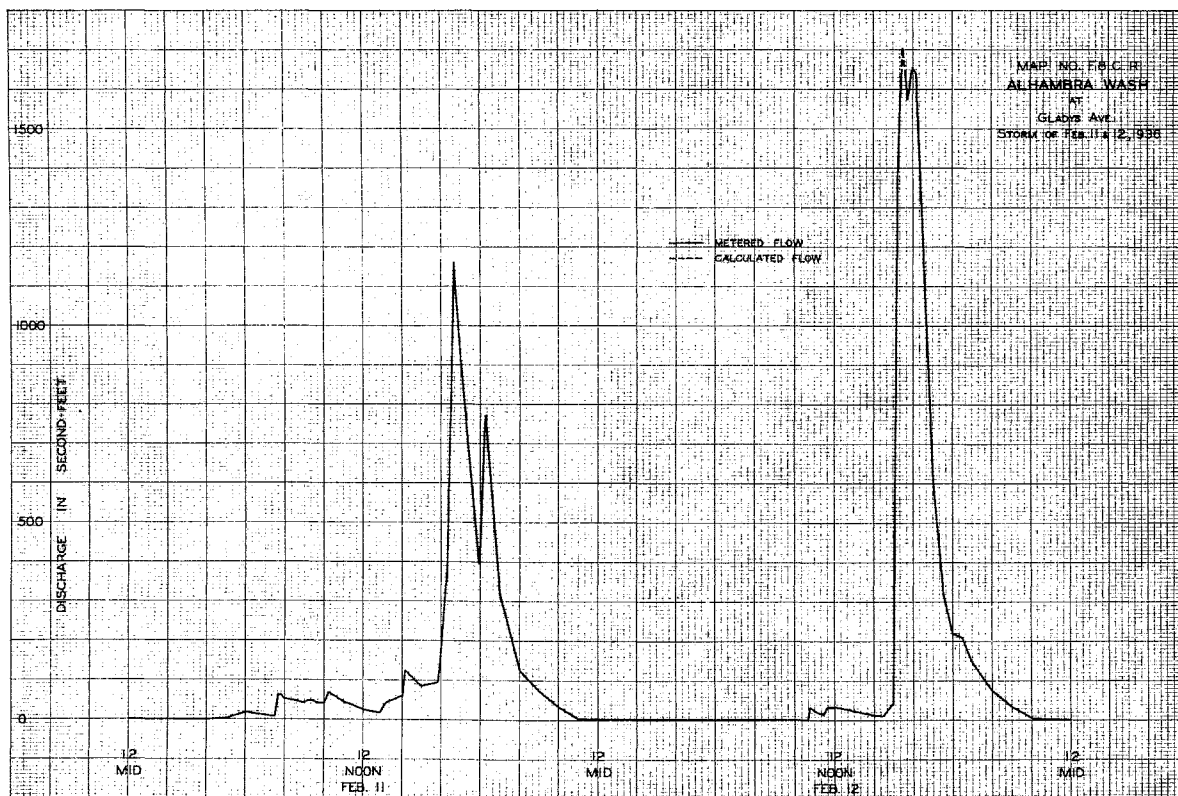
Daily discharge, in second-feet of **ALHAMBRA WASH at Gladys Ave.** for the year ending September 30, 19**35**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0

MEAN 0 3.88 7.60 0 0 0 0 0 0 0 0 0
Acres Feet 0 239 452 0 0 0 0 0 0 0 0 0

Remarks: Recorder installed Feb. 25

RECORDS & CHARTS CO., INC. 1210 S. GARDEN ST. LOS ANGELES, CALIF.



Station F61D-R
 ALHAMBRA WASH 250 ft. above Short Street

Location
 On east side of channel about 250 feet above Short Street and 2650 feet below Garvey Ave.

Drainage area
 14.5 square miles.

Channel and control
 Concrete channel 12.7 feet deep by 40 feet wide. The invert is 0.9 foot below bottom of vertical side walls. Channel forms control.

Discharge measurements
 At low flow will be by wading near station.
 At high flows will be from footbridge at station.

Recorder
 Installed September 2, 1936, in F. C. standard type house over a concrete stilling well.
 Stevens type L recorder replaced on Sept. 17, 1936 with an AU continuous recorder.

Regulation
 None

Diversions
 None

Records available
 See Sta. F61B-R.

Extremes of discharge
 See Sta. F61B-R.

Accuracy

Operation
 Located and operated and recorder house constructed by the Los Angeles County Flood Control District; the stilling well and communication channel were constructed by U. S. Engineer Dept.

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F61D-R
 for the year ending September 30, 1936

Daily discharge in second-feet of ALHAMBRA WASH 250 ft. above Short Street

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
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												

Recorder installed Sept. 2.

Sept. 2-30

Name	Mark	Date	Remarks

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 38 R

Station F38R
BALLONA CREEK at Centinela Blvd.

Discharge measurements of BALLONA CREEK

at Centinela Blvd. during the year ending September 30, 1935

Location	No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating	Stage	Mean No.	Stage No.	Begin	Meter No.
On highway bridge at Centinela Boulevard about 2 1/2 miles southwest of Culver City,														
Drainage area	1	1934											815A	
112 square miles	2	10/17	Prickett & Koch	32.0	19.95	1.34	4.64	27		.6	9	-.04	829A FC 20	
Channel and control	3	10/17	"	60.0	218.0	5.41	8.00	1180	Float	6	-.20	1015A		
Fine sand, silt and adobe. No artificial control.	4	10/17	"	60.0	96.0	2.80	6.03	269		.6	7	-.05	1216P	
Discharge measurements	5	10/17	"	56.0	92.76	2.64	5.95	245		.6	7	-.11	1232P FC 20	
Low flows measured by wading.	6	10/17	"	50.0	109.7	3.24	6.25	355		.6	7	*.30	1250P	
High flows measured from cable car about 200 feet above gage.	7	10/17	"	70.0	311.0	7.97	12.25	4070	Float	6	+1.0	245P		
Recorder	8	10/18	"	64.0	117.3	3.09	6.31	362		.6	7	-.18	850A FC 20	
Installed February 27, 1928 in P. C. Standard type house over a corrugated iron pipe stilling well, attached to downstream side of bridge pier near southeast bank of stream.	9	10/18	"	45.0	21.05	1.97	4.93	61		.6	9	-.06	125P	
Recorder removed April 27, 1936. A continuous recorder.	10	10/18	"	50.0	100.0	3.04	5.91	304		.6	7	-.07	325P	
Regulation and/or Diversions	11	11/1	"	21.0	11.0	1.68	4.35	19		.6	9	-.01	1018P	
Stone Canyon Reservoir, Upper and Lower Franklin Canyon Reservoirs, Hollywood Reservoir, and Silver Lake Reservoir.	12	11/1	"	16.0	6.49	1.39	4.19	9.0		.6	7	-.02	436P	
Diversions	13	11/18	" - Collings	52	101.6	2.94	6.29	299		.6	6	-.22	445P	
Some small diversions for irrigation and gravel plant.	14	11/18	"	52.0	86.55	2.59	6.07	224		.6	6	-.23	745P	
Records available	15	11/18	"	51.0	59.25	2.58	5.86	185		.6	6	-.18	840P	
February 27, 1928 to April 27, 1936. For subsequent records see station F38B-R.	16	11/18	"	49.0	57.1	2.53	5.77	170		.6	6	-.15	905P	
Extremes of discharge	17	11/18	" - Collings	58.0	135.8	4.98	6.97	676		.6	6	+.75	845P	
Sta. F38R:	18	11/18	"	50.0	177.0	7.65	7.62	1390		.6	6	+.55	1122P	
1927-28	19	11/18	"	75.0	348.5	7.39	2.10	4050	Float	7	-1.80	1125P		
Maximum 1100 second-feet May 8	20	11/18	"	46.0	51.4	1.42	5.27	73		.6	9	-.06	140A	
Minimum no flow at various times during the year.	21	11/17	"	57.0	332.5	5.32	9.75	1770		.6	7	-.10	240A	
1928-29	22	11/17	"	56.0	322.5	5.02	10.10	1620		.6	7	+.60	150P FC 20	
Maximum 4990 second-feet March 10	23	11/17	" - Keifer	75.0	460.5	5.23	10.67	2410		.6	8	-.55	850P	
Minimum no flow at various times during the year.	24	11/17	"	65	386.2	5.70	10.05	2200		.6	7	+.70	920P	
1929-30	25	11/19	Prickett & Keifer	55	134.0	2.97	7.15	298		.6	6	-.40	1040P	
Maximum 4460 second-feet January 11	26	11/19	"	45.0	110.7	2.82	6.89	313		.6	6	-.12	740A	
Minimum no flow at various times during the year.	27	11/22	"	6.0	.76	.51	4.13	.39		.6	4	-.01	788A	
1930-31	28	11/28	"	4.0	.78	1.13	4.15	.90		.6	4	0	110P	
Maximum 6280 second-feet April 26	29	12/8	" - Collings	60.0	223.5	3.74	8.47	636		.6	7	-.35	1125A	
Minimum no flow at various times during the year.	30	12/8	"	50	216.3	3.62	8.15	784		.6	7	-.30	1125A	
1931-32	31	12/10	"	4.8	1.16	.52	4.02	.60		.6	4	0	485A	
Maximum 6310 second-feet December 26	32	12/12	"	38.0	24.4	1.62	4.69	40		.6	8	+.25	440A	
Minimum no flow at various times during the year.	33	12/12	"	52	114.8	2.88	6.49	331		.6	6	+.08	440A	
1932-33	34	12/12	"	52.0	110.4	2.69	6.40	398		.6	6	-.10	455A	
Maximum 7000 second-feet January 19	35	12/13	" - Keifer	65.0	311.2	6.20	9.70	1930		.6	8	-.18	1120A	
Minimum no flow at various times during the year.	36	12/13	" - Collings	61.0	320.3	5.28	8.75	1160		.6	7	-.20	1160A	
1933-34	37	12/13	"	66	363	6.10	10.95	2210		.6	7	-.60	1200P	
Maximum 11300 second-feet January 1.	38	12/13	"	66	332.0	5.97	10.47	1980		.6	7	-.35	650A	
Minimum no flow at various times during the year.	39	12/14	Keifer - Prickett	59	201.2	3.74	7.80	752		.6	7	-.30	755A	
1934-35	40	12/14	"	58	194.5	3.66	7.60	712		.6	7	-.10	755A	
Maximum 11200 second-feet April 8	42	12/20	Prickett	4.0	.34	.76	4.27	.25	Float	4	0	1010A		
Minimum no flow at various times during the year.	43	12/28	Keifer - Prickett	64.0	328.2	7.22	10.00	2370		.6	8	-.40	1010A	
1935-36	44	12/28	"	62.0	220.7	5.38	8.67	1190		.6	7	-.95	1130A	
Maximum 8070 second-feet February 12	45	12/29	Prickett	6.0	1.51	.93	4.38	1.4		.6	4	0	765A	
Minimum no flow various days during the year.	46	1/4	" - Garman	57.0	166.4	4.13	7.38	688		.6	7	+.13	160P	
Accuracy	47	1/4	"	57.0	163.7	4.19	7.43	645		.6	7	-.03	200P	
Poor due to badly shifting control and flashy flow. Gage stopped November 17, 18, 1934. Well usually sanded following storms.	48	1/5	" - Keifer	125	323	9.58	15.65	7890		.6	11	-1.30	905A	
Operation														
Located and constructed by the Los Angeles County Flood Control District and operated in cooperation with the U. S. Engineer Dept. and the U.S.G.S. Water Resources Branch.														

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Section No. F 38 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 38 R

Discharge measurements of BALLONA CREEK

Discharge measurements of BALLONA CREEK

at Centinela Blvd. during the year ending September 30, 19 35

at Centinela Blvd. during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width, Area of Section, Mean Velocity, Gate Height, Discharge, Rating Percent, Method, Meter No., and Remarks. Contains 100 rows of data.

Table with columns: No., Date, Made by, Width, Area of Section, Mean Velocity, Gate Height, Discharge, Rating Percent, Method, Meter No., and Remarks. Contains 39 rows of data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 38 R

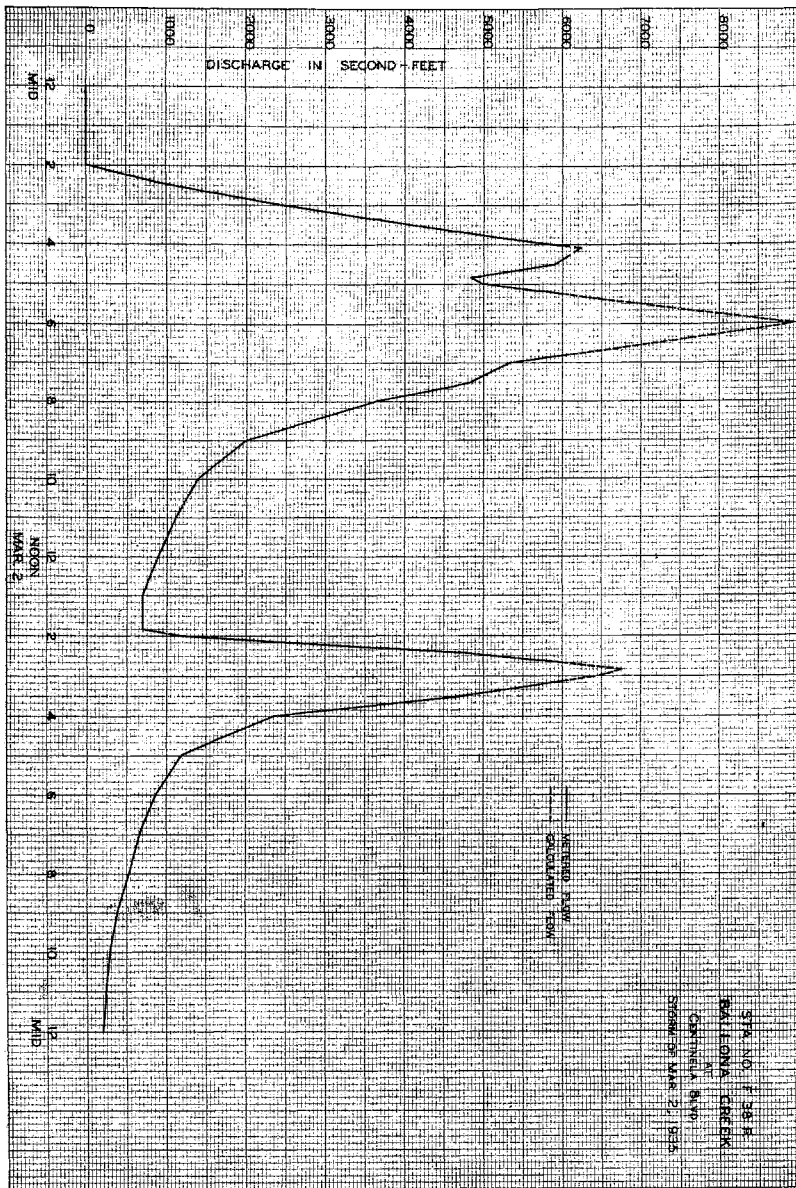
Discharge measurements of BALLONA CREEK at Centinela Blvd. during the year ending September 30, 19 36

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 38 R

Discharge measurements of BALLONA CREEK at Centinela Blvd. during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width, Area of Section, Mean Velocity, Stage, Discharge, Rating, Method, Meter No., G. H., Elevation, Begin, Meter No., No., Date, Made by, Width, Area of Section, Mean Velocity, Stage, Discharge, Rating, Method, Meter No., G. H., Elevation, Begin, Meter No.



09

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 38 E**

Daily discharge, in second-feet of **BALLONA CREEK at Centinela Blvd.** for the year ending September 30, 19 **36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	20	0	.1	.7	.3	0	1.1	.7	0	0	0
2	0	28.9	0	0	.9	2190	0	1.4	.5	0	0	0
3	0	0	0	0	1.8	86	2.1	1.4	0	0	0	0
4	0	0	0	92	199	14	4.2	1.2	0	0	0	0
5	0	0	0	921	431	4.1	2.6	2.0	.2	0	0	0
6	0	0	0	15	821	2.5	2.6	0	.3	0	0	0
7	0	0	0	7	16	472	1.21	0	0	0	0	0
8	0	0	209	5.5	140	38	1860	0	.3	0	0	0
9	0	2.2	2.0	233	6.5	20	19	0	0	0	0	0
10	0	0	1.4	14	3.7	5.5	9.5	0	0	0	0	0
11	0	0	.7	8.5	2.9	6	3.6	0	0	0	0	0
12	0	0	71	7.5	2.1	6	2.5	1	0	0	0	0
13	0	0	927	6.5	1.9	5	2.5	0	0	1.0	0	0
14	0	0	205	6.5	4.1	3.4	1.7	0	.1	.2	0	0
15	0	98	12	276	1.0	3.6	1.0	0	0	0	0	0
16	0	711	6.5	6.5	.5	3.6	1.3	0	.5	0	0	0
17	626	379	3.9	1.0	.2	1.9	1.2	0	.2	0	0	0
18	254	147	2.7	65	1.1	2.2	1.0	0	0	0	0	0
19	13	244	.9	63	.6	7	2.1	0	0	0	0	0
20	0	4.4	.5	2.1	.7	4.6	1.4	0	0	0	0	0
21	0	2.0	.7	1.9	.2	7	.7	0	0	0	0	0
22	0	.4	.6	1.5	.5	7	.6	0	0	0	0	0
23	0	.5	.6	1.0	.4	146	1.6	0	0	0	0	0
24	0	.1	.4	.8	0	280	1.2	0	0	0	0	0
25	0	0	0	1.2	0	8.5	1.9	.7	0	0	0	0
26	0	0	.1	1.7	0	2.6	2.5	0	0	0	9.5	0
27	0	.3	.1	1.6	0	4.2	1.5	0	0	0	1.5	0
28	0	.5	.2	0	0	0	.8	.3	0	0	.3	0
29	0	.6	2.0	.5	0	2.1	131	0	0	0	.1	0
30	0	0	.5	.5	0	3.2	38	.5	0	0	0	0
31	0	0	.6	.4	0	1.2	.7	0	0	0	0	0
895. 1618.9 1734.1 1743.3 1024.8 3278.5 2219.1 8.9 2.9 1.2 11.4 0												
MEAN	25.8	53.8	55.9	55.2	37.0	106.	74.0	.29	.10	.04	.37	0
Accum. Feet	1770.	3800.	3440.	3460.	2050.	6500.	4400.	18.	5.8	2.4	23.	0

Remarks: + indicates discharge 0.05 or less.

YEAR MEAN 34.4
ACUM. FEET 24870.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F38R**

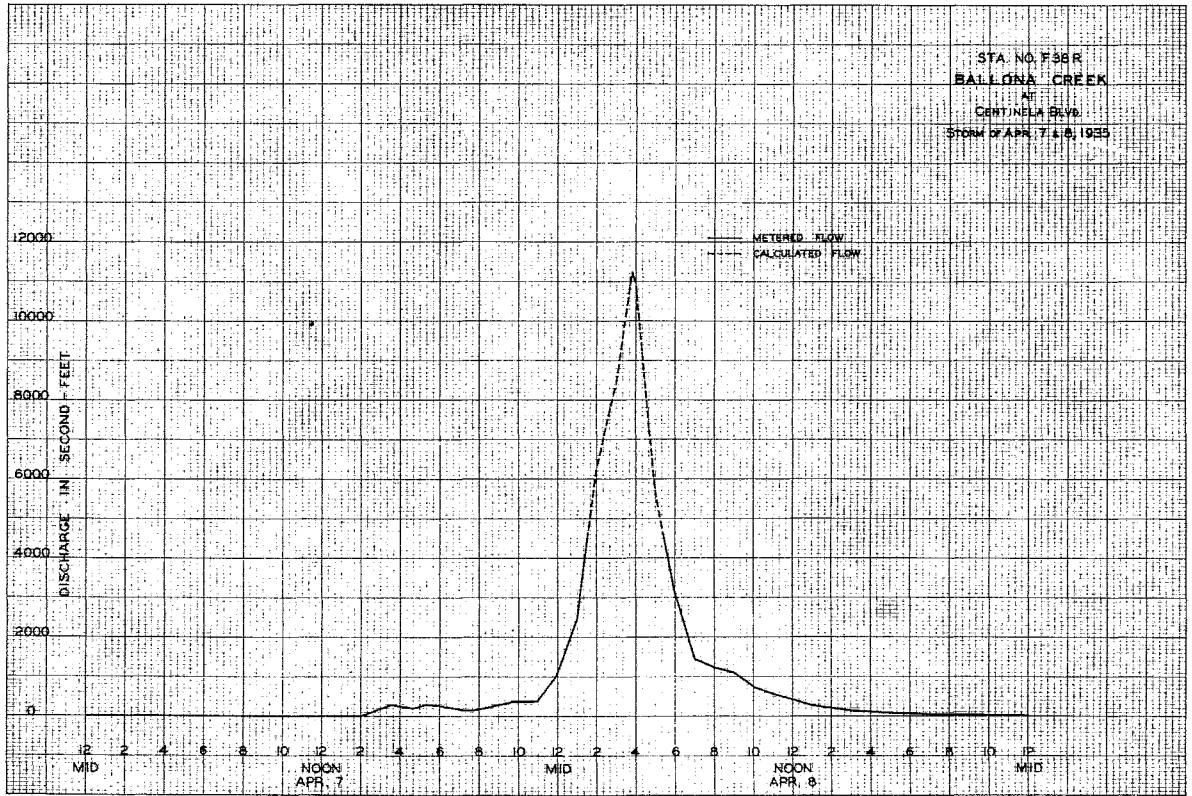
Daily discharge, in second-feet of **BALLONA CREEK at Centinela Blvd.** for the year ending September 30, 19 **36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	2.8	277	1.2	16					
2	0	10.0	0	2.1	487	1.0	18.5					
3	0	9.5	0	5	2.2	1.3	195					
4	0	3.4	22	3.1	3.4	1.3	198					
5	0	0.2	0.8	#	#	2.5	2.5					
6	0	1.3	0	7.5	2.6	1.2	2.8					
7	0	1.0	0	7.5	4.0	1.4	2.9					
8	0	0	0	7.5	2.8	1.7	2.9					
9	0	0	0	10	3.4	2.0	2.9					
10	0	0	0	6.5	5	3.8	2.8					
11	0	0	0	5.5	692	1.2	2.0					
12	0	0	0	10	929	0.2	1.4					
13	0	0	0	12	391	0.4	1.4					
14	0	0	0.1	5	504	0.1	0.7					
15	0	0	0.3	1.7	59	+	1.7					
16	0.9	0	0.2	7.5	507	0.1	1.4					
17	0.5	63.4	0	2.0	15	0.1	1.8					
18	+	13	0	0.6	195	0.1	1.8					
19	0.6	3.4	0	0	11	0.5	2.2					
20	2.1	0.1	0	0.1	8.5	0.3	2.1					
21	0	0	0	1.8	8.5	0	1.8					
22	0	0	0	2.6	9.5	0.2	0.8					
23	0	0	0	2.9	240	0	0.1					
24	0	0	0	2.8	3.8	3.7	0.1					
25	0	0	0	3.8	2.2	4.2	0					
26	0	0	0	0.3	2.1	0.9	0					
27	0	0	1.7	0	1.4	0	0					
28	0	0	0.2	0	1.0	0	0					
29	0	0	15.7	4.5	1.0	0	0					
30	0	0	1.3	6.5	0	482	0					
31	0	0	5	4.1	0	168	0					
13.1 770.9 188.6 175.1 4370.9 716.5 April 1-26 454.8												
MEAN	0.43	25.7	6.08	5.65	151	23.1						
Accum. Feet	26	1530	374	347	8670	1420						

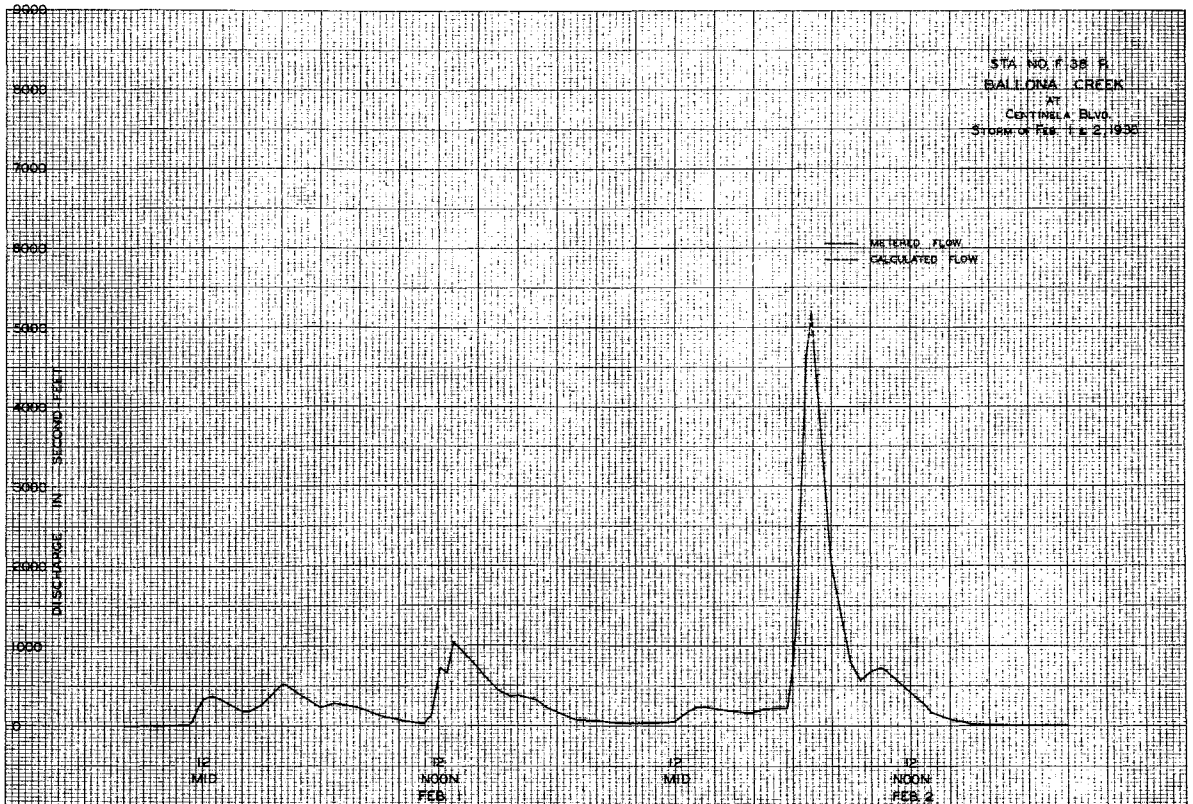
Remarks: + indicates discharge of 0.05 second-feet or less.
* clock stopped Jan. 4-6; for purpose of determining the January total and the yearly total, the discharge for these days was used as 6 second-feet.

YEAR MEAN 32.0
ACUM. FEET 13270

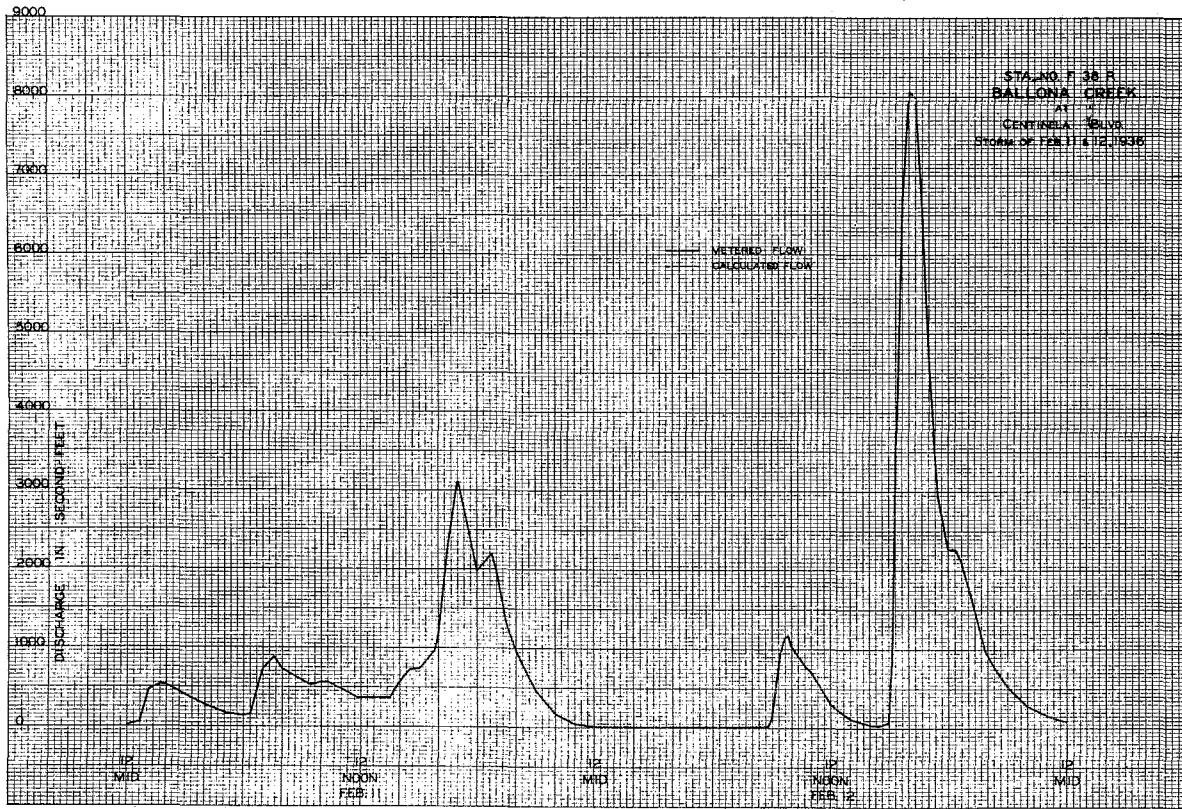
HOWES & KERR CO., P. O. BOX 84881,
ST. LOUIS, MO.



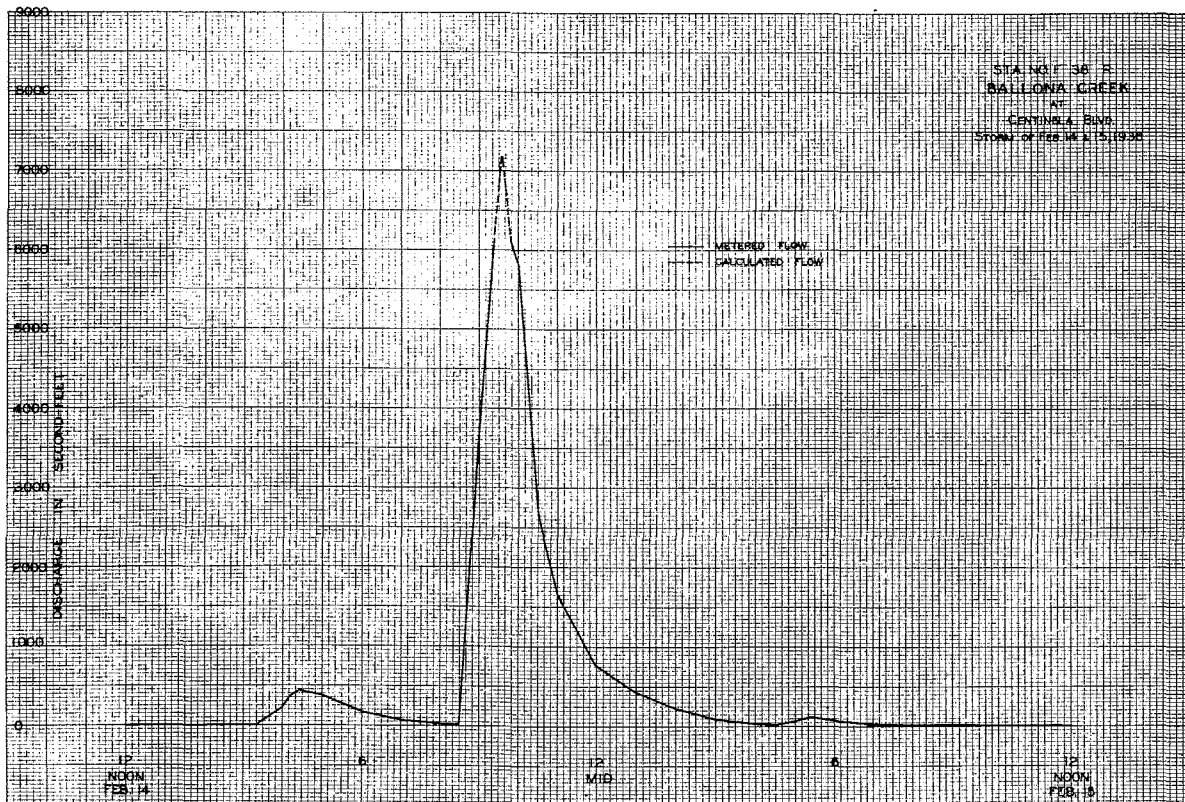
HOWES & KERR CO., P. O. BOX 84881,
ST. LOUIS, MO.



REPORT BY ENGINEER, U.S. GEOLOGICAL SURVEY
12 1/2 x 18 1/2 IN.



REPORT BY ENGINEER, U.S. GEOLOGICAL SURVEY
12 1/2 x 18 1/2 IN.



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 235 R**

Station F235R

BENEDICT CANYON STORM DRAIN at Wesley St.

Discharge measurements of **BENEDICT CANYON STORM DRAIN**

at **Wesley St., 400 ft. South of P. E. Tracks**, during the year ending September 30, 19**35**

Location

400 feet south of Pacific Electric tracks, in concrete box type house in concrete stilling well under parkway on the east side of Wesley Street, Culver City.

Drainage area

6.96 square miles

Channel and control

Channel - concrete pipe 90 inches diameter

Discharge measurements

At low flows by wading.
At high flows from plank supported on brackets on inside of the storm drain.

Recorder

Stevens type L recorder, installed January 12, 1934 in underground house

Regulation

None

Diversions

None

Records available

January 12, 1934 to September 30, 1935. (for prior records see sta. F150R Benedict Canyon Creek near Oakhurst St., Palms)

Extremes of discharge

1934-35

Maximum not determined
Minimum no flow most of time

1935-36

Maximum 248 second-feet February 12
Minimum no flow most of time

Accuracy

From the time the recorder was installed on January 12, 1934 until the communication pipe was replaced with a larger one on February 14, 1935, the communication persisted in becoming obstructed to such an extent that the record was of little value and is not published. Subsequent to February 14, 1935 there has been but little trouble with the communication above a gage-height of about 0.7 feet above the invert of the storm drain.

Due to the invert of the communication pipe being about 0.3 foot above the invert of the storm drain and also due to material being left in the storm drain and in the communication pipe after storms, the recorder does not usually reflect gage-heights less than 0.7 feet above the invert of the storm drain. As the flow, except during storms, is negligible it was therefore decided not to attempt to determine the flow except during storms. The discharges are based on Kutter's formula. The gage height record is good and the discharges are good subject to the accuracy of Kutter's formula with a $n = .013$.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. ft.	Rating Percent full	Method	Mean gage No.	G. H. Stage Feet	Begin Well	Meter No.
1	12/8	E.S. Fuller-D.H. Fuller	4.2	0.77	2.49	-	1.9	Float	4	-	-	753A	-
2	12/8	"	5.2	2.57	4.64	-	12.	.6	6	-	-	814A	FC 1
3	12/8	"	2.75	0.54	8.22	-	4.9	Surface	1	-	-	850A	FC 1
4	12/8	"	2.40	0.40	7.26	-	2.9	Float	-	-	-	900A	FC 1
5	12/12	Prickett	4.0	0.64	1.53	0.21	1.0	.6	4	+.02	-	929A	FC 20
6	12/14	" - Keifer	4.8	1.03	1.75	0.87	1.8	.6	5	0	-	931A	"
7	1/4	"					Est. .20	Est.	-	-	-	915A	"
8	1/8	" - Garman	6.0	6.85	8.02	0.43	55.	.6	4	0	-	1125A	FC 20
9	1/9	"	6.5	8.93	8.28	1.49	74.	.6	4	+.08	-	800P	"
10	2/4	"	5.5	2.77	3.01	-	8.3	.6	5	-	-	845P	FC 20
11	2/4	"	5.0	1.00	1.12	0.36	1.1	.6	5	0	-	1236P	"
12	2/6	"	5.0	1.27	1.36	0.0	1.7	.6	3	0	-	708P	"
13	3/7	"	5.0	3.45	9.68	1.12	33.	.6	5	+.08	-	1010A	"
14	3/8	"	3.0	0.51	1.90	0.40	1.0	.6	3	0	-	1010A	"
15	3/21	"	2.5	0.49	1.00	0.06	.60	.6	5	0	-	417P	"
16	4/7	"	4.0	1.86	4.90	0.68	9.1	.6	4	0	-	340P	"
17	8/29	Bonadiman					0	-	-	-	-	345P	"
												1120A	"
												1130A	"
												410P	"
												1210P	"
												1215P	"
												510P	"
												530P	"
												800A	"

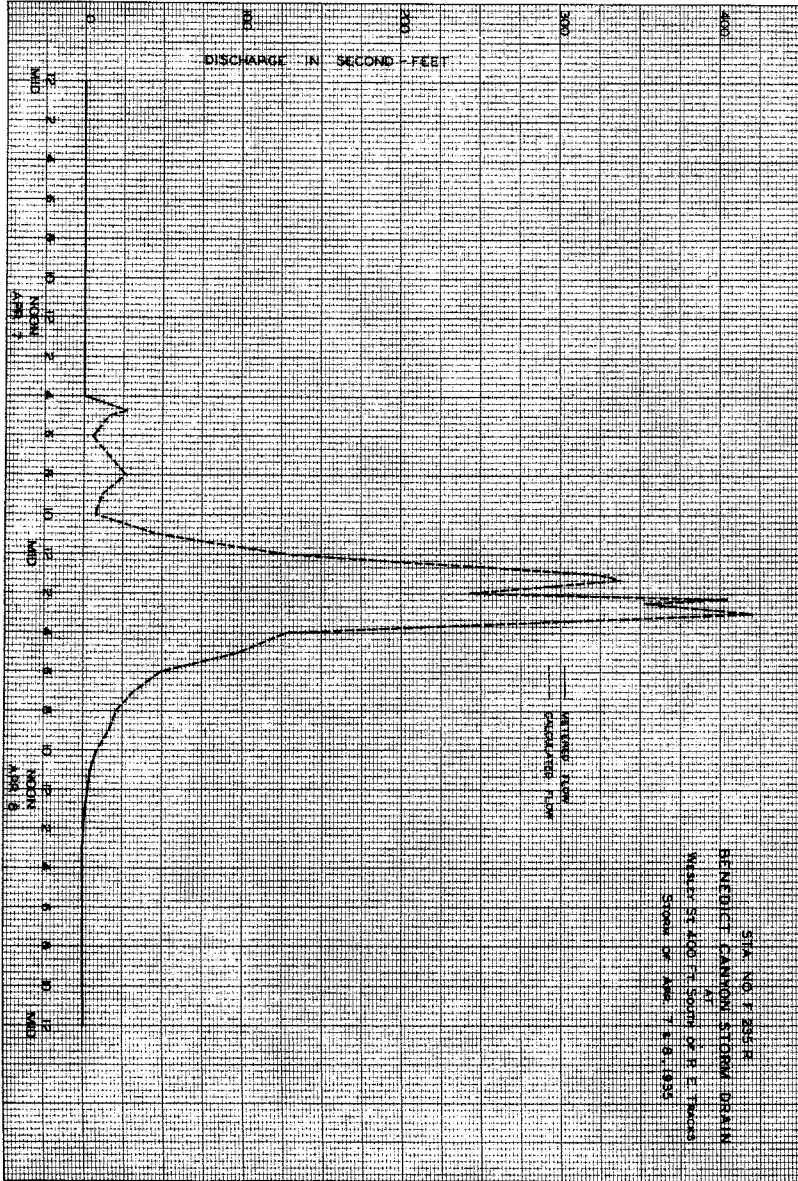
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 235 R**

Discharge measurements of **BENEDICT CANYON STORM DRAIN**

at **Wesley St., 400 ft. South of P. E. Tracks**, during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. ft.	Rating Percent full	Method	Mean gage No.	G. H. Stage Feet	Begin Well	Meter No.
1	2/1	Prickett	5.0	2.72	3.85	.96	13.	.6	5	0	-	540A	FC 22
2	2/1	"	3.0	.44	1.09	-	.48	.6	3	-	-	552A	"
3	2/2	Prickett-Andren	5.5	4.90	6.80	1.68	33.	.6	6	-.02	-	950A	"
4	2/12	Prickett-Keifer	6.5	9.07	10.2	-	93.	.6	6	-	-	955A	"
5	2/18	"	6.4	6.02	6.96	.76	42.	.6	6	0	-	930A	"
6	3/28	Prickett	5.2	3.23	4.20	.84	14.	.6	5	-	-	942A	"
												840A	"
												850A	"
												830A	"
												840A	"
												150P	"
												204P	"



LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F235R

Daily discharge, in second-feet of BENELECT CANYON STORM DRAIN at Wesley St., 400 ft. south of P.S. tracks for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2							67					
3												
4												
5												
6												
7							14					
8							4.9	8.5				
9								61				
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

MEAN												
ACRE-FOOT												

Remarks: _____ YEAR OR PERIOD _____ MEAN ACRES-FOOT _____

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F236R

Daily discharge, in second-feet of BENELECT CANYON STORM DRAIN at Wesley St. for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2						20						
3						31						
4							15					
5							12					
6												
7												
8												
9												
10												
11						36						
12						16						
13						46						
14							24					
15							16					
16							41					
17												
18												
19												
20												
21												
22							13					
23												
24												
25							8					
26												
27												
28												
29												
30												
31							28					
							46					

MEAN												
ACRE-FOOT												

Remarks: _____ YEAR OR PERIOD _____ MEAN ACRES-FOOT _____

Station F2R

BROWN CANYON CREEK at Devonshire Ave., Chatsworth

1931-32

Maximum 152 second-feet February 9
Minimum no flow various times during year

Location

On the downstream end of the partition between right section and the middle section of the 3 section concrete culvert under Devonshire Ave.

Operation

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

Drainage area

14.3 square miles

Channel and control

Channel above and below culvert is sand and gravel. Floor of culvert is concrete. Cutting and filling at the upper end of the culvert varies the distribution of the flow between the 3 sections.

Recorder

Installed December 11, 1928 in a box type house over a corrugated iron pipe stilling well. Recorder removed August 27, 1932. Recorder re-installed October 2, 1935. Rational 8 day recorder.

Regulation and diversions
or

Twin Lakes Dams

Diversions

None

Records available

December 11, 1928 to August 27, 1932 and from October 2, 1935 to September 30, 1936. Due to the stage-discharge relations being dependent on the distribution of the flow between the three channels and due to lack of discharge measurements the discharge for the water years 1934-35 and 1935-36 has not been determined.

Extremes of discharge

1929-30

No flow

1930-31

Maximum 8 second-feet April 26
Minimum no flow various times of the year

Station F168R

BIG TUJUNGA CREEK below Big Tujunga Dam #1

1934-35

Maximum 547 second-feet April 8
Minimum Est. .6 October 20

1935-36

Maximum 101 second-feet November 18
Minimum 0.4 second-feet March 27

Location

On north side of Big Tujunga Creek, 1200 feet below Big Tujunga Dam No. 1, and about 12 miles northeast of Sunland.

Accuracy

Fair

Drainage area

81.7 square miles.

Operation

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

Channel and control

Channel is gravel and boulders. No artificial control.

Discharge measurements

At low flow by wading.
At high flow from a cable car 40 feet above the station.

Recorder

Installed on November 8, 1932 in a box type house over a corrugated iron pipe stilling well. An continuous recorder.

Regulation

Flow partially regulated by Big Tujunga Dam No. 1

Diversions

None

Records available

Stream measurements from December 8, 1931 to November 7, 1932 and recorder records from November 8, 1932 to September 30, 1936.

Extremes of discharge

1932-33

Maximum 58 second-feet January 19
Minimum .5 second-feet March 7

1933-34

Maximum 44 second-feet January 1
Minimum .2 several days in December

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 168 R

Discharge measurements of BIG TUJUNGA CREEK below Big Tujunga Dam #1 during the year ending September 30, 1955

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq-ft, Mean Velocity ft. per sec., Gate Height Feet, Discharge Sec-ft, Rating Program, Method, Meas. No., G. M. Change Total, Begin Time, Meter No., and Meas. No. Rows include measurements from 1A to 54.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 168 R

Discharge measurements of BIG TUJUNGA CREEK below Big Tujunga Dam #1 during the year ending September 30, 1955

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq-ft, Mean Velocity ft. per sec., Gate Height Feet, Discharge Sec-ft, Rating Program, Method, Meas. No., G. M. Change Total, Begin Time, Meter No., and Meas. No. Rows include measurements from 55 to 15.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 168 B

Discharge measurements of BIG TUJUNGA CREEK
below BIG TUJUNGA DAM #1 during the year ending September 30, 1936

Table with columns: No., Date, Made by, With, Height, Meter, Gauge, Discharge, etc. Rows 16-49.

F. C. Dist. Form 12, 10-13-34

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F168R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Big Tujunga Dam #1 for the year ending September 30, 1936. Table with columns: Day, Oct., Nov., Dec., Jan., Feb., Mar., Apr., May, June, July, Aug., Sept.

Summary table with columns: Day, Oct., Nov., Dec., Jan., Feb., Mar., Apr., May, June, July, Aug., Sept.

Remarks

Year Mean 7.53
Acres-Foot 5470

F. C. Dist. Form 12

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 168 R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Big Tujunga Dam #1 for the year ending September 30, 1935. Table with columns: Day, Oct., Nov., Dec., Jan., Feb., Mar., Apr., May, June, July, Aug., Sept.

Summary table with columns: Day, Oct., Nov., Dec., Jan., Feb., Mar., Apr., May, June, July, Aug., Sept.

Remarks: + indicates discharge 0.05 sec. ft. or less.

Year Mean 14.9
Acres-Foot 10760

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 111 B-R

Station F111B-R
BIG TUJUNGA CREEK above Edison Road

Discharge measurements of BIG TUJUNGA CREEK

at above Edison Road during the year ending September 30, 19 35

Location

On the right bank of the stream 300 feet above Edison Road, about 4 miles above Big Tujunga Dam No. 1 and about 300 feet upstream from the original location, Sta. F111R.

Drainage Area

67 square miles.

Channel and control

Gravel and Boulders
No artificial control.

Discharge measurements

At low flow by wading near station.
At high flow from cable car at station.

Recorder

An continuous recorder was removed from station F111R on August 17, 1932 and was installed at station F111B-R, 300 feet upstream, on September 15, 1932, in a Standard F. C. type recorder house over a 24 inch corrugated iron stilling well.

Regulation

None.

Diversions

None.

Records available

September 15, 1932 to September 30, 1935.
For records prior to September 15, 1932 see station F111R.

Extremes of discharge

Sta. F111R:

1930-31

Maximum 216 second-feet February 5
Minimum Dry at various times during the year.

1931-32

Maximum 3910 second-feet February 8
Minimum Dry at various times during the year

Sta. F111B-R:

1932-33

Maximum 324 second-feet January 19
Minimum No flow July 29 to September 30

1933-34

Maximum 1520 second-feet January 1
Minimum Dry at various times during the year

1934-35

Maximum 640 second-feet April 8
Minimum No flow part of the year

1935-36

Maximum 159 second-feet February 12
Minimum no flow most of July, August and September

Accuracy

Fair.

Glock stopped November 9-14, 1934 - October 18-30, 1935.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq-ft	Mean velocity ft per sec	Cross height feet	Discharge Cu-ft	Rating	Method	Mean Sp. Ft.	C.R. classif. Sta.	Begin Date	End Date	Water No.
1	10/22	Moon	6.0	1.10	.75	5.58	.80			.6	5	-	100P	
2	10/24	"	2.5	.50	.64	5.51	.32			.6	3	-	110P	FC 35
3	11/1	Cooper - Moon	2.2	.44	.91	5.55	.40			.6	4	0	130P	
4	11/8	Moon - Cooper	2.2	.40	.82	5.68	.33			.6	4	0	140P	FC 20
5	11/15	"	2.80	.57	1.02	5.57	.60			.6	6	0	150P	
6	11/22	"	3.8	1.35	1.24	5.53	1.7			.6	7	-	160P	FC 35
7	11/28	"	3.6	1.05	1.06	5.57	1.1			.6	7	-	170P	
8	12/6	" - Cooper	4.1	.79	1.02	5.56	.80			.6	5	0	180P	FC 20
9	12/13	"	50.0	40.2	3.02	7.38	126.			.6	14	+02	190P	
10	12/13	"	27.0	52.4	3.36	7.23	176.			.6	7	-08	200P	
11	12/14	"	51.0	57.8	3.05	7.56	176.			.6	14	+20	210P	
12	12/14	"	40.0	55.4	3.12	8.42	266.			.6	8	+07	220P	
13	12/15	"	44.5	33.7	2.55	6.76	86.			.6	12	-05	230P	FC 35
14	12/20	Cooper	14.6	7.05	1.55	5.77	11.			.6	10	0	240P	FC 20
15	12/26	"	13.6	5.54	1.06	5.61	5.9			.6	8	0	250P	
16	1/3	Moon - Cooper	13.9	6.28	.94	5.61	5.9			.6	10	0	260P	
17	1/10	"	53.8	38.2	1.68	6.54	65.			.6	12	0	270P	
18	1/16	Cooper - Moon	50.0	30.9	1.35	6.30	42.			.6	12	-01	280P	
19	1/24	Moon	19.5	18.9	1.19	5.97	23.			.6	11	0	290P	FC 35
20	1/31	Cooper - Moon	18.9	15.3	1.05	5.82	16.			.6	10	0	300P	FC 20
21	2/5	Moon	51.5	48.3	2.64	7.00	128.			.6	15	-04	310P	FC 35
22	2/6	"	48.4	41.4	2.08	6.69	87.			.6	16	0	320P	
23	2/7	"	46.7	35.1	1.85	6.57	65.			.6	16	0	330P	
24	2/8	"	46.4	32.9	1.73	6.45	57.			.6	16	0	340P	
25	2/14	Cooper - Moon	19.8	21.5	1.20	6.04	25.			.6	11	0	350P	FC 20
26	2/21	"	20.9	15.7	.97	5.82	15.			.6	12	0	360P	
27	2/28	"	20.8	14.0	.98	5.73	14.			.6	12	0	370P	
28	3/7	" - Moon	21.6	20.9	1.35	6.06	28.			.6	12	+02	380P	
29	3/14	"	22.0	18.7	1.22	5.95	23.			.6	11	0	390P	
30	3/28	"	21.0	15.9	1.05	5.82	17.			.6	12	0	400P	
31	4/11	"	25.8	30.5	2.20	6.49	67.			.6	10	0	410P	
32	4/19	"	23.5	15.9	1.81	6.05	29.			.6	12	0	420P	
33	4/26	"	16.6	11.6	1.67	5.89	19.			.6	10	0	430P	
34	5/3	"	16.0	12.4	1.35	5.88	17.			.6	10	0	440P	
35	5/9	"	25.6	11.0	1.21	5.80	15.			.6	9	0	450P	
36	5/16	"	17.2	9.87	1.16	5.76	11.			.6	9	0	460P	
37	5/25	"	16.4	8.49	.99	5.65	8.4			.6	9	0	470P	
38	5/31	"	17.0	7.80	1.01	5.63	7.9			.6	9	0	480P	
39	6/6	"	16.8	6.21	0.84	5.51	5.2			.6	10	0	490P	
40	6/12	"	11.2	5.88	.78	5.40	3.0			.6	8	0	500P	
41	6/20	"	11.1	5.24	.74	5.36	2.4			.6	8	0	510P	
42	6/27	"	10.8	2.37	.57	5.28	1.4			.6	11	0	520P	
43	7/3	"	11.0	5.59	.74	5.38	2.7			.6	11	0	530P	
44	7/11	"	4.3	1.32	.57	5.23	.76			.6	6	0	540P	
45	7/16	Irwin	4.0	.96	.32	5.12	.51			.6	4	0	550P	FC 31
46	7/31	"	.3	.44	.91	5.02	.04			.6	3	0	560P	
47	8/30	Bollinger	5.0	.69	.27	5.09	.19			.6	4	0	570P	FC 10
48	9/27	Turner	0.8	.05	.80	5.09	.04	Float		.6	4	0	580P	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 111 B-R**

Discharge measurements of **BIG TUJUNGA CREEK**

at **XXK** above Edison Road during the year ending September 30, 19**26**

No.	Date	Made by	Wash Feet	Area of Basin Sq. Ft.	Mean Velocity ft. per sec.	Cage (ft. in)	Discharge (cfs.)	Rating (ft.)	Method	Mean gage No.	G. H. (ft. above Tidal)	Begin (Date)	End (Date)	Meter No.
1	10/2	Turner	3.0	.80	.42	5.14	.34	Float 6	-			1100A	1105A	-
2	10/31	"	3.5	1.05	.55	5.18	.60	"	4			115P	118P	-
3	11/18	"	8.0	2.06	.70	5.30	1.4	.6	7			846A	856A	FG 23
4	11/27	"	8.0	2.12	.58	5.30	1.2	Float 6	-			1140A	1145A	-
5	12/4	"	6.8	1.94	.62	5.34	1.2	.6	5			205P	211P	FG 5
6	12/12	Ealy-Turner	7.6	2.06	.54	5.32	1.1	Est.	1.2			215P	230P	"
7	12/19	Turner				5.32								
8	1/3	"	7.8	2.15	.59	5.34	1.3	.6	7			1108A	1117A	FG 5
9	1/9	"	5.0	1.02	1.23	5.33	1.3	.6	5			1215P	1220P	"
10	1/16	"	7.5	2.20	.65	5.35	1.4	.6	7			1125A	1135A	"
11	1/22	"	7.8	2.11	.60	5.34	1.3	.6	7			302P	310P	"
12	1/30	"	7.8	2.16	.62	5.34	1.4	.6	7			140P	150P	"
13	2/1	"	12.5	8.03	1.00	5.76	8.0	.6	8	-.01		425P	435P	"
14	2/1	"	12.0	6.91	.87	5.66	6.0	.6	8	0		730P	730P	"
15	2/2	"	16.0	15.2	1.41	6.13	21.	.6	6	+26		455A	510A	"
16	2/2	"	20.0	19.6	1.76	6.42	34.	.6	9	+08		655A	705A	"
17	2/2	"	26.0	29.2	2.32	6.86	68.	.6	6	-10		752A	802A	"
18	2/2	"	26.0	30.0	2.08	6.79	63.	.6	5	-02		802A	812A	"
19	2/2	"	22.0	21.5	1.81	6.44	39.	.6	11	-01		812A	842A	"
20	2/2	"	24.0	28.3	2.04	6.76	58.	.6	8	0		842A	1200N	"
21	2/2	"	20.5	18.6	1.46	6.29	27.	.6	10	-02		1210P	510P	"
22	2/3	"	16.0	10.0	.87	5.81	8.7	.6	8	-		522P	655A	"
23	2/6	"	12.0	5.24	.50	5.52	2.6	.6	6	-		200P	210P	"
24	2/11	Odekirk-Turner	16.7	10.5	1.16	5.89	12.	.6	9	+18		244P	302P	"
25	2/11	Odekirk-Turner	19.8	13.6	1.12	5.99+	15	.6	9	+03		302P	315P	FG 5
26	2/11	"	19.5	16.4	1.37	6.18+	22	.6	11	+03		420P	438P	"
27	2/11	Turner-Odekirk	23.5	22.8	1.73	6.47+	40	.6	9	+09		730P	730P	"
28	2/11	"	23.5	19.4	2.06	6.46+	40	.6	10	+01		1117P	1128P	"
29	2/12	"	23.0	47.2	3.42	7.65	161	.6	5	0		610P	625P	"
30	2/12	"	24.0	49.0	2.96	7.64	145	.6	6	-02		630P	647P	"
31	2/12	"	24.0	39.2	3.42	7.34	134	.6	5	-06		925P	930P	"
32	2/12	"	24.0	36.1	3.17	7.25	115	.6	8	-10		935P	947P	"
33	2/13	Turner	20.5	19.0	2.02	6.46	38	.6	9	-01		650A	705A	"
34	2/15	"	22.5	26.5	2.50	6.69	66	.6	11	+02		1243A	1255A	"
35	2/15	"	23.0	29.2	2.59	6.79	75	.6	11	+02		130A	140A	"
36	2/15	"	21.5	24.3	2.35	6.62	57	.6	11	0		1258P	1223P	"
37	2/16	"	22.0	26.1	2.28	6.67	60	.6	11	-01		1234P	1234P	"
38	2/17	"	20.5	19.7	1.84	6.34	36	.6	10	-		655A	708A	"
39	2/18	"	20.0	17.8	1.82	6.24	33	.6	10	-		715A	725A	"
40	2/19	Odekirk	17.2	15.5	2.56	5.12	24	.6	10	0		746A	810A	"
41	2/23	Turner	18.5	23.3	2.14	6.53	50	.6	10	+01		223A	233A	"
42	2/23	"	21.0	20.3	2.13	6.71	64	.6	11	-02		613A	623A	"
43	2/23	"	18.0	26.0	1.85	6.52	48	.6	10	-		121P	131P	"
44	2/24	Odekirk	20.0	17.8	1.76	6.24	31	.6	12	0		1050A	1105A	"
45	2/27	"	15.9	10.8	1.39	5.90	15	.6	11	0		920A	935A	FG 19
46	3/5	"	11.0	7.52	1.05	5.67	7.9	.6	10	0		850A	905A	"
47	3/12	"	11.0	6.50	.87	5.59	5.6		9	0		806A	924A	"
48	3/18	"	11.0	6.28	.78	5.54	4.9	.6	9	0		725A	740A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 111 B-R**

Discharge measurements of **BIG TUJUNGA CREEK**

at **XX** above Edison Road during the year ending September 30, 19**26**

No.	Date	Made by	Wash Feet	Area of Basin Sq. Ft.	Mean Velocity ft. per sec.	Cage (ft. in)	Discharge (cfs.)	Rating (ft.)	Method	Mean gage No.	G. H. (ft. above Tidal)	Begin (Date)	End (Date)	Meter No.
49	3/26	Odekirk	6.2	3.16	1.75	5.92	5.5	.6	8	0		752A	748A	FG 19
50	3/26	"	6.2	2.53	1.71	5.93	4.3	.6	8	0		1130A	1145A	FG 11
51	3/30	"	22.4	8.64	1.96	6.22+	17.	.6	10	+01		1038P	1038P	FG 19
52	3/30	"	22.4	9.98	2.17	6.29+	22.	.6	10	+03		1136P	1156P	"
53	3/31	"	12.6	7.56	2.61	6.33	20.	.6	8	+02		1202A	1220A	"
54	3/31	"	14.1	12.5	2.82	6.44+	35.	.6	9	+01		515A	529A	"
55	3/31	"	13.0	10.5	2.98	6.43	31.	.6	9	0		605A	622A	"
56	3/31	"	22.8	12.8	2.08	6.38+	27.	.6	12	-01		750A	806A	FG 5
57	4/2	"	10.7	4.58	2.05	6.04	9.4	.6	10	0		823A	742A	FG 19
58	4/9	"	17.0	5.34	1.57	6.02	8.4	.6	11	0		800A	800A	"
59	4/16	Turner	7.5	2.62	1.57	5.78	4.1	.6	8	-		1240P	1250P	FG 5
60	4/23	"	8.0	2.55	1.49	5.75	3.8	.6	9	-		1230P	1240P	"
61	4/30	"	8.0	2.04	1.21	5.72	2.5	.6	8	-		205P	215P	"
62	5/7	Odekirk	4.8	1.52	1.38	5.67	2.1	.6	7	-		112P	800A	FG 19
63	5/14	Turner	3.5	.98	.95	5.58	.95	.6	5	-		221P	105P	FG 5
64	5/21	"	3.5	.84	.93	5.58	.80	.6	7	-		110P	125P	"
65	5/28	Turner	3.5	.86	1.06	5.58	.90	.6	7	-		130P	244P	"
66	6/4	Irwin	2.6	.65	1.12	5.59	.75	.6	5	0		252P	FG 30	"
67	7/30	Turner												1000A
68	8/13	"												915A
69	8/27	"												1150A
70	9/10	"												230P

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F 111 B-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Edison Road

for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	.4	.9	7	14	15	14	17	7	1.6	+	.2
2	0	.4	.9	6	14	19	15	17	6	5.0	+	.2
3	0	.4	.9	5	13	19	13	16	6	2.3	+	.2
4	0	.4	.9	7.5	13	19	13	16	5.5	1.9	+	.1
5	0	.4	.9	18.5	18	19	13	16	5	1.6	+	.1
6	0	.4	.9	55	95	18	15	15	4.6	1.2	+	.1
7	+	.3	.8	46	64	25	12	14	4.4	1.2	+	.1
8	+	.3	3.8	38	65	24	29.6	14	4.2	1.0	+	.1
9	+	.4	5	55	46	25	135	13	3.8	.9	+	.1
10	+	.4	2.2	66	41	22	38	12	2.7	.8	+	+
11	+	.4	2.1	39	35	22	66	12	2.4	.6	+	+
12	+	.4	2.4	39	35	22	66	12	2.2	.4	+	+
13	+	.5	1.5	34	29	22	46	12	3.0	.4	+	+
14	+	.5	1.64	29	26	22	42	11	2.9	.4	+	+
15	+	.6	.79	63	35	21	38	11	2.9	.3	+	+
16	+	3.5	36	42	25	19	37	11	2.9	.3	+	+
17	14	2.4	29	36	21	18	34	11	2.7	.2	+	+
18	21	2.1	30	34	19	17	30	10	2.6	.2	+	+
19	1.8	2.6	14	32	18	16	29	10	2.4	.2	+	+
20	.9	2.1	11	27	16	16	27	9.5	2.2	.1	0	0
21	.8	1.7	10	25	15	16	25	9	2.1	.1	0	0
22	.8	1.6	9	24	15	16	24	8	2.0	.1	0	0
23	.5	1.4	8	24	14	16	23	8	1.9	.1	0	0
24	.3	1.4	7	25	14	14	22	7.5	1.7	.1	.7	0
25	.2	1.2	6.5	23	14	20	20	7	1.6	.1	.7	0
26	.2	1.2	6	22	13	20	20	7	1.4	.1	.4	0
27	.2	1.2	5	20	13	18	18	7	1.3	.1	.5	+
28	.2	1.2	10	19	13	17	18	7	1.2	+	.5	+
29	.2	1.1	8.5	13	14	15	19	7	1.2	+	.2	+
30	.2	1.0	8	16	14	19	19	7	1.2	+	.2	+
31	.2	1.0	7.5	16	14	14	14	7	1.2	+	.2	+
41.5 31.9 587.0 1095.5 856. 579.0 1215 540 94.1 18.3 5.0 1.2												

Mean	1.24	1.06	18.9	25.3	29.9	18.7	40.5	11.0	2.14	.59	.10	.04
Accr Feet	82	62	1160	2170	1660	1150	2410	674	187	56	6.0	2.4
Remarks	+ indicates discharge 0.05 sec. ft. or less.											
Year	1936											
Mean	18.3											
Accr Feet	9600.											

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

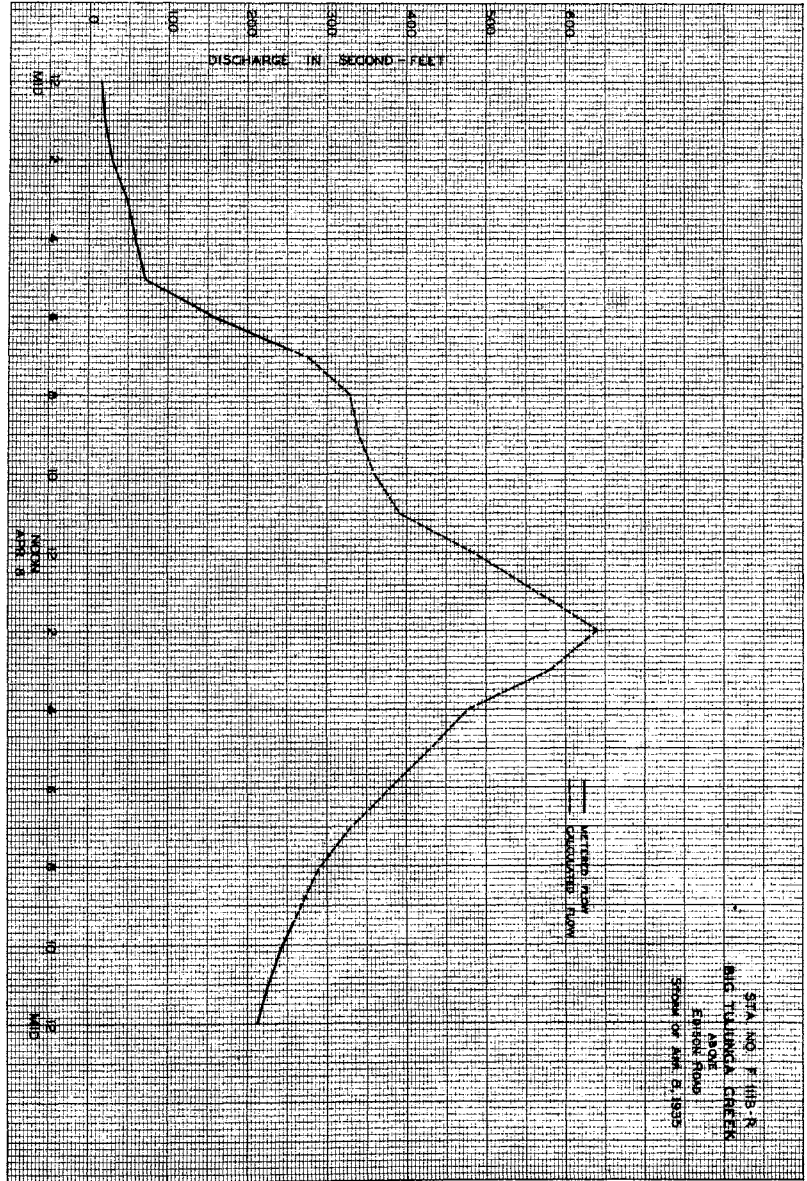
Sta. No. F111B-R

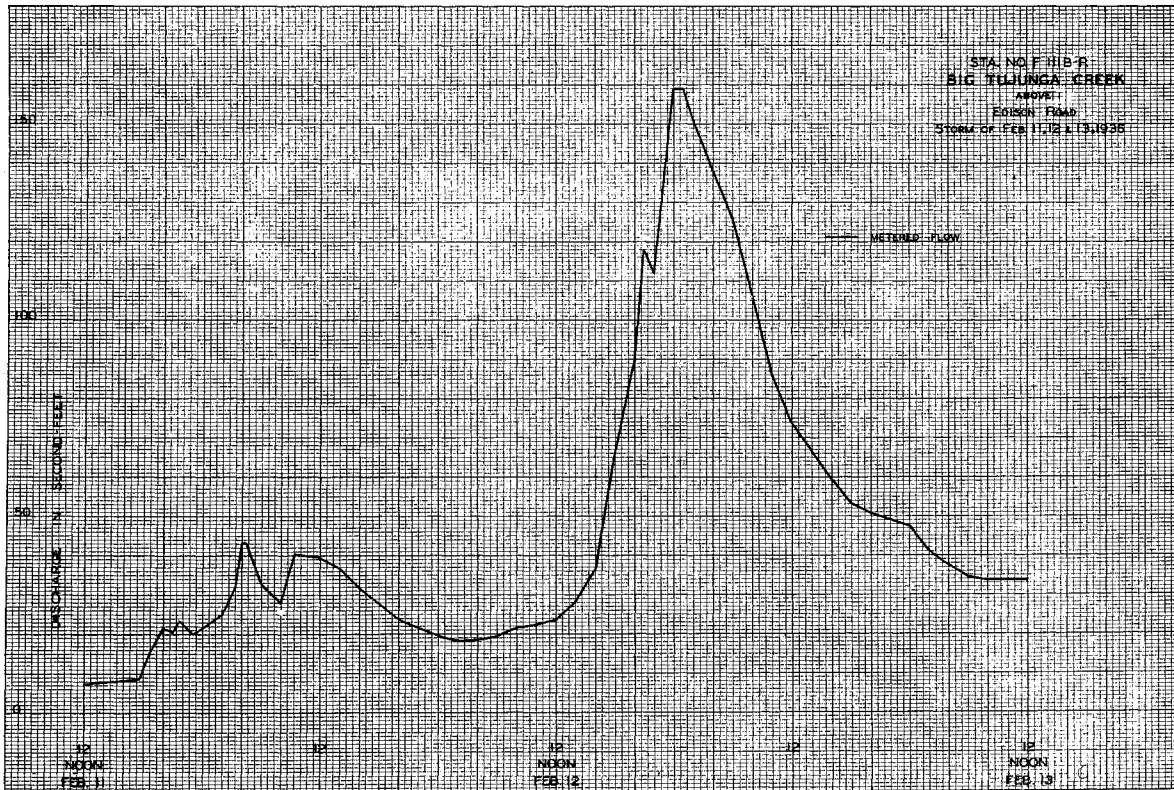
Daily discharge, in second-feet of BIG TUJUNGA CREEK above Edison Road

for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.6	1.1	1.2	2	10	11	2.4	0.9	0.1	0	0
2	0.3	0.6	1.2	1.2	2	5	5	2.3	0.8	0	0	0
3	0.3	0.6	1.2	1.2	8.5	9	8	2.2	0.8	0	0	0
4	0.3	0.6	1.2	1.2	4.8	8	14	2.3	0.7	0	0	0
5	0.3	0.6	1.2	1.2	3.5	7.5	11	2.2	0.6	0	0	0
6	0.3	0.7	1.2	1.2	2.7	7.5	9	2.1	0.6	0	0	0
7	0.3	0.8	1.2	1.2	2.4	7	9	2.0	0.6	0	0	0
8	0.3	0.8	1.2	1.2	2.5	6	7.5	1.6	0.5	0	0	0
9	0.3	0.8	1.2	1.2	2.5	6	6.5	1.5	0.5	0	0	0
10	0.3	0.9	1.2	1.2	1.4	5.5	6	1.4	0.5	0	0	0
11	0.3	0.9	1.1	1.3	5.5	5.5	6	1.3	0.5	0	0	0
12	0.3	0.9	1.1	1.3	4.4	5	5	1.2	0.5	0	0	0
13	0.4	1.0	1.2	1.4	4.4	5	4.5	1.0	0.4	0	0	0
14	0.4	1.1	1.2	1.4	4.4	4.8	3.9	1.0	0.4	0	0	0
15	0.4	1.1	1.2	1.4	4.8	5	3.8	1.0	0.4	0	0	0
16	0.4	1.2	1.2	1.4	4.8	5	3.8	1.0	0.4	0	0	0
17	0.4	1.4	1.1	1.4	3.4	4.8	3.8	0.9	0.4	0	0	0
18	0.4	1.5	1.1	1.4	2.2	4.6	3.8	0.9	0.4	0	0	0
19	0.4	1.5	1.1	1.4	1.8	4.6	3.8	0.9	0.4	0	0	0
20	0.4	1.4	1.1	1.4	1.8	4.6	3.9	0.9	0.4	0	0	0
21	0.5	1.5	1.0	1.3	1.6	4.6	3.8	0.8	0.3	0	0	0
22	0.5	1.3	1.0	1.3	1.4	4.6	3.5	0.8	0.3	0	0	0
23	0.5	1.3	1.1	1.3	1.4	4.6	3.5	0.7	0.3	0	0	0
24	0.5	1.2	1.1	1.3	1.4	4.6	3.5	0.7	0.3	0	0	0
25	0.5	1.2	1.1	1.3	1.4	4.6	3.5	0.7	0.3	0	0	0
26	0.5	1.1	1.2	1.3	1.7	5	2.9	0.8	0.2	0	0	0
27	0.5	1.2	1.2	1.3	1.5	6	2.7	0.8	0.2	0	0	0
28	0.5	1.1	1.2	1.3	1.3	7.5	2.7	0.9	0.2	0	0	0
29	0.6	1.1	1.1	1.3	1.1	7.5	2.5	0.9	0.1	0	0	0
30	0.6	1.1	1.1	1.3	1.1	11	2.4	0.9	0.1	0	0	0
31	0.6	1.1	1.1	1.3	1.1	11	2.4	0.9	0.1	0	0	0
12.5 30.8 36.9 40.0 620.5 209.8 170.2 39.7 13.0 0.1 0												

Mean	0.41	1.03	1.19	1.29	2.14	6.77	5.67	1.28	0.43	+	0	+
Accr Feet	25	61	73	79	1230	416	338	79	26	0.20	0	0+
Remarks	+ Indicates discharge 0.05 second-feet or less.											
Year	1936											
Mean	3.20											
Accr Feet	2330											





Station F213R
BIG TUJUNGA CREEK - below submerged dam.

Location

Near center of Sec. 32, T. 3 N., R. 13 W. (unsurveyed) about 1000 feet below a partly constructed and abandoned dam, about 1000 feet above the abandoned U.S.G.S. station "Tujunga Creek near Sunland" (UIAR), 2 miles above mouth of canyon, 7 miles below Big Tujunga Dam No. 1 and 4 miles northeast of Sunland.

Drainage area

106 square miles.

Channel and control

Channel - composed of gravel and boulders.
An artificial control, 165 feet below the recorder house, was buried during the 1934-35, 35-36 water years by several feet of gravel.

Discharge measurements

At low flow by wading near station.
At high flow from cable car near station.

Recorder

Installed in 1932 in box-type house over a 36 inch corrugated iron stilling well.
An continuous recorder

Regulation

Flow partially regulated by Big Tujunga Dam No. 1.

Diversions

There are two or three small irrigation diversions above the station.

Records available

October 1, 1932 to September 30, 1936.
(Records at U.S.G.S. Station, Tujunga Creek near Sunland, are available from October 1, 1916 to September 30, 1932.)

Extremes of discharge

1932-33	Maximum 1390 second-feet	January 19
	Minimum 1.1 second-feet	several times during the year.
1933-34	Maximum 1450 second-feet	January 1
	Minimum .9 second-foot	November 25
1934-35	Maximum 671 second-feet	April 8
	Minimum 2.0 second-feet	June 28
1935-36	Maximum 494 second-feet	February 2
	Minimum 2.4 second-feet	several days during December.

Accuracy

Fair except for February 12-15, 1936 when a control shift of 2 feet occurred in 3 days.
November 19-21, 1935 estimated.

Operation

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 7 215 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 7 215 R

Discharge measurements of BIG TUJUNGA CREEK

Discharge measurements of BIG TUJUNGA CREEK

below submerged dam during the year ending September 30, 19 35

below submerged dam during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Notes, Meter No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Notes, Meter No.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 213 R**

Discharge measurements of **BIG TUJUNGA CREEK**

at **below submerged dam** during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage Height feet	Discharge Sec. ft.	Rating Percent off	Meter No.	G. H. Gauge Total	Begin End	Meter No.
1	10/3	Turner	18.0	17.1	1.45	5.86	25.		.6	9	0	258P FC 23
2	10/10	"	18.0	17.0	1.35	5.85	23.		.6	19	0	940A FC 23
3	10/18	"	18.5	18.6	1.34	5.92	25.		.6	11	0	857A FC 23
4	10/24	"	18.5	17.4	1.24	5.88	22.		.6	10	0	820A FC 23
5	10/30	"	18.0	15.2	1.14	5.78	17.		.6	10	0	900A FC 23
6	11/7	"	18.5	12.0	.82	5.61	9.8		.6	10	-	805P FC 23
7	11/13	"	18.1	8.73	.52	5.45	4.6		.6	10	-	800P FC 23
8	11/17	Luce - Miller	14.5	6.76	.89	5.48	5.9		.6	8	0	155P FC 13
9	11/21	Turner	18.2	8.24	.62	5.44	5.1		.6	10	0	825A FC 5
10	11/27	"	18.0	7.75	.51	5.40	3.9		.6	10	0	800P FC 5
11	12/5	"	5.2	2.49	1.01	5.34	2.5		.6	6	0	816P FC 5
12	12/12	"	8.0	5.17	1.41	5.55	7.3		.6	8	0	835P FC 5
13	12/18	"	18.0	7.47	.56	5.40	4.2		.6	10	0	804P FC 5
14	12/26	"	18.0	6.96	.46	5.38	3.2		.6	10	0	816P FC 5
15	1/2	"	18.0	6.89	.47	5.38	3.2		.6	10	0	805P FC 5
16	1/8	"	18.0	6.76	.49	5.38	3.3		.6	10	0	805P FC 5
17	1/15	"	18.0	6.90	.54	5.40	3.7		.6	10	0	844P FC 5
18	1/23	"	18.0	6.49	.51	5.38	3.3		.6	10	0	845P FC 5
19	1/30	"	18.3	9.24	.34	5.38	3.2		.6	10	0	740A FC 5
20	2/1	Luce - Miller	20.0	15.8	2.12	5.98	34.		.6	8	0	555P FC 13
21	2/2	Miller - Livingston	27.0	26.6	3.69	6.41	98.		.6	9	-07	1025A FC 35
22	2/3	Turner	22.0	3.9	1.96	5.90	7.6		.6	8	0	810P FC 5
23	2/6	"	11.5	2.16	1.64	6.14	3.5		.6	6	0	800P FC 5
24	2/11	Miller-Livingston	26.5	12.5	5.00	6.55	62.		.6	11	+02	110P FC 35
25	2/12	Miller-Livingston	31.0	20.6	4.75	6.92	98.		.6	13	-04	1200N FC 35
26	2/15	Luce-Livingston	28.0	16.1	3.25	6.68	52.		.6	14	-	1245P FC 13
27	2/16	Luce	25.0	18.5	4.44	-	82.		.6	10	-	1023A FC 13
28	2/16	Miller-Livingston	38.5	20.0	3.52	8.72	71.		.6	16	0	110P FC 35
29	2/16	"	50.0	30.4	2.92	8.72	89.		.6	16	0	110P FC 35
30	2/16	"	50.0	31.6	2.99	8.72	95.		.6	16	0	500P FC 5
31	2/16	"	50.0	30.1	2.83	8.74	85.		.6	16	+04	600P FC 5
32	2/16	"	50.0	30.6	2.79	8.74	85.		.6	16	0	730P FC 5
33	2/17	Luce-Buach	35.5	12.7	2.53	8.80	32.		.6	14	-01	405P FC 13
34	2/19	Luce	42.0	17.0	3.05	8.86	52.		.6	13	0	820P FC 13
35	2/20	Turner	49.0	14.8	2.90	9.02	43.		.6	14	0	915A FC 19
36	2/22	Miller-Livingston	26.5	10.1	2.39	9.08	24.		.6	11	-04	1142A FC 35
37	2/22	"	26.3	9.97	2.55	9.06	25.		.6	11	0	800P FC 35
38	2/22	"	27.0	11.5	2.58	9.11	30.		.6	11	+02	1130P FC 35
39	2/23	Luce-Miller	40.0	16.4	3.06	9.16	50.		.6	15	+01	1055A FC 13
40	2/24	Odekirk	18.1	7.26	3.38	9.05	24.		.6	11	0	812P FC 19
41	2/25	"	14.6	6.68	3.43	8.82	23.		.6	12	0	830P FC 5
42	2/27	Turner	13.5	7.01	4.47	8.88	31.		.6	9	0	953A FC 5
43	2/27	Luce	14.7	8.62	4.91	8.88	42.		.6	11	0	1010A FC 13
44	2/29	Turner	14.0	4.41	2.72	8.95	12.		.6	15	0	800P FC 5
45	3/5	"	12.0	5.88	2.88	9.06	17.		.6	8	0	805P FC 5
46	3/12	"	1.5	5.67	2.78	8.96	16.		.6	12	0	815P FC 5
47	3/19	"	10.7	3.11	1.41	8.78	4.4		.6	11	0	830P FC 5
48	3/26	"	10.5	2.89	1.26	8.78	3.6		.6	10	0	858P FC 5

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F213R**

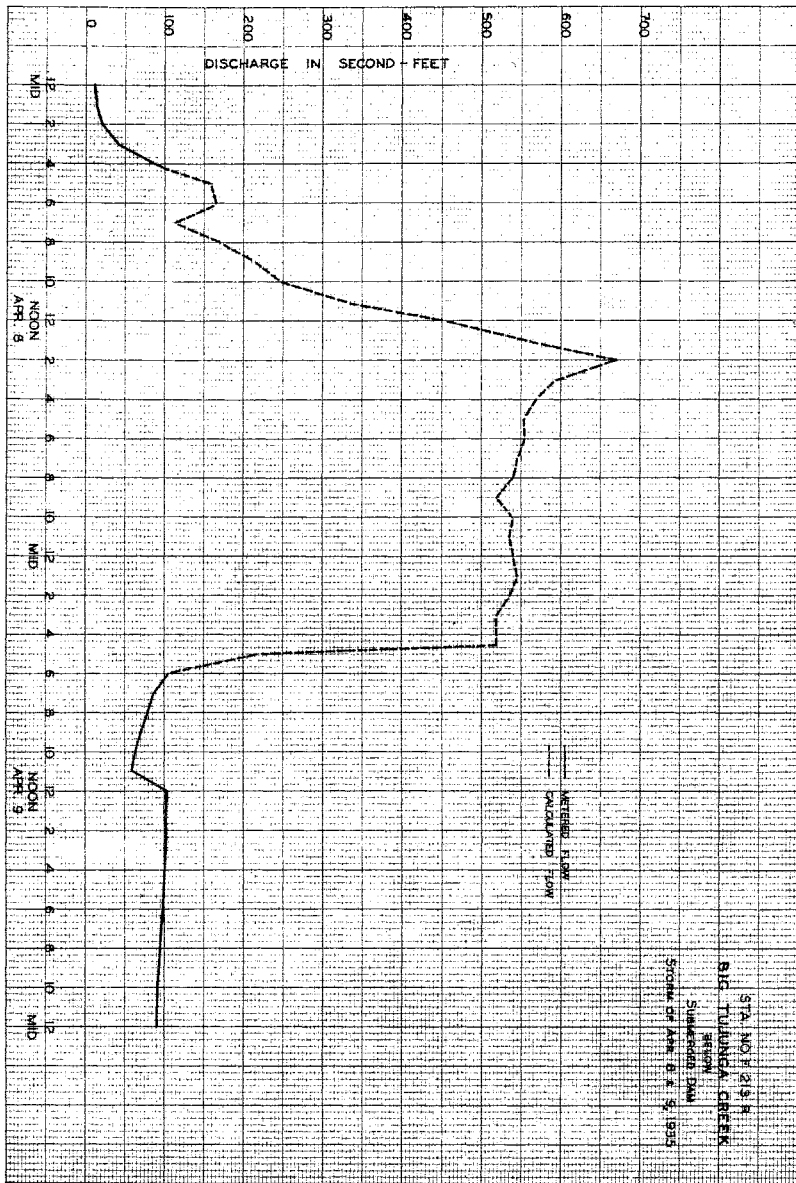
Discharge measurements of **BIG TUJUNGA CREEK**

at **below submerged dam** during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage Height feet	Discharge Sec. ft.	Rating Percent off	Meter No.	G. H. Gauge Total	Begin End	Meter No.
49	3/31	Miller-Livingston	Two Channels			9.20	62.		-	14	+06	1205A FC 35
50	3/31	"	"	"	"	9.25	52.		-	18	0	145A FC 35
51	3/31	"	"	"	"	9.23	32.		-	14	0	215A FC 35
52	3/31	Turner	18.0	5.19	2.34	9.15	12.		.6	9	0	820A FC 5
53	4/2	"	11.2	3.23	1.68	9.01	5.4		.6	9	0	845P FC 5
54	4/9	Odekirk	6.3	2.60	1.97	8.69	5.1		.6	8	0	800P FC 19
55	4/16	Turner	6.5	2.61	2.12	8.64	5.5		.6	7	0	740A FC 5
56	4/23	"	6.3	2.49	2.26	8.64	5.6		.6	7	0	725A FC 5
57	4/30	"	6.0	2.24	2.10	8.63	4.7		.6	7	0	720A FC 5
58	5/7	"	5.8	1.98	1.83	8.61	3.6		.6	7	0	755A FC 5
59	5/15	"	6.0	2.44	2.03	8.64	5.0		.6	8	0	805A FC 5
60	5/21	"	6.2	2.52	2.04	8.65	5.2		.6	7	0	750A FC 5
61	5/28	"	6.0	2.20	1.65	8.62	3.6		.6	7	0	800A FC 5
62	7/2	Irwin	6.5	2.57	1.89	8.69	4.8		.6	7	0	820P FC 31
63	7/15	"	6.2	2.03	1.58	8.62	3.2		.6	6	0	845A FC 5
64	7/30	Turner	8.0	3.95	2.43	8.88	9.6		.6	9	0	1006A FC 5
65	8/12	"	9.1	3.82	2.28	8.86	8.7		.6	8	0	1012A FC 5
66	8/27	"	9.5	4.31	2.32	8.83	10.		.6	9	0	840P FC 5
67	9/10	Turner & Luce	8.0	3.46	2.34	8.78	8.1		.6	8	0	850P FC 5
68	9/17	Turner	7.0	2.80	2.08	8.74	5.8		.6	7	0	825P FC 5
69	9/30	"	7.0	2.66	1.99	8.70	5.3		.6	7	0	750A FC 5

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 215 R**



Daily discharge, in second-feet of **BIG TUJUNGA CREEK below submerged dam** for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1	9	3.8	4.1	9	8.5	26	8	59	9.5	7	24	25	
2	7.5	3.4	4.4	9	7.5	36	7.5	58	9.5	8	24	28	
3	6	3.6	4.1	9	15	27	8	51	9	10	25	28	
4	7.5	3.6	4.1	10	19	27	8.5	50	8.5	16	25	21	
5	6.5	3.4	4.1	11	24	26	8	55	6.5	17	25	21	
6	6.5	3.4	4.1	27	32	24	7.5	21	4.4	17	25	22	
7	6.5	3.4	4.1	29	32	38	8.5	16	5	17	25	22	
8	5.5	3.4	8	26	34	15	354.	16	6.5	21	25	25	
9	5.5	3.4	4.8	28	32	18	185	18	6.5	24	25	25	
10	5.5	3.4	4.8	24	31	18	91	21	7	21	25	25	
11	5	3.4	5	24	30	10	31	25	6	25	25	25	
12	5.5	3.8	6	18	29	10	67	25	6	25	25	25	
13	5.5	3.8	52	37	28	10	76	22	5.5	25	25	21	
14	6	3.8	82	41	31	9.5	59	25	5	25	25	21	
15	5.5	4.4	22	31	31	9.5	25	21	5	26	25	21	
16	5.5	6.5	15	38	31	9	25	21	5.5	26	25	20	
17	25	5	12	35	30	9	25	21	5.5	26	22	20	
18	25	5	10	35	30	8.5	34	21	4.8	26	22	21	
19	7	7.5	9	25	29	8.5	34	21	4.1	26	22	22	
20	4.1	5.5	8	20	28	8	24	19	6.5	26	22	22	
21	3.8	4.8	8	28	27	8.5	34	16	5.0	26	25	25	
22	4.8	4.8	8.5	22	26	8.5	25	16	2.8	26	24	25	
23	4.8	4.4	8.5	34	26	10	36	14	2.8	26	25	25	
24	4.8	3.8	9	39	26	17	39	15	2.8	26	24	25	
25	4.8	4.1	9	34	25	10	34	14	2.8	26	25	27	
26	4.8	4.1	9.5	34	25	10	28	15	2.8	26	26	26	
27	4.1	4.4	11	25	26	9	28	15	2.6	26	26	26	
28	4.1	4.4	20	25	26	9	37	15	2.6	25	24	26	
29	3.4	4.4	11	36	11	8.5	35	12	4.4	25	24	26	
30	3.0	4.4	10	36	10	8	66	10	5	25	24	26	
31	3.0	4.4	10	26	8	8	10	10	5	25	24	26	
MEAN		6.64	4.20	12.5	26.6	26.7	14.2	52.2	19.7	5.26	22.5	25.4	22.8
ACRS- FEET		408.	266.	758.	2250.	1480.	875.	1300.	1210.	535.	1220.	1440.	1260.

Remarks: + indicates discharge 0.05 sec. ft. or less.

YEAR MEAN 20.5
ACRS- FEET 14,840.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 213 R**

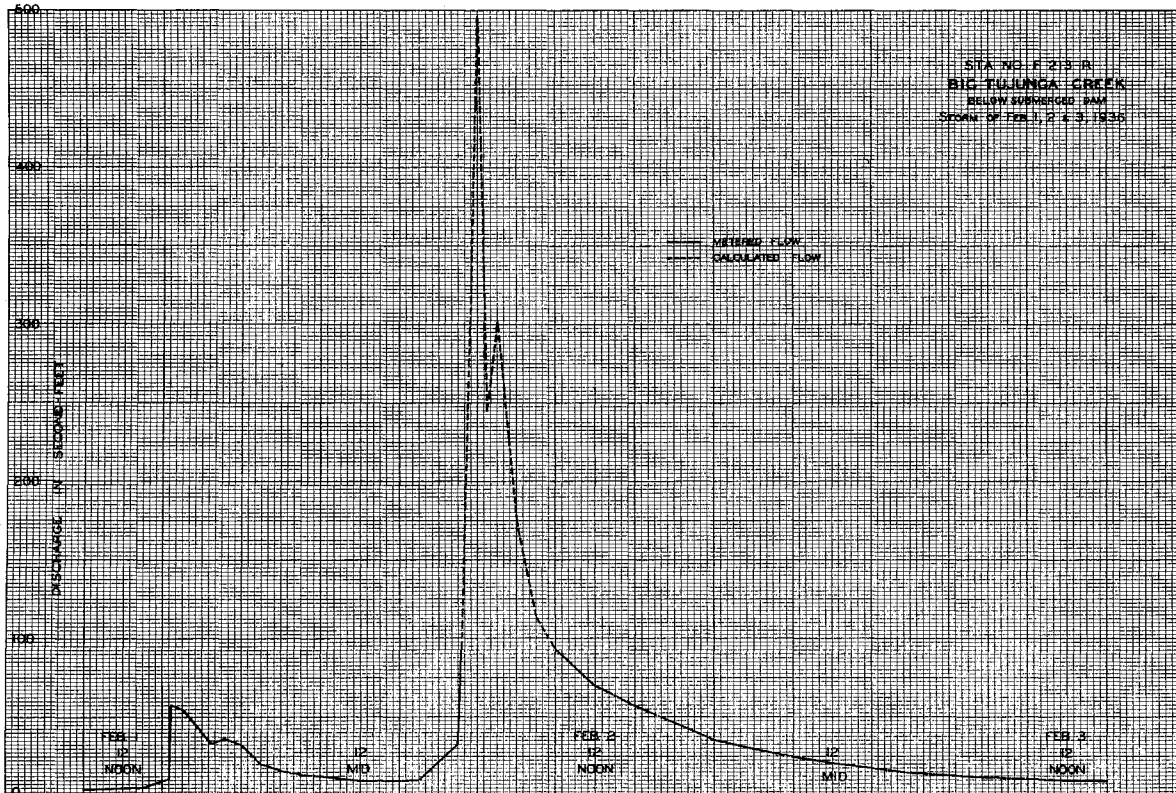
Daily discharge, in second-feet of **BIG TUJUNGA CREEK below submerged dam** for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1	20.0	1.0	2.7	4.0	1.3	y	7	4.2	3.7	3.7	10	11	
2	20.0	1.0	2.6	3.5	7.4	1.8	6	4.2	4.0	4.0	10	11	
3	20.0	1.3	2.6	3.0	11	3	6	4.0	4.0	4.0	10	11	
4	20.0	1.2	2.4	3.0	8	27	12	4.0	3.7	4.0	y.5	10	
5	20.0	1.1	2.4	3.2	6	17	10	3.5	3.7	3.7	y.5	10	
6	20.0	1.0	2.4	3.5	4.0	16	8.5	3.3	3.7	4.2	y.5	10	
7	24	y.5	2.4	3.3	4.5	13	4.5	3.2	4.0	4.0	y.5	10	
8	24	10	2.4	3.3	7.5	13	5.5	3.0	3.7	4.0	y.5	10	
9	23	14	2.6	3.3	12	14	3.5	3.2	3.7	4.4	y.5	10	
10	23	10	2.6	3.3	18	15	3.5	3.2	3.7	4.2	y.5	9.5	
11	23	8	3.8	3.5	42	16	5	3.2	3.5	3.7	y	8.5	
12	22	7.5	3.5	5.5	150	16	5.5	3.2	3.5	3.3	y	8.5	
13	22	16.5	180	4.4	145	15	5.5	3.7	3.5	3.0	y	8	
14	23	4.0	180	4.0	65	13	5.5	4.0	3.5	4.1	y.5	8	
15	23	3.5	4.2	4.0	12	5.1	12	4.4	3.5	3.1	y.5	7.5	
16	26	3.0	6	3.5	72	11	5.5	4.4	3.0	3.0	y	7	
17	25	7	7.5	3.5	44	y	5.5	4.4	3.0	6.5	8.5	6.5	
18	25	11	4.0	3.5	41	7.5	5.5	4.6	3.3	6.5	8.5	6	
19	24	15	3.5	3.5	49	4.8	5.5	4.8	3.3	7	6	6	
20	24	15	3.5	3.5	46	4.6	5.5	4.8	3.3	7.5	8.5	6	
21	24	y	3.5	3.3	32	4.2	5.5	4.6	3.3	8	8.5	6.5	
22	22	y	3.2	3.3	32	4.2	5.5	4.6	3.3	8	8.5	6.5	
23	22	11	3.2	3.3	57	3.7	5.5	4.0	3.3	y	y	9.5	
24	22	4	3.2	3.2	30	4.2	5	4.0	3.3	y	y	9.5	
25	21	3.2	3.2	3.2	20	3.7	4.8	3.5	3.3	10	9.5	8.5	
26	21	y	3.2	3.3	22	2.7	4.6	3.5	3.3	10	y	7.5	
27	20	4.4	3.2	3.2	26	4.4	4.6	3.7	3.3	10	11	7.5	
28	19	3.2	3.2	3.2	34	6.5	4.6	3.7	3.2	10	11	6.5	
29	17	3.2	3.2	3.2	16	10	4.4	3.7	3.3	10	11	5.5	
30	17	3.2	3.2	3.2	20	10	4.4	3.7	3.5	10	11	4.8	
31	16	3.2	3.2	3.2	26	26	3.7	3.7	3.0	10	11	4.8	
MEAN		22.7	8.55	4.30	3.47	3.2	12.1	5.77	3.88	3.51	6.29	4.47	8.24
ACRS- FEET		1400	50y	265	213	2260	744	344	238	20y	387	582	491

Remarks:

YEAR MEAN 10.5
ACRS- FEET 7640

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Station F106B-R

BIG TUJUNGA - EAST WASH at Chandler Blvd.

Location

On the downstream side of the upper highway bridge across Big Tujunga - East Wash at Chandler Boulevard, 1/5 mile above Magnolia Boulevard.

Drainage area

Of the Big Tujunga above the split is 157 square miles; of the East Wash from the split to station 106B-R is 4.52 square miles.

Channel and control

Sand and gravel.
No artificial control.

Discharge measurements

By wading near gage.

Recorder

Installed March 20, 1936 in box type house over a corrugated iron pipe stilling well.
Recorder removed July 29, 1936.
Stevens type L recorder.

Regulation

The flow is partially regulated by Big Tujunga Dam No. 1 and by Haines Debris Basin.
The amount of the total flow going to the west channel and the amount going to the east channel is controlled by a natural split about 5 miles above the station.

Diversions

Some water diverted for irrigation near mouth of Big Tujunga Canyon.

Records available

March 20, 1936 to July 29, 1936. For records prior to March 20, 1936, and following August 20, 1936 see record for Station F106R.

Extremes of discharge

See Station F106R

Accuracy

Fair

Operation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F106B-B**

Discharge measurements of **BIG TUJUNGA - EAST WASH**
at **Chandler Blvd.**, during the year ending September 30, 19**36**

No.	Date	Made by	Wash Feet	Area of Basin Sq. Ft.	Mean Velocity ft. per sec.	Stage ft. above datum	Discharge cfs.	Rating	Method	Mean No.	U. H. Discharge	Rating	Mean No.
1	3/31	Bollinger-Trambo	11.0	3.38	2.38	3.62	8.0	.6	6	0	610A 615A 1135F	FC 6	
2	4/3	"	7.8	1.10	1.16	3.46	1.3	.6	4	.02	1140F	"	
3	4/3	"	3.3	.62	1.13	3.44	.80	.6	3	.01	1141F 1140F	"	
4	4/3	"	3.7	.83	1.02	3.43	.85	.6	5	.01	1140F 1154F	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.
Sta. No. **F106B-B**
for the year ending September 30, 19**36**

BIG TUJUNGA - EAST WASH at Chandler Blvd.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1										0.00		
2										0.00		
3										0.00		
4										0.00		
5										0.00		
6										0.00		
7										0.00		
8										0.00		
9										0.00		
10										0.00		
11										0.00		
12										0.00		
13										0.00		
14										0.00		
15										0.00		
16										0.00		
17										0.00		
18										0.00		
19										0.00		
20										0.00		
21										0.00		
22										0.00		
23										0.00		
24										0.00		
25										0.00		
26										0.00		
27										0.00		
28										0.00		
29										0.00		
30										0.00		
31										0.00		Recorder removed July 27.

Remarks: + Indicates discharge 0.05 second-feet or less.

Station F106R
BIG TUJUNGA - EAST WASH at Magnolia Blvd.

Location
On the downstream side of Magnolia Boulevard bridge, North Hollywood.

Drainage area
Of the Big Tujunga above the split is 157 square miles; of the East Wash from the split to station F106R is 4.63 square miles.

Channel and control
Loose sand.
No artificial control.

Discharge measurements
At low flows by wading near gage.
At high flows from highway bridge.

Recorder
Installed August 1930 in a box type house over a corrugated iron pipe stilling well.
Recorder removed March 1936 due to bridge being rebuilt.
Recorder reinstalled August 20, 1936.
Stevens type L recorder.

Regulation
Flow partially regulated by Big Tujunga Dam No. 1 and by Haines Debris Basin.
The amount of the total flow going to the west wash and the amount going to the east wash is controlled by a natural split 5 miles above the station.

Diversions
Some water diverted for irrigation near mouth of Big Tujunga Canyon.

Records available
August 1930 to March 18, 1936 and from August 20, 1936 to September 30, 1936.
See Sta. F106B-R for the period from March 20, 1936 to July 29, 1936

Extremes of discharge

1930-31
Maximum 56 second-feet February 3
Minimum No flow most of year

1931-32
Maximum 1380 second-feet February 9
Minimum No flow most of year

1932-33
Maximum 429 second-feet January 19
Minimum No flow most of year

1933-34
Maximum 3110 second-feet January 1
Minimum No flow most of year

1934-35
Maximum 352 second-feet January 5
Minimum no flow most of year

1935-36
Maximum 400 second-feet February 12
Minimum no flow most of year

Accuracy
Fair

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 106 B**

Discharge measurements of **BIG TUJUNGA - EAST WASH**
at **Magnolia Blvd.** during the year ending September 30, 19 **55**

Table with columns: No., Date, Made by, Water Surface Elevation, Gauge Reading, Discharge, etc. Data rows include measurements from 10/17/54 to 4/8/55.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F106R**

Discharge measurements of **BIG TUJUNGA - EAST WASH**
at **Magnolia Blvd.** during the year ending September 30, 19 **56**

Table with columns: No., Date, Made by, Water Surface Elevation, Gauge Reading, Discharge, etc. Data rows include measurements from 2/2/56 to 2/23/56.

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F106R**

Daily discharge, in second-feet of **BIG TUJUNGA - EAST WASH** at **Magnolia Blvd.** for the year ending September 30, 19 **56**

Table showing daily discharge in second-feet from Oct to Sept. Includes a note: 'Resorder removed March 18. Resorder installed August 20.'

Summary table with columns: Month, Mean, Peak, etc. for the year.

Remarks: + Indicates discharge 0.05 second-foot or less.

YEAR 56
PERIOD ACRE-Feet

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 106 B**

Daily discharge, in second-feet of **BIG TUJUNGA - EAST WASH** at **Magnolia Blvd.** for the year ending September 30, 19 **55**

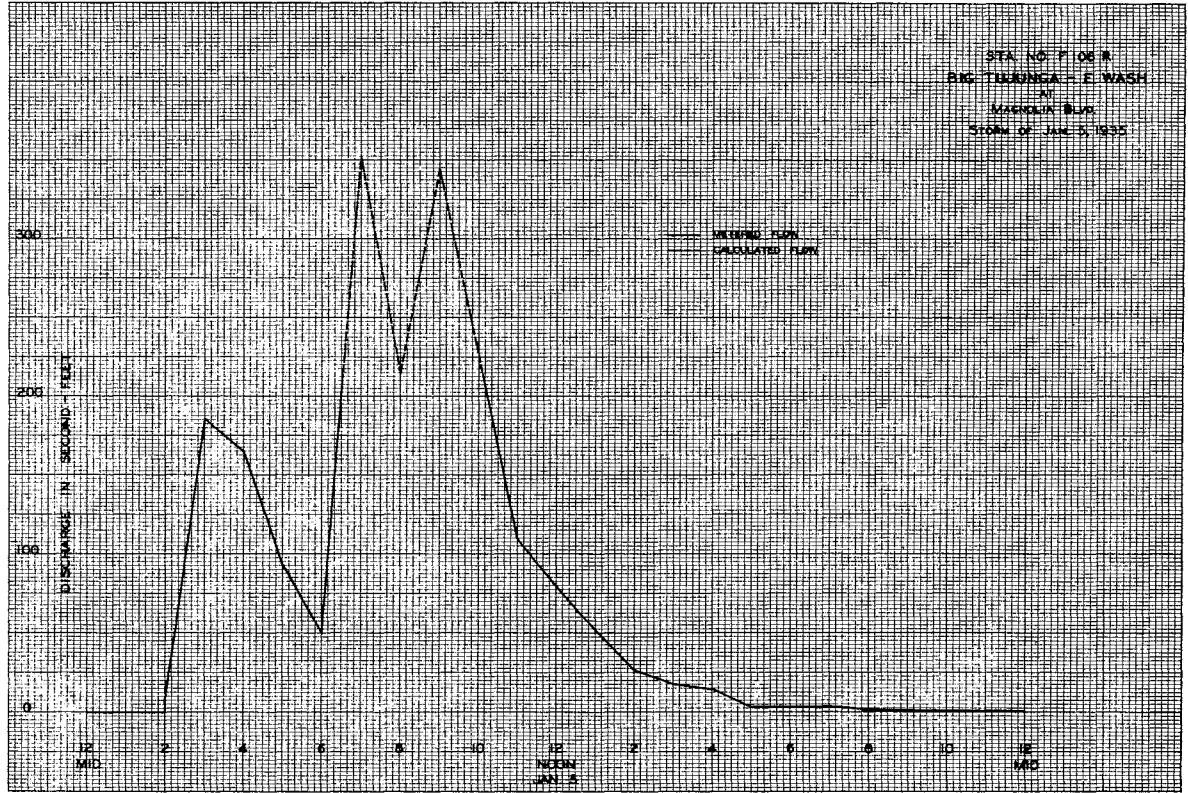
Table showing daily discharge in second-feet from Oct to Sept. Includes numerical values for each day.

Summary table with columns: Month, Mean, Peak, etc. for the year.

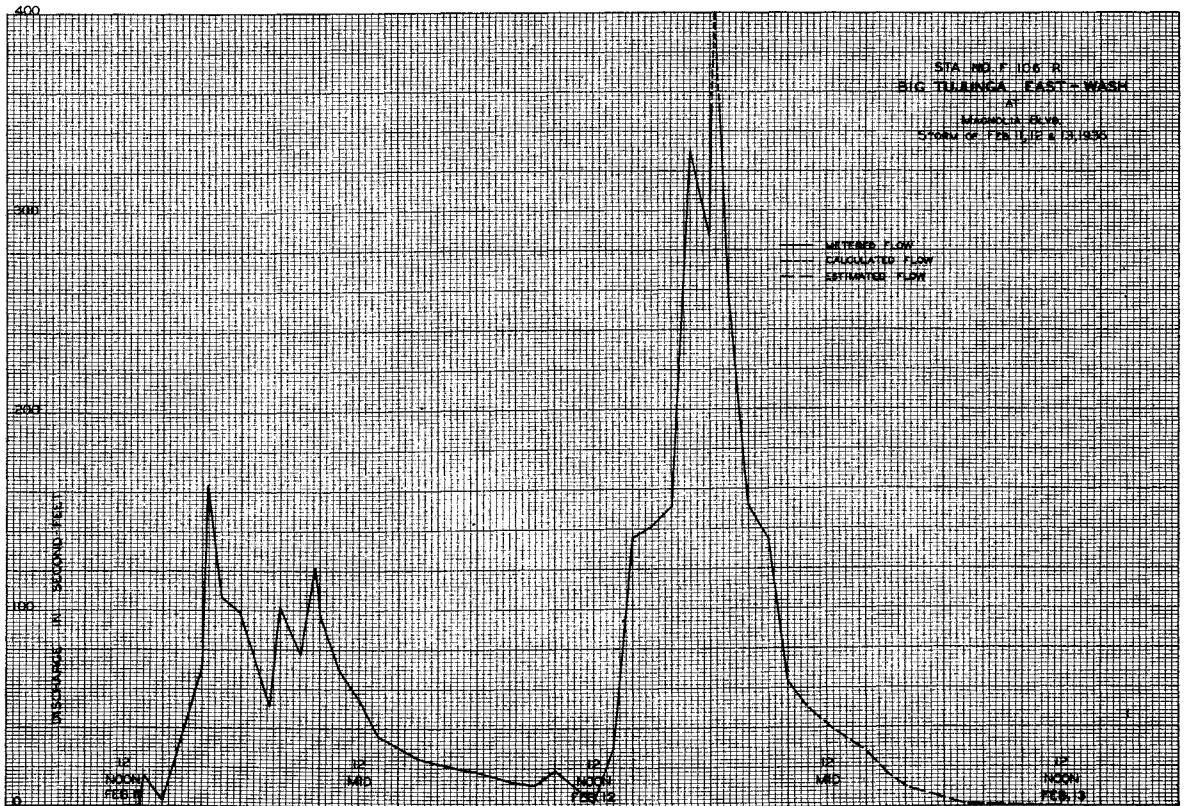
Remarks: + Indicates discharge 0.05 sec. ft. or less.

YEAR 55
PERIOD ACRE-Feet

REPORT OF THE U.S. GEOLOGICAL SURVEY
ON THE FLOODING OF THE
BIG TULE RIVER



REPORT OF THE U.S. GEOLOGICAL SURVEY
ON THE FLOODING OF THE
BIG TULE RIVER



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 110 R

Station F110R

BIG TUJUNGA - FOX CREEK 1/4 mi. above mouth

Discharge measurements of BIG TUJUNGA - FOX CREEK

1/4 mi. above mouth during the year ending September 30, 1935

Location

On Fox Creek, a tributary to Big Tujunga Creek, about 1/4 mile above junction with Big Tujunga Creek, about 500 feet above lower falls.

Drainage area

9.35 square miles.

Channel and control

Sand, gravel and boulders.
Ledge outcropping 8 feet below gage and dropping off sharply downstream.
Pool above control cuts and fills affecting stage-discharge relation slightly.

Discharge measurements

At low flow by wading near gage.
At high flow from cable car 50 feet below the station.

Recorder

Installed November 5, 1930 in F. G. Standard type house over a corrugated iron pipe stilling well.
An continuous recorder.

Regulation

None.

Diversions

None.

Records available

Weekly measurements, Oct. 1, 1930 to November 5, 1930.
Recorder record November 5, 1930 to September 30, 1935.

Extremes of discharge

1930-31
Maximum 7 second-feet on February 4
Minimum + at various times

1931-32
Maximum 400 second-feet on February 8
Minimum + on October 1

1932-33
Maximum 115 second-feet January 19
Minimum + at various times during year

1933-34
Maximum 215 second-feet on January 1
Minimum + at various times during year.

1934-35
Maximum 314 second-feet October 18
Minimum + several days during year

1935-36
Maximum 410 second-feet February 2
Minimum + several days during year

Accuracy

1934-35 good.
1935-36 excellent.
Clock stopped August 26-30, 1935.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Obs. Stage feet	Discharge Sec.-ft.	Rating	Rating Method	Mean Stage	C. M. Stage	Begin	End	Notes
1A	1934 10/1	J. L. Irwin				.58	Est. .01	Est.						130P 330P
1	10/22	Moon	1.50	.10	.40	.69	.04	Est.	2	0				335PFC 33 1121A 1128A
2	11/1	Cooper - Moon	1.1	.10	1.30	.72	.15	Float	4	0				
3	11/8	Moon - Cooper				.72	.12	Weir		0				948A
4	11/15	Cooper - Moon				.69+	.12	Weir		0				240P 235P
5	11/19	Moon - Cooper	1.50	.42	1.00	.73+	.42	Est.	3	0				240PFC 20
6	11/22	Moon				.71	.20	Weir		0				1100A
7	11/28	Moon				.73	.16	Weir						1118A
8	12/6	Moon				.73	.18	Weir						100P 335P
9	12/15	Moon - Cooper	15.2	4.46	2.67	1.24	12.	Est.	8	0				352PFC 20 1110A
10	12/20	Moon	3.5	.63	1.13	.85	.70	Est.	6	0				1118A 1246P
11	12/25	Cooper	1.9	.34	2.59	.88	.90	Est.	3	0				1251PFC 20 1005A
12	1/3	Moon - Cooper	3.5	.56	1.64	.86	.90	Est.	4	0				1011A 100P
13	1/10	" "	4.9	1.69	1.89	1.05	3.2	Est.	6	-07				110P 1230P
14	1/16	" "	4.4	1.90	2.73	1.08	5.2	Est.	5	0				1240P 1100A
15	1/24	Cooper - Moon	4.5	1.66	1.99	1.02	3.3	Est.	7	0				1112A 1015A
16	1/31	" "	6.0	1.52	1.66	.96	2.4	Est.	7	0				1025A 1245P
17	2/5	" "	4.2	1.80	2.24	1.02	4.0	Est.	7	-				1255P 215P
18	2/7	Moon	6.2	1.36	2.35	1.00	3.2	Est.	7	-				228PFC 33 1015A
19	2/14	Cooper - Moon	5.4	1.91	2.28	1.02	4.4	Est.	8	0				1025PFC 20 1000A
20	2/21	" "	4.9	1.51	1.71	.95	2.6	Est.	8	0				1105A 1120A
21	2/28	" "	5.0	1.31	1.47	.91	1.9	Est.	8	0				1115A 1125A
22	3/7	" - Moon	4.2	1.57	2.23	1.00+	3.5	Est.	7	0				1020A 1010A
23	3/14	" "	6.1	1.61	1.44	.97	2.2	Est.	7	0				326P 345PFC 20
24	3/28	Cooper	5.1	1.52	1.47	.96	2.2	Est.	7	0				140P 152P
25	4/4	" "	5.9	1.69	1.30	.95	2.2	Est.	7	0				220P 232P
26	4/11	" "	11.9	2.96	1.91	1.16	5.7	Est.	9	0				945A 952A
27	4/19	" "	7.0	2.02	2.06	1.07	4.2	Est.	8	0				115P 128P
28	4/26	" "	6.0	2.10	1.34	.99	2.8	Est.	7	0				858A 910A
29	5/3	" "	6.3	1.97	1.48	.99	2.9	Est.	7	0				1235P 1247P
30	5/9	" "	5.3	1.42	1.37	.95	2.0	Est.	8	0				1000A 1012A
31	5/16	" "	5.2	1.48	1.33	.93	2.0	Est.	7	0				1250P 1002A
32	5/23	" "	5.2	1.04	1.10	.88	1.1	Est.	6	0				1258P 1014A
33	5/31	" "	5.2	1.19	1.15	.88	1.4	Est.	6	0				1012A 223P
34	6/6	" "	4.9	.96	.79	.84	.75	Est.	6	0				240P 210P
35	6/12	" "	2.5	.55	1.04	.82	.55	Est.	4	-				220P 240P
36	6/20	" "	3.4	.62	.73	.77	.45	Est.	5	0				243P 955A
37	6/27	" "	3.4	.64	.75	.80	.48	Est.	5	0				1003A 125P
38	7/3	" "	2.6	.50	.92	.78	.46	Est.	4	0				135P 212P
39	7/11	" "	3.0	.75	.27	.71	.20	Est.	4	0				220P
40	8/30	Bollinger	1.0	.05	.50	.60	.05	Est.	2	0				305P
41	7/21	Irwin				.62	.01	Est.						207PFC 31

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. FLIOR

Discharge measurements of BIG TUJUNGA - FOX CREEK
at 1/4 mi. above mouth during the year ending September 30, 1936

No.	Date	Made by	Wash Feet	Area of Section Sq. Ft.	Mean Velocity Ft. per sec.	Stage Height Feet	Discharge Sec. Ft.	Rating	Method	Mean gage No.	C. M. gage No.	Regn. End	Meter No.
1	10-2	Turner	1.0	.07	.43	.66	.03	-.01	at 2	-	-	130p	
2	11-6	"	1.5	.19	.95	.70	.18	+.04	" 4	-	-	1000m	
3	11-17	"				.82	1.1		Est.			400p	
4	12-4	"	1.5	.20	.85	.74	.17	-.01	at 3	-	-	1105m	
5	1-3	"	1.8	.39	.72	.70	.28	+.07	" 4	-	-	1245p	
6	1-22	"	1.9	.40	.52	.72	.21	+.02	.6 4	-	-	1055m	F.G.5
7	1-30	"	2.0	.42	.52	.72	.22	+.03	.6 4	-	-	1055m	
8	2-2	"	6.8	2.64	1.26	1.02	3.3	+.03	.6 8	-	-	200p	
9	2-12	Turner-Odekirk	12.3	3.67	2.28	1.22	8.4	+.02	.6 8	0	0	1016m	
10	2-12	"	14.0	5.01	3.67	1.42	18.	+.03	.6 8	+16		1112m	
11	2-12	"	15.5	6.24	2.64	1.40	16.	+.01	.6 8	0	0	1127m	
12	2-12	"	15.5	6.85	3.53	1.54	24.	0	.6 8	+.05		1221p	
13	2-12	"	17.0	9.71	4.04	1.71	39.	+.01	.6 8	+.12		1231p	
14	2-12	"	17.0	11.06	4.31	1.85	48.	-.05	.6 8	+.02		1255p	
15	2-12	"	17.0	10.64	4.63	1.84	49.	-.03	.6 8	-.01		102p	
16	2-12	"	20.0	17.88	6.71	2.13	120.	-.01	.6 8	-.02		300p	
17	2-12	"	20.0	18.42	5.73	2.09	105.	-.01	.6 8	-.02		322p	
18	2-12	"	19.5	17.78	5.13	2.04	91.	-.01	.6 8	-.03		350p	
19	2-12	"	19.0	18.29	4.43	2.03	81.	-.03	.6 8	0		400p	
20	2-13	Odekirk	12.3	4.00	2.44	1.27	9.8	0	.6 10	+.02		1047a	
21	2-18	Turner	7.5	3.27	2.52	1.27	8.2	-.03	.6 7	-		1017a	F.G.18
22	2-19	Odekirk	7.7	2.73	2.74	1.22	7.5	0	.6 9	0		1035a	
23	2-24	"	7.2	3.34	2.67	1.27	8.9	-.02	.6 8	-.01		115p	F.G.5
24	2-27	"	7.6	2.76	2.22	1.21	6.1	-.03	.6 8	-.01		1125a 1140a	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. FLIOR

Daily discharges in second-feet of BIG TUJUNGA - FOX CREEK 1/4 mi. above mouth for the year ending September 30, 1936

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 110 R

Daily discharges in second-feet of BIG TUJUNGA - FOX CREEK 1/4 mi. above mouth for the year ending September 30, 1935

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

Mean 1.44
Acft. 88

Mean 1.72
Acft. 86

Mean 1.80
Acft. 88

Mean 1.76
Acft. 42

Mean 1.06
Acft. 77.5

Mean 1.53
Acft. 1180

Year 1935

Year 1936

Year 1937

Year 1938

Year 1939

Year 1940

Remainder + Indicates discharge 0.05 second-feet or less.

Remainder + Indicates discharge 0.05 second-feet or less.

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 20 R**

Station **F20R**

BIG TUJUNGA WASH at Stonehurst Ave.

Discharge measurements of **BIG TUJUNGA WASH**

at **Stonehurst Ave.**

during the year ending September 30, 19**35**

Location

At the Stonehurst Avenue (formerly Mulholland Street) bridge, about 3 miles southeast of San Fernando. During the 1934-35, 35-36 water years the recorder was in the house on a pier in the East Channel.

Drainage area

148 square miles.

Channel and control

Channel is wide and is composed of sand and gravel. A training channel has been dug down the center. About midnight, December 31, 1933, or shortly thereafter, the stream broke out of the training channel into the East Channel. No artificial control.

Discharge measurements

At low flows by wading. At high flows from cable car 50 feet upstream from bridge.

Recorder

Installed April 29, 1932 in box type house on top of corrugated iron pipe stilling well on the downstream end of a pier in the training channel. Recorder was removed Feb. 8, 1934. Recorder installed March 9, 1934 in a box type house on a corrugated iron stilling well on the downstream end of a pier in the East Channel. Vertical National Recorder.

Regulation

Flow partially regulated by Big Tujunga Dam No. 1 and by Haines Debris Basin.

Diversions

Several small diversions for irrigation.

Records available

A few stream measurements were taken from January 1931 to April 1932. Recorder records from April 29, 1932 to December 31, 1933 and from March 9, 1934 to September 30, 1936.

Extremes of discharge

1931-32
Maximum Not determined.
Minimum No flow first part of year.
1932-33
Maximum 2260 second feet January 19
Minimum No flow at various times during the year.
1933-34
Maximum 3750 second-feet estimated January 1
Minimum No flow at various times during the year.
1934-35
Maximum 615 second-feet April 8
Minimum no flow part of year.
1935-36
Maximum 628 second-feet February 12
Minimum no flow at various times

Accuracy

Fair.
December 15-17; 30-31, 1934;
Clock stopped: February 6 to March 1, 1935;
April 4-7, 17, 25, 1935; May 2, 8-28, 1935;
January 1-3, 5-6, 14-15, 1935.
Well or communication channel sanded:
October 21-23, 1934;
January 16-18, 1935;
November 12-14, 1935;
February 23, 24, 1935.

Operation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 20 R**

Discharge measurements of **BIG TUJUNGA WASH**

at **Stonehurst Ave.**

during the year ending September 30, 19**35**

No.	Date	Made by	Width Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Stage height feet	Discharge Cfs.	Rating Percent off	Method	Max. stage No.	C. Ft. above Total	Begin time	End time	Meter No.
8	11/29	Luoe	3.9	1.08	1.28	4.72	1.4	.6	6	0		1110A		
9	12/6	"	4.00	1.08	.78	4.66	.85	.6	5	0		1115A		
10	12/8	"	19.	7.45	1.86	5.05	14.	.6	9	.01		1045A		
11	12/12	"	5.5	1.62	1.06	4.77	1.7	.6	6	0		1250A		
12	12/13	" - Miller	2	chamels	5.39	113.		.6	24	-.02		920A		
13	12/13	"	2	chamels	5.34	97.		.6	22	0		1140A		
14	12/19	" Luoe	13.5	4.68	1.95	4.98	9.1	.6	9	0		150A		
15	12/26	"	13.5	4.69	1.54	4.95	7.2	.6	8	-		105A		
16	1/10	" - Miller	30.0	12.22	5.66	5.16	44.	.6	10	0		1025A		
17	1/15	"	28.5	25.54	5.78	5.26	97.	.6	11	0		1010A		
18	1/16	"	35.0	22.17	4.18	5.32	95.	.6	10	0		1020A		
19	1/24	"	19.	12.64	2.93	5.14	37.	.6	11	0		820A		
20	1/31	" - Livingstone	20.7	11.42	2.00	5.12	34.	.6	11	0		820A		
21	2/5	" - Miller	19.5	11.13	2.06	5.14	34.	.6	10	0		150A		
22	2/7	Livingstone	19.	10.22	2.08	5.10	31.	.6	11	0		1015A		
23	2/18	Luoe	20.0	9.82	2.77	5.11	27.	.6	10	0		1140A		
24	2/21	"	19.3	10.35	2.67	5.10	26.	.6	8	0		1150A		
25	3/1	Luoe - Weidenfeller	20.5	9.28	2.58	5.08	24.	.6	11	-		910A		
26	3/2	" - Miller	25.0	13.09	5.54	5.27	64.	.6	12	0		815A		
27	3/2	"	2	chamels	5.38	122.		.6	14	0		820A		
28	3/7	"	20.6	15.54	2.71	5.17	42.	.6	10	0		820A		
29	3/12	"	19.5	5.52	1.44	4.97	9.4	.6	10	-		1205A		
30	3/25	"	9.0	5.82	1.55	4.84	5.0	.6	7	0		1005A		
31	3/29	"	9.0	4.13	1.71	4.86	7.1	.6	7	-		740A		
32	4/5	"	10.3	5.81	1.71	4.87	6.5	.6	7	-		850A		
33	4/8	"	2	chamels	6.06	551.		.6	19	0		1045A		
34	4/8	"	2	chamels	6.04	550.		.6	19	-.05		1130A		
35	4/9	"	40.5	27.67	2.04	5.34	84.	.6	11	0		440A		
36	4/12	"	25.0	16.09	2.70	5.22	59.	.6	12	0		1250A		
37	4/16	" - Luoe	22.0	11.42	2.59	5.10	30.	.6	9	-		1100A		
38	5/3	"	19.5	8.51	1.99	5.04	17.	.6	10	0		145A		
39	5/9	"	19.0	7.05	1.70	5.00	12.	.6	8	0		815A		
40	5/17	" - Irwin	19.5	7.77	1.92	5.02	12.	.6	10	0		1005A		
41	5/21	"	4.2	1.40	1.24	4.62	1.7	.6	5	0		1155A		
42	7/5	"	8.2	5.27	1.68	4.86	5.5	.6	8	0		1250A		
43	7/11	"	12.2	4.90	1.61	4.90	7.9	.6	8	0		150A		
44	7/12	"	12.0	6.45	1.84	4.98	12.	.6	7	0		740A		
45	7/25	"	11.8	5.80	1.43	4.90	8.5	.6	10	0		840A		
46	8/2	"	12.0	6.86	1.61	4.95	11.	.6	8	0		1205A		
47	8/6	"	12.5	4.68	1.29	4.91	6.5	.6	7	0		120A		
48	8/15	"	13.0	6.17	1.81	4.94	11.	.6	7	0		1045A		
49	8/25	Luoe	15.0	7.20	1.49	4.94	11.	.6	7	-		855A		
50	9/6	"	12.7	7.65	1.40	4.92	11.	.6	7	-		1115A		
51	9/12	"	12.0	6.44	1.14	4.85	7.4	.6	7	-		850A		
52	9/20	"	12.5	7.17	1.27	4.90	9.1	.6	8	-		125A		
53	9/26	"	12.0	6.89	1.66	4.98	14.	.6	8	0		945A		
54	9/30	"	13.4	8.05	1.43	4.97	12.	.6	11	-		1240A		

No.	Date	Made by	Width Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Stage height feet	Discharge Cfs.	Rating Percent off	Method	Max. stage No.	C. Ft. above Total	Begin time	End time	Meter No.
1	10/12	Luoe	19.0	9.16	1.67	5.04	14.	.6	12	0		850A		
2	10/25	"	3.2	.94	1.63	4.64	1.5	.6	5	0		810A		
3	11/1	"	2.8	.89	.91	4.46	.85	.6	5	0		1120A		
4	11/16	"	2.7	.82	.94	4.20	.49	.6	5	0		800A		
5	11/16	" - Miller	18.5	9.72	2.92	5.15	22.	.6	7	.01		805A		
6	11/16	"	5.7	2.27	2.12	4.82	5.0	.6	5	0		820A		
7	11/19	"	12.2	6.67	1.67	4.92	9.2	.6	7	0		825A		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 20 R**

Discharge measurements of **BIG TUNJUNGA WASH**
at **Stonhurst Ave.** during the year ending September 30, 19**56**

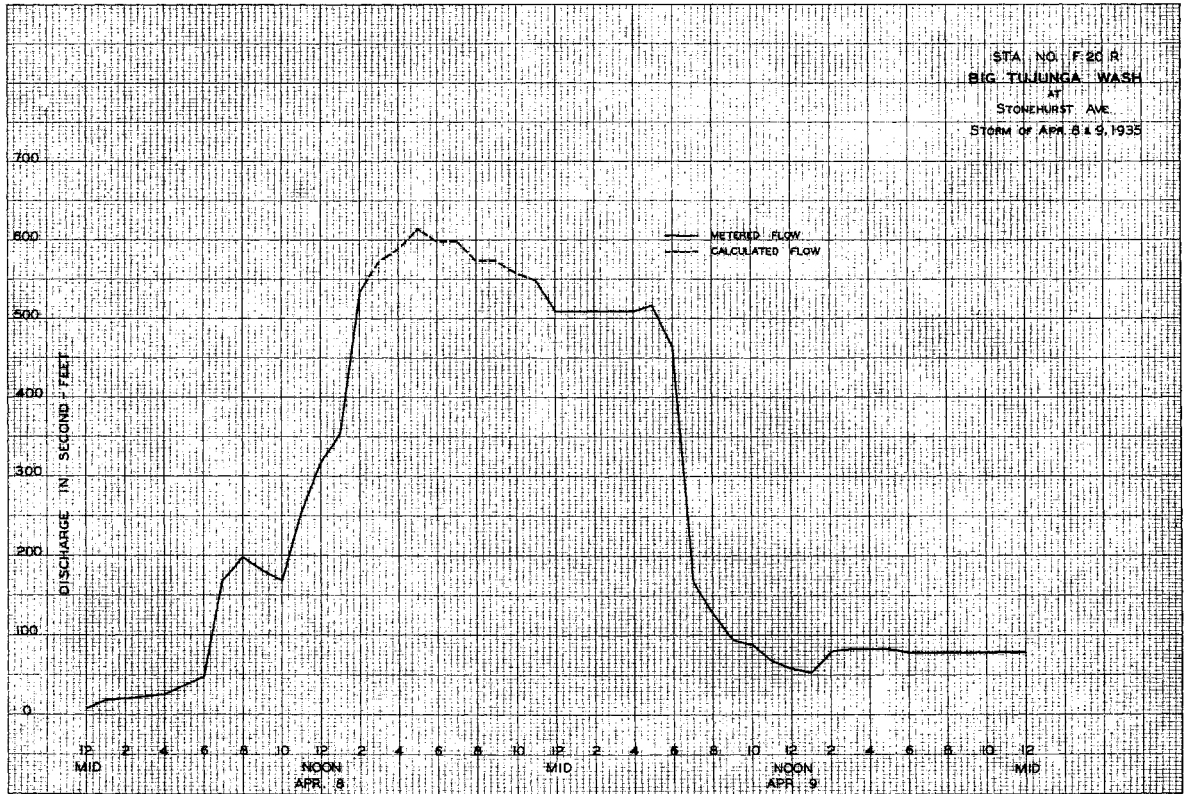
No.	Date	Made by	Wash Feet	Area of Bottom Sq. Ft.	Mean Velocity ft. per sec.	Stage (feet)	Discharge (cfs.)	Rating Point (ft.)	Method	Min. No.	Q. No. (change feet)	Stage (ft.)	Mean No.
1	10/3	Luce	12.6	8.99	1.53	4.98	14.		.6	8	0	335P	FG 13
2	10/10	"	12.5	9.18	1.46	4.98	13.		.6	7	0	1040A	"
3	10/18	Irwin	14.0	11.0	1.34	5.06	15.		.6	6	0	956A	FG 31
4	10/24	Luce	11.9	12.1	1.25	5.05	15.		.6	8	0	1011A	FG 13
5	10/31	"	11.0	11.0	1.05	4.95	12.		.6	8	0	345P	"
6	11/7	"	12.0	5.80	.72	4.74	4.2		.6	8	0	110P	"
8	11/14	Luce	6.4	1.65	.85	4.52	1.4		.6	5	0	350P	FG 13
9	11/17	Luce-Miller	6.3	1.95	1.08	4.57	2.1		.6	6	0	325P	"
10	11/21	Luce	6.0	1.55	.90	4.56	1.4		.6	7	0	1205P	"
11	11/27	"	5.8	1.53	.98	4.56	1.5		.6	7	0	110P	"
12	12/12	"	7.5	3.01	1.41	4.70	4.2		.6	8	0	1205P	"
13	12/19	Luce-Miller	4.5	.85	.68	4.40	.60		.6	6	0	1210P	"
14	12/26	Luce	4.7	.82	.65	4.38	.55		.6	5	0	1150A	"
15	12/29	"	5.6	1.67	1.06	4.53	1.8		.6	6	0	150P	"
16	1/2	"	5.0	1.69	1.02	4.53	1.7		.6	5	0	1240P	"
17	1/30	Luce-Miller	2.3	.19	.68	4.31	.13		.6	4	0	1010A	"
18	2/1	"	11.3	4.55	1.28	4.85	5.8		.6	7	-0.4	505P	"
19	2/1	"	17.5	8.79	2.98	5.06	26.		.6	10	0	725P	"
20	2/2	Luce	2 Channels			5.51	326.		.6	16	+4.6	805A	FG 25
21	2/2	"	2 Channels			5.75	237.		.6	7	-1.0	910A	FG 25
22	2/2	Luce-Busch	33.0	21.6	4.12	5.33	89.		.6	9	-0.2	145P	FG 13
23	2/3	Miller	15.0	5.87	1.98	4.98	12.		.6	9	0	140P	FG 35
24	2/6	Luce	7.0	2.81	1.99	4.82	5.6		.6	7	0	430P	FG 13
25	2/11	Luce-Busch	2 Channels			5.47	135.		.6	17	+0.5	215P	FG 13
26	2/11	"	2 Channels			5.45	150.		.6	21	+0.1	804P	"
27	2/12	"	41.1	18.9	3.34	5.30	63.		.6	10	0	1030A	"
28	2/12	"	2 Channels			6.08	577.		.6	17	-0.5	705P	FG 13
29	2/12	"	2 Channels			6.05	440.		.6	17	-1.0	745P	FG 25
30	2/13	Miller-Livingston	28.5	24.8	6.73	5.44	167.		.6	9	-0.4	815P	FG 25
31	2/13	Luce-Miller	35.7	17.7	4.10	5.30	73.		.6	12	0	410P	FG 13
32	2/14	Luce	50.0	44.3	4.93	5.63	218.		.6	11	-0.1	915P	"
33	2/15	Luce-Livingston	31.0	15.7	3.99	5.20	63.		.6	11	0	930P	"
34	2/16	Luce	46.2	35.6	4.81	5.48	171.		.6	12	0	245P	"
35	2/17	Luce-Busch	35.5	16.2	3.64	5.28	59.		.6	11	0	745A	"
36	2/17	Miller	46.0	22.2	3.39	5.32	75.		.6	14	0	800A	"
37	2/20	Luce	24.0	11.2	3.45	5.16	39.		.6	10	0	1050A	"
38	2/23	"	43.5	32.7	4.35	5.52	142.		.6	11	-0.5	1300P	FG 35
39	2/23	Luce-Miller	41.2	27.3	3.76	5.36	103.		.6	12	0	1145A	FG 13
40	2/24	Miller	19.8	8.80	3.21	5.15	28.		.6	10	0	415A	"
41	2/28	Luce	22.0	9.62	3.20	5.12	31.		.6	11	0	430A	"
42	3/6	"	20.0	5.10	1.88	5.00	9.6		.6	10	0	1050A	FG 13
43	3/12	"	20.0	5.77	2.04	5.02	12.		.6	9	0	840A	"
44	3/19	"	9.0	1.75	1.68	4.77	2.9		.6	8	-0.2	850A	"
45	3/27	"	6.0	1.01	3.19	4.76	3.2		.6	6	0	915A	"
46	3/31	Luce-Busch	22.0	10.5	3.67	5.15	39.		.6	9	0	925A	"
47	4/1	Livingston	12.5	3.30	2.18	5.04	7.2		.6	8	0	1015A	"
48	4/4	Luce	22.0	7.55	3.12	5.15	24.		.6	9	0	1025A	"
49	4/17	Luce	2.5	.24	1.08	4.89	.26		.6	4	-	1055A	"
50	4/27	"	1.3	.04	.25	5.09	.01		.6	3	0	110P	FG 13
									.6	3	0	145P	"
									.6	3	0	150P	"

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT. Sta. No. **F 20 R** for the year ending September 30, 19**56**

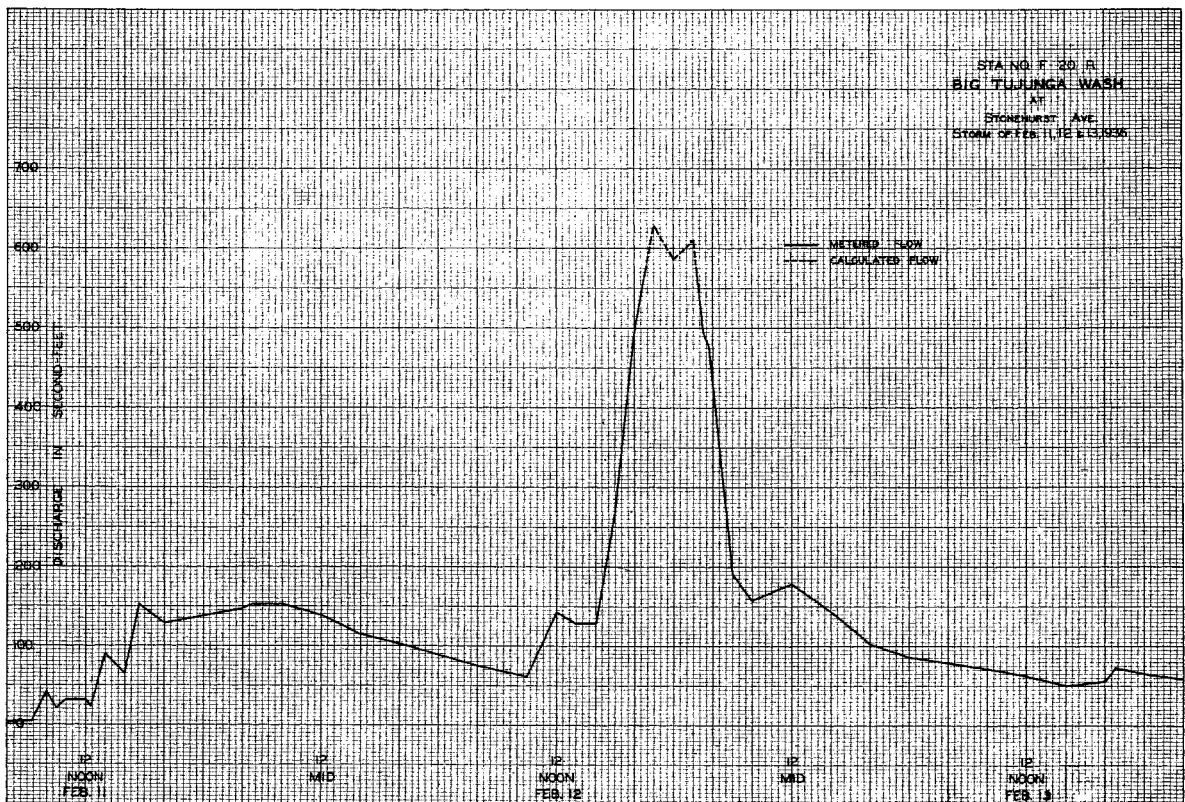
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	103	103	103	103	103	103	103	103	103	103	103	103
2	103	103	103	103	103	103	103	103	103	103	103	103
3	103	103	103	103	103	103	103	103	103	103	103	103
4	103	103	103	103	103	103	103	103	103	103	103	103
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7	103	103	103	103	103	103	103	103	103	103	103	103
8	103	103	103	103	103	103	103	103	103	103	103	103
9	103	103	103	103	103	103	103	103	103	103	103	103
10	103	103	103	103	103	103	103	103	103	103	103	103
11	103	103	103	103	103	103	103	103	103	103	103	103
12	103	103	103	103	103	103	103	103	103	103	103	103
13	103	103	103	103	103	103	103	103	103	103	103	103
14	103	103	103	103	103	103	103	103	103	103	103	103
15	103	103	103	103	103	103	103	103	103	103	103	103
16	103	103	103	103	103	103	103	103	103	103	103	103
17	103	103	103	103	103	103	103	103	103	103	103	103
18	103	103	103	103	103	103	103	103	103	103	103	103
19	103	103	103	103	103	103	103	103	103	103	103	103
20	103	103	103	103	103	103	103	103	103	103	103	103
21	103	103	103	103	103	103	103	103	103	103	103	103
22	103	103	103	103	103	103	103	103	103	103	103	103
23	103	103	103	103	103	103	103	103	103	103	103	103
24	103	103	103	103	103	103	103	103	103	103	103	103
25	103	103	103	103	103	103	103	103	103	103	103	103
26	103	103	103	103	103	103	103	103	103	103	103	103
27	103	103	103	103	103	103	103	103	103	103	103	103
28	103	103	103	103	103	103	103	103	103	103	103	103
29	103	103	103	103	103	103	103	103	103	103	103	103
30	103	103	103	103	103	103	103	103	103	103	103	103
31	103	103	103	103	103	103	103	103	103	103	103	103

Month	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Mean	13.5	3.01	1.45	0.27	44.0	7.80	1.69	+	0	0	0	0
Max	82.0	17.0	8.8	17	2530	47.0	101	+	0	0	0	0
Min	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Remarks	+ Indicates discharge 0.05 second-foot or less.											

ROPER & SHAW CO., N.Y. NO. 589211
17 1/2 BROADWAY



ROPER & SHAW CO., N.Y. NO. 589211
17 1/2 BROADWAY



LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F 105 R

Daily discharge, in second-feet of BIG TUJUNGA - WEST WASH at Magnolia Blvd. for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
ACRS- FEET	0	0	0	0	0	0	0	0	0	0	0	0

Remarks: + indicates discharge 0.05 sec. ft. or less.

Year 1935 MEAN 0
 ACRS-
FEET 0

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

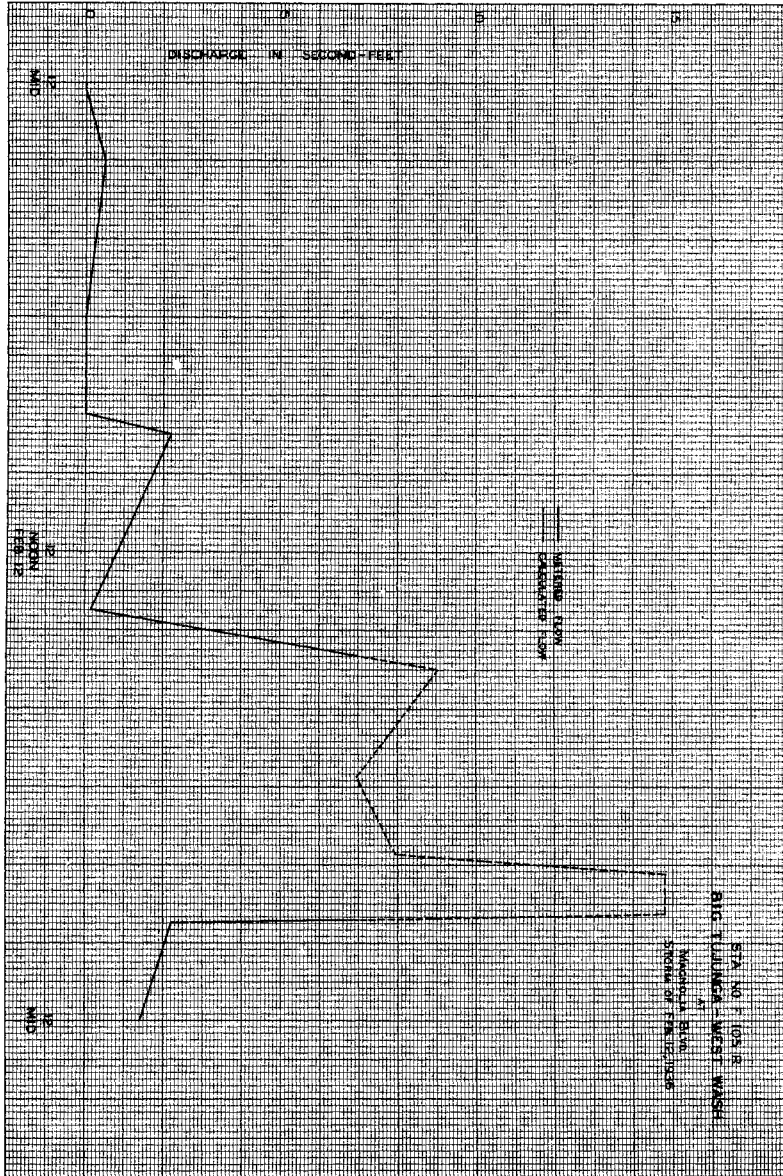
Sta. No. F105R

Daily discharge, in second-feet of BIG TUJUNGA - WEST WASH at Magnolia Blvd. for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0.4	0	0	0	0	0	0	0
12	0	0	0	0	3.5	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0.5	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0.5	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0.16	0	0	0	0	0	0	0
ACRS- FEET	0	0	0	0	8.9	0	0	0	0	0	0	0

Remarks: + Indicates discharge 0.05 second-foot or less.

Year 1936 MEAN .013
 ACRS-
FEET 8.9



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 186 R

Station F186R

CENTINELA CREEK 1.2 mi. S. of Jefferson Blvd. on Centinela Blvd.

Discharge measurements of CENTINELA CREEK

1.2 mi. S. of Jefferson Blvd. on Centinela Blvd. during the year ending September 30, 1935

Location

On bank of Centinela Creek, 25 feet south of Centinela Boulevard, between Centinela Boulevard and Pacific Electric Railway, 1.2 miles south of Jefferson Boulevard, and 3 miles southwest of Culver City

Drainage area

5.17 square miles

Channel and control

Channel composed of sand and silt No artificial control

Discharge measurements

At low flow by wading near station At high flow from Pacific Electric Railway bridge 30 feet below station.

Recorder

Installed September 15, 1932 in box type house over a corrugated iron pipe stilling well. Stevens type L recorder

Regulation

None

Diversions

None

Records available

September 15, 1932 to September 30, 1936

Extremes of discharge

1932-33 Maximum 297 second-feet January 19 Minimum No flow most of year

1933-34 Maximum 570 second-feet January 1 Minimum No flow most of year

1934-35 Maximum 1590 second-feet March 2 Minimum no flow most of year

1935-36 Maximum 1170 second-feet February 14 Minimum no flow most of year

Accuracy

Poor due to shifting control and difficulty in maintaining communication during periods of low flow and following high flows, also due to their being a sharp curve at the recorder house and another just below the bridge from which high flow measurements are made. Discharge measurements poor.

Operation

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

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent diff., Method, Meas. No., G. M. change Total, Begin End, Meter No.

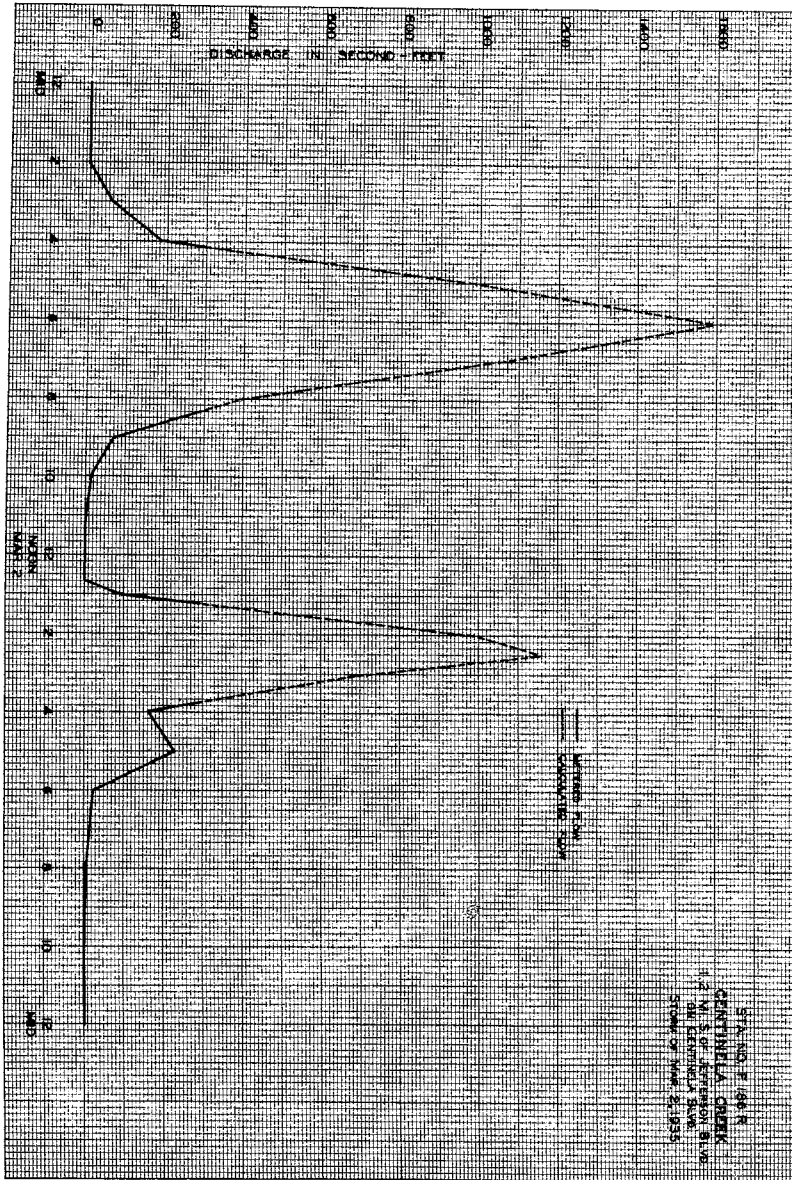
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F186R

Discharge measurements of CENTINELA CREEK 1.2 mi. S. of Jefferson Blvd. on

Centinela Blvd. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent diff., Method, Meas. No., G. M. change Total, Begin End, Meter No.



STATION NO. 1868 R
 LAKE ARROWHEAD
 2 MI. S. OF CENTINELA
 CREEK, CALIF.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 186 R**

Daily discharge, in second-feet of **CENTINELA CREEK 1.2 mi. S. of Jefferson Blvd. on Centinela Blvd.** for the year ending September 30, 19**36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	259	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	8	0	0	0	0	0	0	0
5	0	0	0	80	15	0	0	0	0	0	0	0
6	0	0	0	0	9.5	0	0	0	0	0	0	0
7	0	0	0	0	1.2	44	0	0	0	0	0	0
8	0	0	1.4	0	5.5	5.8	101	0	0	0	0	0
9	0	0	0	18	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0.2	0	0	0	0	0	0	0	0	0
13	0	0	75	0	0	0	0	0	0	0	0	0
14	0	0	5.4	0	0	0	0	0	0	0	0	0
15	0	0	0.1	0	0	0	0	0	0	0	0	0
16	0	5.2	0	0	0	0	0	0	0	0	0	0
17	19	34	0	0	0	0	0	0	0	0	0	0
18	1.5	9	0.6	0	0	0	0	0	0	0	0	0
19	0	26	0	0	0	0.5	0	0	0	0	0	0
20	0	0.2	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	1.2	0	0	0	0	0	0
24	0	0	0	0	0	2.0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	2.5	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0.2	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
Month	20.5	160.4	81.8	102.7	37.2	210.5	102.1	0	0	0	0	0

Mean	.66	5.26	2.62	2.51	1.25	10.0	3.40	0	0	0	0	0
Accr. Feet	41.	218.	161.	204.	74.	616.	208.	0	0	0	0	0

Remarks: + indicates discharge 0.05 sec. ft. or less.

YEAR **1936** MEAN **2.23**
ACCR. FEET **1620.**

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 186 R**

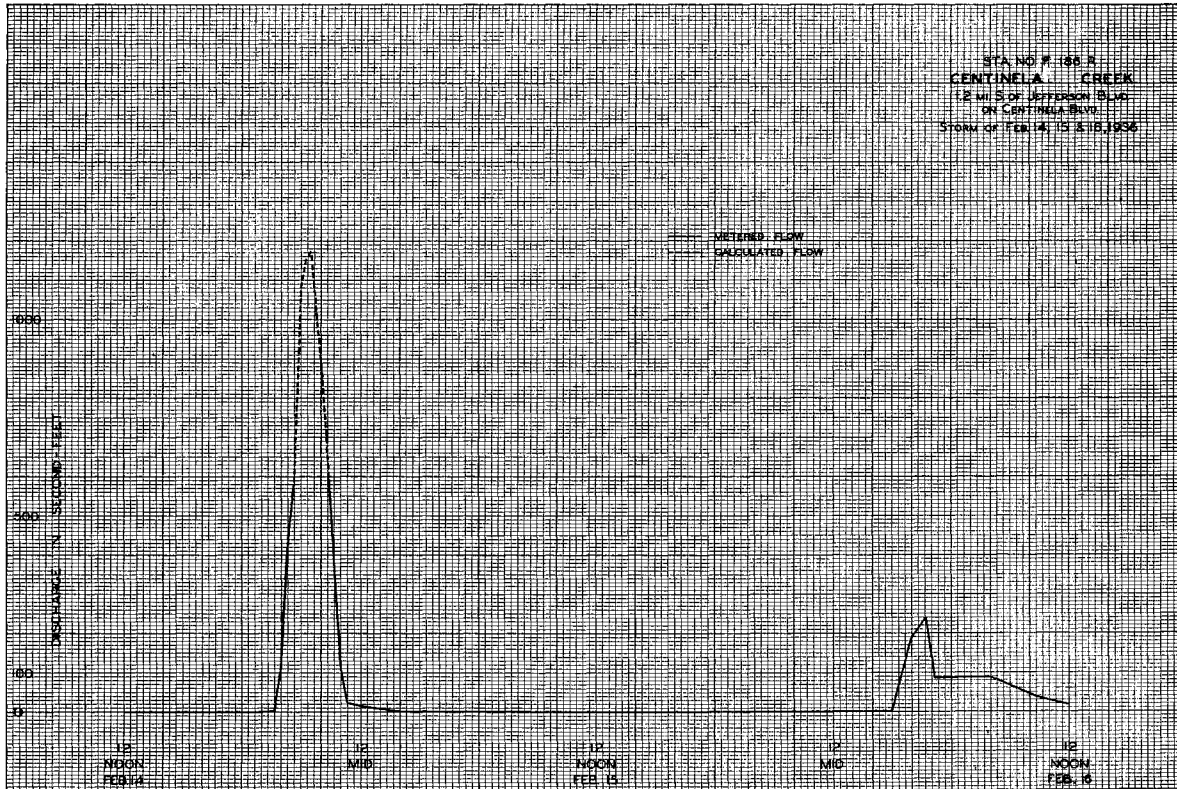
Daily discharge, in second-feet of **CENTINELA CREEK 1.2 mi. S. of Jefferson Blvd. on Centinela Blvd.** for the year ending September 30, 19**36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	1.1	0	#	0	0			
2	0	0	0	0	10	0	0	0	0			
3	0	0	0	0	0	0	0	0	0			
4	0	0	0	0	0	0	0	0	0			
5	0	0	0	0	0	0	0	0	0			
6	0	0	0	0	0	0	0	0	0			
7	0	0	0	0	0	0	0	0	0			
8	0	0	0	0	0	0	0	0	0			
9	0	0	0	0	0	0	0	0	0			
10	0	0	0	0	0	0	0	0	0			
11	0	0	0	0	10	0	0	0	0			
12	0	0	0	0	4.2	0	0	0	0			
13	0	0	0	0	2.9	0	0	0	0			
14	0	0	0	0	9.1	0	0	0	0			
15	0	0	0	0	#	0	0	0	0			
16	0	0	0	0	3.2	0	0	0	0			
17	0	14	0	0	#	0	0	0	0			
18	0	0	0	0	14	0	0	0	0			
19	0	0	0	0	#	0	0	0	0			
20	0	0	0	0	0	0	0	0	0			
21	0	0	0	0	0	0	0	0	0			
22	0	#	0	0	1.1	0	0	0	0			
23	0	#	0	0	4.7	0	0	0	0			
24	0	0	0	0	0	0	0	0	0			
25	0	0	0	0	0	0	0	0	0			
26	0	0	0	0	0	0	0	0	0			
27	0	0	0	0	0	0	0	0	0			
28	0	0	0	0	0	0	#	0	0			
29	0	0	0.4	#	0	0	0	0	0			
30	0	0	0	#	0	3.9	0	0	0			
31	0	0	0	0	0	3.2	0	0	0			
Month	0	14.0	0.4	0	234.9	7.1	0	0	0	0	0	0

Mean	0	0.47	0.01	0	8.10	0.23	0	0	0	0	0	0
Accr. Feet	0	29	0.79	0	466	14	0	0	0	0	0	0

Remarks: # Probable small flow; was used as 0 for purpose of computing the monthly and yearly totals.

YEAR **1936** MEAN **0.700**
ACCR. FEET **509**



Station F37R
COMPTON CREEK - at Rosecrans Ave.

Location

Attached to the east wing wall on the downstream side of the Cressy Street bridge 400 feet above Rosecrans Ave., and about 1 mile northwest of Compton.

Drainage area

21.7 square miles.

Channel and control

Channel composed of hard clay.
No artificial control.

Discharge measurements

At low flow by wading.
At high flow from pipe-line trestle 20 feet above Cressy Street bridge.

Recorder

Installed January 22, 1928 in box type house over a corrugated iron pipe stilling well.
An continuous recorder.

Regulations

None.

Diversions

None.

Records available

January 22, 1928 to September 30, 1936.

Extremes of discharge

1928-29 Maximum 924 second-feet March 10.
Minimum No flow at various times during the year.
1929-30 Maximum 580 second-feet March 14.
Minimum No flow at various times during the year.
1930-31 Maximum 678 second-feet April 26.
Minimum No flow at noon September 21.

1931-32

Maximum 757 second-feet January 31
Minimum No flow at various times during the year.

1932-33

Maximum 740 second-feet January 19
Minimum No flow at various times during the year.

1933-34

Maximum 960 second-feet January 1
Minimum No flow at various times during the year.

1934-35

Maximum 850 second-feet April 8
Minimum no flow at various times during the year.

1935-36

Maximum 824 second-feet February 12
Minimum no flow at various times.

Accuracy

Good except for estimated days.
Estimated: November 18, December 8, 1934; March 2, April 24-30, 1935; February 1, 2, 21, 22, 23, 1936; March 24, 1936; July 20-23, 1936; August 2, 1936.

Operation

Located and constructed by the Los Angeles County Flood Control District and operated by the Los Angeles County Flood Control District with cooperation of the U. S. Engineer Department.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 37 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 37 R

Discharge measurements of COMPTON CREEK

Discharge measurements of COMPTON CREEK

at Rosecrans Ave., during the year ending September 30, 19 36

at Rosecrans Ave., during the year ending September 30, 19 36

Table with columns: No., Date, Made by, W. Abn. Feet, Area of Basin, Mean Velocity, Gate Height, Discharge, Rating, Min. No., G. H. Change, Basin No., Meter No. Rows 25-81.

Table with columns: No., Date, Made by, W. Abn. Feet, Area of Basin, Mean Velocity, Gate Height, Discharge, Rating, Min. No., G. H. Change, Basin No., Meter No. Rows 82-138.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 37 R**

Discharge measurements of **COMPTON CREEK**

at **Rosecrans Ave.** during the year ending September 30, 19 **36**

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity Ft. per Sec.	Stage Height Feet	Discharge Cfs. ft.	Rising Stage	Method	Mean No.	G. H. Change Feet	Begin End	Meter No.
139	2/14	#112	51.5	222	3.47	7.93	769	.6	9	-38		1016P 1037P	
140	2/14	#113	46.5	175	2.86	7.09	500	.6	8	-62		1048P 1113P 1215A	
141	2/15	Bonadiman-McGarvin	40.0	83.2	2.61	5.36	217	.6	9	-17		1245A	FG 9
142	2/15	USED #114	36.3	43.3	2.08	4.16	90	.6	10	-12		240A 253A 215A	
143	2/15	#115	36.0	38.0	1.99	4.05	76	.6	9	-10		935A 942A	
144	2/16	USED #116	39.2	62.0	2.25	4.82	139	.6	9	-08		944A 953A	
145	2/16	#117	38.5	62.9	2.24	4.74	141	.6	9	-08		1107A	
146	2/16	#118	37.1	46.9	1.96	4.26	92	.6	10	-04		1114A 1116A	
147	2/16	#119	36.9	37.4	1.74	4.21	65	.6	9	-06		1123A 1216P	
148	2/16	#120	35.7	34.6	1.96	3.96	68	.6	8	-04		1229P 1231P	
149	2/16	#121	34.4	33.1	1.46	3.92	48	.6	9			1240P 1225P	
150	2/17	Bonadiman-McGarvin	4.0	.50	.40	2.06	.20	.6	2	0		1227P	
151	2/18	USED #122	38.7	64.2	2.33	4.64	150	.6	6	+78		647A 640A 635A 643A	
152	2/18	-	40.0	71.1	2.11	4.93	146	.6	7	+06		641A 640A 645A	
153	2/18	USED #123	40.0	71.1	2.05	4.92	146	.6	6	+02		653A 651A 659A	
154	2/18	-	40.0	76.8	2.42	4.94	185	.6	7	-04		701A 707A 856A	
155	2/18	USED #124	40.0	73.9	2.33	4.91	172	.6	6	-01		911A 911A	
156	2/18	#125	39.8	72.6	2.31	4.89	168	.6	6	-03		923A 945A	
157	2/18	#126	37.2	45.4	2.13	4.22	96	.6	9	-04		954A 1026A	
158	2/18	#127	37.0	42.1	2.08	4.18	88	.6	9	-03		1039A 1040A	
159	2/18	Bonadiman USED #128	37.0	40.0	2.09	4.17	84	.6	8	+06		110P 120P	
160	2/18	USED #129	37.2	44.2	2.12	4.31	94	.6	7	-02		120P 120P	
161	2/18	#130	37.1	46.9	1.99	4.28	93	.6	7	-04		120P 120P	
162	2/18	#131	31.8	23.1	1.71	3.68	40	.6	7	-04		120P 120P	
163	2/18	#132	31.3	21.6	1.56	3.65	34	.6	7	-02		120P 120P	
164	2/20	Bonadiman	7.0	2.67	.72	2.35	1.9	6	4	-02		1020A	FG 9
165	2/23	Bonadiman-McGarvin	34.0	31.1	1.72	3.76	54	.6	7	-03		622A 632A 1130A 1137A	
166	2/24	Bonadiman	4.0	.65	.37	1.97	.24	.6	2	0		1027A 1030A	
167	2/26	-	6.9	1.80	.64	2.26	1.16	.6	3	0		1047A 1052A	FG 9
168	3/4	Bonadiman	5.0	2.00	1.02	2.35	2.0	.6	4	-01		1200P 1205P	
169	3/11	-	4.0	1.62	1.18	2.35	1.9	.6	3	0		1142A 1145A	
170	3/18	-	5.0	1.74	.81	2.30	1.4	.6	4	0		415P 425P	
171	3/24	USED #133	37.0	43.9	1.82	4.23	80	.6	10	-02		420P 436P	FG 9
172	3/24	Bonadiman	37.0	42.9	2.11	4.21	91	.6	10	-06		431P 440P	
173	3/24	USED #134	36.5	38.5	1.63	4.17	63	.6	9	-06		1145A	
174	3/25	Bonadiman	5.5	1.87	.66	2.28	1.2	.6	4	0		1151A	FG 9
175	3/30	USED #135	41.1	95.0	2.41	5.40	228	.6	9	+26		918P 948P 953P	
176	3/30	#136	41.0	96.9	2.05	5.46	199	.6	8	-13		1013P 1045P	
177	3/30	Bonadiman-Kooh	43.0	127	3.32	6.11	421	.6	10	+83		1056P 1045P	FG 9
178	3/30	USED #137	43.5	128	3.25	6.12	415	.6	9	+83		1110P 1120P	
179	3/30	#138	48.1	199	2.90	7.52	578	.6	8	+15		1148P 123A	
180	3/31	#139	41.3	98	2.47	5.62	242	.6	9	-22		144A 152A	
181	3/31	#140	40.6	89	2.38	5.32	213	.6	9	-20		208A 426A	
182	3/31	#141	36.9	39	31.65	4.06	65	.6	8	-07		441A 443A	
183	3/31	#142	37.1	38	01.59	3.99	60	.6	8	-06		454A 1120A	
184	4/1	Bonadiman	6.5	3.10	.61	2.32	1.9	.6	5	0		1025A 1025A	FG 9
185	4/2	-	5.5	1.71	.29	2.36	.50	.6	2	0		1027A 1056A	
186	4/15	-	7.0	2.27	.65	2.32	1.5	.6	3	0		1058A 1060A	
187	4/23	-	7.5	2.92	.74	2.34	2.2	.6	4	0		1023A 851A	
188	4/29	-	9.0	5.38	.79	2.65	4.3	.6	5	+02		858A 235P	
189	5/6	-	6.0	1.70	.56	2.20	.95	.6	3	+01		232P 1142A	
190	5/13	-	6.5	2.24	.55	2.31	1.2	.6	3	0		1144A 953A	
191	5/21	-	6.5	2.87	.72	2.38	2.1	.6	5	0		958A	

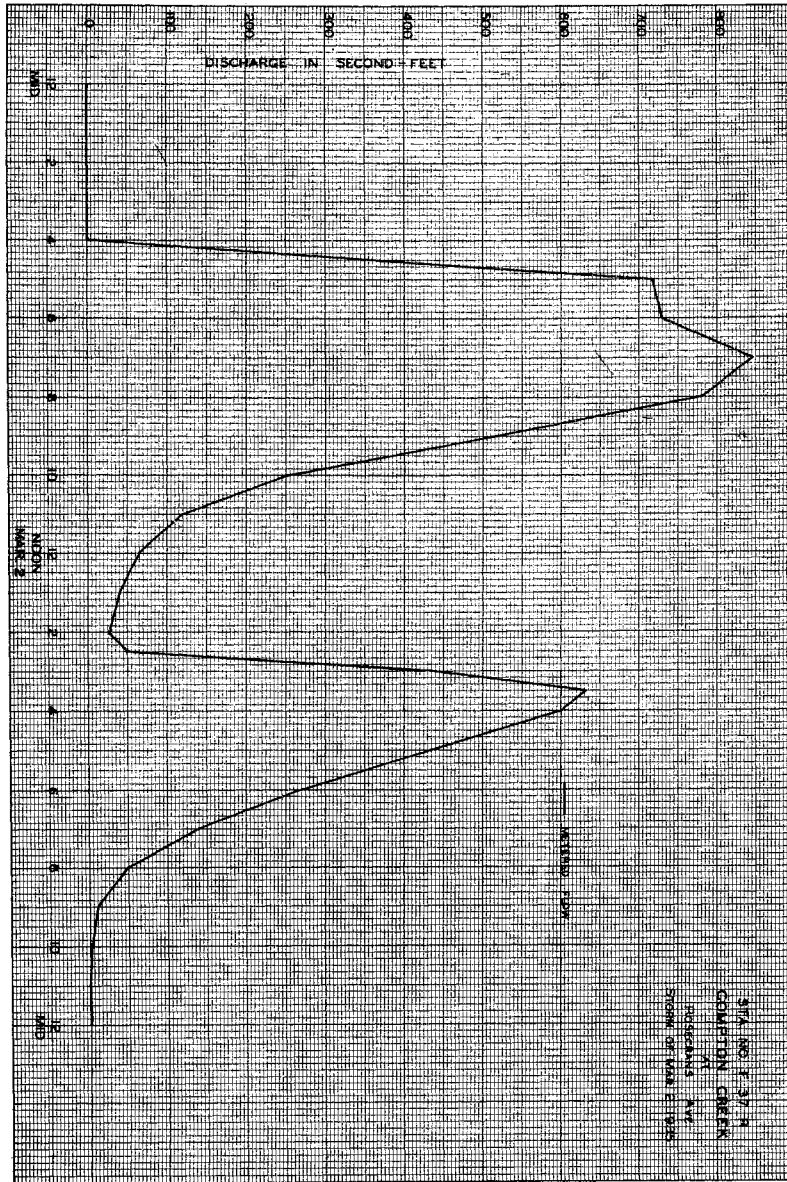
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 37 R**

Discharge measurements of **COMPTON CREEK**

at **Rosecrans Ave.** during the year ending September 30, 19 **36**

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity Ft. per Sec.	Stage Height Feet	Discharge Cfs. ft.	Rising Stage	Method	Mean No.	G. H. Change Feet	Begin End	Meter No.
192	5/27	Bonadiman	7.5	3.24	.55	2.39	1.8	.6	5	0		1027A 1033A	FG 9
193	6/3	-	8.0	3.18	.62	2.38	2.0	.6	4	0		1031A 945A 947A 942A	
194	6/11	-	7.5	2.97	.63	2.40	1.9	.6	4	0		946A	
195	6/18	-	7.0	2.19	.57	2.27	1.2	.6	4	0		1032A 1025A	
196	6/24	-	8.5	4.90	.67	2.64	3.3	.6	5	0		1030A 918A	
197	7/1	-	8.5	3.98	.74	2.58	3.0	.6	5	0		922A 943A	
198	7/9	-	7.0	3.07	.77	2.44	2.4	.6	6	-02		950A 1115A	
199	7/16	-	10.5	8.10	.75	2.76	4.6	.6	6	-02		1120A 1060A	
200	7/23	-	5.3	2.73	.67	2.73	3.2	.6	4	-02		1016A 1016A	
201	7/29	- Prickett	5.5	2.35	1.25	2.42	5.4	.6	4	0		1216P 950A	
202	8/6	-	6.5	2.16	.90	2.76	4.7	.6	4	-01		955A 1225P	
203	8/12	-	7.0	3.34	.81	2.77	4.3	.6	4	-01		1235P	FG 22
204	8/19	-	4.5	2.40	2.14	2.71	9.4	.6	6	0		255P 205P	
205	8/27	Prickett	7.0	5.50	1.33	2.78	7.3	.6	5	0		1006A 956A	FG 9
206	9/3	Bonadiman	7.0	5.04	.98	2.84	5.0	.6	4	0		1002A 900A 905A	
207	9/10	-	7.0	4.46	.82	2.92	3.7	.6	5	0		905A 911A	
208	9/17	-	7.0	5.06	.95	2.88	4.8	.6	4	0		928A	
209	9/24	-	7.0	5.67	.90	2.91	5.1	.6	5	0			



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Daily discharge, in second-feet of **COMPTON CREEK at Rosecrans Ave.** for the year ending September 30, 19 **36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1.9	.2	0	.2	.2	.1	1.0	.1	0	+	.4
2	.1	.1	.2	+	.2	862	.2	.9	+	0	+	.2
3	.2	.2	.1	.2	.2	1.2	.5	.6	0	0	.1	0
4	.2	2.7	.2	19	48	.2	2.5	.3	0	0	0	1.5
5	.2	1.0	.2	150	52	.2	.2	.2	5	0	0	1.6
6	.2	.2	.2	.5	54	.2	.2	.1	.4	0	0	.7
7	.1	.4	.2	.2	85	.2	15	.2	.4	0	0	.2
8	.1	.2	50	.4	17	.2	201	.7	.5	0	0	.1
9	.1	.1	.2	66	.2	.9	2.4	.6	.2	0	0	.2
10	.1	.1	.1	5.5	.2	.2	1.0	.5	.2	0	0	.2
11	.1	+	.2	.4	.1	.1	.8	.2	.1	0	.5	.2
12	.2	0	25	.2	.2	.5	.7	.2	.5	.1	0	0
13	.1	.1	151	.2	.5	.5	.1	.5	0	.5	.4	.2
14	+	.2	27	.1	1.0	.5	.2	.1	.5	0	.4	.2
15	0	20	.4	55	.4	.5	.2	.6	.1	0	1.0	.1
16	.1	205	.2	.2	.2	.2	.6	.4	.1	.2	.2	.2
17	118.	48	.1	.2	.1	.6	.4	.1	.2	.4	.2	.4
18	41	27	.2	.4	.1	.5	.4	.1	.4	.2	.2	.4
19	0.5	65	.2	1.4	.1	.5	.6	.2	.2	.5	.1	.5
20	.1	.2	.2	.2	.2	.5	.4	.1	.1	.1	1.2	.2
21	0	2.5	.2	.1	.2	1.0	.2	.2	0	0	1.8	.2
22	0	2.7	.2	.1	.2	.5	.1	.2	0	0	1.4	.2
23	.2	2.2	.1	.5	.2	1.4	.4	.3	0	0	5.7	.2
24	.5	.1	.1	.4	.1	37	.4	.2	0	0	1.8	.2
25	.2	0	0	.5	.1	.2	.4	.2	0	0	8	0
26	.2	0	0	.2	.2	.4	.4	.2	0	0	5.5	.2
27	.1	.2	.1	.2	.4	.4	.4	.1	0	0	.9	.2
28	0	.5	20	.1	.2	.4	.4	.4	0	0	.7	.1
29	0	.2	.2	.4	.1	.4	14.	.4	0	.1	.7	.1
30	.1	.1	.1	.5	.5	.5	21.	.5	0	.1	1.2	.1
31	.2	.1	.1	.2	.2	.2	.2	.2	.2	.1	1.2	.1

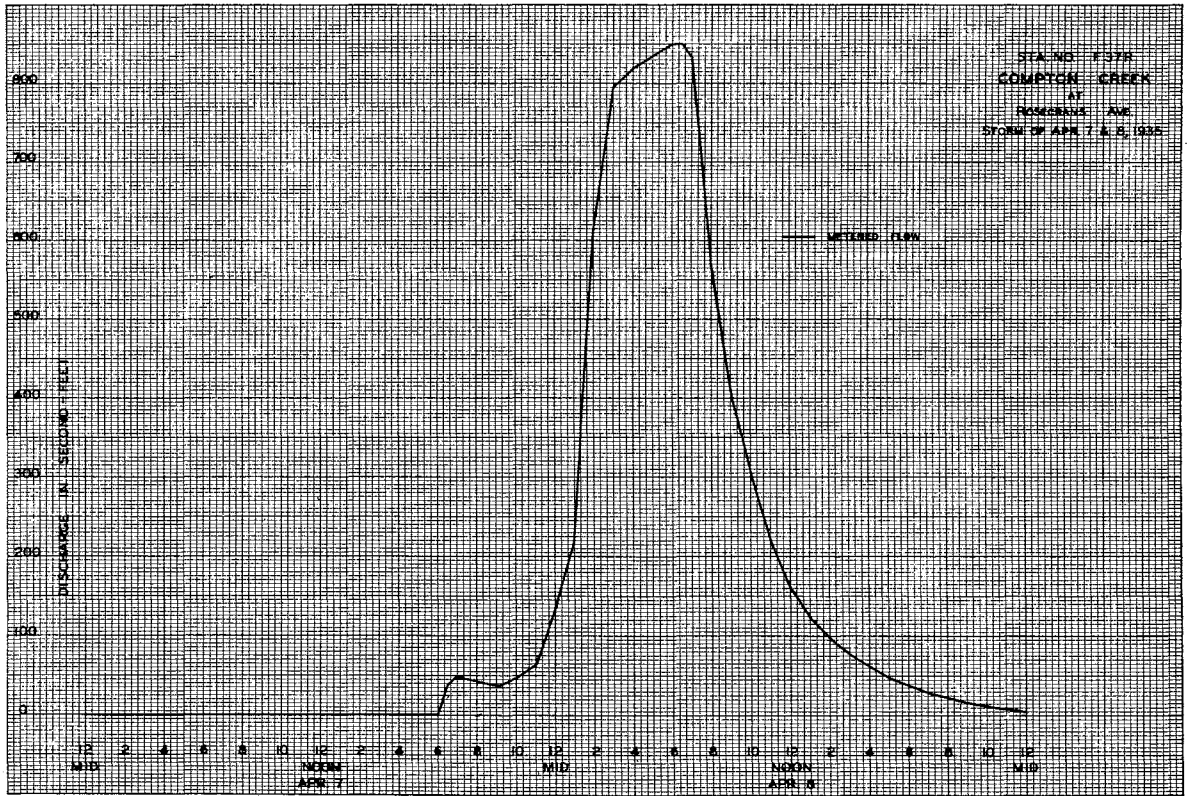
MEAN	6.06	12.6	8.88	9.06	6.21	12.7	12.1	.55	.18	.04	1.42	.29
ACRES FEET	331.	750.	546.	557.	245.	782.	722.	20.	7.7	2.6	87.	17.
REMARKS	+ indicates discharge 0.05 sec. ft. or less.											
YEAR	1936											
MEAN	5.75											
ACRES FEET	4170.											

Daily discharge, in second-feet of **COMPTON CREEK at Rosecrans Ave.** for the year ending September 30, 19 **36**

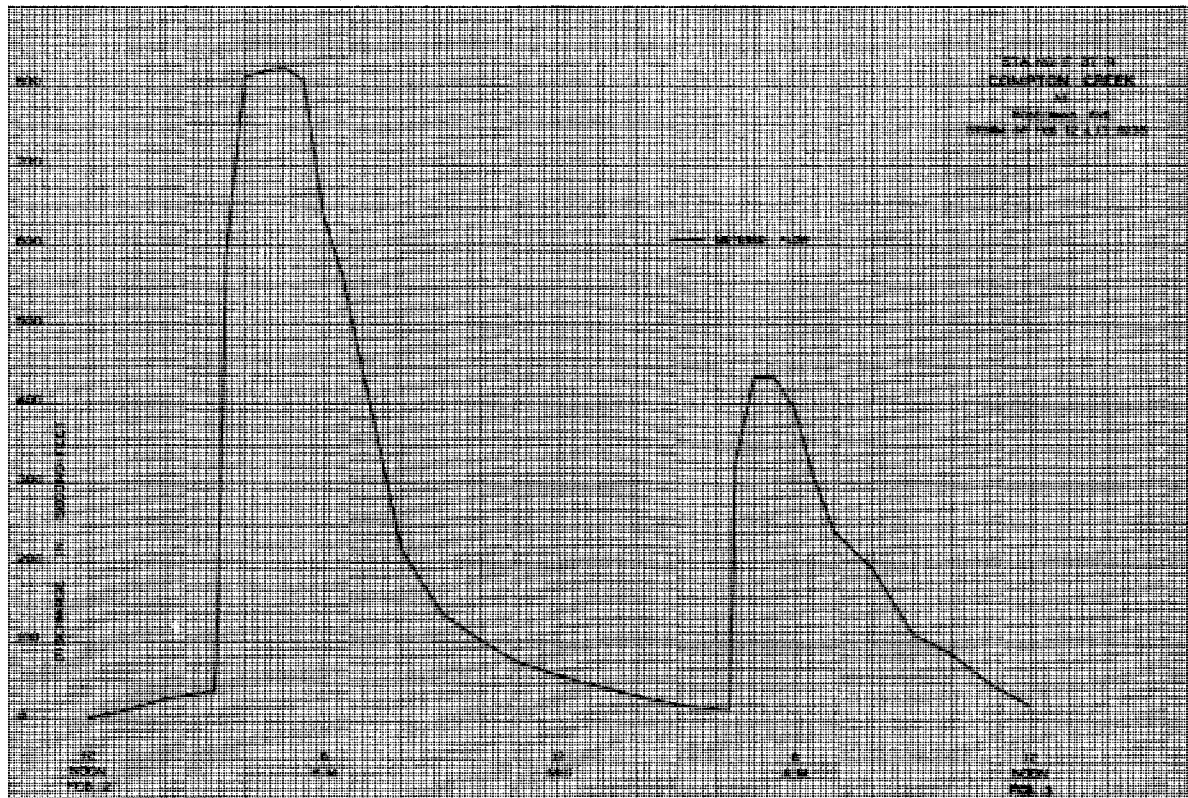
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.8	0.1	+	4.4	0.4	1.5	1.0	0.6	1.8	2.4	3.7
2	0.7	2.1	0.1	0	6.5	1.2	1.2	1.0	1.8	1.7	2.2	4.2
3	0.3	+	0.5	0.5	0.2	1.3	1.2	0.1	1.8	2.1	4.0	3.7
4	0.4	+	1.4	0.8	0.9	1.2	1.2	0.1	1.5	0.8	3.9	3.2
5	0.1	1.0	0.9	+	1.0	1.2	0.1	1.2	1.8	0.2	4.2	+
6	0	1.0	0.4	1.2	1.1	1.0	0.6	0.9	0.8	1.6	6	+
7	0	0.9	+	1.1	0.7	1.0	0.5	0.9	0.7	1.7	2.4	0.3
8	1.0	0.6	0	1.7	+	0.8	0.4	1.2	1.6	2.5	0.2	3.2
9	1.0	0.1	0.4	2.1	0.2	1.7	0.3	1.8	1.8	2.7	0.8	3.2
10	1.0	+	0.8	1.4	92	1.7	0.5	0.2	2.0	1.9	3.7	3.2
11	0.5	0.8	0.2	1.4	143	1.4	0.4	1.4	1.8	0.1	3.9	3.2
12	0.1	1.5	0.5	0.1	70	1.2	0.1	1.4	1.5	0.6	4.7	0.1
13	+	1.0	0.6	1.0	75	1.2	1.0	1.5	0.3	3.3	5	0.6
14	1.7	1.0	0.1	1.4	32	0.6	2.0	1.4	0.2	3.0	4.2	4.7
15	0.7	0.5	+	1.0	92	1.9	+	1.9	1.2	0.9	4.2	5
16	0.5	4.8	0.7	0.9	0.7	1.3	1.3	0.4	0.7	4.7	2.2	5
17	0.9	4.3	0.7	0.9	31	1.2	1.4	0.4	1.5	3.6	8.5	4.4
18	0.5	1.5	0.8	0.1	1.4	1.2	0.7	1.5	1.4	0.2	10	3.3
19	0.1	1.6	0.9	0	1.6	0.8	0.6	1.7	1.8	+	9	5
20	+	1.6	0.6	0.9	+	0.9	1.8	1.5	0.7	+	8	0.6
21	0.2	2.5	+	1.0	+	0.3	1.9	1.5	0.4	+	3	5
22	0.2	2.3	+	1.0	+	0.1	1.5	1.5	2.4	3.2	0.9	5
23	0.2	0.2	0	1.0	0.8	16	1.4	0.5	2.7	2.1	1.4	5
24	0.5	+	0.1	1.0	1.2	1.4	1.4	0.4	3.4	2.5	7	5
25	0.1	1.0	+	0.1	1.0	1.0	0.5	1.8	3.4	0.6	7.5	2.8
26	+	1.2	0.8	0	1.0	1.0	0.2	1.8	2.7	1.8	7.5	0.1
27	0	0.5	0.7	0.9	0.9	1.0	1.4	1.8	2.7	4.7	7.5	0.4
28	0	0.1	21	18	1.1	6	1.6	0.2	5	4.3	4.3	4.7
29	0.8	0.1	0.1	1.9	+	4.4	1.2	1.1	2.8	3.9	0.2	4.7
30	0.8	+	+	1.0	+	5.0	+	0.1	1.0	3.8	1.0	+
31	13.5	96.1	33.5	41.6	740.9	136.9	41.2	32.3	45.1	68.8	12.8	91.3

MEAN	0.44	3.20	1.08	1.34	25.6	4.42	1.37	1.04	1.50	2.22	4.19	3.04
ACRES FEET	27	191	66	83	1470	272	82	64	89	136	257	181
REMARKS	# For the purpose of determining the monthly and yearly totals the discharges for Feb. 21, 22, 23, July 20, 21, 22 were used as 1.6, 1.6, 7.4, 1.1, 1.5, 2.5 second-feet respectively.											
YEAR	1936											
MEAN	4.02											
ACRES FEET	2920											
REMARKS	+ indicates discharge 0.05 second-feet or less.											

REPORT OF THE U.S. GEOLOGICAL SURVEY
WASHINGTON, D.C. 20540



REPORT OF THE U.S. GEOLOGICAL SURVEY
WASHINGTON, D.C. 20540



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 41 R**

Station **F41R**
COYOTE CREEK below P. E. Bridge

Discharge measurements of COYOTE CREEK
xx below P. E. Bridge near Artesia during the year ending September 30, 19 35

Location

On east bank of creek, 100 feet south of Pacific Electric Railroad trestle, 2.5 miles southeast of Artesia.

Drainage area

110 square miles

Channel and control

Channel is clay, covered by tules during summer months only. No artificial control.

Discharge measurements

At low flows by wading
At high flows from P.E.R.R. trestle

Recorder

Installed January 14, 1930 in a box-type house over corrugated iron pipe stilling well.
Horizontal rational recorder to January 23, 1936.
An continuous recorder beginning January 23, 1936.

Regulation

None

Diversions

None

Records available

Stream measurements taken from December 1, 1928 to January 14, 1930. Recorder records from January 14, 1930 to September 30, 1936.

Extremes of discharge

1929-30

Maximum 91 second-feet January 15
Minimum No flow at various times during the year

1930-31

Maximum 218 second-feet February 5
Minimum No flow at various times during the year

1931-32

Maximum 799 second-feet February 9
Minimum No flow at various times during the year

1932-33

Maximum 283 second-feet January 30
Minimum No flow part of year

1933-34

Maximum 2020 second-feet January 1
Minimum No flow at various times during the year

1934-35

Maximum 3190 second-feet December 13
Minimum no flow at various times during the year

1935-36

Maximum 486 second-feet February 12
Minimum no flow several months

Accuracy

1934-35 Poor
1935-36 Fair
Estimated: January 16, 1935

Operation

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

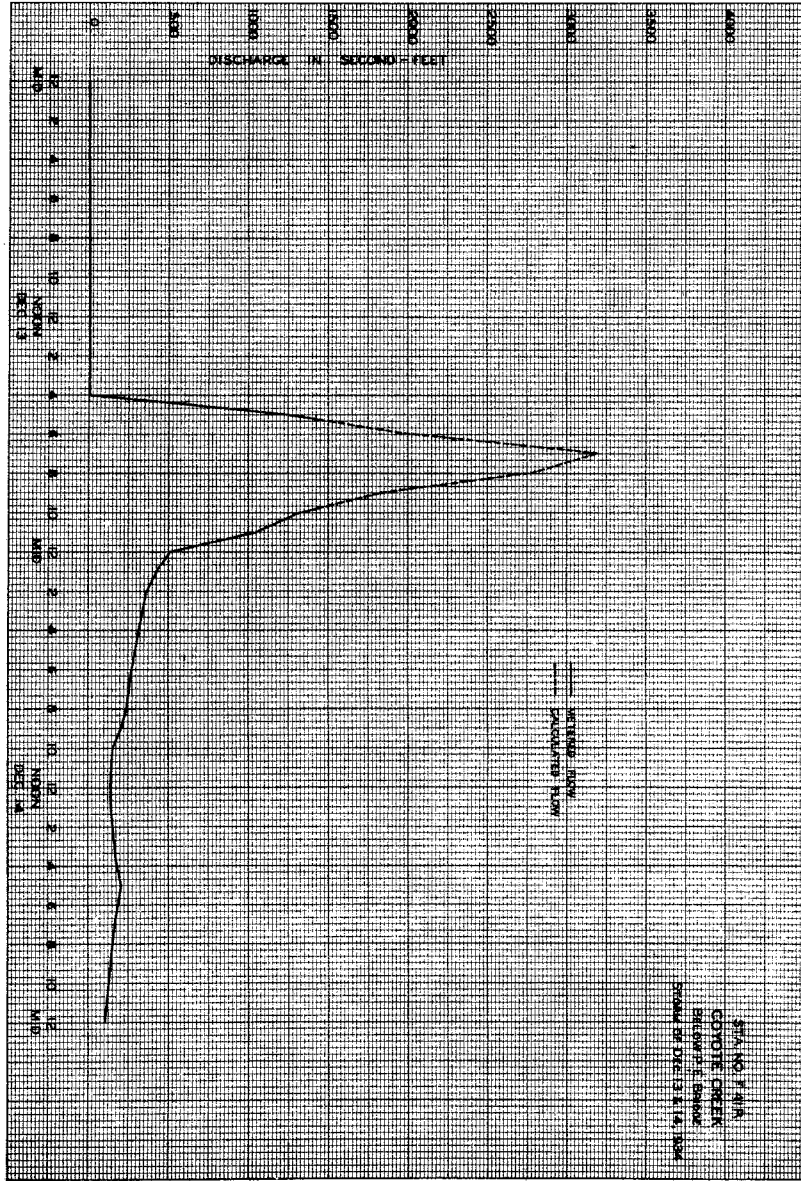
No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. Ft.	Rating Percent full	Method	Mean gage No.	G. H. Change Feet	Depth Feet	Water Temp.	Meter No.
1	10/18	Bonadiman	96.	505.8	1.22	9.43	617.			.6	7	-.06	850A 850A 900A 900A	FC 27
2	10/18	"	96.	505.4	.76	9.32	464.			.6	7	-.17	925A 902A	"
3	11/7	"	3.0	.57	.30	2.01	.11			.6	3	0		"
4	11/16	"				2.19	3.0						1100A 1230P	
5	11/22	"	23.	5.00	.22	2.23	1.1			.6	7	0	1240P 422P 442P 450P	FC 27
6	12/13	"	74.	308.4	2.08	6.48	641.			.6	7	+.76	515P 705A 750A 230P	"
7	12/13	" - Wilkins	73.	351.2	4.05	7.35	1420.			.6	6	+.30	515P 705A 750A 230P	"
8	12/14	" Harper	60.	192.6	1.35	5.28	260.			.6	6	0	311P 251P	"
9	12/14	Moanlay, Martin &	60.	145.4	1.04	4.60	152.			.6	8	+.10	251P 251P 330P	-
10	12/18	Bonadiman	43.	77.8	.58	3.28	45.			.6	6	0	338P 1045A	FC 27
11	1/8	" - Wilkins	47.5	105.3	0.53	4.18	55.			.6	5	-.04	338P 1045A	"
12	2/6	Bonadiman	43.0	86.3	0.56	3.42	48.			.6	5	+.07	1100A 656P	"
13	2/6	"	52.0	259.6	1.18	6.54	305.			.6	9	-.10	715P 615P	"
14	3/2	" - Wilkins	43.	82.3	0.25	3.58	21.			.6	7	+.01	555P 1155A	"
15	3/8	"	36.5	51.21	.30	3.19	19.			.6	5	-.02	1155A	"
16	5/8	"					0						800A	
17	5/23	"					0						800P	
18	6/6	"					0						330P	
19	6/28	"					0						100P	
20	9/4	"					0						256P	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 41 R**

Discharge measurements of COYOTE CREEK
xx below P. E. Bridge during the year ending September 30, 19 36

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. Ft.	Rating Percent full	Method	Mean gage No.	G. H. Change Feet	Depth Feet	Water Temp.	Meter No.
1	10/3	Bonadiman					0							
2	10/10	"					0							
3	10/17	"					0							
4	10/24	"					0							
5	11/21	"					0							
6	12/5	"					0							
7	12/12	"					0							
8	12/19	"					0							
9	12/27	"					0							
10	1/2	"	6.	0.90	0.40	1.96	0.36			.6	2	0	143P 145P	FC 9
11	1/9	"	-			1.88	Trace							
12	1/16	"	6.	1.05	0.42	1.99	0.44			.6	2	0	1200N 1203P	FC 9
13	1/23	"				1.99	Trace							
14	2/12	"	53.	77.1	0.28	3.12	22.			.6	5	-0.01	335P 1125P	FC 9
15	2/12	"	67	292.	1.12	6.80	327.			.6	7	-0.04	740A 750A	"
16	2/13	"	63	177.	0.78	5.07	138.			.6	6	-0.02	340P 400P	"
17	2/14	"	50	89.5	.10	2.77	5.1			.6	6	0	650A 705A	"
18	2/15	"	61	173.	0.78	4.94	134.			.6	6	-0.05	1240P	"
19	2/16	"	77	288.	1.42	6.52	412.			.6	7	-0.08	1254P 445P	USED
20	2/16	"	62	194.	0.87	5.40	168.			.6	6	-0.04	455P 315P	USED
21	2/17	"	54	71.7	0.33	3.25	24.			.6	5	-0.02	323P	USED
22	6/25	"					0							
23	7/2	"					0							
24	9/2	"					0							



LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. 741R

Daily discharge, in second-feet of COYOTE CREEK below P. E. Bridge for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0		.1	.5	3.8	.5	.4	.5	1.0	0	0	0
2	0		.1	.4	2.8	.5	2.4	.5	1.2	0	0	0
3	0		.1	.5	2.5	.5	1.6	.5	1.0	0	0	0
4	0		.1	.5	2.6	.5	3.5	.5	1.1	0	0	0
5	0		.1	.5	2.5	.5	2.9	.5	.7	0	0	0
6	0		.1	.5	9	.1	.6	.4	0	0	0	0
7	0		.1	.5	2.4	30	20	.5	1.2	0	0	0
8	0		1.0	1.0	6	40	2.2	0	0	0	0	0
9	0		1.4	.8	10	15	10	0	0	0	0	0
10	0		.1	1.4	3.4	3.5	3.1	2.4	0	0	0	0
11	0		0	1.4	1.6	2.9	2.6	1.9	0	0	0	0
12	0		0	1.4	.7	2.2	1.5	1.1	0	0	0	0
13	0		0	5.9	.6	1.6	.7	.5	0	0	0	0
14	0		0	21.6	.6	1.1	.2	.6	0	0	0	0
15	0		0	57	27	1.9	.2	.6	0	0	0	0
16	0	25	11	24	.8	.2	.5	.7	0	0	0	0
17	0	11	5	3.4	.8	.3	.6	.6	0	0	0	0
18	586	11	4.0	1.9	.7	.2	.5	.5	0	0	0	0
19	115	25	3.9	4.7	.7	.2	.4	.5	0	0	0	0
20	14	10	3.8	2.9	.7	.2	.4	0	0	0	0	0
21	3.5	2.7	5.7	1.7	.7	.3	.5	0	0	0	0	0
22	1.1	1.0	3.2	1.5	.6	.5	.5	0	0	0	0	0
23	.8	.5	2.6	1.2	.6	.6	.6	0	0	0	0	0
24	.6	.4	2.5	.9	.5	.8	.6	0	0	0	0	0
25	.4	.5	2.5	.7	.5	1.2	.2	0	0	0	0	0
26	0	.4	2.3	.6	.4	1.0	.5	0	0	0	0	0
27	0	.4	2.3	.6	.4	.8	.5	0	0	0	0	0
28	0	.5	2.3	.6	.4	.4	.6	0	0	0	0	0
29	0	.4	2.8	.5	.5	.4	.7	0	0	0	0	0
30	.1	.5	2.8	.5	.5	.5	.9	0	0	0	0	0
31	.1	.5	2.7	.5	.5	.5	.5	0	0	0	0	0
Year Total	489.6	87.7	909.5	127.8	167.0	111.5	35.0	9.7	0	0	0	0
MEAN	15.8	2.92	29.5	4.45	5.96	3.60	1.10	.31	0	0	0	0
Accum. Part	971.	174.	1800.	275.	351.	221.	65.	19.	0	0	0	0

Remarks: _____
 Year 36 MEAN 5.22
 Accum. Part 2854.

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. 741R

Daily discharge, in second-feet of COYOTE CREEK below P. E. Bridge for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.8	0.8	0.8	0.8	0.8	0	0	0
2	0	0	0	0	1.0	0.8	0.8	0.8	0.8	0	0	0
3	0	0	0	0	1.2	0.8	0.8	0.8	0.8	0	0	0
4	0	0	0	0	1.2	0.7	0.8	0.8	0.8	0	0	0
5	0	0	0	0	1.1	0.7	0.8	0.8	0.8	0	0	0
6	0	0	0	0	1.0	0.8	0.7	0.8	0.8	0	0	0
7	0	0	0	0	1.0	0.8	0.5	0.8	0.8	0	0	0
8	0	0	0	0	0.9	0.8	0.4	0.8	0.8	0	0	0
9	0	0	0	0	0.9	0.8	0.5	0.8	0.8	0	0	0
10	0	0	0	0	1.0	0.8	0.8	0.8	0.8	0	0	0
11	0	0	0	0	1.7	0.8	0.6	0.8	0.8	0	0	0
12	0	0	0	0	7.3	0.8	0.4	0.8	0.8	0	0	0
13	0	0	0	0	10.5	0.8	0.5	0.8	0.8	0	0	0
14	0	0	0	0	10	0.7	0.3	0.8	0.8	0	0	0
15	0	0	0	0	31	0.6	0.2	0.8	0.8	0	0	0
16	0	0	0	0	17.2	0.5	0.2	0.8	0.8	0	0	0
17	0	0	0	0	4.8	0.7	0.1	0.8	0.8	0	0	0
18	0	0	0	0	8.5	0.5	0	0.8	0.8	0	0	0
19	0	0	0	0	4.6	0.5	0	0.8	0.8	0	0	0
20	0	0	0	0	1.8	0.5	0	0.8	0.8	0	0	0
21	0	0	0	0	1.3	0.5	0.1	0.8	0.8	0	0	0
22	0	0	0	0	2.2	0.5	0.2	0.8	0.8	0	0	0
23	0	0	0	0	4.3	0.5	0.1	0.8	0.8	0	0	0
24	0	0	0	0	7.5	0.5	0.1	0.8	0.8	0	0	0
25	0	0	0	0	2.5	0.7	0.1	0.8	0.8	0	0	0
26	0	0	0	0	1.2	0.8	0.2	0.8	0.8	0	0	0
27	0	0	0	0	1.0	0.8	0.1	0.8	0.8	0	0	0
28	0	0	0	0	0.8	0.5	0.1	0.8	0.8	0	0	0
29	0	0	0	0	0.8	0.5	0.2	0.8	0.8	0	0	0
30	0	0	0	0	0.8	0.7	0.5	0.8	0.8	0	0	0
31	0	0	0	0	0.8	0.9	0.9	0.8	0.8	0	0	0
Year Total	0	0	+	13.3	53.62	21.9	10.7	2.3	0	0	0	0
MEAN	0	0	+	0.43	1.85	0.71	0.36	0.07	0	0	0	0
Accum. Part	0	0	+	26	106.0	43	21	4.6	0	0	0	0

Remarks: + Indicates discharge 0.05 second-feet or less.
 Year 36 MEAN 1.60
 Accum. Part 1150

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 53 R**

Station **F53R**
DUME CREEK at Roosevelt Highway

Discharge measurements of DUME CREEK
at Roosevelt Highway during the year ending September 30, 1935

Location
On downstream side of Roosevelt Highway bridge, near Dume Point about 1/4 mile from Pacific Ocean, 20 miles west of Santa Monica

Drainage area
8.76 square miles.

Channel and control
Channel - Sand and gravel
No artificial control

Discharge measurements
At low flows by wading
At high flows from highway bridge.

Recorder
Installed January 15, 1930, in box type house over galvanized iron pipe stilling well.
Stevens continuous recorder.

Regulation
None

Diversions
None

Records available
January 15, 1930 to September 30, 1936.

Extremes of discharge
1929-30
Maximum 426 second-feet January 15
Minimum No flow most of year
1930-31
Maximum 205 second-feet February 4
Minimum No flow most of year
1931-32
Maximum 425 second-feet December 28
Minimum No flow most of year
1932-33
Maximum 110 second-feet January 19
Minimum No flow most of year
1933-34
Maximum 2750 second-feet December 31
Minimum No flow most of year
1934-35
Maximum 409 second-feet January 5
Minimum no flow most of year
1935-36
Maximum 206 second-feet February 14
Minimum no flow most of year

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating	Method	Stage ft.	C. H. Change Feet	Stage ft.	Mean No.
1	1/5	Prickett - Garman	14.60	9.48	5.25	1.45	51.			.6	0	1110A	1125A PC 20
2	1/5	" "	14.00	8.65	5.00	1.41	26.			.6	0	1155A	1155A "
3	1/18	" "	10.0	4.19	1.51	1.15	5.5			.6	-.01	902A	902A "

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

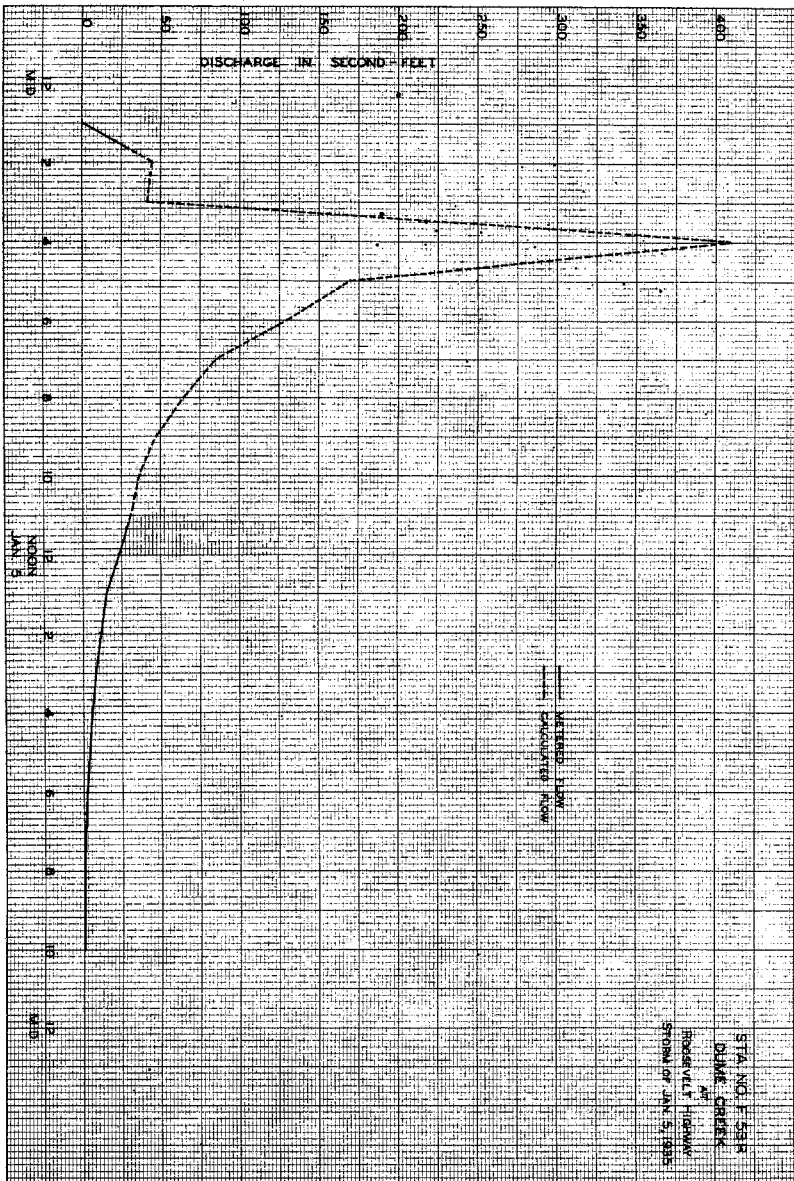
Station No. **F 53 R**

Accuracy
Poor

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

Discharge measurements of DUME CREEK
at Roosevelt Highway during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating	Method	Stage ft.	C. H. Change Feet	Stage ft.	Mean No.
1	2/13	Keifer	11.0	4.89	1.43	1.21	7.0			.6	6	0	345P
2	2/15	Carlson-Redican	18.0	14.7	2.52	1.76	37.			.6	10	-.03	152A
3	2/15	J.H. Prickett-Carlson	13.0	13.0	3.62	1.66	47.			.6	5	-.03	205A
4	2/16	G.G. Carlson-Redican	26.0	24.2	2.81	1.97	68.			.6	11	-.02	305A
5	2/16	" "	11.5	9.38	3.00	1.59	28.			.6	8	-.02	730A
6	2/18	R.M. Chandler & G.G. Carlson	5.5	1.28	1.72	1.32	2.2			.6	5	0	748A
7	2/18	Prickett-Andran	5.5	1.03	0.67	1.24	0.7			.6	5	-.01	103P
8	2/23	" "	21.0	15.0	3.13	1.80	47.			.6	15	-.03	112P
9	2/23	Carlson-Chandler	11.5	8.63	2.49	1.46	22.			.6	10	-.01	1036A
10	4/4	" "	11.5	4.43	1.33	1.34	5.9			.6	10	0	120P



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 53 R**

Daily discharge, in second-feet of **DUME CREEK at Roosevelt Highway** for the year ending September 30, 19 **35**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	4.7	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	5.5	3.0	0	0	0	0	0
9	0	0	0	0	0	0	1.0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	5.5	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	52.5	0	5.5	31.0	0	0	0	0	0
MEAN	0	0	0	1.69	0	.18	1.03	0	0	0	0	0
Acres Feet	0	0	0	104.	0	11.	61.	0	0	0	0	0

Remarks:

YEAR OR PERIOD
MEAN .244
ACRES FEET 176.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

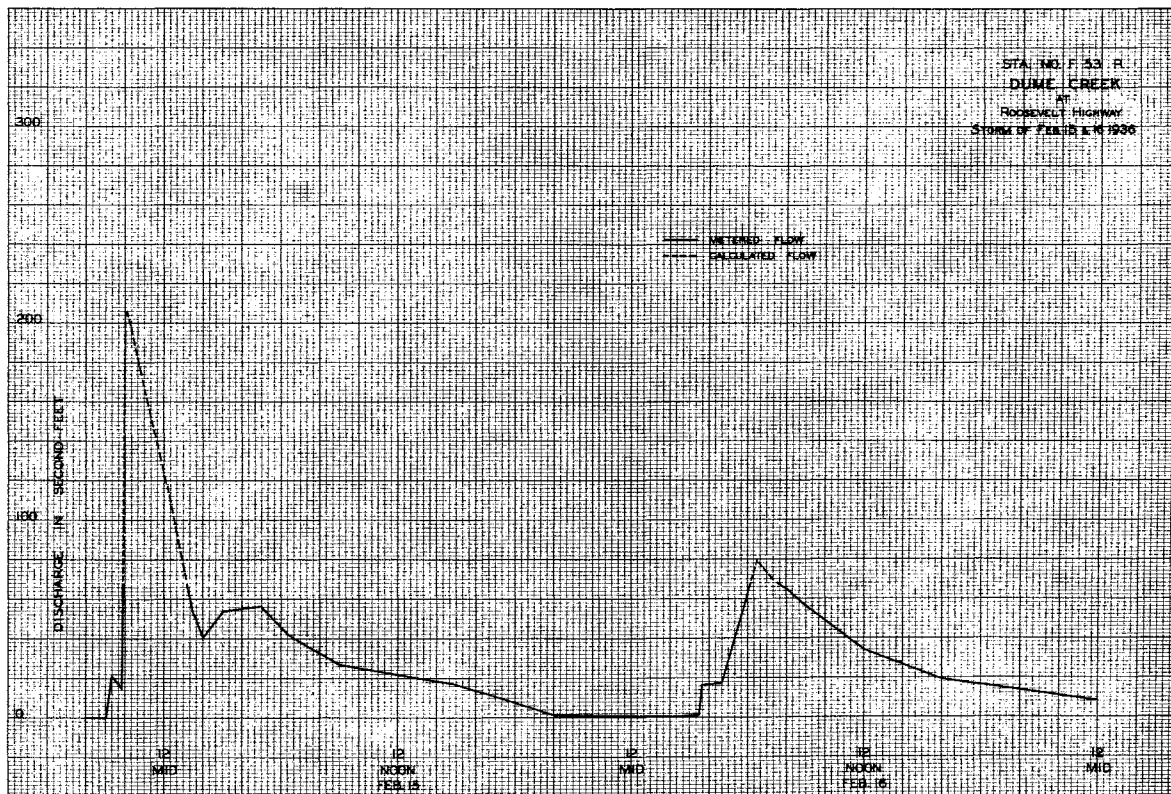
Sta. No. **F53R**

Daily discharge, in second-feet of **DUME CREEK at Roosevelt Highway** for the year ending September 30, 19 **36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	5.5	0	0	0	0	0
5	0	0	0	0	0	0	3.4	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	1.4	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	1.5	0	0	0	0	0	0	0
15	0	0	0	0	2.6	0	0	0	0	0	0	0
16	0	0	0	0	2.6	0	0	0	0	0	0	0
17	0	0	0	0	2.5	0	0	0	0	0	0	0
18	0	0	0	0	0.4	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	1.4	0	0	0	0	0	0	0
24	0	0	0	0	1.2	0	0	0	0	0	0	0
25	0	0	0	0	0.4	0	0	0	0	0	0	0
26	0	0	0	0	0.1	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	3.5	0	0	0	0	0	0
	0	0	0	0	92.1	3.5	5.8	0	0	0	0	0
MEAN	0	0	0	0	3.18	0.11	0.19	0	0	0	0	0
Acres Feet	0	0	0	0	183	6.9	12	0	0	0	0	0

Remarks:

YEAR OR PERIOD
MEAN .028
ACRES FEET 202



Station FLO4R
EATON WASH at Sunset Ave.

Location

Attached to center pier on downstream side of Sunset Avenue bridge (formerly Ellis Lane), near El Monte.

Drainage area

18.4 square miles.

Channel and control

Sand and gravel
No artificial control.

Discharge measurements

At low flow by wading.
At high flow from upstream side of bridge.

Recorder

Installed October 1, 1930, in a box type house over a corrugated iron pipe stilling well on the upstream wing wall of the north abutment of the Sunset Avenue Bridge. Removed Dec. 1930 due to bridge construction. Installed at present location Nov. 10, 1931. Stevens L type recorder.

Regulation

Construction on the Eaton Dam was started in the summer of 1936; the regulation resulting therefrom, if any, during the 1935-36 water year was negligible.

Diversions

The Pasadena Water Department diverts some water just above the mouth of Eaton Canyon.

Records available

October 1, 1930 to September 30, 1936. From December 26, 1930 to November 10, 1931 the recorder was located at Broadway.
(now designated as station FLO4B-R)

Extremes of discharge

Station 104B-R:

1930-31
Maximum 359 second-feet April 26
Minimum No flow most of year

Station FLO4R:

1931-32
Maximum 184 second-feet on February 8
Minimum No flow most of year.
1932-33
Maximum 399 second-feet on January 19
Minimum No flow most of year.
1933-34
Maximum 2180 second-feet on January 1
Minimum No flow most of year.
1934-35
Maximum 609 second-feet January 5
Minimum no flow most of year
1935-36
Maximum 414 second-feet February 12
Minimum no flow most of year.

Accuracy

Poor.
Clock stopped: November 17, 1935; February 12, 1936.

Operation

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 104 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 104 R

Discharge measurements of EATON WASH

Discharge measurements of EATON WASH

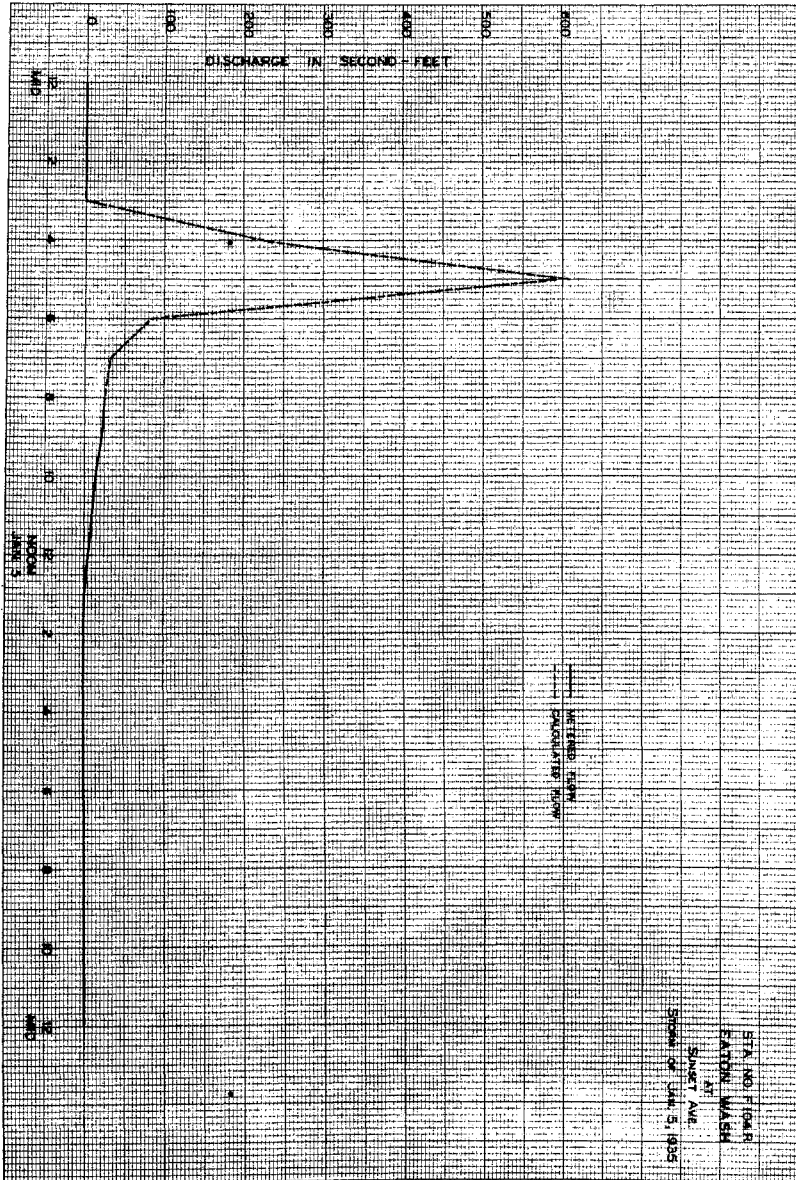
at Sunset Ave. during the year ending September 30, 1936

at Sunset Ave. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meas. No., G. H. change, Elevation, Meter No. Contains data for measurements from 1934 to 1936.

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meas. No., G. H. change, Elevation, Meter No. Contains data for measurements from 1934 to 1936.

KOEPPEL & TRENK CO., N.Y., NO. 38251
12 x 18 IN. GRID



F. C. Div. Form 3

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 104 R**

Daily discharge, in second-feet of **RATON WASH at Sunset Ave.** for the year ending September 30, 19**35**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	9.5	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	4.5	2.0	0	0	0	0	0	0	0
6	0	0	0	0	2.2	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0.6	0	0	0	0	0
8	0	0	0.4	0	0	0	7.8	0	0	0	0	0
9	0	0	0	0.2	0	0	4.2	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	5.1	0	0	0	0	0	0	0	0	0
14	0	0	2.8	0	0	0	0	0	0	0	0	0
15	0	0	2.6	1.5	0	0	0	0	0	0	0	0
16	0	4.6	0	0	0	0	0	0	0	0	0	0
17	1.2	0	0	4.3	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0.6	0	0	0.7	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	2.0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0.6	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	18.2	5.2	97.6	61.2	4.9	10.1	76.7	0	0	0	0	0
ACRE- FEET	56	10	194	121	9.7	20	162	0	0	0	0	0

Remarks: + indicates discharge 0.05 sec. ft. or less.

YEAR PERIOD **1935** MEAN **7.50**
ACRE-FEET **543.**

F. C. Div. Form 33 10 11-4

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

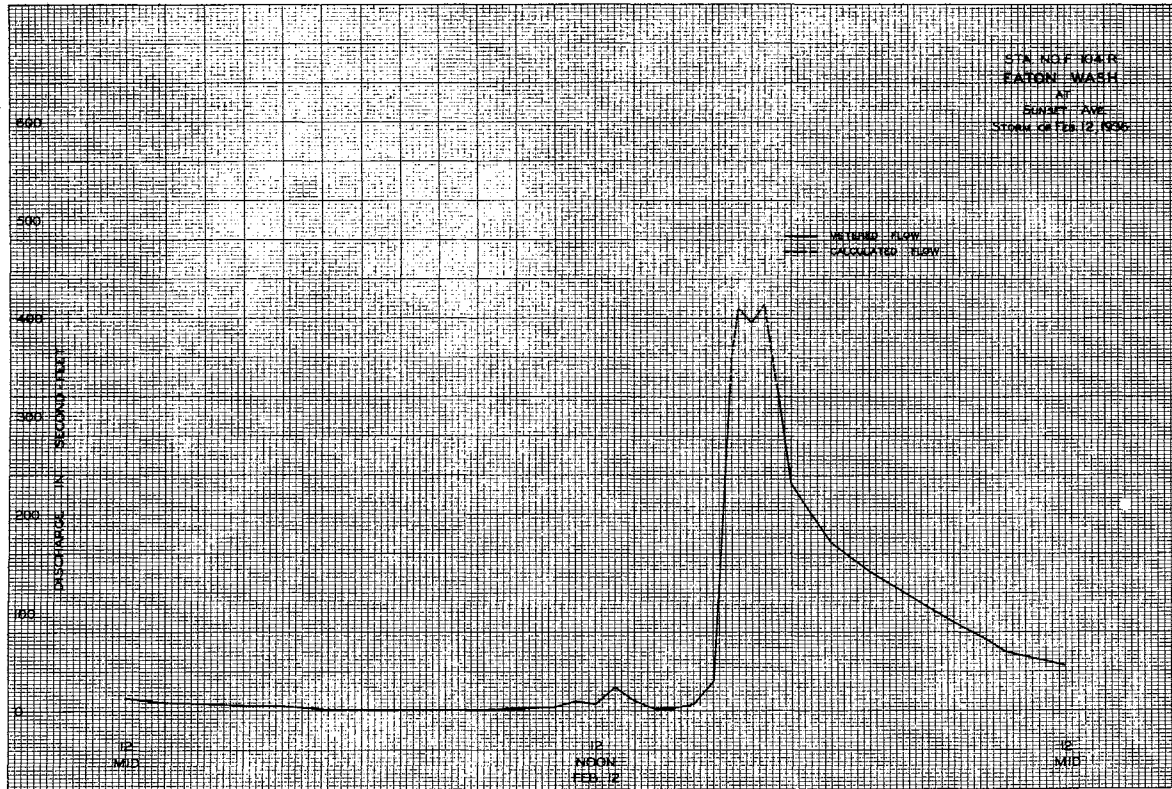
Sta. No. **F104R**

Daily discharge, in second-feet of **RATON WASH at Sunset Ave.** for the year ending September 30, 19**36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	7	0	0	0	0	0	0	0
2	0	0	0	0	2.0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0.1	0	0	0	4.3	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	3.5	0	0	0	0	0	0	0
12	0.1	0	0	0	6.3	0	0	0	0	0	0	0
13	0	0	0	0	3.2	0	0	0	0	0	0	0
14	0.2	0	0	0	4.8	0	0	0	0	0	0	0
15	0	0	0	0	4.8	0	0	0	0	0	0	0
16	0	0	0	0	4.8	0	0	0	0	0	0	0
17	0	1.1	0	0	4.7	0	0	0	0	0	0	0
18	0	0	0	0	3.5	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0.9	0	0	0	0	0	0	0
23	0	0	0	0	4.2	0	0	0	0	0	0	0
24	0	0	0	0	0.7	1.1	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	3.9	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	8.5	0	0	0	0	0	0
31	0	0	0	0.2	0	1.0	0	0	0	0	0	0
MEAN	0.3	1.1	4.0	0.2	3.64	1.6	4.63	0	0	0	0	0
ACRE- FEET	0.60	2.2	7.9	0.40	7.24	3.7	9.2	0	0	0	0	0

Remarks: + Indicates discharge 0.05 second-feet or less.

YEAR PERIOD **1936** MEAN **1.19**
ACRE-FEET **86.6**



Station F65R
LITTLE DALTON CREEK at mouth of canyon

Location

On West bank about 500 feet above mouth of canyon and approximately 2 miles northeast of Glendora

Drainage area

3.3 square miles

Channel and control

Channel - rocky bottom and sides overlaid with shifting sand, gravel and boulders.
Control - concrete wall with steel rail imbedded in top across channel 10 feet below recorder.

Discharge measurements

At low flow by wading near station.
At high flow from footbridge 3 feet below recorder.

Recorder

Installed January, 1929 in a box type house over corrugated iron pipe stilling well.
Rational, horizontal recorder.

Regulation

None

Diversions

Small pipe line diversion above station

Records available

January 28, 1929 to September 30, 1936

Extremes of discharge

1929-30
Maximum 28 second-feet May 3
Minimum no flow at various times during year
1930-31
Maximum 6 second-feet April 26
Minimum no flow at various times during year
1931-32
Maximum 72 second-feet January 31
Minimum no flow most of year

1932-33

Maximum 25 second-feet January 19
Minimum no flow at various times during year

1933-34

Maximum 201 second-feet January 1
Minimum no flow most of year

1934-35

Maximum 69 second-feet April 8
Minimum no flow part of year

1935-36

Maximum 118 second-feet February 11
Minimum no flow most of year

Accuracy

Fair

Operation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 65 R**

Discharge measurements of LITTLE DALTON CREEK

at mouth of canyon during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage height feet	Discharge Sec.-ft.	Rating Percent diff.	Method	Meas. No.	G. H. gauge used	Begin Time	End Time	Meter No.
1	10/17	Brewster	5.0	1.52	1.65	.35	2.5	.6	5	+02	1000A	PC 8		
2	10/17	" - Boone	5.0	1.50	3.87	.48	5.8	.6	5	0	1085A			
3	10/18	" "	5.0	.45	1.16	.28	.50	.6	5	0	1085A			
4	11/16	" "	3.0	.50	1.10	.19	.55	.6	5	0	810A			
5	12/8	" "	3.0	.54	1.17	.32	.65	.6	5	0	1220P			
6	12/15	" - Boone	6.0	1.68	6.95	.55	12.	.6	5	0	1220P			
7	12/15	" "	6.0	2.24	5.82	.60	15.	.6	5	0	505P			
8	12/14	" "	6.0	2.70	5.72	.60	15.	.6	5	0	924A			
9	12/14	" "	6.0	1.62	4.62	.60	7.5	.6	5	0	555P			
10	12/16	" "	4.0	1.02	1.42	.30	1.4	.6	4	0	1155A			
11	12/20	" "	3.0	.40	1.77	.26	.70	.6	5	0	505P			
12	12/27	" "	1.0	.14	2.14	.22	.30	.6	2	0	835A			
13	1/3	" "	1.0	.20	1.40	.22	.28	.6	2	0	425A			
14	1/5	" "	5.0	1.91	3.70	.48	7.1	.6	5	0	755A			
15	1/5	" "	4.0	.85	2.91	.34	2.5	.6	4	-01	225P			
16	1/9	" "	4.0	.81	2.42	.35	2.0	.6	4	0	215P			
17	1/10	" "	3.0	.63	1.89	.29	1.2	.6	5	0	205P			
18	1/15	" - Boone	4.0	1.10	2.92	.36	3.2	.6	4	0	580A			
19	1/15	" "	6.0	1.58	5.42	.46	8.6	.6	5	0	825A			
20	1/17	" "	3.0	.74	1.97	.30	1.5	.6	5	0	325P			
21	1/24	" "	3.0	.76	2.03	.28	1.5	.6	5	0	440P			
22	1/31	" "	3.0	.55	1.29	.24	.70	.6	5	0	425P			
23	2/4	" "	4.0	.91	1.52	.28	1.4	.6	4	0	125P			
24	2/5	" "	4.0	1.53	2.50	.40	3.8	.6	4	0	655A			
25	2/5	Brewster	5.0	1.58	2.23	.40	3.5	.6	5	-01	1055A	PC 8		
26	2/6	" "	5.0	1.21	2.75	.36	3.3	.6	5	0	425P			
27	2/7	" "	4.0	1.13	1.57	.22	1.8	.6	4	0	320P			
28	2/14	" "	4.0	.98	1.48	.30	1.4	.6	4	0	300P			
29	2/20	" "	3.0	.58	1.56	.25	.80	.6	5	0	355P			
30	2/28	" "	3.0	.54	1.02	.23	.55	.6	5	0	400P			
31	3/2	" - Boone	4.0	.95	1.76	.32	1.7	.6	4	0	345P			
32	3/7	" "	4.0	1.04	1.43	.33	1.5	.6	4	0	225P			
33	3/14	" "	3.0	.44	1.27	.24	.55	.6	5	0	340P			
34	3/19	" "	3.0	.65	.77	.23	.50	.6	5	0	315P			
35	3/21	" "	3.0	.61	1.00	.24	.60	.6	5	0	320P			
36	3/24	" "	4.0	1.02	1.32	.30	1.4	.6	4	0	760A			
37	3/28	" "	3.0	.51	.90	.20	.41	.6	5	0	435P			
38	4/4	" "	3.0	.38	1.16	.21	.44	.6	5	0	324P			
39	4/8	" - Boone	12.0	3.46	6.05	1.08	51.	.6	6	+04	655A			
40	4/8	" "	10.0	5.24	6.00	.95	37.	.6	5	0	1125A			
41	4/8	" "	7.0	2.77	5.27	.69	15.	.6	4	-01	445P			
42	4/9	" "	5.0	1.91	2.65	.50	5.1	.6	5	0	921A			
43	4/11	" "	4.0	.86	4.32	.44	5.7	.6	4	0	355P			
44	4/18	" "	4.0	.96	1.34	.32	1.3	.6	4	0	400P			
45	4/25	" "	3.0	.66	1.24	.29	.80	.6	5	0	325P			
46	5/2	" "	3.0	.64	1.27	.28	.80	.6	5	0	420P			
47	5/9	" "	3.0	.56	1.02	.26	.55	.6	5	0	445P			
48	5/16	" "	3.0	.55	1.11	.27	.60	.6	5	0	450P			

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 65 R**

Discharge measurements of LITTLE DALTON CREEK

at mouth of canyon during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage height feet	Discharge Sec.-ft.	Rating Percent diff.	Method	Meas. No.	G. H. gauge used	Begin Time	End Time	Meter No.
1	12/29	Brewster	4.0	1.14	3.05	0.40	3.5	.6	4	-02	1206P			FG 8
2	2/2	" "	9.0	7.21	7.44	1.05	54.	.6	5	+06	1211P			620A
3	2/2	" "	6.0	2.94	6.47	.55	19.	.6	5	-02	630A			854A
4	2/2	" "	4.0	1.22	3.79	.39	4.6	.6	4	-02	900A			210P
5	2/3	" "	5	.08	1.00	.08	.08	.6	1	0	812A			810A
6	2/11	" "	5.0	2.02	2.58	.38	5.2	.6	5	-04	930A			936A
7	2/11	" "	5.0	1.50	4.54	.45	6.8	.6	5	0	1259P			105P
8	2/11	" & Lindsay	14.0	14.2	8.01	1.72	114.	Float 7			435P			1048P
9	2/11	" "	5.0	1.29	6.71	.61	8.7	.6	5	-02	1055P			FG 8
10	2/12	" "	5.0	1.20	6.05	.65	7.3	.6	5	0	940A			400P
11	2/12	" & Lindsay	14.0	10.0	5.96	1.30	60.	.6	7	-04	410P			1230A
12	2/13	" "	5.0	1.41	7.06	.44	10.	.6	5	0	1235A			1240P
13	2/13	" "	5.0	1.52	8.10	.85	12.	.6	5	-02	1246P			320P
14	2/14	" "	6.0	1.25	7.37	.82	9.2	.6	6	0	330P			920P
15	2/14	" "	7.0	3.56	7.32	1.04	26.	.6	7	+04	930P			930A
16	2/15	" "	5.0	1.30	5.92	.62	7.7	.6	5	0	911A			940A
17	2/16	" & Lindsay	6.0	2.24	6.73	.87	15.	.6	6	0	940A			420P
18	2/16	" "	6.0	1.80	7.24	.85	13.	.6	6	0	420P			1000A
19	2/17	" "	5.0	1.65	3.18	.56	5.2	.6	5	0	1006A			930A
20	2/18	" "	6.0	2.38	5.29	.72	13.	.6	6	-04	940A			130P
21	2/18	" "	4.0	1.61	2.80	.52	4.5	.6	4	0	136P			940A
22	2/19	" & Lindsay	4.0	1.67	1.91	.44	3.2	.6	4	0	945A			340P
23	2/20	" "	4.0	1.45	1.66	.45	2.4	.6	4	0	345P			150A
24	2/23	" "	13.0	10.5	5.98	1.30	63.	.6	7	+07	157A			

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F 65 R

Daily discharge, in second-foot of LITTLE DALTON CREEK at mouth of canyon for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	AUG.	Sept.
1	0	0	0	.3	.7	.6	.4	1.1	0	0	0	0
2	0	0	0	.3	.7	1.4	.4	1.0	0	0	0	0
3	0	0	0	.3	.8	1.1	.3	0	0	0	0	0
4	0	0	0	.3	2.1	1.3	.4	.7	0	0	0	0
5	0	0	0	5.0	4.3	1.0	.4	.7	0	0	0	0
6	0	0	0	1.4	3.0	.6	.4	.6	0	0	0	0
7	0	0	0	1.0	1.9	1.6	.5	.6	0	0	0	0
8	0	0	.5	1.0	1.9	1.1	26.	.6	0	0	0	0
9	0	0	0	1.6	1.6	1.1	4.3	.6	0	0	0	0
10	0	0	0	1.3	1.4	1.0	3.6	.6	0	0	0	0
11	0	0	0	1.3	1.4	.8	3.3	.6	0	0	0	0
12	0	0	1.8	1.1	1.4	.8	3.0	.6	0	0	0	0
13	0	0	9.5	1.1	1.4	.7	2.4	.6	0	0	0	0
14	0	0	16	1.0	1.4	.6	2.1	.6	0	0	0	0
15	0	0	2.7	1.4	.5	1.6	.6	.6	0	0	0	0
16	0	1.5	1.4	2.1	1.3	.6	1.6	.6	0	0	0	0
17	11	1.1	.8	1.4	1.3	.6	1.4	.6	0	0	0	0
18	1.2	.3	.6	4.8	1.1	.6	1.3	.6	0	0	0	0
19	0	.7	.6	5.5	1.0	.6	1.4	.6	0	0	0	0
20	0	.7	.7	2.7	.8	.6	1.3	.4	0	0	0	0
21	0	0	.6	2.1	.8	.6	1.3	.3	0	0	0	0
22	0	0	.6	1.6	.7	.4	1.3	.3	0	0	0	0
23	0	0	.6	1.4	.7	.4	1.3	.1	0	0	0	0
24	0	0	.6	1.4	.7	1.3	1.1	0	0	0	0	0
25	0	0	.3	1.3	.6	.7	1.0	0	0	0	0	0
26	0	0	.3	1.1	.6	.6	1.0	0	0	0	0	0
27	0	0	.3	1.1	.6	.6	1.0	0	0	0	0	0
28	0	0	2.0	1.0	.6	.4	1.0	0	0	0	0	0
29	0	0	.3	1.0	.6	.4	1.6	0	0	0	0	0
30	0	0	.3	.8	.4	1.4	0	0	0	0	0	0
31	0	0	.3	.8	.4	.4	0	0	0	0	0	0
Mean	12.2	3.6	40.6	52.1	36.2	23.1	68.1	13.7	0	0	0	0
Acc. Feet	.39	.12	1.31	1.68	1.29	.75	2.27	.44	0	0	0	0
Remarks	24.	7.1	81.	102.	78.	46.	155.	27.	0	0	0	0

Remark: * indicates discharge 0.05 sec. ft. or less. Year Mean .684
 Acre-Feet 495.

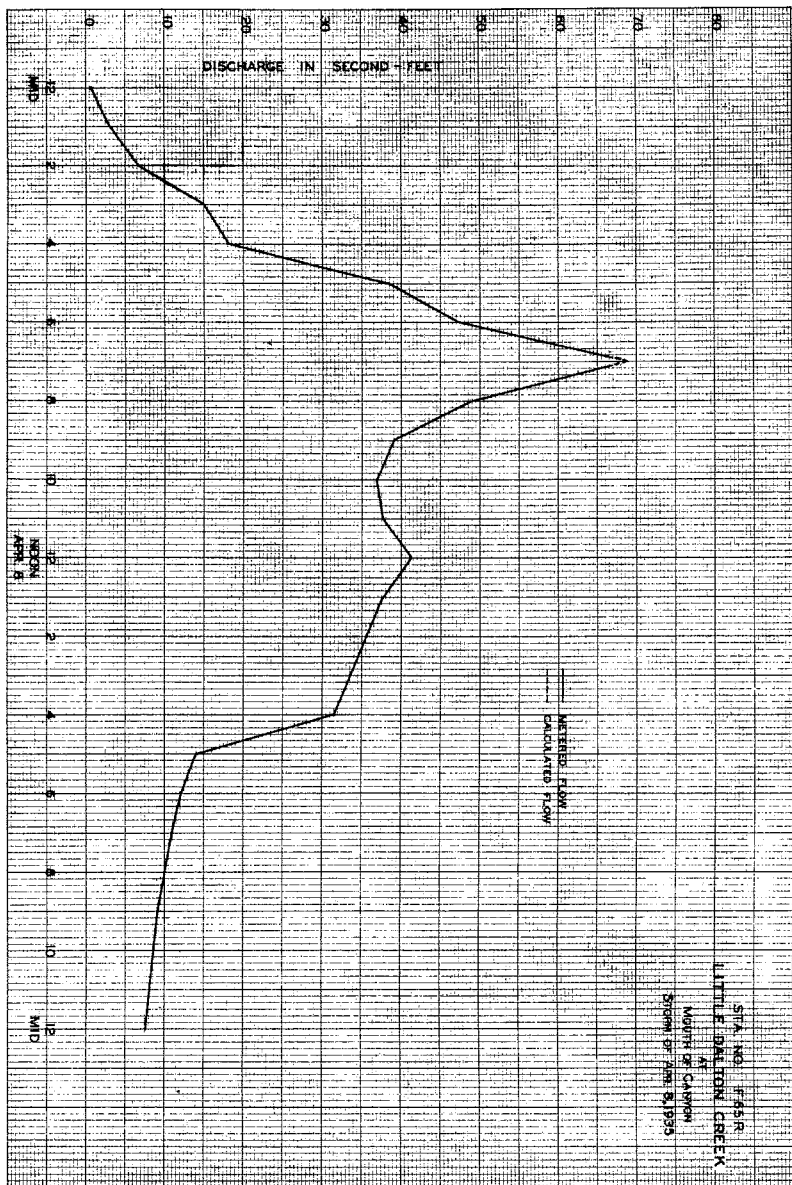
LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F65R

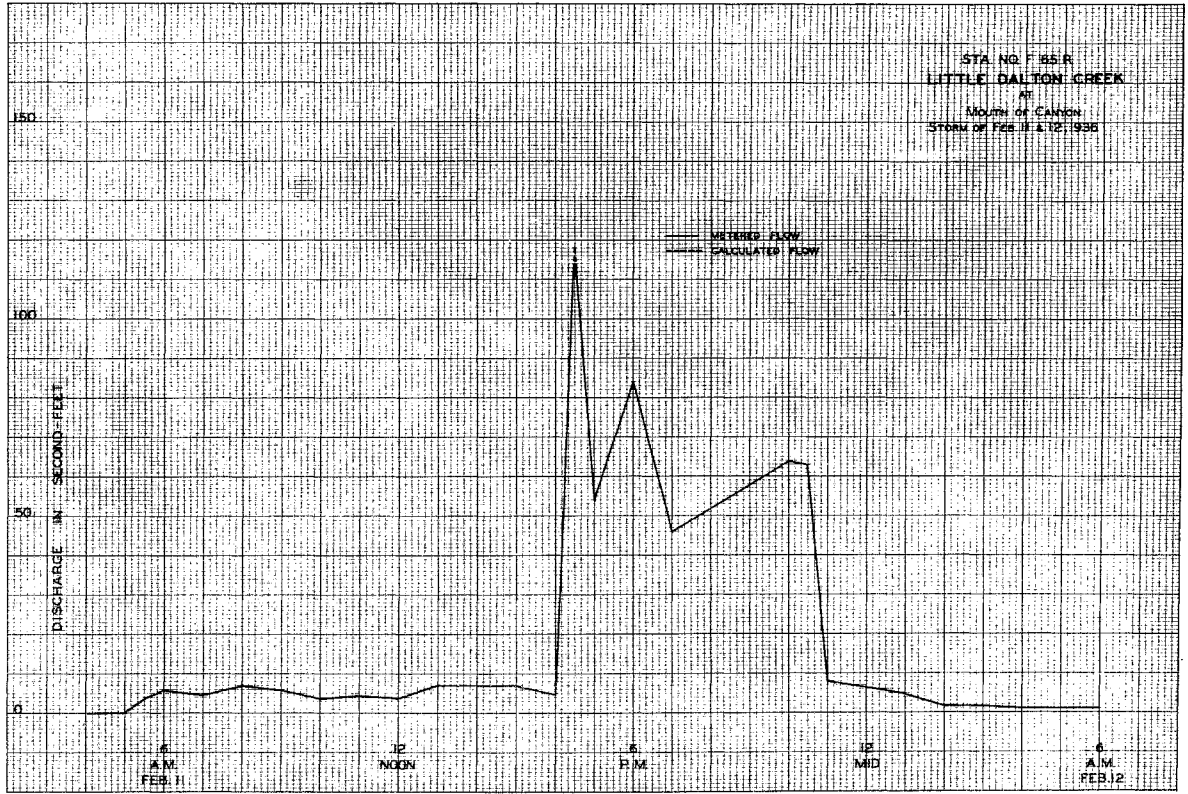
Daily discharge, in second-foot of LITTLE DALTON CREEK at mouth of canyon for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	AUG.	Sept.
1	0	0	0	0	0.4	1.5	2.3	0.8	0	0	0	0
2	0	0	0	0	1.0	1.3	1.2	0.6	0	0	0	0
3	0	0	0	0	0.1	1.2	7	0.5	0	0	0	0
4	0	0	0	0	0	1.1	15	0.4	0	0	0	0
5	0	0	0	0	0	1.0	7	0.2	0	0	0	0
6	0	0	0	0	0	0.9	2.9	0.1	0	0	0	0
7	0	0	0	0	0	0.9	2.3	0	0	0	0	0
8	0	0	0	0	0	0.8	1.9	0	0	0	0	0
9	0	0	0	0	0	0.8	1.7	0	0	0	0	0
10	0	0	0	0	0	0.8	1.2	0	0	0	0	0
11	0	0	0	0	1.9	0.7	1.1	0	0	0	0	0
12	0	0	0	0	1.1	0.4	1.1	0	0	0	0	0
13	0	0	0	0	1.3	0.4	1.1	0	0	0	0	0
14	0	0	0	0	1.1	0.4	1.0	0	0	0	0	0
15	0	0	0	0	9	0.4	1.0	0	0	0	0	0
16	0	0	0	0	1.1	0.4	1.0	0	0	0	0	0
17	0	0	0	0	7	0.4	1.0	0	0	0	0	0
18	0	0	0	0	7	0.4	1.0	0	0	0	0	0
19	0	0	0	0	2.9	0.4	1.0	0	0	0	0	0
20	0	0	0	0	2.3	0.4	1.0	0	0	0	0	0
21	0	0	0	0	2.1	0.4	1.0	0	0	0	0	0
22	0	0	0	0	1.5	0.4	0.9	0	0	0	0	0
23	0	0	0	0	17	0.4	0.8	0	0	0	0	0
24	0	0	0	0	6.5	0.7	0.8	0	0	0	0	0
25	0	0	0	0	4	0.4	0.8	0	0	0	0	0
26	0	0	0	0	3.3	0.4	0.8	0	0	0	0	0
27	0	0	0	0	2.3	0.4	0.8	0	0	0	0	0
28	0	0	0	0	1.9	0.4	0.7	0	0	0	0	0
29	0	0	0	0	1.7	0.4	0.7	0	0	0	0	0
30	0	0	0	0	0	3.1	0.7	0	0	0	0	0
31	0	0	0	0	0	4.4	0	0	0	0	0	0
Mean	0	0	0.006	0	4.98	0.84	2.03	0.08	0	0	0	0
Acc. Feet	0	0	0.4	0	286	52	121	5.2	0	0	0	0
Remarks												

Year Mean 0.54
 Acre-Feet 465



ASHLEY & GREEN CO., S. F. NO. 380714
 17, 210-1000



Station L1R
 LITTLE ROCK CREEK 2 mi. above Little Rock Dam

<p>Location</p> <p>Above Little Rock Palmdale Irrigation District's Dam, about 1000 feet above the junction of Little Rock and Santiago Creeks.</p> <p>Drainage area</p> <p>49 square miles.</p> <p>Channel and control</p> <p>Gravel and boulders. Artificial control, with notch for low flows.</p> <p>Discharge measurements</p> <p>At low flow by wading near gage. At high flows from oable oar estimated 75 feet above gage.</p> <p>Recorder</p> <p>Installed September 1930 in a standard size house over a 14 inch black iron pipe stilling well Stevens continuous recorder.</p> <p>Regulation</p> <p>None</p> <p>Diversions</p> <p>None</p> <p>Records available</p> <p>October 1, 1930 to September 30, 1936.</p> <p>Extremes of discharge</p> <p>1930-31 Maximum 430 second-feet April 26 Minimum No flow on various days during year</p> <p>1931-32 Maximum 2200 second-feet February 8 Minimum No flow on various days during year</p> <p>1932-33 Maximum 66 second-feet March 9 Minimum No flow on various days during year</p> <p>1933-34 Maximum Not determined Minimum No flow on various days during year</p>	<p>1934-35 Maximum 925 second-feet February 5 Minimum no flow on various days during year</p> <p>1935-36 Maximum 261 second-feet February 23 Minimum no flow on various days during year</p> <p>Accuracy</p> <p>Good. Interpolated: November 22 - December 6, 1934; March 12-22, 1936. Clock stopped July 14-Aug. 9, 1935.</p> <p>Operation</p> <p>Located and installed by Little Rock Palmdale Irrigation District. Operated by the Little Rock Palmdale Irrigation District and the Los Angeles County Flood Control District.</p>
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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 11 R

Discharge measurements of LITTLE ROCK CREEK during the year ending September 30, 1936

Table with columns: No., Date, Made by, Value, Gauge, Discharge, Peak, Station. Contains data for measurements from 1/26 to 6/22.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT.

Sta. No. 11R

Daily discharge table for Little Rock Creek from Oct to Sept, 1936. Includes mean and acre-foot values at the bottom.

Remarks: + Indicates discharge of 0.05 second-feet or less. Year or Period: 1936. Mean Acre-Feet: 17640.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 11 R

Discharge measurements of LITTLE ROCK CREEK during the year ending September 30, 1936

Table with columns: No., Date, Made by, Value, Gauge, Discharge, Peak, Station. Contains data for measurements from 1/29 to 6/12.

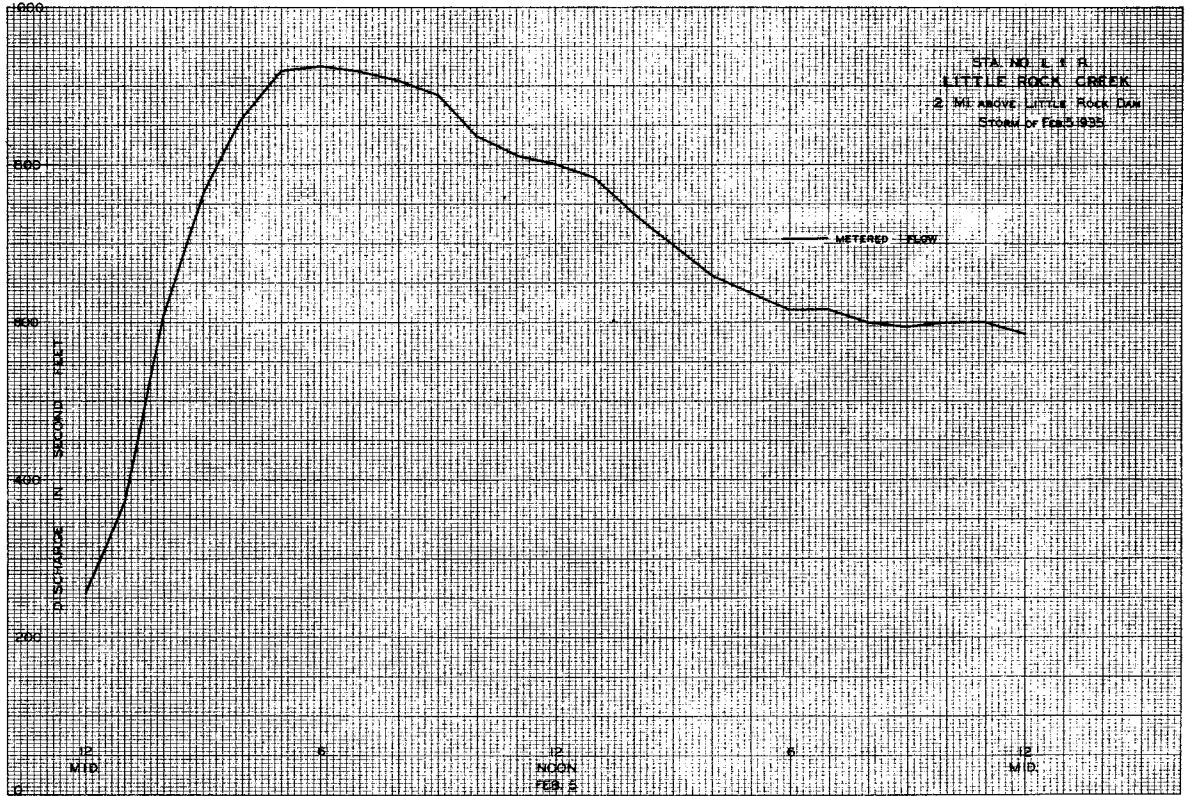
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT.

Sta. No. 11R

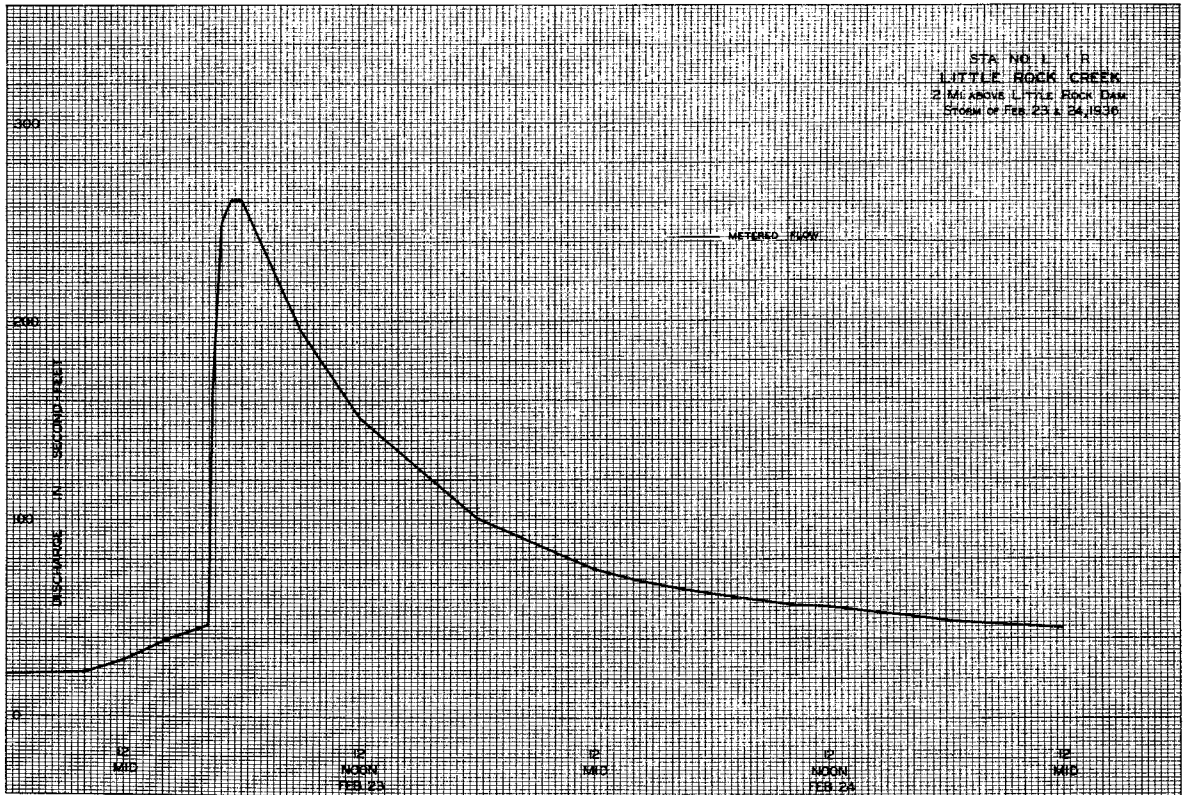
Daily discharge table for Little Rock Creek from Oct to Sept, 1936. Includes mean and acre-foot values at the bottom.

Remarks: + Indicates discharge 0.05 second-feet or less. Year or Period: 1936. Mean Acre-Feet: 3320.

HYDRAULIC ENGINEERING CO., INC. MEMPHIS, TENN.
BY: J. B. HARRIS
DATE: FEB. 1936



HYDRAULIC ENGINEERING CO., INC. MEMPHIS, TENN.
BY: J. B. HARRIS
DATE: FEB. 1936



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 67 R**

Station **F67R**

LITTLE SANTA ANITA CR. 1/4 mi. below Sierra Madre Dam

Discharge measurements of **LITTLE SANTA ANITA CREEK**

at **1/4 mi. below Sierra Madre Dam** during the year ending September 30, 19**36**

Location

On left side of stream at upper end of swimming pool, 1/4 mile below concrete Sierra Madre Dam, 1000 feet below station F67B-R, and about 1 mile northeast of Sierra Madre.

Drainage area

2.57 square miles.

Channel and control

The stilling well is in the side wall of the concrete paved sloping approach to a swimming pool. The concrete has been cut down next to the well in order to keep the low flows against the well. There are gates at the lower end of the swimming pool for the purpose of forming a pool during the summer months.

Discharge measurements

At low flow by wading in channel above station.
At high flow from bridge near station.

Recorder

Installed January 28, 1929, in box type house over a corrugated iron pipe stilling well. Removed May 20, 1936. Stevens L type recorder.

Regulation

Flow regulated by Sierra Madre Dam, about 1/4 mile above the station.

Diversions

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

Records available

January 28, 1929 to May 20, 1936. For records from May 21, 1936 to September 30, 1936, taken about 1/4 mile upstream, see sta. F67B-R.

Extremes of discharge

- 1929-30
Maximum 2.4 second-feet March 15
Minimum No flow at various times during year.
- 1930-31
Maximum 9 second-feet April 26
Minimum No flow at various times during year
- 1931-32
Maximum 38 second-feet February 9
Minimum No flow most of year
- 1932-33
Maximum 90 second-feet January 19
Minimum No flow most of year
- 1933-34
Maximum 39 second feet December 31
Minimum No flow most of year
- 1934-35
Maximum 32 second-feet April 8
Minimum no flow part of year
- 1935-36
Maximum 16 second-feet February 11
Minimum no flow most of year

No.	Date	Made by	Width Feet	Area of Section Sq.-ft.	Mean velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating Percent off.	Method	Mean gage No.	C. H. gage Total	Begin End	Meter No.
1	10/18	Lindsay	5.0	1.30	1.28	0.47	1.7			6	5	1040A 1045A	FC 21
2	18/13	" - Richards	7.5	1.80	3.04	.68	6.5			6	7	113E 225E	"
3	12/14	" "	9.5	2.17	6.85	.70	13.			6	7	230P 1235P	"
4	12/15	Richards	5.0	.87	1.84	.45	1.6			6	6	+02 1240P	FC 25
5	12/15	"	6.0	.88	1.86	.46	1.6			6	6	1843E 1255E	FC 21
6	1/5	Lindsay	6.0	.66	5.08	.63	3.4			6	6	200P 205P	"
7	1/7	"	3.4	0.31	3.12		.95			6	5	1215P 1220P	"
8	1/9	" - Richards	4.7	.58	1.97	.39	1.1			6	6	265E 400P	"
9	1/10	"	4.6	.61	1.30	.28	.80			6	6	1105A 1205E	"
10	1/15	" - Richards	5.9	.65	2.62	.45	1.7			6	7	1220P 1145A	"
11	1/17	"	5.3	0.67	1.60	0.40	1.1			6	7	0 1155A	"
12	1/19	Richards	5.5	.80	1.51	0.40	1.2			6	5	200P 205P	"
13	1/25	Lindsay	2.2	.47	1.49	.26	.70			6	3	1050A 1055A	"
14	1/30	"	1.8	.30	1.10	0.17	.50			6	3	1045A 1050A	"
15	2/5	" - Richards	7.2	1.47	2.42	.60	3.6			6	5	1050A 415E	"
16	2/6	"	7.0	1.18	4.80	.65	5.7			6	7	430E 1140A	"
17	2/7	"	7.0	1.15	1.99		2.3			6	7	1150A 245E	"
18	2/14	Cole - Merideth	6.0	.98	1.37	.33	1.3			6	6	+05 255E	FC 28
19	2/20	Lindsay	2.5	0.42	1.24	.23	.50			6	4	310E 145E	FC 21
20	2/28	"	1.5	0.27	1.15	0.16	.21			6	3	160E 1055A	"
21	3/6	"	2.1	0.28	.96	0.17	.17			6	4	0 1100A	"
22	3/7	"	2.5	0.46	1.09	0.24	.50			6	4	225E 240E	"
23	3/14	"	0.6	0.08	1.12	0.13	.09			6	1	1254E 1255E	"
24	3/21	Cole	1.6	0.12	0.50	0.12	.06			6	2	0 130E	"
25	3/28	R. Lindsay					0.11	Est.				1255E 145E	"
26	4/8	"	9.5	4.26	2.82	0.60	12.			6	6	150E 1184A	FC 21
27	4/9	"	8.0	3.38	1.62	0.61	5.5			6	7	1140A 1189A	"
28	4/11	"	6.6	1.71	1.42	0.51	2.4			6	7	1155A 410P	"
29	4/18	"	3.1	0.89	0.98	0.27	1.0			6	4	0 415E	"
30	4/25	"	3.1	0.83	0.85	0.24	.70			6	4	845A 880A	"
31	5/2	"	3.0	0.80	0.95	0.24	.80			6	4	0 1055A	"
32	5/9	"	0.90	0.15	0.69	0.13	.09			6	2	0 1055A	"
33	5/15	"					0.18	Est.				1250P	"

Accuracy

Poor

Operation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F67R**

Discharge measurements of **LITTLE SANTA ANITA CREEK**

at **1/4 mile below Sierra Madre Dam** during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq.-ft.	Mean velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating Percent off.	Method	Mean gage No.	C. H. gage Total	Begin End	Meter No.
1	2/2	Lindsay - Young	6.5	1.68	2.40	.57	4.1			6	6	1230P 1235P	FC 28
2	2/11	" "	7.5	2.02	3.63	.68	7.3			6	5	248P 255P	"
3	2/12	" - Wall	6.1	1.45	3.30	.62	4.8			6	4	0 1034A	"
4	2/12	Cole - Kenniston	4.5	3.77	3.01	.75	11.			6	8	0 250P	FC 7
5	2/13	Lindsay - Wall	6.5	2.44	1.85	.60	4.5			6	5	0 1055A	FC 28
6	2/16	W. E. Cole - L. A. Cole	2	Channels	.66	7.1				6	7	0 340P	FC 7
7	2/20	Lindsay	5.2	.95	2.10	.50	2.0			6	6	0 1135A	FC 28
8	2/27	"	5.2	1.00	1.26	.42	1.3			6	6	0 1255P	"
9	3/5	"	4.0	.50	.68	.20	0.34			6	4	0 1155A	"
10	3/12	"				.12	0.01	Est.				1130A	"
11	3/31	Lindsay - Wall	10.0	1.45	3.00	.57	4.4			6	5	-02 315A	FC 28
12	4/1	Lindsay	1.7	.10	2.00	.35	0.20			2	0	425P 428P	"
13	4/4	Lindsay - Wall	5.3	.41	2.25	.47	0.95			5	0	925A 1004A	"
14	4/8	Lindsay	2.5	.29	.86	.16	0.25			4	0	1010A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 67 R

Daily discharge, in second-feet of LITTLE SANTA ANITA CR. 1/4 mi. below Sierra Madre Dam for the year ending September 30, 19 35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	.2	.2	+	.3	0	0	0	0
2	0	0	0	0	.2	1.0	+	.7	0	0	0	0
3	0	0	0	0	.2	.4	+	.5	0	0	0	0
4	0	0	0	0	.9	.5	0	.4	0	0	0	0
5	0	0	0	3.8	6.5	.5	0	.2	0	0	0	0
6	0	0	0	1.2	4.6	.2	0	.1	0	0	0	0
7	0	0	0	1.2	2.5	.4	-.1	.1	0	0	0	0
8	0	0	0	1.6	3.5	.4	1.0	.1	0	0	0	0
9	0	0	0	1.1	3.5	.5	5.5	.1	0	0	0	0
10	0	0	0	1.0	2.1	.3	+	0	0	0	0	0
11	0	0	0	.6	1.9	.2	2.5	+	0	0	0	0
12	0	0	0	.6	1.5	.2	2.0	+	0	0	0	0
13	0	0	0	.5	1.2	.1	1.7	+	0	0	0	0
14	0	0	1.5	.5	1.2	.1	1.2	+	0	0	0	0
15	0	0	1.8	2.2	1.5	.1	1.4	+	0	0	0	0
16	0	0	1.0	1.3	1.4	+	1.3	0	0	0	0	0
17	2.8	0	.6	1.0	1.2	+	1.1	0	0	0	0	0
18	1.6	0	.4	1.2	1.0	+	.9	0	0	0	0	0
19	.4	0	.1	1.2	.7	+	.8	0	0	0	0	0
20	0	0	0	1.0	.8	+	.8	0	0	0	0	0
21	0	0	0	.8	.6	.1	+	0	0	0	0	0
22	0	0	0	.8	.5	.1	.8	0	0	0	0	0
23	0	0	0	.6	.4	.1	.8	+	0	0	0	0
24	0	0	0	.5	.4	.2	.1	0	0	0	0	0
25	0	0	0	.5	.4	.1	.5	.1	0	0	0	0
26	0	0	0	.4	+	+	+	0	0	0	0	0
27	0	0	0	.3	.3	+	.5	0	0	0	0	0
28	0	0	.4	.3	.5	+	.5	0	0	0	0	0
29	0	0	0	.3	+	+	1.2	0	0	0	0	0
30	0	0	0	.5	+	+	1.1	0	0	0	0	0
31	0	0	0	.5	+	+	0	0	0	0	0	0
Total	4.8	0	20.8	25.2	39.5	5.2	40.5	3.2	0	0	0	0
MEAN	.15	0	.67	.81	1.41	.17	1.35	.10	0	0	0	0
Accm-Foot	4.8	0	20.8	25.2	39.5	5.2	40.5	3.2	0	0	0	0

Remarks: + indicates discharge 0.05 sec. ft. or less.

YEAR 1935 MEAN .582
FLOOD CONTROL DISTRICT ACUM-FEET 276.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

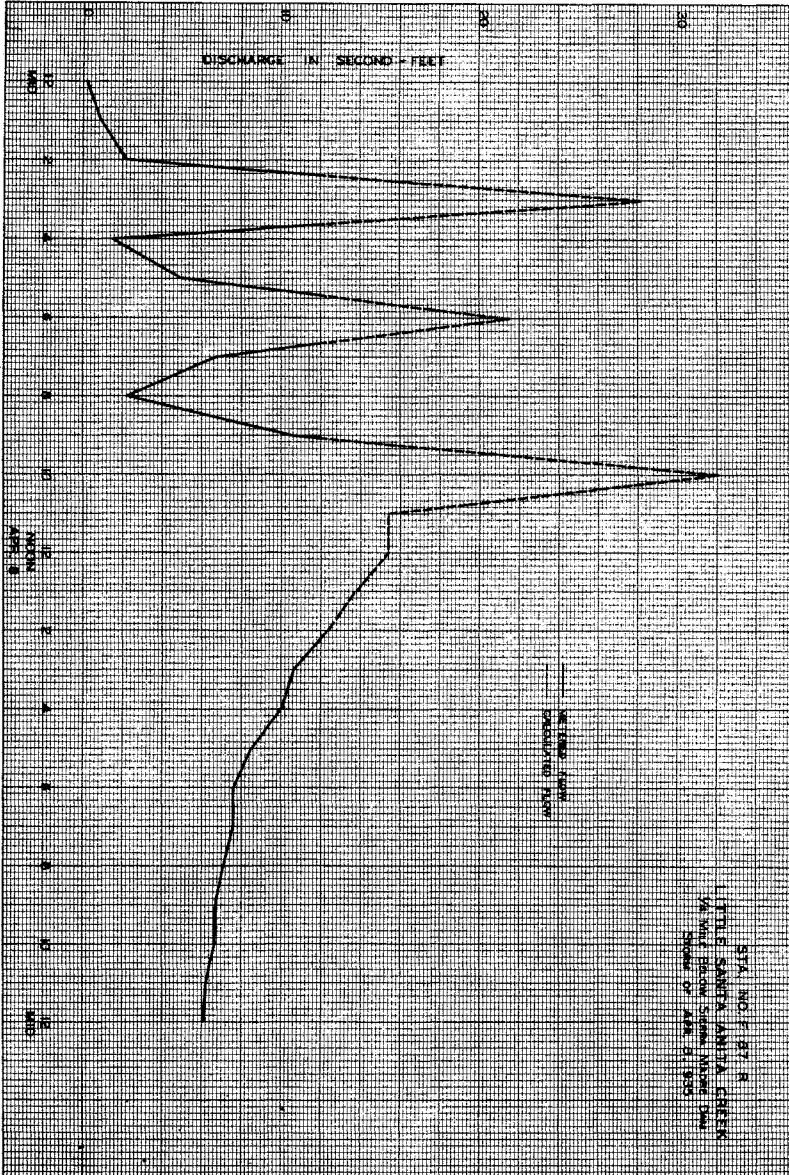
Sta. No. F67R

Daily discharge, in second-feet of LITTLE SANTA ANITA CR. 1/4 mi. below Sierra Madre Dam for the year ending September 30, 19 36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	+	0.4	0	0	0	0	0	0
2	0	0	0	0	1.6	0.3	0	0	0	0	0	0
3	0	0	0	0	0	0.7	0	0	0	0	0	0
4	0	0	0	0	0	0.2	1.4	0	0	0	0	0
5	0	0	0	0	0	0.5	1.0	0	0	0	0	0
6	0	0	0	0	0	0.5	0.5	0	0	0	0	0
7	0	0	0	0	0	0.2	0.5	0	0	0	0	0
8	0	0	0	0	0	0.1	0.2	0	0	0	0	0
9	0	0	0	0	0	0	0.2	0	0	0	0	0
10	0	0	0	0	0	+	0	0	0	0	0	0
11	0	0	0	0	2.3	+	0	0	0	0	0	0
12	0	0	0	0	4.5	+	0	0	0	0	0	0
13	0	0	0	0	4.4	0	0	0	0	0	0	0
14	0	0	0	0	4.7	0	0	0	0	0	0	0
15	0	0	0	0	6.5	0	0	0	0	0	0	0
16	0	0	0	0	6.5	0	0	0	0	0	0	0
17	0	0	0	0	6.5	0	0	0	0	0	0	0
18	0	0	0	0	3.4	0	0	0	0	0	0	0
19	0	0	0	0	2.0	0	0	0	0	0	0	0
20	0	0	0	0	1.9	0	0	0	0	0	0	0
21	0	0	0	0	1.4	0	0	0	0	0	0	0
22	0	0	0	0	1.7	0	0	0	0	0	0	0
23	0	0	0	0	4.2	0	0	0	0	0	0	0
24	0	0	0	0	2.9	0	0	0	0	0	0	0
25	0	0	0	0	2.2	0	0	0	0	0	0	0
26	0	0	0	0	1.9	0	0	0	0	0	0	0
27	0	0	0	0	1.5	0	0	0	0	0	0	0
28	0	0	0	0	1.2	0	0	0	0	0	0	0
29	0	0	0	0	0.8	0	0	0	0	0	0	0
30	0	0	0	0	0.6	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	+	0	+	61.1	4.7	5.5	0	0	0	0	0
MEAN	0	+	0	+	2.11	0.15	0.18	0	0	0	0	0
Accm-Foot	0	+	0	+	121	4.3	11	0	0	0	0	0

Remarks: + indicates discharge 0.05 second-foot or less.

YEAR 1936 MEAN 0.31
FLOOD CONTROL DISTRICT ACUM-FEET 141



STA. NO. F 67 R
 LITTLE SANTA ANITA CR.
 1/4 MI. BELOW SIERRA MADRE DAM
 DISCHARGE IN SECOND-FOOT
 DATE OF MEASUREMENT

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 19 R**

Station **F19R**
LITTLE TUJUNGA CREEK at Foothill Blvd.

Discharge measurements of **LITTLE TUJUNGA CREEK**
at **Foothill Blvd.** during the year ending September 30, 19**35**

Location
On downstream end of Foothill Boulevard bridge, 4 miles east of San Fernando.

Drainage area
21 square miles

Channel and control
Composed of sand and silt
A plank control was installed in September 1933. A 40 foot section was washed out Jan. 1, 1934

Discharge measurements
At low flows by wading.
At high flows from highway bridge.

Recorder
Installed December 1928 in a F. C. Standard type house.
Horizontal rational recorder replaced in October 1934 by a H.C.F. continuous recorder.

Regulation
None

Diversions
None

Records available
December 26, 1928 to September 30, 1936

Extremes of discharge
1929-30 No appreciable flow.
1930-31 Maximum 30 second-feet, February 4.
Minimum No flow most of year.
1931-32 Maximum 660 second-feet, February 9
Minimum No flow most of year
1932-33 Maximum 450 second-feet, January 19
Minimum No flow most of year.
1933-34 Maximum 1360 second-feet, January 1
Minimum No flow most of year
1934-35 Maximum 89 second-feet, December 13
Minimum No flow most of year
1935-36 Maximum 653 second-feet February 2
Minimum no flow most of year

Accuracy
Poor due to badly shifting control
Estimated: November 10-16, 1934; February 15, 26-28, 1936.

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

No.	Date	Made by	Waltz Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating Point	Rating Method	Mean gage No.	G. H. change Total	Begin-End	Meter No.
1	11/16	Inoe - Miller	32.7	9.17	5.12	2.68	47.			.6	13	0	115A 125A 600A FC 13
2	11/16	" "	9.0	1.02	1.70	2.67	1.7			.6	7	0	600A 820A 1045E "
3	12/13	" "	15.5	10.23	7.50	2.91	77.			.6	8	+05	1180A 986A "
4	12/13	" "	15.0	6.65	5.12	2.45	41.			.6	8	0	1100E 1180A "
5	1/15	" "	21.0	4.54	5.66	2.79	16.			.6	8	-02	986A 940A 1100E 106P "
6	1/16	" "	10.5	1.79	2.85	2.80	5.1			.6	10	0	1100E 1100E "
7	1/18	" "	8.0	1.22	1.45	2.82	1.9			.6	7	0	1100E 106P "
8	2/6	" "	11.5	1.95	2.04	2.88	4.0			.6	7	+04	1100E 1030A 1100E 735A "
9	2/7	Livingston	11.4	1.79	1.97		3.5			.6	10	0	1100E 745A 420P "
10	3/2	Inoe - Miller	24.0	6.31	4.05	3.16	22.			.6	9	-03	745A 420P 440P 1150A 1200M "
11	3/2	" "	41.0	18.5	4.20	3.30	77.			.6	12	0	"
12	3/7	" "	9.5	1.41	1.91	3.02	2.7			.6	7	-01	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 19 R**

Discharge measurements of **LITTLE TUJUNGA CREEK**
at **Foothill Blvd.** during the year ending September 30, 19**36**

No.	Date	Made by	Waltz Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating Point	Rating Method	Mean gage No.	G. H. change Total	Begin-End	Meter No.
1	2-1	Luce-Miller	21.0	6.14	4.75	3.00	29.			.6	8	0	300P 310P 640P FC 13
2	2-1	" "	8.3	1.35	2.13	2.90	2.9			.6	5	0	650P 725A 740A "
3	2-2	" - Busch	48.5	16.2	4.57	3.14	74.			.6	11	-01	1015A 1015A "
4	2-2	" "	32.5	6.38	3.50	3.02	22.			.6	10	-05	1035A 335P 140P "
5	2-2	" "	10.5	1.32	1.87	3.05	2.5			.6	7	0	140P 150P 710P "
6	2-11	" "	50.0	18.3	5.09	3.15	93.			.6	12	+10	725P 710P "
7	2-11	" "	52.0	17.4	4.75	3.38	82.			.6	13	-05	725P 950A 1020A FC 35
8	2-12	Miller-Livingston	24.5	7.19	4.98	3.24	36.			.6	10	0	325P 352P 500P FC 25
9	2-12	Luce	52.5	56.3	7.06	3.96	397.			.6	16	+05	500P 600P FC 35
10	2-12	Miller-Livingston	24.9	39.7	7.13	3.70	383.			.6	13	-10	1227A 1227A FC 13
11	2-13	Luce-Busch	28.0	8.20	3.69	3.05	30.			.6	10	+10	350P 400P 950P FC 25
12	2-13	" - Miller	33.2	6.40	2.69	3.10	17.			.6	12	0	1120P 200P FC 13
13	2-14	" - Busch	53.5	40.0	6.98	4.06	279.			.6	14	-02	1120P 200P FC 13
14	2-15	" - Livingston	25.5	5.25	3.07	3.10	16.			.6	8	0	820A 842A 1115A FC 35
15	2-16	Miller-Livingston	24.5	14.0	6.52	3.32	91.			.6	17	0	1125A 1125A FC 13
16	2-17	Miller	23.5	3.82	2.55	3.33	9.7.			.6	14	-06	1135A 1125A FC 13
17	2-18	Luce-Busch	16.5	3.86	3.10	3.29	12.			.6	9	-02	1135A 1225P 1225P 1120P "
18	2-20	Luce	14.0	1.84	1.24	3.40	2.3			.6	8	0	1140P 300A 315A 1000A "
19	2-22	Luce-Busch	55.0	36.4	5.22	3.80	193.			.6	12	+10	850A 900A FC 13
20	2-23	" - Miller	39.5	12.3	5.71	3.42	70.			.6	15	+05	750A 800A "
21	2-24	Miller	24.0	3.34	1.77	3.34	5.9			.6	11	-02	1020A 850A FC 35
22	2-26	Luce	10.0	1.09	1.84	3.38	2.0			.6	10	0	900A 750A 800A "
23	3-31	Luce-Busch	12.1	3.25	4.88	3.34	16.			.6	7	+05	1130A 1130A 1005A "
24	4-1	Livingston	2.0	.25	.84	3.25	.21			.6	4	0	"
25	4-4	Luce	12.0	1.92	2.54	3.24	4.6			.6	6	+02	1005A "

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F 19 R

Daily discharge, in second-feet of LITTLE TUJUNGA CREEK at Foothill Blvd. for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	33	0	0	0	0	0	0
3	0	0	0	0	0	5	0	0	0	0	0	0
4	0	0	0	0	0	2.6	0	0	0	0	0	0
5	0	0	0	16	4.2	1.2	0	0	0	0	0	0
6	0	0	0	1.4	.8	0	0	0	0	0	0	0
7	0	0	0	.8	.5	2.0	0	0	0	0	0	0
8	0	0	.2	.5	.1	3.0	13	0	0	0	0	0
9	0	0	0	.5	0	1.8	2.2	0	0	0	0	0
10	0	0	0	.2	0	0	.1	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	65	0	0	0	0	0	0	0	0	0
14	0	0	29	0	0	0	0	0	0	0	0	0
15	0	0	0	26	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	3.2	0	0	0	0	0	0	0	0
18	.4	0	0	2.0	0	0	0	0	0	0	0	0
19	0	.4	0	1.0	0	0	0	0	0	0	0	0
20	0	0	0	.5	0	0	0	0	0	0	0	0
21	0	0	0	.2	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	1.3	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
	.4	7.4	92.2	57.3	5.6	50.9	16.3	0	0	0	0	0

MEAN	.01	.25	2.97	1.85	.20	1.54	.51	0	0	0	0	0
ACR-FEET	.79	15.	183.	114.	11.	101.	20.	0	0	0	0	0

Remarks: + indicates discharge 0.05 sec. ft. or less. YEAR 1935 MEAN .628
 ACR-FEET 455.

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

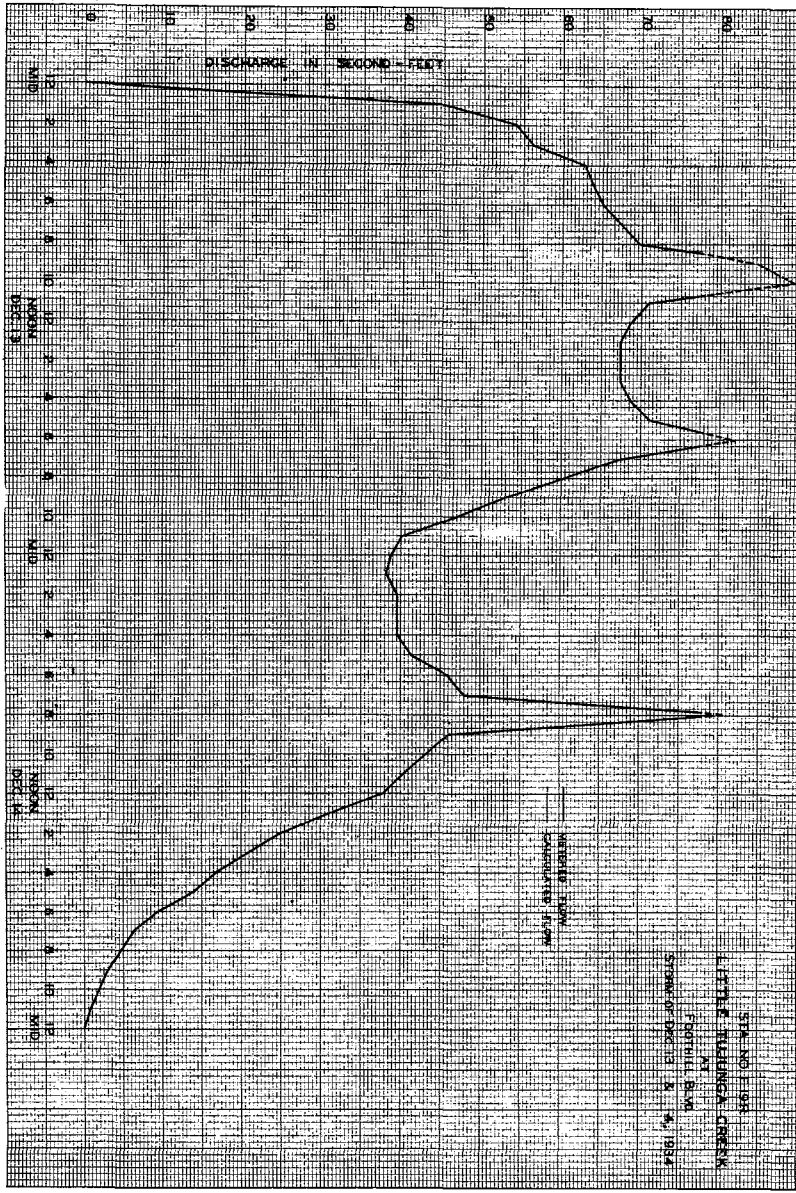
Sta. No. F19R

Daily discharge, in second-feet of LITTLE TUJUNGA CREEK at Foothill Blvd. for the year ending September 30, 1936

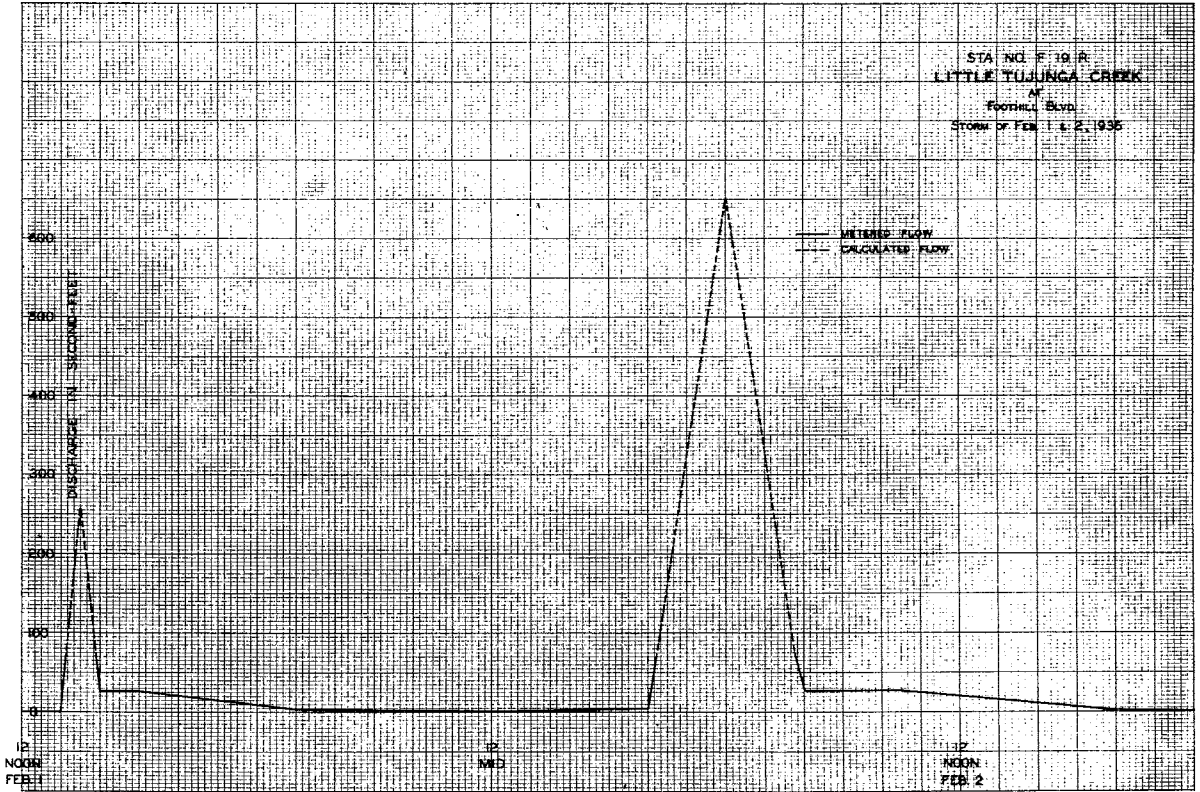
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	2.0	0.2	0.2	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	2.6	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	4.3	0	0	0	0	0	0	0
12	0	0	0	0	3.3	0	0	0	0	0	0	0
13	0	0	0	0	2.3	0	0	0	0	0	0	0
14	0	0	0	0	1.6	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	4.4	0	0	0	0	0	0	0
17	0	0	0	0	1.5	0	0	0	0	0	0	0
18	0	0	0	0	1.6	0	0	0	0	0	0	0
19	0	0	0	0	1.6	0	0	0	0	0	0	0
20	0	0	0	0	1.6	0	0	0	0	0	0	0
21	0	0	0	0	1.3	0	0	0	0	0	0	0
22	0	0	0	0	4.5	0	0	0	0	0	0	0
23	0	0	0	0	4.5	0	0	0	0	0	0	0
24	0	0	0	0	1.5	0	0	0	0	0	0	0
25	0	0	0	0	3.1	0	0	0	0	0	0	0
26	0	0	0	0	4.4	0	0	0	0	0	0	0
27	0	0	0	0	2.4	0	0	0	0	0	0	0
28	0	0	0	0	1.2	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	1.0	0	0	0	0	0	0
31	0	0	0	0	0	1.8	0	0	0	0	0	0
	0	0	0	0	43.6	28.2	2.8	0	0	0	0	0

MEAN	0	0	0	0	15.1	0.91	0.09	0	0	0	0	0
ACR-FEET	0	0	0	0	867	56	5.6	0	0	0	0	0

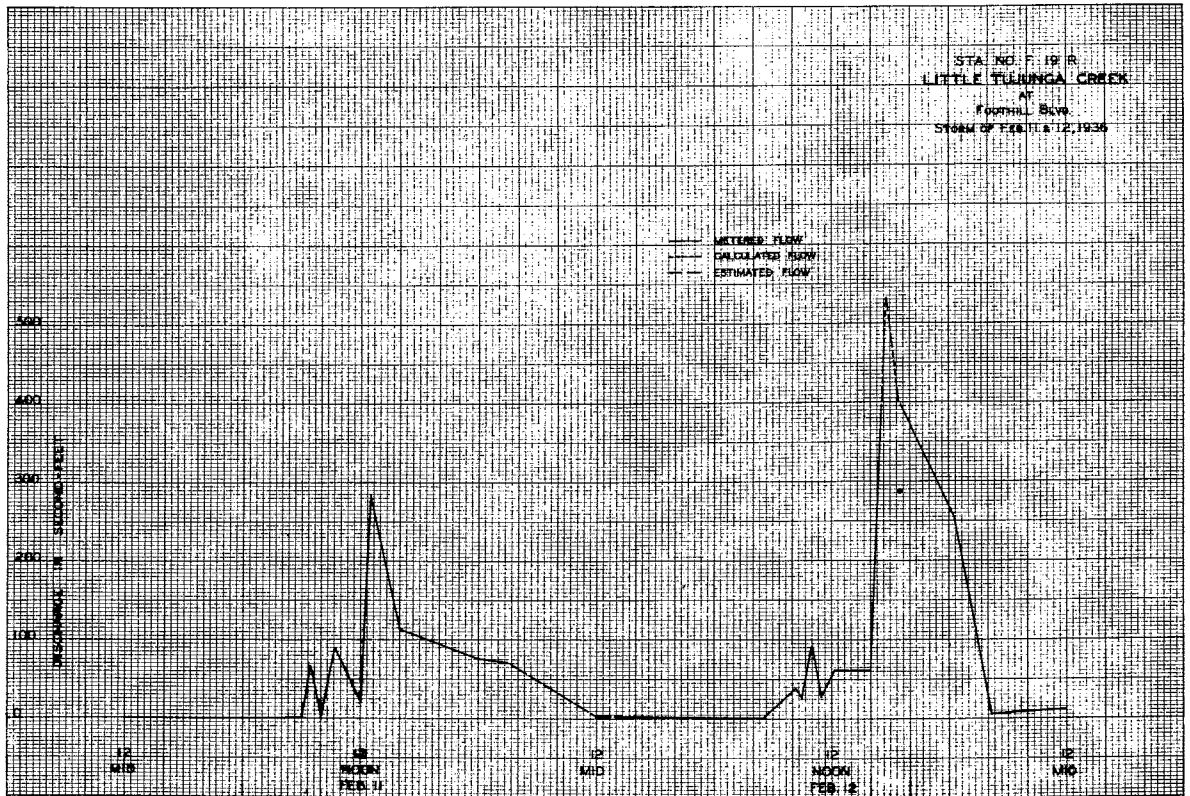
Remarks: + Indicates discharge 0.05 second-feet or less. YEAR 1936 MEAN 1.28
 # Undeterminable small flow, used as 0 for purpose of determining the yearly total. ACR-FEET 923



REPORT OF WORK ON S.E. 1/4, 30-30-11
BY W. B. WALKER
MARCH 1935



REPORT OF WORK ON S.E. 1/4, 30-30-11
BY W. B. WALKER
MARCH 1935



Station **F31R**
LIVE OAK CREEK near mouth of canyon

Location
 On west bank of stream near mouth of canyon, about 1/2 mile below Live Oak Dam, and about 3 miles northeast of La Verne.

Drainage area
 2.57 square miles

Channel and control
 Channel - sand and gravel.
 Cipolletti weir, 12 inches deep in a small concrete control.

Discharge measurements
 At low flow by wading.

Recorder
 Installed January 4, 1928 in concrete F. C. Standard type house over concrete stilling well.
 Horizontal rational recorder during the water years 1934-35, 1935-36.

Regulation
 Flow regulated by Live Oak Dam.

Diversions
 None

Records available
 January 4, 1928 to September 30, 1936.

Extremes of discharge
 1928-29 No flow
 1929-30 No flow
 1930-31 No flow
 1931-32 No flow
 1932-33 Maximum 22 second-feet February 8
 Minimum No flow most of year.
 1933-34 Maximum 0.2 second-feet January 20
 Minimum No flow most of year
 1934-35 Maximum 35 second-feet December 29
 Minimum No flow most of year
 1935-36 No flow during year
 Maximum 0.6 second-feet February 12
 Minimum No flow most of year

Accuracy
 Fair

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

F. C. Form No. 104 (1-36)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
 HYDRAULIC DEPARTMENT

Station No. **F31R**

Discharge measurements of LIVE OAK CREEK
 at mouth of canyon near _____ during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Cage height feet	Discharge Sec. ft.	Rating Project off.	Method	Moss No.	G. H. Change Total	Begin End	Meter No.
1	2/16	Brawner	1.5	.25	1.12	.20	.28			3	-0.01	445P 50P	F0 8

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.
LIVE OAK CREEK near mouth of canyon

Sta. No. **F 31 R**
 for the year ending September 30, 1936

Daily discharge in second-feet of _____

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Year
1													0
2													0
3													0
4													0
5													0
6													0
7													0
8													0
9													0
10													0
11													0
12													0
13													0
14													0
15													0
16													0
17													0
18													0
19													0
20													0
21													0
22													0
23													0
24													0
25													0
26													0
27													0
28													0
29													0
30													0
31													0
Month	Est. 0	0	0	0	0	0	0	0	0	0	0	0	0
Year	Est. 0	0	0	0	0	0	0	0	0	0	0	0	0

Remarks: + indicates discharge 0.05 sec. ft. or less.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.
LIVE OAK CREEK near mouth of canyon

Sta. No. **F31R**
 for the year ending September 30, 1936

Daily discharge in second-feet of _____

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Year
1													0
2													0
3													0
4													0
5													0
6													0
7													0
8													0
9													0
10													0
11													0
12													0
13													0
14													0
15													0
16													0
17													0
18													0
19													0
20													0
21													0
22													0
23													0
24													0
25													0
26													0
27													0
28													0
29													0
30													0
31													0
Month	Est. 0	0	0	0	0	0	0	0	0	0	0	0	0
Year	Est. 0	0	0	0	0	0	0	0	0	0	0	0	0

Remarks: + indicates discharge 0.05 second-feet or less.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 57 R**

Station **F57R**
LOS ANGELES RIVER at Figueroa St.

Discharge measurements of **LOS ANGELES RIVER**

at **Figueroa St.**, during the year ending September 30, 19**35**

Location

On west abutment of Figueroa Street (formerly Dayton Avenue) bridge. The station is above the junction of the Los Angeles River and the Arroyo Seco.

Drainage area

510 square miles

Channel and control

Channel - sand, silt and rocks. There are also old piling in the channel, the stumps of which are kept out off down to the stream bed.
In December, 1934 an artificial control was constructed 25 feet below the gage. It consisted of rocks placed against cable stretched between piling stumps.

Discharge measurements

At low flow by wading.
At high flow from cable car at bridge.

Recorder

A Stevens continuous recorder was installed in December 1929 in a P. C. Standard type house over a corrugated iron pipe stilling well; on October 2, 1934 it was replaced by an H.C.F. continuous recorder.

Regulation

Flow is partially regulated by Big Tujunga Dam No. 1, by Pacoima Dam and in the water year 1934-35 by Haines and Verdugo Debris Basins and in the water year 1935-36 by Haines, Verdugo, Pickens, Hall-Beckley, Dunsuir and Brand Debris Basins. Los Angeles Aqueduct water used in the power house at Diaz Avenue is discharged into the river above station F124R.

Regulation and diversions or

Twin Lakes Dam, Chatsworth Reservoir, Upper and Lower San Fernando Reservoirs, Encino Reservoir and a dam on a tributary to Linekiln Creek.

Diversions

There are several small diversions on the mountain tributaries for irrigation.
Underflow near Griffith Park diverted by L.A.W.D.

Records available

December, 1929 to September 30, 1936.

Extremes of discharge

1929-30
Maximum 500 second feet March 15
Minimum No flow at various times during year.
1930-31
Maximum 4540 second feet February 4
Minimum No flow at various times during year
1931-32
Maximum 3020 second feet February 8
Minimum No flow at various times during year
1932-33
Maximum 5780 second feet January 19
Minimum No flow at various times during year
1933-34
Maximum 22000 second feet January 1
Minimum No flow October 20
1934-35
Maximum Est. 2400 second feet April 8
Minimum .1 second foot February 24
1935-36
Maximum 2540 second feet March 30
Minimum .4 second feet September 27

Accuracy

1934-35 Poor.
1935-36 good except for low flows which are fair.
Estimated: October 17-22, December 15, 16, 1934;
January 22, April 5-8, May 4-6, May 30 - June 6,
June 20 - July 19, 1935.

Operation

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

No.	Date	Made by	Water Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating Percent full	Method	Mean area No.	C. H. Cochrane Data	Depth	Meter No.
1	1934 10/4	G. E. Bollinger	3.6	0.56	0.74	3.16	.26	.6	4	-		850A	
2	10/10	"	2.5	0.25	0.80	3.14	.20	.6	3	0		855A	FC 10
3	10/17	Bollinger - Carlson	35.4	12.3	1.39	3.53	17.	.6	12	0		908A	
4	10/17	"	34.5	12.3	1.34	3.61	16.	.6	12	-.01		935A	
5	10/17	"	125.	200.5	5.15	5.88	1080.	.6	6	-.30		437P	
6	10/17	"	125.	147.	5.30	5.47	779.	.6	6	-.11		454P	
7	10/18	"	31.5	25.6	2.59	3.24	66.	.6	11	-.06		500P	
8	10/24	G. E. Bollinger	2.6	0.68	1.05	2.91	.70	.6	4	0		525P	
9	10/24	"	27.5	17.7	1.70	3.19	50.	.6	9	+.04		540P	
10	11/8	"	5.5	0.86	0.71	2.94	.60	.6	5	0		530P	
11	11/15	"	2.1	0.54	1.05	2.90	.55	.6	4	0		545P	
12	11/15	Bollinger-Merideth	33.0	24.6	2.37	3.56	53.	.6	10	+.22		560P	
13	11/16	"	69.5	49.0	2.14	3.58	105.	.6	14	-.08		575P	
14	11/16	"	27.0	26.2	1.55	3.19	55.	.6	12	-.03		590P	
15	11/19	"	68.0	42.8	2.16	3.47	92.	.6	16	-.05		605P	
16	11/22	"	2.5	0.63	1.01	2.76	.65	.6	4	0		620P	
17	11/28	"	4.0	0.98	0.78	2.85	.75	.6	6	0		635P	
18	12/5	"	3.5	0.80	0.78	2.94	.60	.6	5	0		650P	
19	12/12	"	14.5	9.39	1.72	3.06	15.	.6	8	-.01		665P	
20	12/15	-Merideth	64.5	45.5	2.05	3.48	92.	.6	15	+.05		680P	
21	12/15	"	75.0	55.4	4.04	3.90	337.	.6	10	-.08		695P	
22	12/16	"	76.0	105.86	8.22	4.10	708.	.6	9	-.08		710P	
23	12/20	G. E. Bollinger	11.2	5.26	1.05	2.37	3.4	.6	7	0		725P	
24	12/22	Bollinger-Merideth	71.0	77.0	3.29	3.68	254.	.6	13	-.18		740P	
25	1934 12/29	Bollinger-Merideth	25.0	10.7	1.55	2.54	14.	.6	12	0		755P	FC 10
26	1/3	"	3.2	4.41	1.39	2.42	6.1	.6	8	0		770P	
27	2/5	-Merideth	80.0	201.	4.74	5.90	954.	.6	8	-.51		785P	
28	2/5	"	74.0	170.	5.37	4.91	918.	.6	8	-.26		800P	
29	2/7	"	31.5	15.9	2.65	2.75	42.	.6	16	0		815P	
30	2/9	"	66.0	42.	2.62	3.25	110.	.6	23	+.11		830P	
31	2/10	"	34.0	14.8	2.38	2.80	55.	.6	15	-.06		845P	
32	2/14	"	5.0	1.46	1.08	2.52	1.6	.6	7	-.01		860P	
33	2/16	-Merideth	72.0	62.5	4.45	3.81	276.	.6	11	-.08		875P	
34	2/17	"	50.8	2.49	1.23	2.90	10.	.6	18	0		890P	
35	2/23	"	14.5	4.38	1.23	2.56	6.1	.6	9	-.01		905P	
36	2/21	"	27.5	3.05	1.39	2.71	11.	.6	15	0		920P	
37	2/5	-Merideth	70.0	95.2	4.48	4.26	428.	.6	10	+.01		935P	
38	2/5	"	66.5	42.4	3.94	3.37	125.	.6	19	-.02		950P	
39	2/6	"	90.0	66.7	3.77	3.79	252.	.6	15	-.10		965P	
40	2/7	"	31.8	8.05	1.41	2.76	11.	.6	13	0		980P	
41	2/14	"	8.3	2.45	1.26	2.64	3.3	.6	9	-.01		995P	
42	2/19	"	35.5	9.38	1.24	2.84	10.	.6	17	-.09		1010P	
43	2/27	"	9.6	3.46	1.24	2.65	3.0	.6	8	-.02		1025P	
44	3/2	"	94.5	121.	3.78	4.51	700.	Float	4	-		1040P	
45	3/3	"	32.5	12.9	2.08	2.97	27.	.6	11	0		1055P	FC 10
46	3/7	-Carlson	74.0	85.2	4.54	3.98	296.	.6	13	-.10		1070P	
47	3/8	"	36.5	16.8	2.75	3.12	46.	.6	16	-.02		1085P	
48	3/14	"	25.7	9.32	1.36	2.95	15.	.6	18	0		1100P	

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 57 R

Discharge measurements of LOS ANGELES RIVER

at Figueroa St. during the year ending September 30, 19 35

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 57 R

Discharge measurements of LOS ANGELES RIVER

at Figueroa St. during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, Mean No., G. H. Total, Reg. No., Meter No. Contains data for years 1935 and 1936.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 57 R

Discharge measurements of LOS ANGELES RIVER

at Figueroa St. during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, Mean No., G. H. Total, Reg. No., Meter No. Contains data for years 1935 and 1936.

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, Mean No., G. H. Total, Reg. No., Meter No. Contains data for years 1935 and 1936.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 57 R**

Discharge measurements of **LOS ANGELES RIVER**

at **Figueroa St.** during the year ending September 30, 19**36**

No.	Date	Made by	Wash Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Stage Height ft.	Discharge Sec. Ft.	Partial Flooded Area	Mean Area No.	Q. Ft. (Stage Feet)	Stage Feet	Meter No.
72	2/27	Bollinger	22.7	8.47	1.50	2.51	13.		0	925A	FC 6	
73	3/4	"	18.0	5.92	1.32	2.43	7.8		0	1105A		
74	3/11	"	14.0	4.58	1.47	2.46	6.7		0	310P		
75	3/19	"	3.3	1.04	1.09	2.24	1.1		0	1020A		
76	3/24	"	22.0	15.7	3.28	2.21	51.		-0.1	255P		
77	3/26	"	4.6	1.61	1.25	2.23	2.0		-0.1	405P		
78	3/30	" & Trumbo	75.5	109.	4.85	4.63	529.		7.4	950P		
79	3/30	"	100.0	263.	6.35	6.22	1670.		11.1	1040P		
80	3/31	"	36.0	39.	2.54	2.94	99.		-0.2	800A		
81	4/2	"	12.8	3.8	.97	2.37	3.7		0	435P		
82	4/9	"	11.0	2.39	1.17	2.25	2.8		-0.1	300P		
83	4/17	"	24.5	9.11	1.40	2.39	13.		0	1200N		
84	4/23	"	29.0	10.1	1.64	2.39	17.		0	845A		
85	4/30	"	23.0	7.06	1.43	2.26	10.		0	905A		
86	5/7	"	5.8	1.17	1.08	2.20	1.3		0	913A		
87	5/14	"	8.5	1.41	.92	2.20	1.3		-0.1	1045A		
88	5/21	"	7.4	1.39	1.06	2.22	1.5		0	855A		
89	5/28	"	7.6	1.47	.87	2.12	1.3		0	839A		
90	5/3	"	7.4	1.42	.93	2.12	1.3		0	322P		
91	5/11	"	5.6	1.21	.88	2.12	1.1		0	322P		
92	5/18	"	6.1	1.39	.98	2.13	1.4		0	923A		
93	5/25	"	6.3	1.65	1.04	2.16	1.7		-0.1	218P		
94	7/2	"	11.0	1.70	.75	2.17	1.3		0	855A		
95	7/9	Luoe	11.0	1.57	.80	2.14	1.3		0	1150A	FG 13	
96	7/16	Luoe	10.0	1.82	1.00	2.16	1.8		0	1120A	FG 13	
97	7/23	Bollinger	6.8	1.16	1.02	2.17	1.2		-0.1	915A	FG 6	
98	7/30	"	5.0	1.10	1.12	2.23	1.2		-0.2	850A		
99	8/7	"	6.4	1.24	.93	2.18	1.2		0	816A		
100	8/13	"	4.7	1.12	.73	2.18	.80		0	855A		
101	8/20	"	4.5	.65	.83	2.18	.55		0	820A		
102	8/27	"	4.0	.87	.86	2.19	.75		0	825A		
103	9/3	"	3.4	.73	.69	2.17	.50		0	238P		
104	9/10	"	3.6	.86	.84	2.19	.70		0	244P		
105	9/17	"	2.8	.56	.86	2.40	.48		-15	236P		
106	9/24	"	3.9	.85	.65	2.21	.55		0	480P		
107	9/24	"				.75			0	842A		
108	9/30	"	3.6	.97	.64	2.18	.60		0	915A	FG 6	

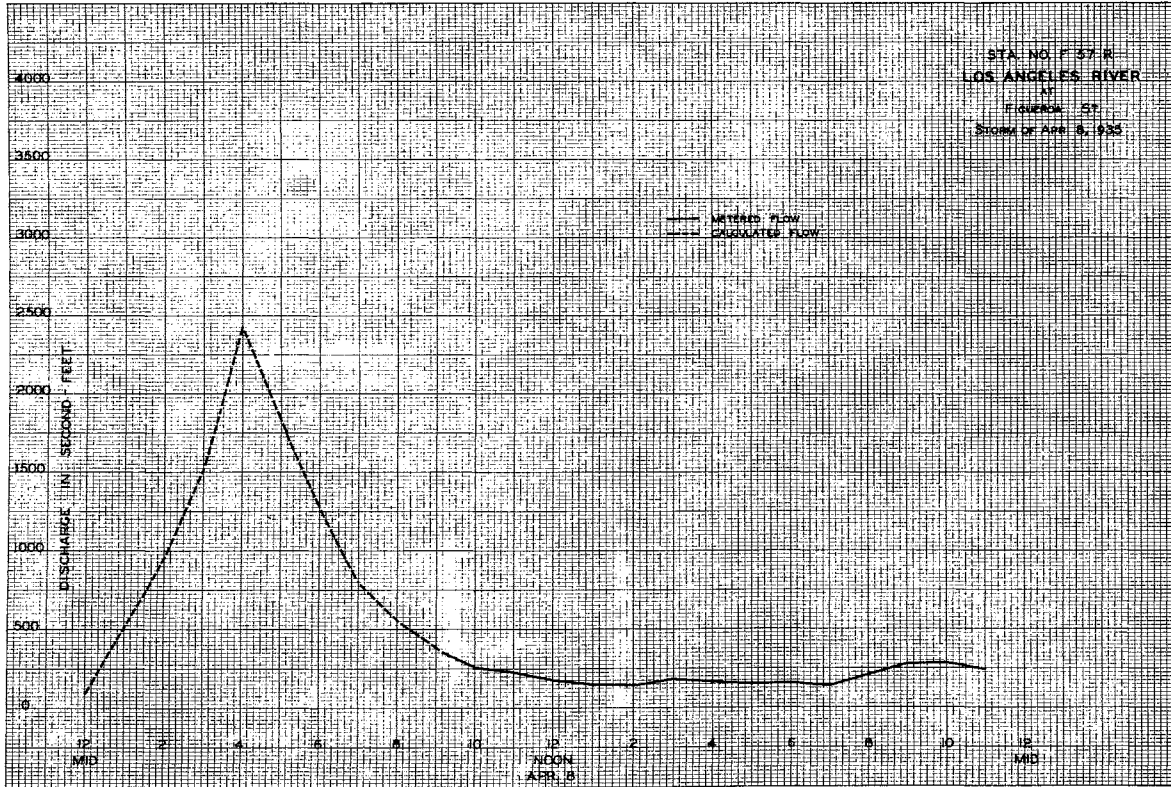
P. C. D. Form 104 (Rev. 11-24)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

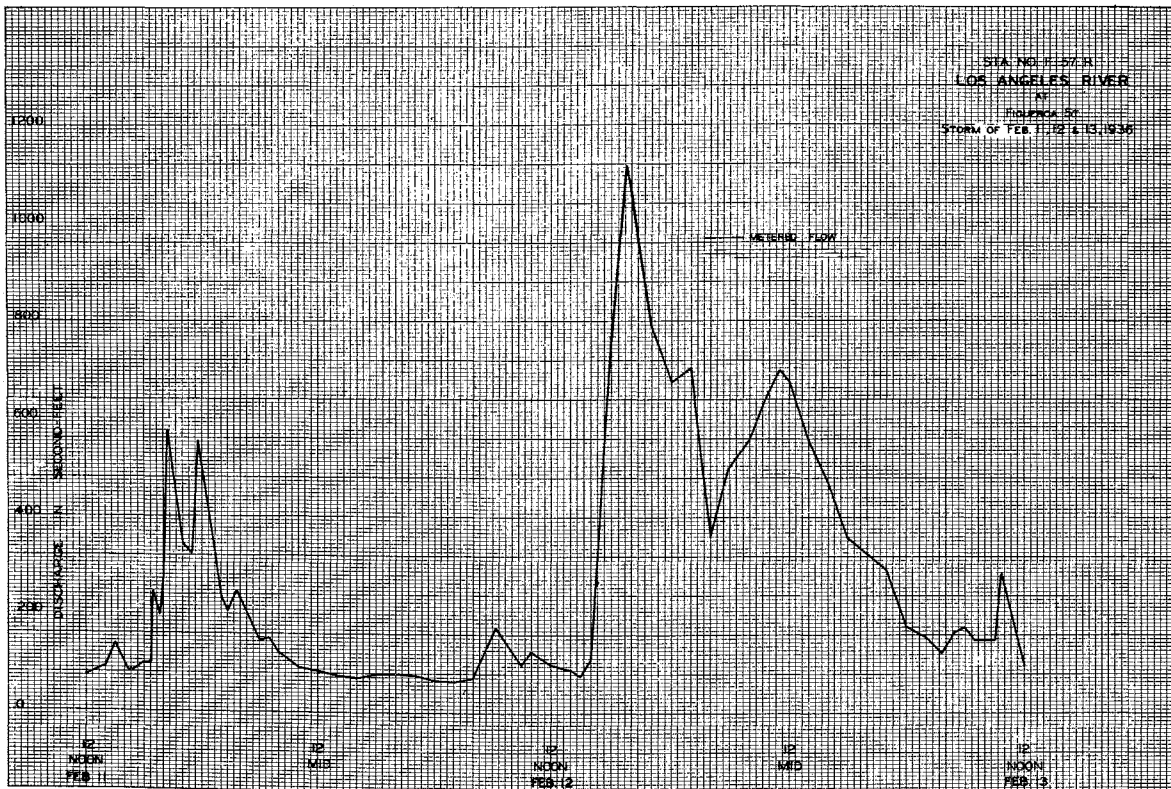
Sta. No. **F 57 R**
for the year ending September 30, 19**36**

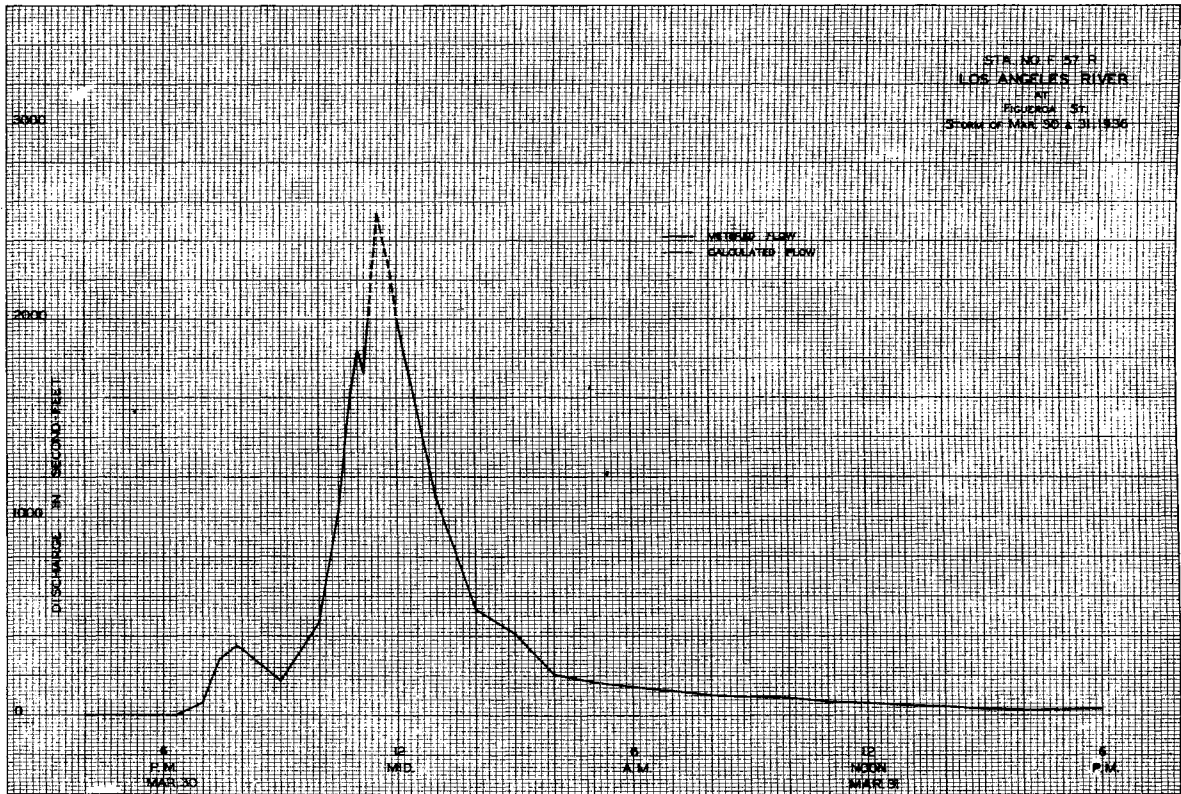
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean	Max.	Min.	Acc. Per.
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2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0												

KEPPEL & BECKER CO., INC. 300 MARKET ST. SAN FRANCISCO, CALIF.



KEPPEL & BECKER CO., INC. 300 MARKET ST. SAN FRANCISCO, CALIF.





DRAWING BY CHAS. W. A. L. OF 88-100-100
 11.8.38.100

Station F180R
LOS ANGELES RIVER at State St., Long Beach

Location

On the downstream side of State Street bridge about 1-3/4 miles above the Pacific Ocean

Drainage area

A natural split near Arrow Highway divides San Gabriel River into 2 branches; the west branch is known as the Rio Hondo and enters the Los Angeles River about 11 miles above station F180R. The Los Angeles River drainage area exclusive of the Rio Hondo is 667 square miles; the San Gabriel River drainage area above the split is 230 square miles; the Rio Hondo drainage area below the split is 141 square miles.

Channel and control

Channel composed of fine sand and silt. No artificial control.

Discharge measurements

At low flow by wading near Gage.
At high flow from upstream side of State Street bridge.

Recorder

Installed October 31, 1931 in a box type house over a corrugated iron pipe stilling wall on downstream end of bridge pier 230 feet west of east end of bridge. Stevens continuous recorder.

Regulation

Flow partially regulated by Big Tujunga Dam No. 1, Pacoima Dam, Devil's Gate Dam, Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dam No. 2 and Morris Dam and in the 1934-35 water year by Haines and Verdugo Debris basins and in the 1935-36 water year by Haines, Verdugo, Pickens, Hall-Beckler, Dunsmuir, Brand, West Ravine, Fair Oaks, Fern, Lincoln, Los Flores and Rubio Debris Basins. Construction on the Eaton Dam was started in the summer of 1936; the regulation resulting therefrom, if any, during 1935-36 water year was negligible. San Gabriel Dam No. 1 was under construction but the 30 foot by-pass tunnel was open at all times, therefore, no regulation resulted. Los Angeles Aqueduct water used in the power house at Diaz Avenue is discharged into the river above station F124R.

Regulation and Diversions or

Twin Lakes Dams, Chatsworth Reservoir, Upper and Lower San Fernando Reservoirs, Encino Reservoir, and a dam on a tributary to Lisekiln Creek.

Diversions

The City of Pasadena diverts water from the Arroyo Seco, from Eaton Creek and from the San Gabriel River. The City of Monrovia diverts water from Monrovia Creek. There are also several small diversions in the mountain tributaries for irrigation. Underflow near Griffith Park diverted by L.A.W.D.

Records available

October 31, 1931 to September 30, 1936

Extremes of discharge

1931-32	Maximum 6380 second-feet February 9
	Minimum 1.2 second-feet September 19
1932-33	Maximum 8710 second-feet January 19
	Minimum .3 second-foot December 26
1933-34	Maximum estimated 37500 second-feet January 1
	Minimum Dry at various times during year
1934-35	Maximum 11000 second-feet April 8
	Minimum 1.5 second-feet November 3
1935-36	Maximum 10400 second-feet February 12
	Minimum 2 second-feet November 29

Accuracy

Poor due to badly shifting control. Difficult to maintain communication especially following high flows due to well and/or communication channel sanding. Clock stopped several times.

Operation

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 180 B

Discharge measurements of LOS ANGELES RIVER

at State St., Long Beach during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mass, C. H. change, Begin, Meter No. Contains 48 rows of discharge data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 180 R

Discharge measurements of LOS ANGELES RIVER

at State St., Long Beach during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mass, C. H. change, Begin, Meter No. Contains 48 rows of discharge data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 180 R

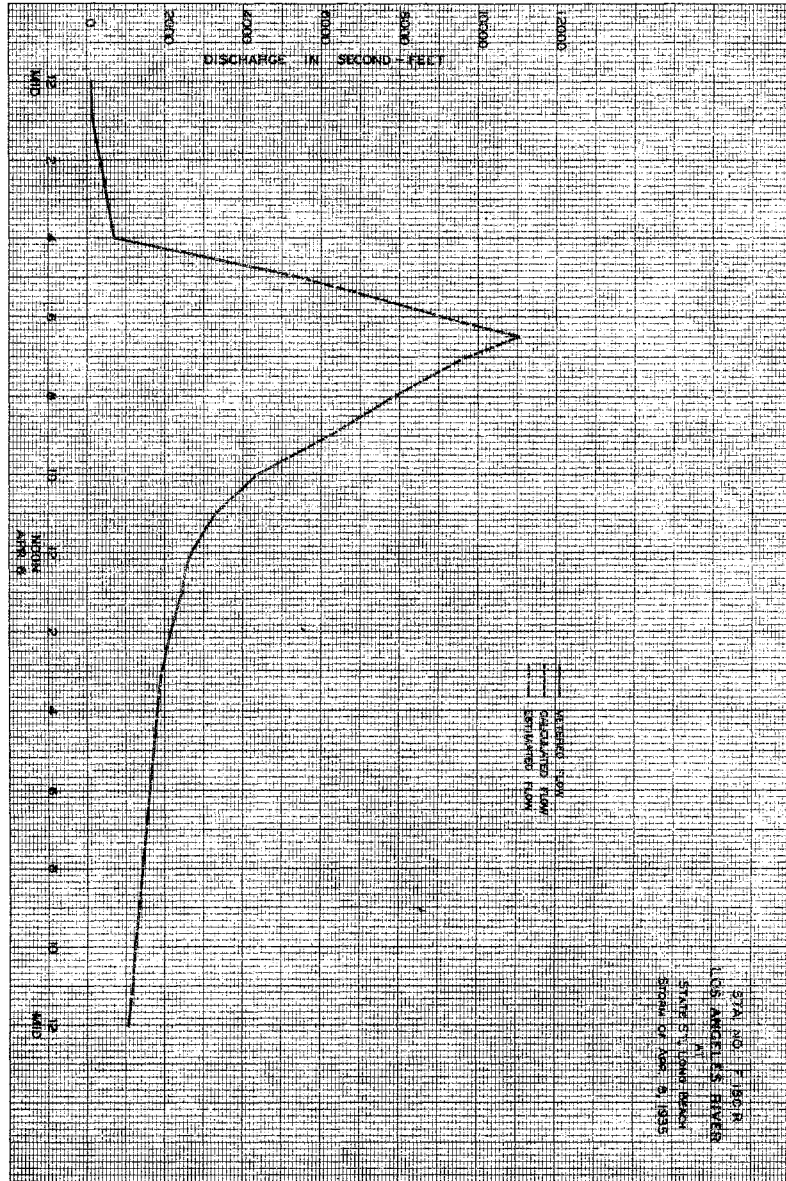
Discharge measurements of LOS ANGELES RIVER at State Street, Long Beach during the year ending September 30, 1936

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 180 R

Discharge measurements of LOS ANGELES RIVER at State Street, Long Beach during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec. Ft., Rating from gage, Method, Min. size No., G. H. stage Total, Begin End, Meter No., No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec. Ft., Rating from gage, Method, Min. size No., G. H. stage Total, Begin End, Meter No.



124

F. C. 100-33

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F 180 R

Daily discharge, in second-feet of LOS ANGELES RIVER at State St., Long Beach for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	3.1	5.1	5.5	16	4.0	4.0	57	4.6	4.2	5.5	5.5
2	7	1.7	2.9	4.6	9	1320.	4.2	16	4.9	4.9	4.2	4.6
3	7	1.6	2.9	4.9	8	378	4.0	16	4.6	4.9	8.5	6
4	7	1.8	2.9	82.	81	35	6.5	5.5	4.9	5.5	6	4.9
5	6.5	2.2	2.9	2220.	510	6	5.5	5.5	4.9	4.6	7	4.9
6	6.5	2.2	2.9	356	452	15	4.9	5.5	5.5	4.6	8	4.6
7	6.5	3.3	3.1	51	180	399	4.6	5.5	6	5.5	10	4.6
8	6	3.3	255	36	145	228	2920.	5.5	5.5	4.2	9	5.5
9	4.9	3.1	84	211	35	180	296	5.5	5.5	3.8	9	4.9
10	4.2	2.9	18	315	92	88	92	4.6	4.6	5.5	7	4.9
11	4.0	2.9	10	92	15	81	60	4.0	4.6	5.5	8	4.9
12	4.0	2.9	94	48	6	24	26	4.6	4.2	3.6	6	4.9
13	4.2	2.7	1350	14	6.5	28	64	4.6	4.2	4.6	7	5.5
14	5.5	2.7	792	6.5	9	18	100	4.6	4.6	4.9	6.5	4.9
15	8	4.0	252	624	6.5	20	57	4.9	4.2	4.2	8	4.9
16	6.5	585.	35	105	4.0	6.5	28	4.9	4.0	4.2	6	4.6
17	550	110	6.5	25	2.0	2.9	20	4.6	5.5	4.2	3.1	4.2
18	557	257	4.9	10	2.7	6.5	12	4.9	3.6	4.9	4.6	4.6
19	145	408	5.5	120	4.6	6.5	14	4.6	3.8	4.6	4.6	4.0
20	8	174	4.9	26	5.5	6	8	4.2	4.2	4.9	4.2	4.0
21	4.2	45	5.6	10	4.2	5.5	4.6	4.9	2.8	4.2	3.1	4.6
22	2.5	9	5.8	4.6	4.2	5.5	6	4.6	3.8	5.5	4.0	4.2
23	2.9	7	4.0	6	4.0	5	6.5	4.6	3.8	5.5	4.2	4.2
24	2.0	6	5.8	9	4.0	250.	9	4.9	4.0	5.5	4.5	4.9
25	3.6	4.2	4.0	6	4.0	20	9	4.6	3.2	6	4.8	4.9
26	3.3	4.0	3.8	7	4.6	4.6	6.5	4.6	3.6	5.5	4.2	4.9
27	2.9	3.8	4.6	8	4.2	4.9	6	4.6	2.9	5.5	4.6	4.9
28	2.2	3.1	541	7	4.9	7	5.5	4.6	3.6	4.9	4.9	4.2
29	2.8	2.1	60	9	4.0	14	15	4.6	4.0	4.6	4.6	5.5
30	2.0	3.1	6.5	24	2	135	4.9	4.6	4.2	4.2	4.2	5.5
31	2.9	4.6	22	22	5.5	4.6	4.2	4.2	4.2	6	4.6	4.6
1375.5												
1611.8												
3300.2												
4450.1												
1724.7												
3161.5												
8945.8												
129.9												
285.9												
150.0												
174.3												
165.4												
MEAN	44.4	53.7	106.	144.	51.6	102.	132.	7.29	4.35	4.84	5.62	4.85
ACER FEET	2720.	3205.	6550.	8820.	5420.	6270.	7820.	448.	258.	298.	346.	288.
Remarks:												YEAR MEAN 55.9
												ACER FEET 40,470.

F. C. Div. Pers. 53 10 11-34

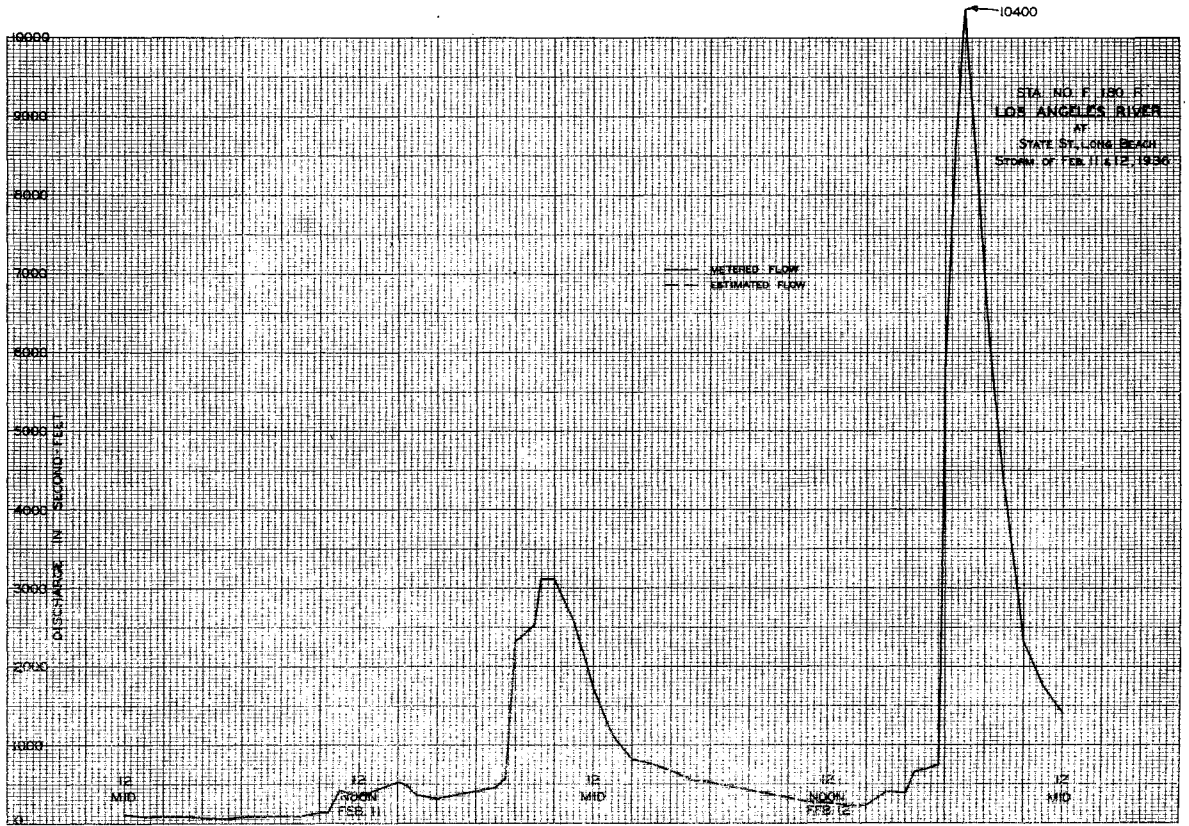
LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F180 R

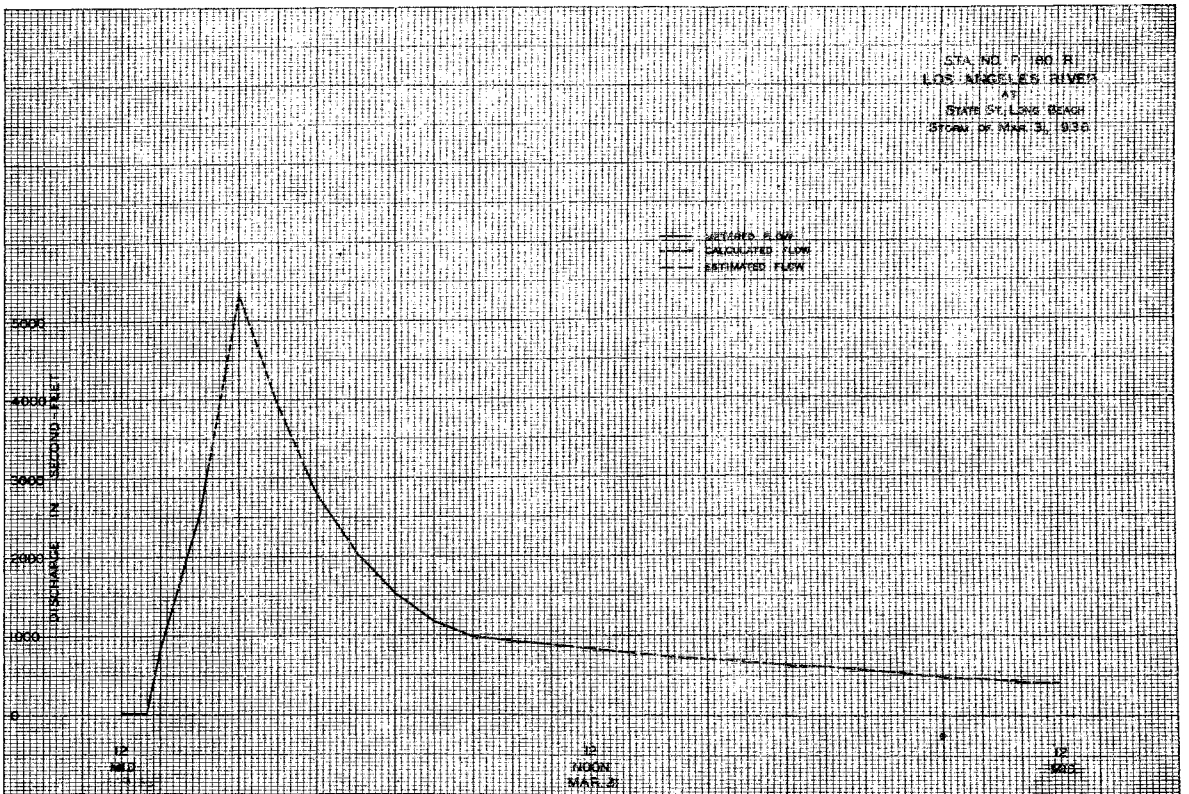
Daily discharge, in second-feet of LOS ANGELES RIVER at State St., Long Beach for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5	5	3	5	2	11	16	100	10	4	5	4
2	5	5	3	5	3	11	16	100	10	4	5	4
3	5	5	3	5	3	11	16	100	10	4	5	4
4	5	5	3	5	3	11	16	100	10	4	5	4
5	5	5	3	5	3	11	16	100	10	4	5	4
6	5	5	3	5	3	11	16	100	10	4	5	4
7	5	5	3	5	3	11	16	100	10	4	5	4
8	5	5	3	5	3	11	16	100	10	4	5	4
9	5	5	3	5	3	11	16	100	10	4	5	4
10	5	5	3	5	3	11	16	100	10	4	5	4
11	4	5	3	5	3	11	16	100	10	4	5	4
12	4	5	3	5	3	11	16	100	10	4	5	4
13	4	5	3	5	3	11	16	100	10	4	5	4
14	4	5	3	5	3	11	16	100	10	4	5	4
15	4	5	3	5	3	11	16	100	10	4	5	4
16	4	5	3	5	3	11	16	100	10	4	5	4
17	4	5	3	5	3	11	16	100	10	4	5	4
18	4	5	3	5	3	11	16	100	10	4	5	4
19	4	5	3	5	3	11	16	100	10	4	5	4
20	4	5	3	5	3	11	16	100	10	4	5	4
21	4	5	3	5	3	11	16	100	10	4	5	4
22	4	5	3	5	3	11	16	100	10	4	5	4
23	4	5	3	5	3	11	16	100	10	4	5	4
24	4	5	3	5	3	11	16	100	10	4	5	4
25	4	5	3	5	3	11	16	100	10	4	5	4
26	4	5	3	5	3	11	16	100	10	4	5	4
27	4	5	3	5	3	11	16	100	10	4	5	4
28	4	5	3	5	3	11	16	100	10	4	5	4
29	4	5	3	5	3	11	16	100	10	4	5	4
30	4	5	3	5	3	11	16	100	10	4	5	4
31	4	5	3	5	3	11	16	100	10	4	5	4
1122.6												
296.9												
193.6												
6402												
1582.5												
735.2												
156.4												
149.8												
149.9												
155.5												
MEAN	5.12	5.90	5.37	6.23	2.21	51.0	24.5	5.45	5.21	4.83	4.84	5.32
ACER FEET	315	587	330	384	12700	3140	1450	335	310	297	297	316
Remarks:												YEAR MEAN 28.3
												ACER FEET 20,470

REPORT MADE FOR THE
LOS ANGELES WATER SUPPLY
DEPARTMENT



REPORT MADE FOR THE
LOS ANGELES WATER SUPPLY
DEPARTMENT



Station F34R

LOS ANGELES RIVER at Stewart and Gray Road

Location

On downstream side of highway bridge over Los Angeles River at Stewart and Gray Road, about 1/2 mile above junction with the Rio Hondo, and about 3 miles west of Downey. This station is at or near the location of the station operated in 1923 by the State Division of Water Rights.

Drainage area

614 square miles.

Channel and control

Channel is sand and silt. Below the station the slopes were riprapped prior to the 1934-35 water year. Above the station the slopes were being paved during the 1935-36 water year. It is approximately 340 feet between the toes of the 1 on 3 slopes. No artificial control.

Discharge measurements

At low flow by wading.
At high flow from upstream side of bridge.

Recorder

There are two recorder houses: one (the west house) F. O. standard type house over a corrugated iron pipe stilling well on downstream end of bridge pier 76 feet east of the west end, of the bridge; the other (the east house) a box type house over a corrugated iron pipe stilling well on downstream end of bridge pier 70 feet west of the east end of the bridge. The recorder is moved as required to keep it on the side of the channel in which the stream is flowing. The recorder was installed March 1, 1928. During the 1934-35, 1935-36 water years the recorder has been located as follows:
From October 1, 1934 to January 25, 1935 in the west house.
From January 25, 1935 to March 4, 1935 in East House.
From March 4, 1935 to April 9, 1935 in West House.
From April 9, 1935 to January 9, 1936 in East House.
From January 9, 1936 to January 13, 1936 in West House.
From January 13, 1936 to April 2, 1936 in East House.
From April 2, 1936 to August 12, 1936 in West House.
From August 12, 1936 to September 30, 1936 in East House.

An continuous recorder throughout the water years 1934-35 and 1935-36

Regulation

Flow partially regulated by Big Tujunga Dam No. 1, Pacoima Dam and Devil's Gate Dam and in the 1934-35 water year by Haines and Verdugo Debris Basins and in the 1935-36 water year by Haines, Verdugo, Picoche, Hall Beckley, Dunsmuir, Brand, West Ravine, Fair Oaks, Fern and Lincoln Debris Basins. Los Angeles Aqueduct water used in the power house at Diaz Avenue is discharged into the river above station F124R.

Regulation and diversions

or
Twin Lakes Dams, Chatsworth Reservoir, Upper and Lower San Fernando Reservoirs, Escondido Reservoir and a dam on a tributary to Lisekill Creek.

Diversions

The City of Pasadena diverts water from the Arroyo Seco and from Eaton Creek. There are also several small diversions on the mountain tributaries for irrigation. Underflow near Griffith Park diverted by L.A.W.D.

Records available

March 1, 1928 to September 30, 1936 (for previous records see State of California, Division of Water Rights Bulletin No. 5.)

Extremes of discharge

1927-28 Maximum 1120 second-feet February 4
Minimum no flow at various times during year.
1928-29 Maximum 2010 second-feet November 14
Minimum no flow at various times during year.

1929-30

Maximum 2210 second-feet March 15
Minimum no flow at various times during year

1930-31

Maximum 4360 second-feet February 4
Minimum 1.3 second-feet September 3 and 4

1931-32

Maximum 4780 second-feet February 8
Minimum no flow at various times during year

1932-33

Maximum 7070 second-feet January 19
Minimum no flow at various times during year

1933-34

Maximum 29400 second-feet estimated January 1
Minimum no flow at various times during year

1934-35

Maximum 10400 second-feet January 5
Minimum no flow at various times during year

1935-36

Maximum 5730 second-feet February 12
Minimum no flow at various times during the year.

Accuracy

Poor due to badly shifting control. Well usually sanded following storms. Inlet channel usually obstructed at low flows following storms. Clock stopped; November 16, 18, 1934.

Operation

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

E.C.R. Form No. 114 (1-28)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 34 R

Discharge measurements of LOS ANGELES RIVER

at Stewart and Gray Road, during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating Foot-candle	Method	Max. conc. No.	G. M. (ft. above bed)	Stage	Notes
1	10/4	Bonadiman	15.8	2.46	.77	4.08	1.9		.6	6	-	740A	FC 27
2	10/10	"	15.8	2.71	.76	4.00	2.0		.6	4	-	810A	"
3	10/17	"	350.	256.7	2.46	4.98	650.		.6	21	+20	912A	"
4	10/17	Jordan - Potter				5.25	786.		.6	14	-20	1102P	FC 27
5	10/17	Bonadiman				4.74	354.		.6	10	-08	240P	FC 27
6	10/25	"	15.	2.19	.74	2.61	1.6		.6	4	-	810A	"
7	11/1	"	30.	14.4	1.58	5.85	22.		.6	4	-02	840A	"
8	11/6	"				2.62	1.2		.6	6	-	780A	"
9	11/16	" - Fuller	119.	117.	2.66	4.29	450.		.6	7	+04	1252A	"
10	11/16	"				5.63	1.6		.6	5	0	1280A	"
11	11/16	Keoh - Potter	90.	46.8	2.27	4.08	158.		.6	17	-08	1080A	FC 27
12	11/17	Bonadiman - Fuller	118.	154.	2.67	4.72	769.		.6	8	+15	1102P	FC 27
13	11/17	"	118.	179.	2.20	4.80	958.		.6	9	0	1140P	"
14	11/19	"	65.	142.	4.09	4.68	591.		.6	15	-05	682A	"
15	11/19	"				4.07	218.		.6	8	-14	1105A	"
16	11/22	"	15.0	2.08	.77	2.27	2.4		.6	4	0	800A	"
17	11/28	"	6.5	1.42	.65	2.29	1.2		.6	5	0	805A	"
18	12/6	"	17.	2.17	.68	2.41	2.2		.6	5	0	820A	"
19	12/8	"				479.1	250.		.6	15	-15	780A	"
20	12/8	" - Wilkins				4.66	212.		.6	15	-15	740A	"
21	12/12	"	115.	19.0	2.06	5.86	162.		.6	15	-02	105P	"
22	12/12	"				4.24	348.		.6	15	+08	410A	"
23	12/12	"				4.22	316.		.6	15	0	452A	"
24	12/12	Potter - Keoh				2.22	1540.		.6	15	+10	580P	FC 27

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 34 R

Discharge measurements of LOS ANGELES RIVER

at Stewart and Gray Road during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean Velocity, Gate Height, Discharge, Rating, Method, etc. Contains 100 rows of data for the left side of the river.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 34 R

Discharge measurements of LOS ANGELES RIVER

at Stewart and Gray Road during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean Velocity, Gate Height, Discharge, Rating, Method, etc. Contains 100 rows of data for the right side of the river.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 34 R

Discharge measurements of LOS ANGELES RIVER

at Stewart and Gray Road during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean Velocity, Gate Height, Discharge, Rating, Method, etc. Contains 100 rows of data for the right side of the river, including 'East Side Staff' and 'West Side Staff' sections.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 34 R

Discharge measurements of LOS ANGELES RIVER

at Stewart and Gray Road during the year ending September 30, 1936

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 34 R

Discharge measurements of LOS ANGELES RIVER

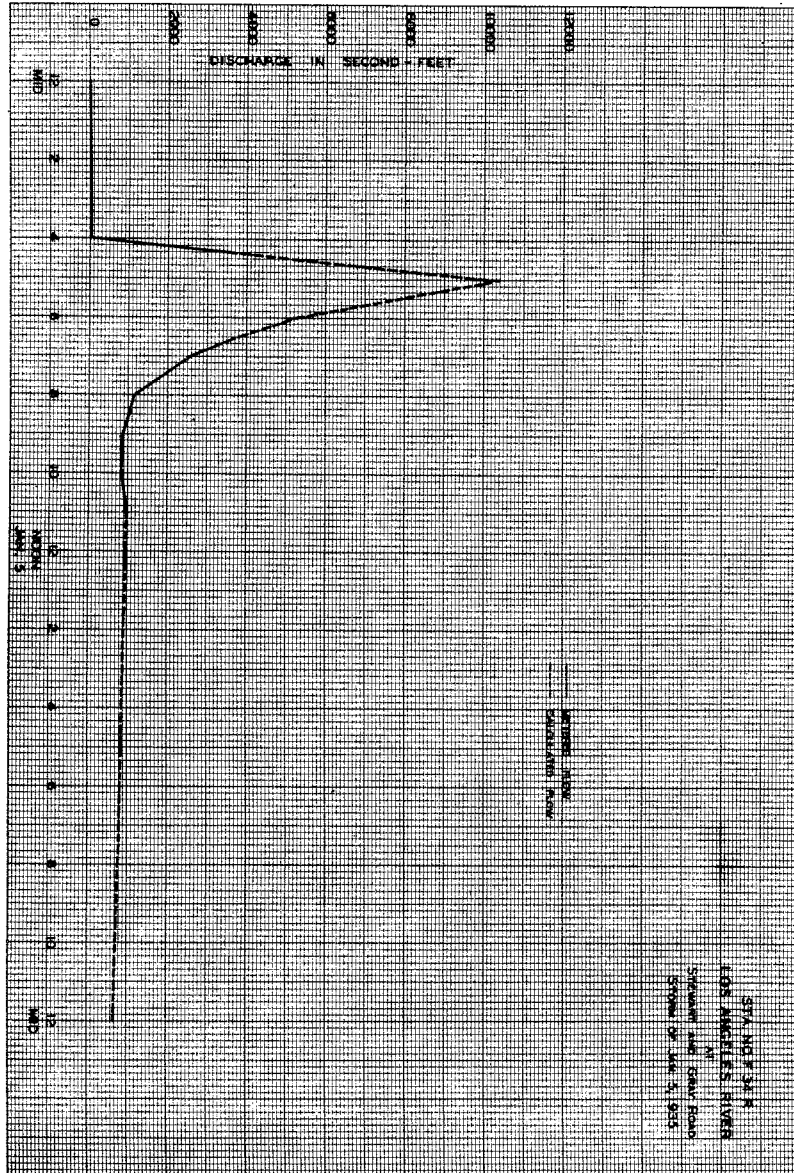
at Stewart and Gray Road during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Mean velocity, G. H., High, Meter No. Contains data for stations 22-78.

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Mean velocity, G. H., High, Meter No. Contains data for stations 79-134.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 54 R



Daily discharge, in second-feet of LOS ANGELES RIVER at Stewart and Gray Road for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	7	2.5	46	4.5	1.8	5.5	25	1.8	1.8	.4	2.2
2	.5	3.5	0	52	3.5	1060	2.0	17	1.8	1.2	1.2	.2
3	1.5	1.0	0	55	.8	155	5	11	.8	2.0	1.2	0
4	1.5	0	2.0	118	155	22	10	2.5	.6	2.0	0	.6
5	1.5	0	1.5	1260	222	20	5	2.5	.6	1.5	0	2.0
6	0	0	1.5	452	237	21	0	2.4	1.2	0	0	4.0
7	0	0	2.0	210	250	245	44	2.5	0	0	.2	2.0
8	0	1.0	272	175	170	106	1420	2.6	1.2	0	.8	2.0
9	0	0	24	297	105	46	222	2.6	1.0	0	.4	0
10	2.5	0	22	58	70	15	75	2.8	.2	.8	0	0
11	2.5	0	21	.5	48	5	50	2.5	.2	1.0	0	.4
12	2.5	0	114	0	45	11	45	2.5	0	1.2	0	.8
13	2.0	0	797	0	24	4.0	27	1.8	.2	1.0	0	2.0
14	.5	0	420	0	17	6	28	1.2	.6	.8	.4	1.8
15	.5	14	16	958	17	2.0	24	1.8	1.2	0	1.2	1.2
16	2.5	292	.5	165	1.8	1.5	20	2.0	.8	0	.6	0
17	255	152	1.0	4.5	0	2.0	17	1.8	.6	.8	.2	0
18	255	22	2.0	35	2.0	2.0	12	1.8	.6	1.0	0	0
19	65	174	1.0	55	0	2.0	12	1.8	.6	1.0	0	0
20	5	10	2.0	20	0	2.5	2.5	1.4	1.5	1.5	0	1.6
21	0	2.0	2.0	21	1.5	4.0	7	.6	1.8	1.8	.6	1.2
22	0	2.5	2.0	15	1.5	2.0	6	.8	2.0	1.0	2.0	1.2
23	0	1.5	0	8	1.5	2.5	5	.8	2.0	1.6	1.8	.6
24	0	1.5	1.5	5.5	0	185	7.5	1.8	.6	1.0	1.8	.4
25	2.5	0	2.0	2.5	0	2.5	6	1.8	0	1.0	1.8	.6
26	2.0	1.0	2.0	9.5	2.5	2.5	5	1.5	.2	1.0	0	1.2
27	2.0	2.0	2.0	2.5	1.5	1.5	5.5	1.2	.8	1.2	.2	2.0
28	1.0	4.8	294	2.5	1.0	7	5	.8	2.0	1.0	1.2	1.2
29	2.5	2.5	110	4.5	1.5	1.5	91	.8	2.8	0	1.5	.4
30	4.5	2.5	63	4.0	5	5	61	1.2	2.8	0	1.8	0
31	4.5	0	60	6.5	2.5	2.5	61	1.5	0	0	2.0	0
Year	937.5	870.0	2554.5	4158.8	1801.9	2107.0	2248.0	113.9	22.2	27.4	21.0	31.8
Mean	20.2	22.0	76.0	124	64.4	62.0	74.9	3.67	1.07	.88	.68	1.06
Area Feet	1860	1720	4670	8250	2570	4180	4460	226	64	54	42	65
Remarks:												
									Year on Maximum	Mean	40.3	
									Area-Feet	29170		

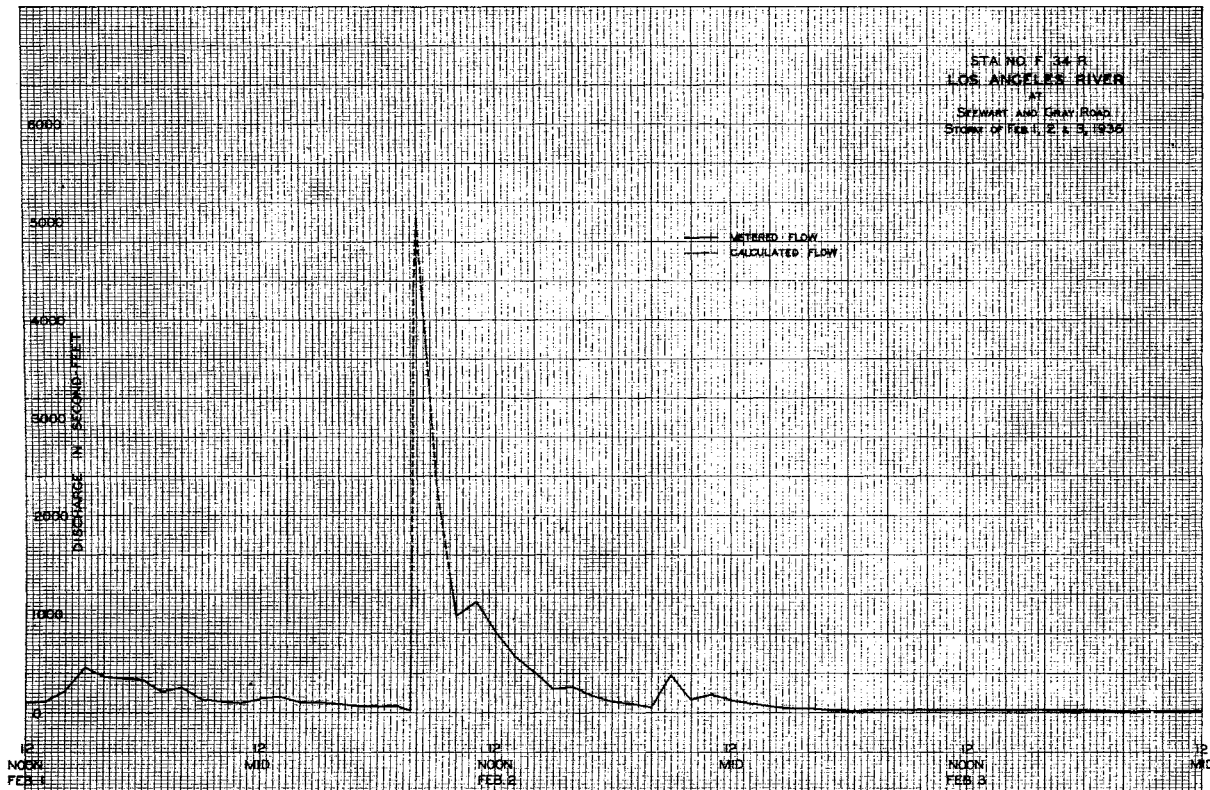
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 34 R

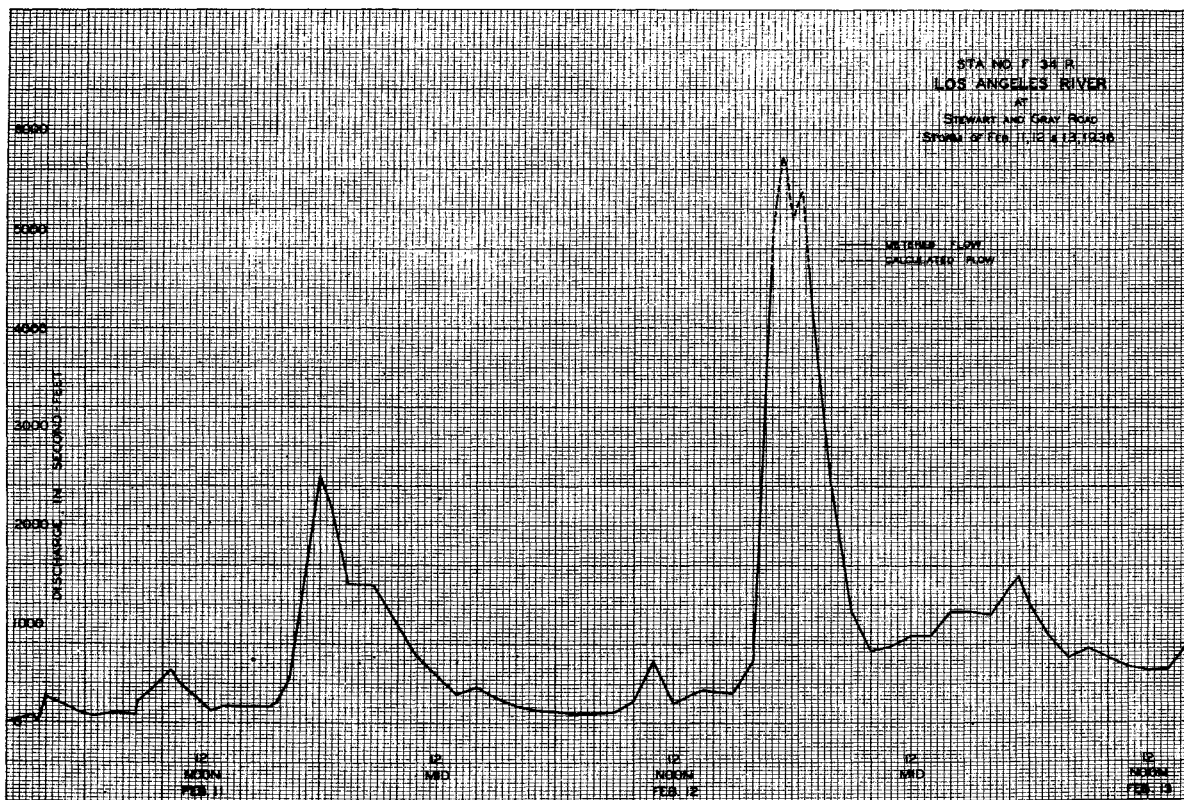
Daily discharge, in second-feet of LOS ANGELES RIVER at Stewart and Gray Road for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	2.5	1.3	0.8	170	4.8	2.5	4.5	1.8	1.8	1.8	3.4
2	0.9	1.8	2.3	0.9	519	4.8	2.4	4.5	1.8	1.8	1.5	3.7
3	1.3	1.5	4.5	1.3	31	4.8	2.3	3.8	2.2	1.8	1.8	1.9
4	1.4	1.3	2.5	1.5	4.0	4.2	4.2	3.8	1.8	1.5	2.2	2.0
5	1.4	1.3	2.0	2.4	3.1	5.5	3.4	3.5	1.2	0.4	5.5	2.6
6	1.4	1.2	2.0	2.4	2.8	2.5	17	3.0	1.5	0	4.5	1.9
7	1.2	1.1	1.7	2.2	1.7	6	8.5	2.2	1.8	0	3.8	1.1
8	1.4	1.4	1.2	3.2	1.7	5.5	3.0	1.8	1.2	0	7.5	1.7
9	1.9	1.2	0.9	3.5	0	1.2	1.2	2.2	1.0	1.4	11	2.5
10	1.9	0.8	0.8	2.9	0.5	1.2	0.7	2.2	1.5	1.2	1.5	3.1
11	1.8	0.8	0.6	2.9	5.6	1.8	1.8	1.2	1.8	1.2	1.8	3.1
12	1.8	0.9	1.7	1.7	1040	6.8	0.8	1.0	2.2	1.0	2.2	3.1
13	1.6	0.8	2.3	1.0	588	6.5	0.7	1.0	2.2	0.8	1.6	1.8
14	1.2	1.0	2.0	2.6	470	6	2.2	1.5	2.2	1.8	1.3	1.9
15	1.1	1.1	1.9	2.4	3.6	4.2	2.2	1.5	2.2	1.5	1.0	2.5
16	1.3	1.1	2.3	3.4	5.5	3.7	1.8	3.0	1.8	1.5	7	3.1
17	1.7	1.2	2.3	3.4	4.0	2.8	1.4	2.0	1.8	1.5	4.8	3.1
18	1.6	1.1	2.8	3.7	194	2.6	1.8	3.8	1.5	1.8	4.5	2.8
19	1.7	1.0	3.4	3.7	3.9	2.6	3.8	2.2	1.8	2.2	4.8	2.8
20	1.4	4.8	3.4	1.6	2.3	2.6	3.5	3.0	1.2	1.5	4.2	1.8
21	0.8	2.0	3.4	3.1	2.2	2.6	7.5	2.2	1.8	2.2	3.4	2.0
22	0.6	2.0	3.1	3.7	2.2	2.6	12	2.2	1.8	3.0	2.2	2.8
23	0.9	2.0	3.1	3.7	4.17	2.8	12	2.2	1.2	2.2	3.4	2.8
24	1.1	1.6	3.1	3.7	1.9	3.5	1.2	1.5	1.5	1.2	3.4	2.8
25	1.3	0.8	3.4	2.8	8.5	6	1.5	1.8	1.0	1.5	5.5	3.1
26	1.8	1.3	3.1	2.0	6	4.5	1.2	2.2	1.2	3.8	9	2.8
27	1.8	1.3	2.8	0.3	6.5	5	1.8	3.0	1.2	3.8	5.5	1.4
28	1.3	2.8	2.5	0.3	6.5	5	1.2	3.0	1.2	4.5	4.2	1.9
29	1.1	1.6	3.8	8.5	7.5	4.5	5.5	1.8	1.5	3.0	4.2	1.8
30	1.2	0.9	14	8	8	1.8	1.8	0.8	1.8	1.8	3.4	1.8
31	1.6	0.8	0.8	1.8	4.4	4.4	1.2	1.2	1.8	1.8	3.1	1.8
Year	42.2	186.4	143.8	88.7	5137	797.1	661.5	74.1	48.5	54.2	208.2	73.5
Mean	1.36	6.21	4.44	2.86	177	257	22.0	2.39	1.62	1.75	6.72	2.45
Area Feet	84	370	285	176	10200	1580	1310	147	96	108	413	146
Remarks:												
									Year on Maximum	Mean	20.5	
									Area-Feet	14920		

REPORT OF THE
LOS ANGELES
SANITATION DISTRICT



REPORT OF THE
LOS ANGELES
SANITATION DISTRICT



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 5 R**

Station **F5R**
LOS ANGELES RIVER at Van Nuys Blvd.

Discharge measurements of **LOS ANGELES RIVER**

at **Van Nuys Blvd.** during the year ending September 30, 1935

Location
On the downstream side of Van Nuys Boulevard bridge, about 2 miles south of Van Nuys

Drainage area
157 square miles

Channel and control
Channel composed mostly of adobe. Weeds in channel cleaned out each fall. No artificial control.

Discharge measurements
At low flow by wading near station.
At high flow from downstream side of highway bridge.

Recorder
Installed December 19, 1928 in F. C. Standard house over a corrugated iron pipe stilling well. Horizontal rational recorder replaced on August 6, 1936 by a H. C. P. continuous recorder

Regulation and diversions or
By Chatsworth Reservoir, upper and lower San Fernando Reservoirs, Twin Lakes Dam, a dam on a tributary to Simskiln Creek and Encino Reservoir.

Diversions
Several diversions for irrigation on the mountain tributaries.

Records available
December 19, 1928 to September 30, 1936

Extremes of discharge
1928-29
Maximum 127 second-feet April 4
Minimum .1 second-foot September 30
1929-30
Maximum 389 second-feet March 15
Minimum No flow September 19 and 20
1930-31
Maximum 1300 second-feet February 4
Minimum .1 second-foot August 6
1931-32
Maximum 2000 second-feet February 8
Minimum .2 second-foot August 6
1932-33
Maximum 1720 second-feet January 19
Minimum + December 14
1933-34
Maximum 7380 second-feet January 1
Minimum + September 17
1934-35
Maximum 886 second-feet January 5
Minimum + October 2, 3 and 4
1935-36
Maximum 286 second-feet February 12
Minimum .2 second-feet October 5

Accuracy
1934-35 Poor
1935-36 Good
Clock stopped: December 14-17, 1934;
February 7, March 26-28, May 8, 9, 1935

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

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft per sec	Gage Height feet	Discharge Sec.-ft.	Rating Percent full	Method	Mean gage No.	C. H. (Gage Total)	Begin Time	End Time	Notes
12	11/28	"	2.2	.47	1.0	1.45	.45	.6	4	0		140P		
13	12/6	"	1.8	.32	.92	1.44	.30	.6	3	0		145P		
14	12/18	"	4.3	1.46	1.11	1.59	1.6	.6	6	-.02		1125A		
15	12/18	" - Merideth	11.2	19.24	2.31	3.34	44.	.6	5	-.04		805A		
16	12/15	"	54.7	57.2	3.55	4.90	239.	.6	9	-.12		815A		
17	12/20	"	1.8	.80	1.24	1.48	1.0	.6	3	0		805P		
18	12/26	"	1.3	.45	1.42	1.46	.60	.6	2	0		815P		
19	1/5	"	1.5	0.48	1.08	1.48	.80	.6	2	0		820P		
20	1/5	" - Merideth	28.2	94.2	2.92	5.77	275.	.6	10	-.37		1045A		
21	1/7	"	5.0	2.96	1.45	1.80	4.5	.6	5	0		840P		
22	1/10	"	9.7	6.62	1.20	2.01	7.9	.6	7	0		850P		
23	1/15	"	26.0	66.7		4.95	328.	.6	9	-.10		850A		
24	1/24	"	4.8	2.82	1.92	1.89	5.5	.6	9	0		105P		
25	1/31	G. E. Bollinger	5.0	3.00	1.77	1.87	5.3	.6	9	0		1180A		FO 10
26	2/5	" - Merideth	5.8	4.55	2.22	2.04	10.	.6	7	0		125P		
27	2/7	"	5.8	3.22	1.67	1.88	5.4	.6	8	0		140P		
28	2/14	"	5.0	3.06	1.60	1.86	4.9	.6	5	0		150P		
29	2/20	"	3.0	.75	1.08	1.80	.80	.6	5	0		220P		
30	2/28	"	3.0	.80	1.07	1.52	.85	.6	5	0		220P		
31	3/14	"	5.0	5.13	1.72	1.85	5.4	.6	5	0		1110A		
32	3/21	"	5.3	5.12	1.59	1.81	5.0	.6	6	0		1120A		
33	3/28	"	5.3	3.18	1.58	1.80	5.0	.6	7	0		610P		
34	4/4	"	5.5	3.71	1.55	1.80	5.7	.6	8	0		200P		
35	4/8	" - Hoffman	11.0	21.14	2.61	3.56	55	.6	7	+.04		215P		
36	4/8	"	10.9	20.25	2.22	3.25	45	.6	11	0		115A		
37	4/11	"	4.7	3.29	1.58	1.78	5.2	.6	6	0		140P		
38	4/18	"	4.8	3.53	1.57	1.76	5.5	.6	7	0		150P		
39	4/25	"	5.2	3.94	1.52	1.78	5.4	.6	6	0		140P		
40	5/2	"	6.5	3.58	1.40	1.75	5.0	.6	8	0		210P		
41	5/9	"	7.1	3.65	1.52	1.72	4.8	.6	9	0		245P		
42	5/16	"	4.3	1.56	.96	1.51	1.5	.6	6	0		800P		
43	5/23	"	4.5	1.46	.88	1.47	1.2	.6	5	0		810P		
44	5/29	"	4.5	1.50	.49	1.45	.75	.6	5	0		1008A		
45	6/6	"	4.0	1.00	1.02	1.46	1.0	.6	4	0		940A		
46	6/15	"	3.5	.76	.89	1.44	.70	.6	5	0		1145P		
47	6/20	"	5.0	.81	1.01	1.45	.80	.6	5	0		1255P		
48	6/27	"	3.7	1.57	1.56	1.52	2.2	.6	6	0		948A		
49	7/5	G. E. Bollinger	5.7	.92	.75	1.44	.70	.6	6	0		120P		FO 10
50	7/11	"	4.0	1.22	.79	1.42	1.0	.6	5	0		255P		
51	7/18	"	3.5	.72	.74	1.44	.55	.6	6	0		200P		
52	7/25	"	5.5	1.42	1.07	1.50	1.5	.6	6	0		110P		
53	7/31	" - Prickett	7.3	1.49	.45	1.45	.65	.6	5	0		1130A		
54	8/8	"	7.5	1.71	.60	1.42	1.0	.6	6	0		1058A		
55	8/15	"	2.0	.49	.88	1.41	.45	.6	4	0		850P		
56	8/22	"	3.0	.71	1.20	1.45	.85	.6	4	0		800P		
57	8/29	"	2.6	.47	.86	1.42	.59	.6	4	0		115A		
58	9/5	"	1.7	.41	.82	1.52	.54	.6	5	0		150P		
59	9/12	"	2.0	.80	.80	1.36	.40	.6	3	0		110P		
60	9/19	Prickett	3.0	.64	1.24	1.32	.85	.6	3	0		150P		
61	9/26	"	3.0	.61	1.16	1.41	.70	.6	3	0		1030A		

F. C. D. Form 104 (10-11-35)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 5 R**

Discharge measurements of **LOS ANGELES RIVER**

at **Van Nuys Blvd.** during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft per sec	Gage Height feet	Discharge Sec.-ft.	Rating Percent full	Method	Mean gage No.	C. H. (Gage Total)	Begin Time	End Time	Notes
1	10/4	G. E. Bollinger	1.0	.09	.22	1.36	.08	.6	2	0		800P		FO 10
2	10/11	"	1.3	.11	.45	1.38	.05	.6	2	0		820P		
3	10/17	" - Carlson	2.2	.29	.95	1.45	.57	.6	4	0		820A		
4	10/18	"	5.5	2.99	1.12	1.55	5.4	.6	6	-.05		412A		
5	10/25	"	1.9	.32	.75	1.29	.24	.6	3	0		420A		
6	11/1	"	2.2	.51	.59	1.42	.12	.6	3	0		145P		
7	11/8	"	2.0	.50	.75	1.45	.22	.6	4	0		840A		
8	11/15	"	2.2	.47	.98	1.47	.46	.6	4	0		945A		
9	11/16	" - Merideth	10.7	15.6	1.71	5.70	27.	.6	4	-.04		140A		
10	11/17	"	5.0	5.77	1.82	2.45	11.	.6	5	0		150A		
11	11/22	"	2.1	.52	1.22	1.45	.55	.6	4	0		1050P		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 5 R

Discharge measurements of LOS ANGELES RIVER

at Van Nuys Blvd. during the year ending September 30, 1936

No.	Date	Made by	Wade Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. Ft.	Rating Point	Method	Min. No.	G. H. Gauge Foot	Begin End	Meter No.
1	10/3	Bollinger-Keifer	2.5	.61	1.02	1.40	.60	.6	4	0	200P	FG 10	
2	10/10	Bollinger	2.2	.43	1.18	1.40	.50	.6	4	-	145P	"	
3	10/17	"	1.6	.34	1.26	1.38	.43	.6	3	-	150P	"	
4	10/24	"	2.0	.36	1.36	1.38	.49	.6	3	0	845A	"	
5	10/31	"	1.7	.52	1.09	1.39	.55	.6	3	0	850A	"	
6	11/7	"	2.2	.48	1.19	1.38	.55	.6	4	0	850A	"	
7	11/14	"	2.0	.58	1.29	1.39	.75	.6	4	0	1020A	"	
8	11/17	Bollinger-Koah	6.5	5.4	1.46	2.03	7.9	.6	7	-03	120P	FG 6	
9	11/21	Bollinger	2.2	.53	1.08	1.39	.55	.6	4	0	120P	"	
10	11/27	"	2.4	.50	1.30	1.40	.65	.6	4	0	155P	"	
11	12/5	"	1.6	.51	1.14	1.40	.60	.6	3	0	200P	"	
12	12/12	"	2.5	.54	.74	1.40	.40	.6	4	0	115P	"	
13	12/19	"	2.2	.54	1.04	1.40	.55	.6	4	0	210P	"	
14	12/26	"	2.5	.51	1.02	1.40	.50	.6	4	0	215P	"	
15	1/2	"	3.0	.62	.79	1.40	.49	.6	5	0	225P	"	
16	1/9	"	2.7	.66	.83	1.40	.55	.6	5	0	230P	"	
17	1/16	"	2.5	.46	1.07	1.39	.49	.6	4	0	240P	"	
18	1/23	"	2.7	.50	.80	1.39	.40	.6	4	0	245P	"	
19	1/30	"	2.8	.62	.92	1.40	.55	.6	5	0	310P	"	
20	2/1	Bollinger-Trumbo	4.5	1.50	1.18	1.53	1.8	.6	5	+02	350P	"	
21	2/1	"	6.8	4.22	1.52	1.82	6.4	.6	7	+04	950A	"	
22	2/2	"	6.0	2.33	.85	1.58	2.0	.6	6	0	1000A	"	
23	2/6	Bollinger	2.6	.75	1.38	1.38	.70	.6	5	0	1050A	"	
24	2/11	Bollinger-Trumbo	6.2	2.79	1.45	1.63	4.0	.6	6	+03	800A	"	
25	2/12	Bollinger-Trumbo	7.5	11.7	1.88	2.76	22	.6	6	-07	1030A	FG 6	
26	2/12	"	12.2	28.6	2.78	3.67	79	.6	6	+02	400P	"	
27	2/13	"	7.0	4.28	1.41	1.73	6.1	.6	6	-01	415P	"	
28	2/15	"	28.2	64.7	3.77	5.15	244	.6	7	-20	245P	"	
29	2/16	"	27.2	44.4	3.00	4.38	132	.6	8	0	250P	"	
30	2/18	"	8.2	13.9	2.16	2.82	28	.6	7	+04	100A	"	
31	2/20	Bollinger	8.5	13.4	2.12	2.73	28	.6	7	+01	930A	"	
32	2/23	Bollinger-Trumbo	26.2	48.8	2.87	4.33	140	.6	8	-07	920A	"	
33	2/24	Bollinger	7.8	6.61	1.55	1.98	10	.6	8	-06	940A	"	
34	2/27	"	8.2	4.82	1.58	1.75	7.8	.6	8	0	920A	"	
35	3/5	"	7.8	4.15	1.45	1.63	6.0	.6	8	0	927A	"	
36	3/12	"	7.2	3.21	1.28	1.57	4.1	.6	8	0	240P	"	
37	3/19	"	1.9	.75	1.35	1.40	1.0	.6	3	0	250P	"	
38	3/26	"	4.2	2.76	.88	1.45	2.4	.6	5	0	1135A	"	
39	3/31	Bollinger-Trumbo	8.0	7.90	1.96	2.12	16.	.6	7	-03	1145A	"	
40	4/2	Bollinger	2.0	.84	1.33	1.38	1.1	.6	3	0	1100A	"	
41	4/9	"	1.5	.49	1.43	1.38	.70	.6	3	0	1050A	"	
42	4/17	"	2.1	.51	.96	1.37	.49	.6	3	-	1010A	"	
43	4/23	"	2.6	.70	.97	1.37	.70	.6	4	0	1020A	"	
44	4/30	"	2.8	.71	.96	1.36	.70	.6	5	0	210P	FG 6	
45	5/7	"	2.5	.66	1.17	1.37	.75	.6	4	0	215P	"	
46	5/14	"	2.9	.98	1.09	1.37	1.1	.6	4	0	232P	"	
47	5/21	"	2.5	.81	.82	1.36	.65	.6	4	0	349P	"	
48	5/28	"	2.5	.74	.80	1.37	.60	.6	4	0	354P	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 5 R

Discharge measurements of LOS ANGELES RIVER

at Van Nuys Blvd. during the year ending September 30, 1936

No.	Date	Made by	Wade Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. Ft.	Rating Point	Method	Min. No.	G. H. Gauge Foot	Begin End	Meter No.
49	6/4	Bollinger	2.4	.92	1.33	1.37	1.2	.6	4	0	115P	FG 6	
50	6/11	"	2.6	.88	.62	1.34	.55	.6	4	0	120P	"	
51	6/18	"	2.5	.91	.73	1.33	.65	.6	4	0	341P	"	
52	6/25	"	2.2	.74	.77	1.36	.55	.6	3	0	346P	"	
53	7/2	"	2.2	.91	.58	1.33	.55	.6	4	0	916A	"	
54	7/9	Lucas	6.5	1.14	.81	1.33	.90	.6	6	0	921A	"	
55	7/16	"	8.1	2.14	.87	1.38	1.9	.6	5	0	259P	"	
56	7/23	Bollinger	6.1	.90	.83	1.36	.75	.6	5	0	304P	"	
57	7/30	"	2.5	.96	.79	1.33	.75	.6	4	0	312P	"	
58	8/7	"	1.8	.89	.90	1.32	.80	.6	3	0	317P	"	
59	8/13	"	2.3	.71	.70	1.31	.50	.6	4	0	1129A	"	
60	8/20	"	2.0	.62	.71	1.31	.44	.6	4	0	158P	"	
61	8/27	"	2.0	.70	.50	1.31	.35	.6	4	0	204P	"	
62	9/3	"	2.4	.87	.71	1.36	.60	.6	4	0	244P	"	
63	9/11	"	2.8	.78	.65	1.35	.50	.6	5	0	249P	"	
64	9/17	"	2.8	.52	.54	1.33	.28	.6	4	0	116P	"	
65	9/24	"	3.5	.49	.73	1.31	.36	.6	4	0	121P	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 6 R

Daily discharge, in second-feet of LOS ANGELES RIVER at Van Nuys Blvd. for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.1	0.4	0.6	5.5	1.6	5.5	5	0.8	1.0	0.7	0.5
2	+	.1	.4	.5	5.5	4.4	5.5	5	.9	.9	1.0	.4
3	+	.1	.4	.5	5.5	5.5	5.5	5	.9	.7	.9	.4
4	+	.8	.4	.7	7.5	5.5	6	4.9	.9	.7	.9	.4
5	+	.2	.4	205	5.5	5.5	5.5	5	.2	.8	1.0	.4
6	+	.2	.5	8	7.5	5.5	5	1.0	.8	1.0	.4	
7	+	.2	.4	5.5	5.5	29	6.5	5	1.0	.9	1.2	.4
8	+	.2	1.5	5.5	5.5	12	41	4.9	.9	.9	1.1	.5
9	+	.2	.6	25	4.9	6	7	5.5	.9	1.0	.9	.6
10	+	.3	.6	11	4.7	5.5	5.5	6	.9	1.0	.7	.4
11	.1	.4	.6	7	4.4	5.5	5	6	.8	1.0	.7	.4
12	.1	.4	1.0	5.5	4.4	5.5	5	5.5	.8	.9	.6	.4
13	.1	.4	98	2.7	4.4	5.5	5.5	5	.7	1.1	.5	.5
14	.1	.4	120	3.1	4.9	5.5	5.5	5.5	.9	.8	.4	.6
15	.1	15	5	15.4	4.7	5.5	5.5	4.4	.9	.8	.4	.7
16	.1	13	1.5	7	4.6	5.5	5.5	1.7	.8	.8	.6	.7
17	.4	1.4	1.0	5.5	4.6	5.5	5.5	1.5	.9	.7	.6	.9
18	1.1	.8	1.0	4.1	5.2	5.5	5.5	1.4	.9	.7	.6	.9
19	.5	26	1.0	9	1.2	5.5	5.5	1.4	.8	.8	.6	.9
20	.5	2.2	1.0	7	.2	5	6.5	1.3	1.0	1.1	.7	.9
21	.5	.8	1.0	5.5	.9	5	6.5	1.2	1.3	1.0	.6	.9
22	.5	.7	.9	5.5	.9	4.9	6	1.4	.9	.9	.9	.7
23	.5	.7	.8	5.5	.9	6	6	1.2	1.2	1.1	.9	.8
24	.5	.6	.7	5.5	.9	7	5.5	1.1	1.4	1.4	.6	.7
25	.5	.6	.6	5.5	.9	5.5	5.5	1.0	1.5	1.5	.5	.8
26	.5	.6	.6	5.5	.9	5.5	5.5	.9	1.6	1.4	.5	.7
27	.5	.6	.6	5.5	.9	5.5	5.5	.9	2.0	1.1	.4	.9
28	.5	.5	1.5	5.5	.9	5	5.5	.8	1.5	.9	.8	.9
29	.1	.5	.7	5.5	.5	5	.9	1.4	.9	1.4	.9	.9
30	.1	.4	.6	5.5	.5	5.5	5.5	.7	1.1	.9	.5	.2
31	.1			5.5				.8				
Total	5.0	66.6	243.7	527.7	105.1	238.0	207.0	95.9	21.5	29.4	81.0	19.5
Mean	.16	2.19	7.86	17.0	3.75	7.68	6.90	3.09	1.05	.95	.68	.64
Accr. Feet	9.9	120.	495.	1050.	208.	472.	411.	190.	62.	58.	42.	58.

Remarks: + indicates discharge 0.05 sec. ft. or less.
Year 1935 Mean 4.35
Accr. Feet 3150.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

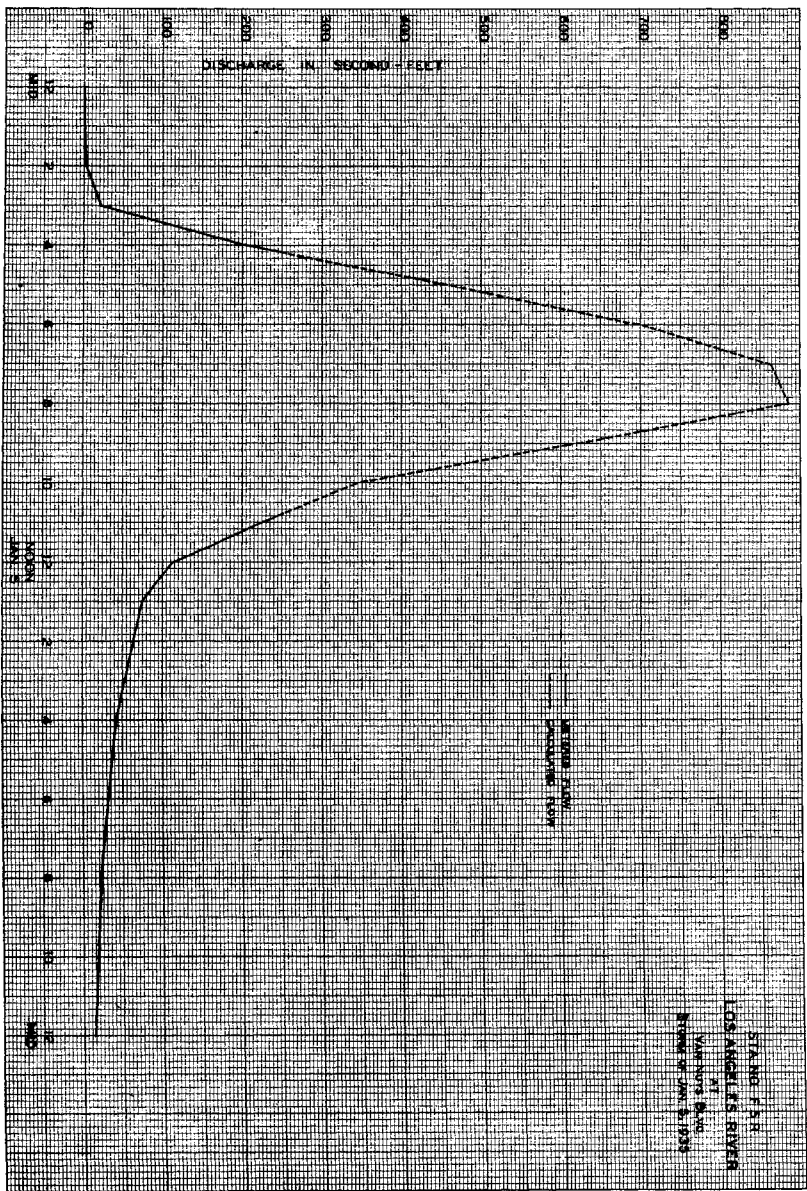
Sta. No. F 6 R

Daily discharge, in second-feet of LOS ANGELES RIVER at Van Nuys Blvd. for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	0.7	0.6	0.5	3.5	4.5	1.8	0.7	0.9	0.8	1.1	0.5
2	0.7	0.6	0.6	0.5	2.4	4.5	1.8	0.7	1.0	0.8	0.9	0.4
3	0.4	0.7	0.6	0.5	1.1	7	2.0	0.8	1.2	1.0	0.9	0.4
4	0.2	0.7	0.6	0.6	0.8	6	1.0	0.9	1.1	0.9	0.8	0.4
5	0.3	0.6	0.8	0.6	0.7	5.5	0.7	0.9	1.1	0.9	0.8	0.4
6	0.3	0.6	0.6	0.6	0.8	5.5	0.8	0.8	1.2	0.6	0.8	0.3
7	0.3	0.6	0.6	0.6	1.1	5.5	0.7	0.9	1.0	0.7	0.8	0.3
8	0.3	0.7	0.6	0.6	0.9	5	0.7	1.0	0.8	0.9	0.8	0.5
9	0.5	0.7	0.6	0.6	1.0	5	0.7	1.0	0.6	0.9	0.9	0.4
10	0.5	0.8	0.5	0.6	4.9	4.2	0.7	0.9	1.1	0.9	0.8	0.4
11	0.4	0.7	0.4	0.6	7.9	4.0	0.7	1.0	0.6	1.3	0.5	0.4
12	0.5	0.7	0.3	0.5	1.9	4.1	0.6	1.0	0.6	1.4	0.5	0.3
13	0.5	0.7	0.4	0.5	6	4.2	0.7	1.1	0.7	1.7	0.6	0.3
14	0.5	1.1	0.4	0.5	4.1	4.4	0.7	1.0	0.7	1.7	0.7	0.6
15	0.4	1.1	0.4	0.5	4.4	3.8	0.5	0.9	0.7	1.7	0.6	0.3
16	0.4	2.1	0.5	0.6	4.1	3.7	0.5	0.9	0.8	1.3	0.5	0.4
17	0.4	0.9	0.4	0.6	26	3.3	0.5	0.8	0.8	1.1	0.4	0.4
18	0.6	0.6	0.5	0.5	23	1.1	0.5	0.8	1.0	0.5	0.8	0.5
19	0.6	0.6	0.7	0.5	28	1.1	0.5	0.7	0.8	0.9	0.4	0.7
20	0.7	0.5	0.6	0.5	27	1.4	0.5	0.7	0.7	0.8	0.5	0.7
21	0.7	0.7	0.7	0.5	26	1.4	0.7	0.7	0.7	0.6	0.7	0.7
22	0.6	0.7	0.6	0.5	43	1.4	0.7	0.6	0.6	0.6	0.5	0.7
23	0.6	0.7	0.6	0.4	15	1.8	0.7	0.6	0.7	0.7	0.5	0.6
24	0.7	0.8	0.5	0.5	7	1.7	0.7	0.6	0.5	0.9	0.6	0.7
25	1.1	0.7	0.5	0.5	7	2.1	0.7	0.7	0.7	0.9	0.5	0.6
26	1.2	0.7	0.6	0.8	9.5	2.1	0.7	0.6	0.7	0.9	0.4	0.5
27	1.0	0.7	0.6	0.6	11	2.0	0.7	0.6	0.7	0.8	0.6	0.5
28	0.8	0.7	0.6	0.7	9.5	2.1	0.7	0.7	0.7	0.7	0.7	0.5
29	0.7	0.7	0.8	0.7		5	0.7	0.8	0.8	0.8	0.3	0.5
30	0.7		0.7	0.7		13		0.8		0.8		
31												
Total	17.9	23.0	18.8	17.5	442.4	136.5	24.0	25.0	23.6	29.9	19.9	14.3
Mean	0.58	0.77	0.61	0.56	15.2	4.40	0.80	0.81	0.79	0.96	0.64	0.48
Accr. Feet	36	46	37	35	877	271	48	50	47	59	39	28

Remarks:
Year 1936 Mean 2.17
Accr. Feet 1370.

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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 124 R

Discharge measurements of LOS ANGELES RIVER

at Vineland Ave. during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, Meter No., G. H. change Total, Discharge Total, Meter No. Includes data for Bollinger, Merideth, and Hofmann.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 124 R

Discharge measurements of LOS ANGELES RIVER

at Vineland Avenue during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, Meter No., G. H. change Total, Discharge Total, Meter No. Includes data for Bollinger-Kelfer, Bollinger, Trumbo, and Priokett.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 124 R**

Discharge measurements at **LOS ANGELES RIVER**
at **Vineland Avenue**

during the year ending September 30, 1936

No.	Date	Mean Ht.	Stage	Discharge (cfs)	Mean Ht.	Stage	Discharge (cfs)	Mean Ht.	Stage	Discharge (cfs)
49	7-2	Bollinger	2.8	2,441	1.17	1.78	2.8	6.6	0	2028
50	7-9	None		7.5	3,661	1.69	1.80	6.2	6.6	2109
51	7-16	"		9.0	2,901	1.34	1.81	3.8	6.6	2095
52	7-23	Bollinger	2.7	8.5	2,561	1.29	1.80	3.3	6.6	2188
53	7-30	"		6.7	2,049	1.07	1.77	2.7	6.6	2289
54	8-7	"		8.0	2,031	.98	1.76	2.0	6.6	1508
55	8-13	"		6.3	2,259	1.19	1.77	3.1	6.7	1202
56	8-20	"		6.5	2,641	1.00	1.79	2.6	6.7	1658
57	8-27	"		8.0	2,301	1.07	1.76	2.5	6.7	2348
58	9-3	"		6.5	2,259	1.14	1.79	2.9	6.7	10554
59	9-11	"		9.2	2,581	1.05	1.80	2.7	6.8	9444
60	9-17	"		8.5	2,328	.94	1.78	2.2	6.8	10924
61	9-24	"		9.5	2,328	.89	1.78	2.1	6.7	3119

F. C. Dist. Form D-10 11-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F124R**

Daily discharge, in second-feet of **LOS ANGELES RIVER at Vineland Ave.** for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	3.5	3.1	3.5	13	11	5.5	5	7	2.7	0	0
2	3.0	3.5	3.1	3.5	20	11	4.8	5	7	2.7	0	0
3	3.0	3.5	3.1	3.5	4	10	6	5	7	2.7	0	0
4	3.0	3.5	3.1	3.5	4.1	9.5	4.7	5	7	2.7	0	0
5	3.0	3.5	3.1	3.5	3.7	11	4.2	5	7	2.7	0	0
6	3.0	3.5	3.1	3.5	3.9	9.5	4.2	5	7	2.7	0	0
7	3.0	3.5	3.1	3.5	4.4	9.5	4.2	5	7	2.7	0	0
8	3.0	3.5	3.1	3.5	4.4	9.5	4.2	5	7	2.7	0	0
9	3.0	3.5	3.1	3.5	4.4	9.5	4.2	5	7	2.7	0	0
10	3.0	3.5	3.1	3.5	4.4	9.5	4.2	5	7	2.7	0	0
11	3.0	3.5	3.1	3.5	4.1	9.1	4.1	5	7	2.7	0	0
12	3.0	3.5	3.1	3.5	3.8	8.8	4.2	5	7	2.7	0	0
13	3.0	3.5	3.1	3.5	4.1	9.5	4.2	5	7	2.7	0	0
14	3.0	3.5	3.1	3.5	4.1	9.5	4.2	5	7	2.7	0	0
15	3.0	3.5	3.1	3.5	4.2	9.5	4.2	5	7	2.7	0	0
16	3.0	3.5	3.1	3.5	4.1	9.0	4.2	5	7	2.7	0	0
17	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
18	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
19	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
20	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
21	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
22	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
23	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
24	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
25	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
26	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
27	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
28	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
29	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
30	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
31	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
Year	3.07	3.60	3.57	3.84	24.6	8.31	4.63	3.43	3.15	4.46	2.71	2.69
Mean	1.89	2.14	2.19	2.36	14.20	5.11	2.76	2.11	1.87	2.75	1.66	1.60

Remarks: _____

Year _____ Mean _____

Acres-Foot _____

F. C. Dist. Form D-10

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 124 R**

Daily discharge, in second-feet of **LOS ANGELES RIVER at Vineland Ave.** for the year ending September 30, 1936

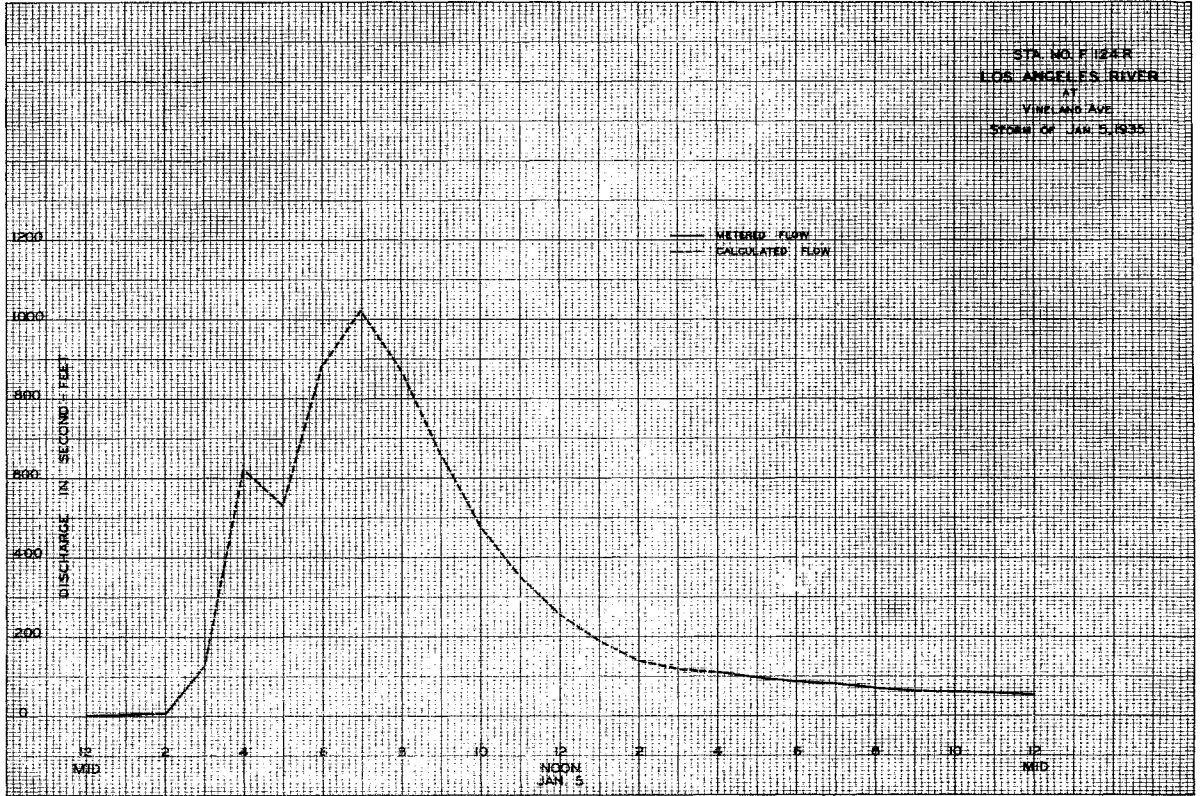
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	3.5	3.1	3.5	13	11	5.5	5	7	2.7	0	0
2	3.0	3.5	3.1	3.5	20	11	4.8	5	7	2.7	0	0
3	3.0	3.5	3.1	3.5	4	10	6	5	7	2.7	0	0
4	3.0	3.5	3.1	3.5	4.1	9.5	4.7	5	7	2.7	0	0
5	3.0	3.5	3.1	3.5	3.7	11	4.2	5	7	2.7	0	0
6	3.0	3.5	3.1	3.5	3.9	9.5	4.2	5	7	2.7	0	0
7	3.0	3.5	3.1	3.5	4.4	9.5	4.2	5	7	2.7	0	0
8	3.0	3.5	3.1	3.5	4.4	9.5	4.2	5	7	2.7	0	0
9	3.0	3.5	3.1	3.5	4.4	9.5	4.2	5	7	2.7	0	0
10	3.0	3.5	3.1	3.5	4.4	9.5	4.2	5	7	2.7	0	0
11	3.0	3.5	3.1	3.5	4.1	9.1	4.1	5	7	2.7	0	0
12	3.0	3.5	3.1	3.5	3.8	8.8	4.2	5	7	2.7	0	0
13	3.0	3.5	3.1	3.5	4.1	9.5	4.2	5	7	2.7	0	0
14	3.0	3.5	3.1	3.5	4.1	9.5	4.2	5	7	2.7	0	0
15	3.0	3.5	3.1	3.5	4.2	9.5	4.2	5	7	2.7	0	0
16	3.0	3.5	3.1	3.5	4.1	9.0	4.2	5	7	2.7	0	0
17	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
18	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
19	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
20	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
21	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
22	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
23	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
24	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
25	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
26	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
27	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
28	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
29	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
30	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
31	3.0	3.5	3.1	3.5	4.3	9.5	4.2	5	7	2.7	0	0
Year	3.07	3.60	3.57	3.84	24.6	8.31	4.63	3.43	3.15	4.46	2.71	2.69
Mean	1.89	2.14	2.19	2.36	14.20	5.11	2.76	2.11	1.87	2.75	1.66	1.60

Remarks: + indicates discharge 0.05 sec. ft. or less.

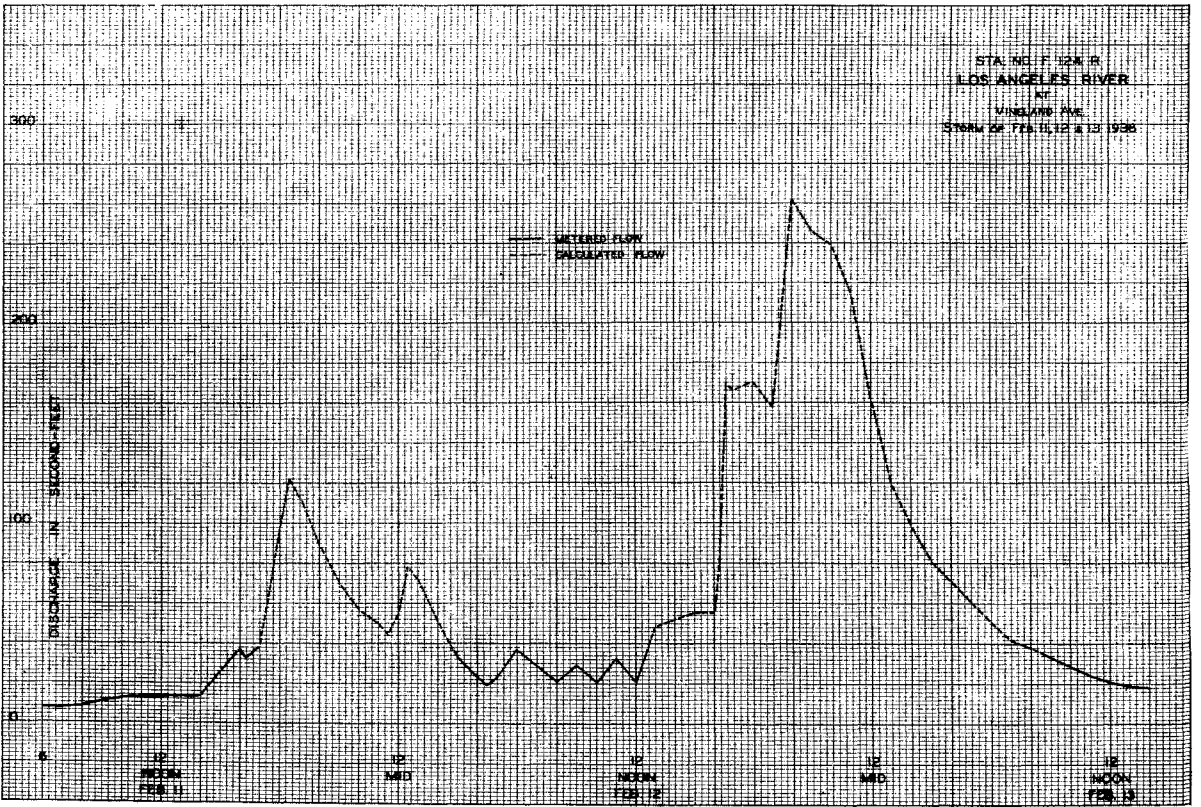
Year _____ Mean _____

Acres-Foot _____

REPORT OF OPERATIONS OF THE
LOS ANGELES RIVER



REPORT OF OPERATIONS OF THE
LOS ANGELES RIVER



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. FLOOR

Station FLOOR

MAIN SPREADING CANAL at mouth of San Gabriel Canyon

Discharge measurements of MAIN SPREADING CANAL

Location

at mouth of San Gabriel Canyon during the year ending September 30, 19 35

On north bank of Spreading Canal at upstream side of of railroad bridge, 300 feet east of San Gabriel Canyon Road and about 2 miles north of Azusa

Channel and control

Hard packed earth channel.
No artificial control

Discharge measurements

At low flow by wading near gage.
At high flow from railroad bridge.

Recorder

Installed February 13, 1929 in a box type house over a corrugated iron pipe stilling well. Rational 7 day recorder.

Regulation

By diversion gates.

Diversions

This station is on a spreading ditch which receives water from two sources: One is from City of Pasadena's power house tailrace; the other is by direct diversion from San Gabriel River through a tunnel. The total represents the major part of water spread by the East Side Water Company.

Records available

Recorder records from February 13, 1929 to September 30, 1936.

Extremes of discharge

- 1929-30
Maximum 68 second-feet April 7
Minimum no flow at various times during year
- 1930-31
Maximum 78 second-feet May 5
Minimum no flow at various times during year
- 1931-32
Maximum 63 second-feet March 13
Minimum no flow part of year
- 1932-33
Maximum 72 second-feet February 22
Minimum no flow at various times during year
- 1933-34
Maximum 84 second-feet March 31, April 1 and 2
Minimum no flow at various times during year
- 1934-35
Maximum 100 second-feet December 27
Minimum no flow at various times during year
- 1935-36
Maximum 106 second-feet March 6
Minimum no flow most of year

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. Ft.	Rating Percent	Method	Mean No.	G. H. gauge Foot	Sign End	Mean No.
10	1/3	Lindsay	11.0			1.94	41.	.6	10			155P	FO 21
												210P	
11	1/10	"	10.9	16.8	2.56	2.00	43.	.6	8			205P	"
												215P	
12	1/16	"				2.63	93.	.6				325P	"
												410P	
13	1/24	"	11.2	21.8		2.40	71.					420P	"
												345P	
14	1/30	Lindsay				2.47	81.		Est.			205P	FO 21
												215P	
15	2/7	"	10.9	17.4	2.63	2.04	45.	.6	8				
16	2/14	"				2.20	58.					505P	
17	2/21	"				2.41	75.					1030A	
18	2/28	"				2.53	88.					400P	
20	3/7	"				2.20	58.					840A	
21	3/21	"				2.20	106.					250P	
												1010A	
22	3/27	"	10.5	22.4	3.19	2.68	72.	.6	8			1020A	FC 21
												1130A	
23	4/3	"	10.1	18.0	2.76	2.33	50.	.6	8			1140A	"
												1045A	
24	4/10	"	10.1	14.6	2.40	2.06	35.	.6	8			1055A	"
												935A	
												945A	
25	4/20	"	10.0	16.2	2.67	2.11	43.	.6	8			810A	
												820A	FO 21
26	4/26	Lindsay	9.8	13.9	2.33	1.93	32.	.6	8			900A	
												910A	"
27	5/3	"	10.0	14.5	2.35	1.94	34.	.6	8				
28	5/9	"				2.23	50.					423P	
												850A	
29	5/16	"	10.2	18.4	3.02	2.33	57.	.6	8			900A	FC 21
												900A	
30	5/23	"	10.3	18.2	3.00	2.30	55.	.6	8			910A	"
												215P	
31	5/29	"	10.0	16.8	2.51	2.20	42.	.6	8			225P	"
												205P	
32	6/5	"	9.7	8.79	1.44	1.38	13.	.6	8			215P	"
												415P	
33	6/10	"	9.9	15.7	2.84	2.09	45.	.6	8			425P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. FLOOR

Station FLOOR

MAIN SPREADING CANAL at mouth of San Gabriel Canyon

Discharge measurements of MAIN SPREADING CANAL

Accuracy

Good.
Clock stopped: February 15-21, March 18-22, June 2, 3, 6, 7, 21-23, July 2-10, October 14-17, November 18-21, 1935. Estimated: November 15-22, 1934; February 1-7, November 5, 1935.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. Ft.	Rating Percent	Method	Mean No.	G. H. gauge Foot	Sign End	Mean No.
1	10/17	Lindsay	10.0	6.53	0.93	1.09	6.1	.6	7			445P	FO 21
												455P	
2	1/3	"	9.3	3.22	0.47	.83	1.5	.6	7	0		930A	FO 28
												935A	
3	2/6	"	11.7	15.9	2.40	1.98	38.	.6	8	0		510P	"
												515P	
4	2/20	"	12.3	22.9	3.25	2.53	74.	.6	9	.06		533P	"
												416P	
5	2/27	"	12.7	26.9	3.66	2.80	98.	.6	9	0		426P	"
												435P	
6	3/12	"	13.5	26.7	3.42	2.79	92.	.6	9	0		445P	"
												918A	
7	3/18	"	12.9	26.7	3.55	2.77	95.	.6	9	0		930A	"
8	3/19	"	-	-	-	2.73						1005A	-
9	3/26	Lindsay - Well	-	-	-	2.72						940A	-
												415P	
10	4/2	Lindsay	13.0	26.1	3.45	2.75	90.	.6	10	0		425P	FO 28
11	4/9	"	-	-	-	2.38						755A	-
12	4/16	"	-	-	-	2.78						915A	-
13	4/23	Lindsay	11.8	22.0	3.07	2.45	68.	.6	15	0		405P	FO 28
												555P	
14	4/30	"	-	-	-	2.66						410P	-
												513P	
15	5/7	"	12.3	12.7	1.71	1.55	22.	.6	8	0		333P	FO 28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. FLOOR

Station FLOOR

MAIN SPREADING CANAL at mouth of San Gabriel Canyon

Discharge measurements of MAIN SPREADING CANAL

at mouth of San Gabriel Canyon during the year ending September 30, 19 35

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. Ft.	Rating Percent	Method	Mean No.	G. H. gauge Foot	Sign End	Mean No.
1	1934 10/23	Lindsay - Cornick	11.5	22.0	3.27	2.44	72.	.6	9			1120A	FO 21
												1135A	
2	10/25	"	10.7	8.97	1.17	1.34	13.	.6	6			928A	"
												936A	
3	11/8	"	10.3	3.36	0.44	0.83	1.5	.6	7			1067A	"
												1022A	
4	11/15	"	10.3	4.22	0.64	0.87	2.7	.6	7			855A	"
												905A	
5	11/15	"	11.0	11.8	1.69	1.55	22.	.6	9			235P	"
												250P	
6	11/26	"	10.9	5.95	0.88	1.06	5.2	.6	7			400P	"
												410P	
7	12/6	"	10.6	5.01	0.82	0.98	4.1	.6	7			905A	"
												915A	
8	12/21	"	11.9	25.3	3.62	2.67	91.	.6	8			109P	"
												125P	
9	1/3	"	16.2	2.71	1.94	41.	Flood					1040A	
												1045A	

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 150 R

Discharge measurements of MALIBU CREEK

at Crater Camp during the year ending September 30, 1935

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F130R

Discharge measurements of MALIBU CREEK

at Crater Camp during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height feet, Discharge Sec.-ft., Rating Project No., Mean Size No., G. H. Chart Title, Meter No., and a list of gage numbers (e.g., 1100A, 1105P, 107P, etc.).

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height feet, Discharge Sec.-ft., Rating Project No., Mean Size No., G. H. Chart Title, Meter No., and a list of gage numbers (e.g., 1935, 10/3, 107P, 180P, etc.).

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 22 R

Station F22R

MONROVIA CREEK 200 ft. above junction with Sawpit Creek

DISCHARGE MEASUREMENTS OF MONROVIA CREEK

At 200 ft. above junction with Sawpit Cr., during the year ending September 30, 1935

Location

On south bank of creek, in Monrovia Canyon, 150 feet above junction with Sawpit Creek, and about 3 miles northeast of Monrovia.

Drainage area

1.9 square miles.

Channel and control

Channel - Rock and gravel.
Control - Concrete with a 2 foot Cippolletti weir in the center. Pool above control sands up during storms.

Discharge measurements

At low flow by wading near gage.
At high flow from foot bridge at station.

Recorder

Installed November 10, 1927 in F. C. Standard house over concrete stilling well.
An continuous recorder.

Regulation

None

Diversions

Monrovia pipe line diverts water above gage.

Records available

November 10, 1927 to September 30, 1936.

Extremes of discharge

1927-28
Maximum .8 second-foot February 4
Minimum + at various times during year July 30-31
1928-29
Maximum 7 second-foot March 10
Minimum + at various times during year
1929-30
Maximum 6 second-foot January 15
Minimum No flow at various times during year.
1930-31
Maximum 13 second-foot April 26
Minimum No flow September 19-30
1931-32
Maximum 24 second-foot February 9
Minimum + at various times during year
1932-33
Maximum 58 second-foot February 19
Minimum No flow September 5-8
1933-34
Maximum 108 second-foot January 1
Minimum No flow at various times during year
1934-35
Maximum 109 second-foot April 8
Minimum + at various times during year
1935-36
Maximum 78 second-foot February 2
Minimum + at various times during year

Accuracy

Poor

Operation

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

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEADING FEET	DISCHARGE SEC. FT.	RATING WEIR DIFF.	STRE- AM.	C. HT. CHARGE AM.	SEEN END	METER NO.
1	10/4	Lindsay				.04	0.01	Weir				450A
2	10/10	"				.04	.005	"				905A
3	10/18	"				.06	0.04	"				555A
4	10/22	"				.05	0.02	"				1000A
5	10/26	"				.08	0.08	"				750A
6	11/1	"				.08	0.08	"				1050A
7	11/9	"				.07	0.06	"				735A
8	11/15	" Cole				.06	0.04	"				1255P
9	11/16	Lindsay-Richards				.08	0.08	"				825A
10	11/19	Lindsay				.08	0.09	"				835A
11	11/22	"				.08	0.08	"				100P
12	11/28	"				.08	0.08	"				1140A
13	12/6	"				.07	0.06	"				130P
14	12/6	"				.08	0.08	"				1035A
15	12/12	"				.08	0.08	"				230P
16	12/13	Lindsay-Richards				.20	0.55	"				135P
17	12/14	H. Richards-Lindsay	5.7	5.02	1.68	.66	5.1	.6	6	0	420P	FO 21
18	12/15	"	5.0	1.42	.96	0.32	1.4	.6	5	0	437P	"
19	12/20	R. Lindsay	2.3	0.59	.98	.22	.60	.6	4	0	145P	"
20	12/20	1935									527P	"
21	1/5	Richards-Lindsay	3.2	1.15	.97	.54	1.1	.6	5	0	522P	"
22	1/5										1240P	"
23	1/5										1246P	"
24	1/7	R. Lindsay	2.9	0.69	0.77	0.24	.55	.6	4	0	1020A	"
25	1/9	Lindsay-Richards	3.30	.96	.95	.29	.90	.6	6	0	1055A	"
26	1/10	Lindsay	3.2	.76	.95	.27	.70	.6	4	0	425P	"
27	1/15	Lindsay-Richards	3.20	.96	1.05	.32	1.0	.6	5	0	420P	"
28	1/17	Lindsay	2.8	.59	.90	0.26	.55	.6	5	0	1252P	"
29	1/23	"	1.8	.32	1.21	.24	.40	.6	3	0	915A	"
30	1/30	"	1.4	.25	.85	.16	.19	.6	3	0	980A	"
31	2/5	"	4.0	1.18	1.27	0.40	1.5	.6	5	0	945A	"
32	2/6	"	3.9	1.07	1.27	0.38	1.4	.6	5	0	920A	"
33	2/7	"	3.7	0.89	1.12	0.34	1.0	.6	5	0	1220P	"
34	2/14	W.E. Cole-Marideth	3.5	.64	.86	.29	.55	.6	4	0	1250P	"
35	2/20	Lindsay	1.0	0.18	0.65	0.20	.12	.6	2	0	450P	"
36	2/28	"	1.0	0.14	0.71	0.14	.10	.6	2	0	447P	"
37	3/6	"	1.0	0.17	0.82	0.16	.14	.6	2	0	322P	"
38	3/7	"	1.8	0.27	0.95	0.23	.25	.6	3	0	848A	"
39	3/14	"	1.50	0.18	0.69	0.15	.09	.6	2	0	850A	"
40	3/21	W. E. Cole	1.5	.18	.65	0.14	.12	.6	2	0	500P	"
41	3/28	Lindsay	0.9	0.11	0.73	0.12	.08	.6	2	0	208P	FO 21
42	4/4	"	0.9	0.10	0.60	0.12	.06	.6	2	0	805A	"
43	4/9	"	6.0	4.57	2.29	1.16	10.	.6	6	0	810A	"
44	4/9	R. Lindsay	6.1	1.12	2.57	0.71	2.9	.6	5	.01	225P	"
45	4/11	"	5.9	0.90	1.39	0.56	1.2	.6	6	0	1008A	FO 21
46	4/18	"	5.0	0.44	0.96	0.38	.44	.6	4	0	1012A	"
47	4/25	"	0.9	0.11	1.18	0.54	.15	.6	2	0	844A	"
48	4/29	"	2.90	0.35	1.14	0.39	.40	.6	3	0	540P	"
49	5/2	"	2.2	0.17	1.65	0.39	.28	.6	3	0	542P	"
50	5/9	"	1.5	0.15	0.77	0.38	.19	.6	2	0	1210P	"
51	5/15	"	1.3	0.09	0.78	0.34	.07	.6	3	0	545P	"
52	5/6	"	1.0	0.12	1.20	0.18	.14	.6	2	0	550P	"
53	5/15	"	1.20	0.08	0.75	0.14	.06	.6	3	0	850A	"
54	5/20	"	1.1	0.07	0.97	0.12	.04	.6	2	0	855A	"
55	5/27	W. E. Cole	0.8	.06	.50	.11	.03	.6	2	0	900A	"
56	7/2	Kronster	0.5	.06	.50	.10	.05	.6	1	0	901A	"
											902A	"
											903A	"
											904A	"
											905A	"
											906A	"
											907A	"
											908A	"
											909A	"
											910A	"
											911P	"
											912P	"
											913P	"
											914P	"
											915P	"
											916P	"
											917P	"
											918P	"
											919P	"
											920P	FO 8

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 22 R

Discharge measurements of MONROVIA CREEK

at 200 ft. above junction with Sawpit Cr. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. ft., Mean velocity ft. per sec., Stage Height feet, Discharge Sec.-ft., Rating Pointed feet, Measured No., C. St. change Total, Begin End, Meter No. Contains 48 rows of data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

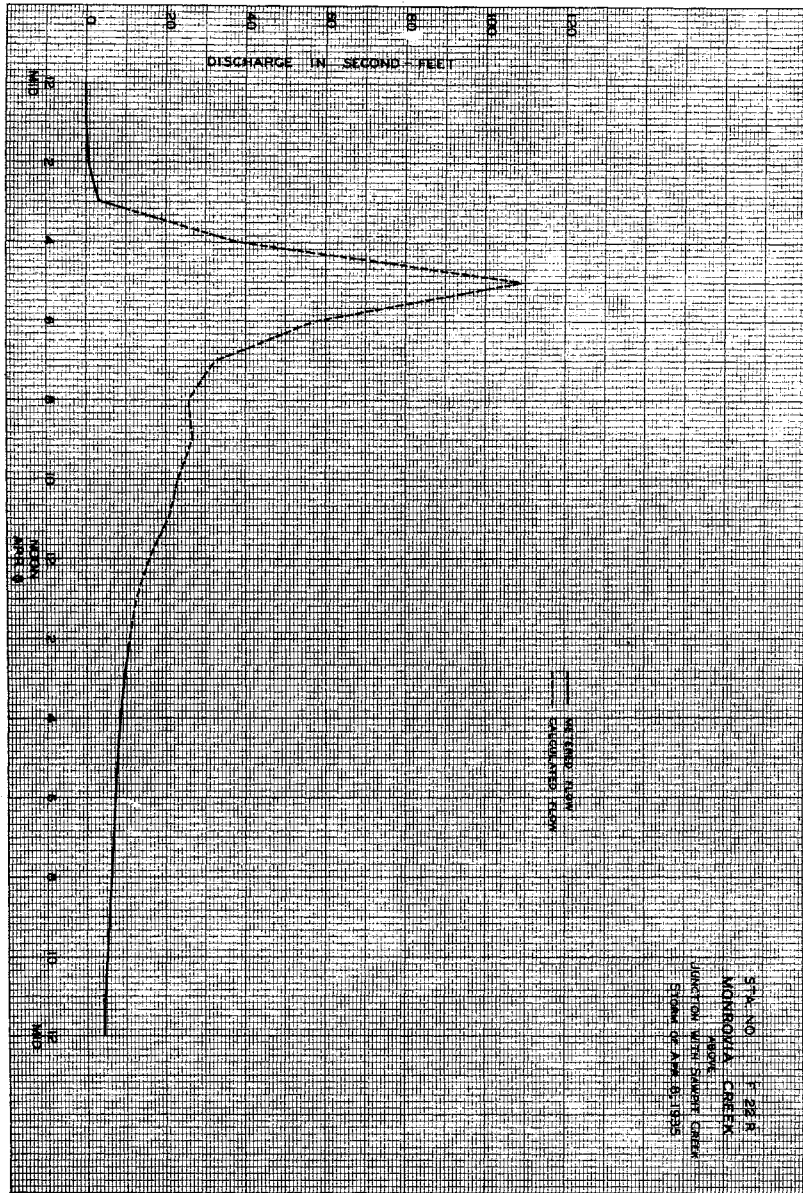
Station No. F 22 R

Discharge measurements of MONROVIA CREEK

at 200 ft. above junction with Sawpit Cr. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. ft., Mean velocity ft. per sec., Stage Height feet, Discharge Sec.-ft., Rating Pointed feet, Measured No., C. St. change Total, Begin End, Meter No. Contains 48 rows of data.

144



Sta. No. F 22R
MONROVIA CREEK
ABOVE
JUNCTION WITH SAWPIT CREEK
SHOWING DISCHARGE
FROM JANUARY 8, 1935

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 22 R

Daily discharge in second-feet of MONROVIA CREEK 200 ft. above junction with Sawpit Cr. for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.1	0.1	0.2	0.2	0.1	0.1	0.4	0.1	+	+	+
2	+	.1	.1	.2	.2	.1	.1	.2	.1	+	+	+
3	+	.1	.1	.1	.1	.1	.1	.2	.1	+	+	+
4	+	.1	.1	.1	.3	.2	.1	.3	.1	+	+	+
5	+	.1	.1	1.3	1.5	.2	.1	.2	.1	+	+	+
6	+	.1	.1	.6	1.4	.1	.1	.2	.1	+	+	+
7	+	.1	.1	.5	1.1	.3	.1	.3	.1	+	+	+
8	+	.1	.1	.6	1.0	.3	18	.1	.1	+	+	+
9	+	.1	.1	.8	.8	.4	2.7	.1	.1	+	+	+
10	+	.1	.1	.7	.8	.3	2.0	.1	.1	+	+	+
11	+	.1	.1	.6	.7	.2	1.1	.1	.1	+	+	+
12	+	.1	.1	.6	.6	.1	1.0	.1	.1	+	+	+
13	+	.1	.1	.6	.6	.1	.9	.1	.1	+	+	+
14	+	.1	4.6	.6	.6	.1	.7	.1	.1	+	+	+
15	+	.1	1.6	1.2	.4	.1	.6	.1	.1	+	+	+
16	+	.1	1.0	.7	.2	.1	.6	.1	.1	+	+	+
17	.1	.1	.7	.6	.1	.1	.5	.1	.1	+	+	+
18	.1	.1	.6	.6	.1	.1	.5	.1	.1	+	+	+
19	+	.1	.6	.6	.1	.1	.5	.1	.1	+	+	+
20	+	.1	.5	.6	.1	.1	.4	.1	.1	+	+	+
21	+	.1	.5	.5	.1	.1	.2	.1	.1	+	+	+
22	+	.1	.2	.5	.1	.1	.2	.1	.1	+	+	+
23	+	.1	.2	.4	.1	.1	.2	.1	.1	+	+	+
24	.1	.1	.2	.4	.1	.1	.2	.1	.1	+	+	+
25	.1	.1	.2	.4	.1	.1	.1	.1	.1	+	+	+
26	.1	.1	.1	.3	.1	.1	.1	.1	.1	+	+	+
27	.1	.1	.1	.3	.1	.1	.1	.1	.1	+	+	+
28	.1	.1	.4	.3	.1	.1	.1	.1	.1	+	+	+
29	.1	.1	.5	.2	.1	.1	.3	.1	.1	+	+	+
30	.1	.1	.2	.2	.1	.1	.4	.1	.1	+	+	+
31	.1	.1	.2	.2	.1	.1	.1	.1	.1	+	+	+
MEAN	1.0	5.0	14.4	15.4	11.7	4.3	31.9	4.1	1.3	+	+	+

MEAN	0.05	0.10	0.46	0.50	0.42	0.14	1.06	0.13	0.04	+	+	+
ACRE FEET	2.0	6.0	22.	31.	25.	8.5	63.	8.1	2.5	+	+	+

Remarks: + indicates discharge 0.05 sec. ft. or less.

YEAR 1935 MEAN 0.239
ACRE FEET 173.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 22R

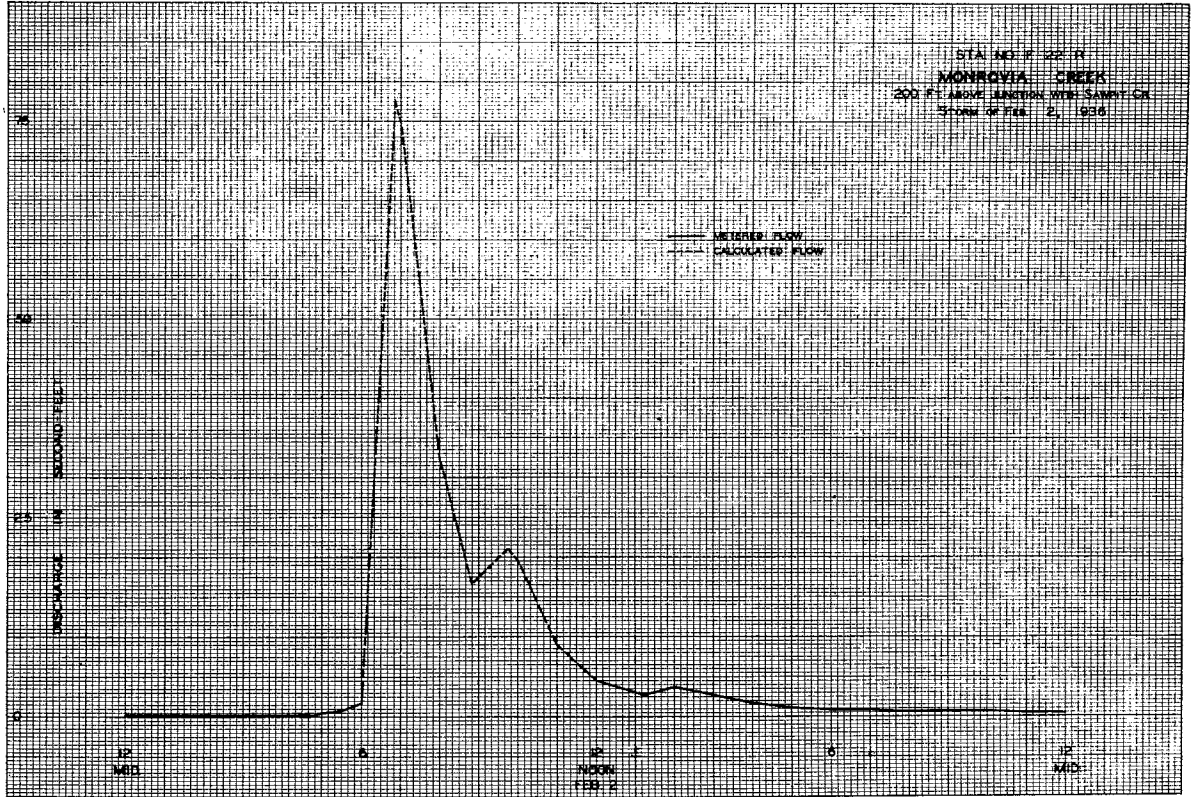
Daily discharge in second-feet of MONROVIA CREEK 200 ft. above junction with Sawpit Cr. for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	0.1	0.5	0.8	0.6	0.1	+	+	+	+
2	+	+	+	+	0.4	0.5	1.2	+	+	+	+	+
3	+	+	+	+	0.3	0.2	1.7	+	+	+	+	+
4	+	+	+	+	0.3	0.1	0.9	+	+	+	+	+
5	+	+	+	+	0.2	0.1	0.8	+	+	+	+	+
6	+	+	+	+	0.2	0.1	0.5	+	+	+	+	+
7	+	+	+	+	0.2	0.1	0.5	+	+	+	+	+
8	+	+	+	+	0.2	0.1	0.5	+	+	+	+	+
9	+	+	+	+	0.2	0.1	0.4	+	+	+	+	+
10	+	+	+	+	0.2	0.1	0.5	+	+	+	+	+
11	+	+	+	+	4.4	0.1	0.2	+	+	+	+	+
12	+	+	+	+	5.5	0.1	0.2	+	+	+	+	+
13	+	+	+	+	8.5	0.1	0.2	+	+	+	+	+
14	+	+	+	+	6.5	0.1	0.1	+	+	+	+	+
15	+	+	+	+	6	0.1	0.1	+	+	+	+	+
16	+	+	+	+	11	0.1	0.1	+	+	+	+	+
17	+	+	+	+	6	0.1	0.1	+	+	+	+	+
18	+	+	+	+	3.4	+	0.1	+	+	+	+	+
19	+	+	+	+	1.8	+	0.1	+	+	+	+	+
20	+	+	+	+	1	0.1	0.1	+	+	+	+	+
21	+	+	+	+	1.1	0.1	0.1	+	+	+	+	+
22	+	+	+	+	1.4	0.2	0.1	+	+	+	+	+
23	+	+	+	+	6.5	0.3	0.1	+	+	+	+	+
24	+	+	+	+	1.5	0.4	0.1	+	+	+	+	+
25	+	+	+	+	1.6	0.5	0.1	+	+	+	+	+
26	+	+	+	+	1.4	0.5	0.1	+	+	+	+	+
27	+	+	+	+	1.2	0.5	0.1	+	+	+	+	+
28	+	+	+	+	1.4	0.5	0.1	+	+	+	+	+
29	+	+	+	+	1.1	0.5	0.1	+	+	+	+	+
30	+	+	0.1	+	+	0.9	0.1	+	+	+	+	+
31	+	+	0.1	+	+	1.4	0.1	+	+	+	+	+
MEAN	+	+	0.3	0.1	85.3	0.0	10.2	0.1	+	+	+	+

MEAN	+	+	0.01	+	2.94	0.29	0.34	+	+	+	+	+
ACRE FEET	+	+	0.50	0.20	169	18	20	0.20	+	+	+	+

Remarks: + indicates discharge 0.05 second-feet or less.

YEAR 1936 MEAN 0.29
ACRE FEET 208.



Station F195R
MONROVIA STORM DRAIN near Peek Road

Location

On the east wing wall of approach to concrete channel of Monrovia Storm Drain at Peek Road and about 1 mile south of Monrovia

Drainage area

4.47 square miles.

Channel and control

Channel - sand and gravel
Control - concrete wall at beginning of concrete lined channel.

Discharge measurements

At low flow by wading near station;
At high flow by floats near station.

Recorder

Installed April 25, 1932 in a box type shelter house over a corrugated iron pipe stilling well.
Stevens type L 8 day recorder.

Regulation

None

Diversions

None

Records available

April 25, 1932 to September 30, 1936

Extremes of discharge

1932-33
Maximum Not determined
Minimum No flow most of year
1933-34
Maximum 554 second feet January 1
Minimum No flow most of year
1934-35
Maximum 429 second-feet January 5
Minimum No flow most of year

1935-36

Maximum 369 second-feet February 2
Minimum No flow most of year

Accuracy

Poor
Estimated: October 17, 1934; January 5, 9 April 8,
October 14, 1935; February 13, 14, 18, 1936.
Clock stopped February 11, 1936.

Operation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 161 R**

Station F161R

MONTEBELLO STORM DRAIN at Rio Hondo

Discharge measurements of **MONTEBELLO STORM DRAIN**

at **outlet into Rio Hondo at Mines Ave.** during the year ending September 30, 19**35**

Location

On south wing wall of storm drain outlet, 200 feet east of Mines Avenue and 220 feet west of west bank of the Rio Hondo at Montebello

Drainage area

9.6 square miles

Channel and Control

On concrete apron below concrete covered drain. A drop off exists just below the station. On April 11, 1935 a diversion wall 4 inches high was built across the drain 20 feet above the station.

Discharge measurements

At low flow by wading at outlet.
At high flow from head wall at end of covered section.

Recorder

Installed January 12, 1932 in a box type house over a corrugated iron pipe stilling well. Stevens, vertical, type L, 8 day recorder.

Regulation

None

Diversions

None, prior to April 11, 1935. Subsequent to April 11, 1935 a gated twelve inch pipe diverts the summer flow from a point 20 feet above the station to the Rio Hondo. No diversion during the winter months.

Records available

January 12, 1932 to September 30, 1936.

Extremes of discharge

- 1931-32
Maximum 531 second-feet January 31
Minimum no flow at various times during year
- 1932-33
Maximum 713 second-feet January 19
Minimum no flow at various times during year
- 1933-34
Maximum 1360 second-feet January 1
Minimum no flow at various times during year
- 1934-35
Maximum 1140 second-feet January 5
Minimum no flow most of year
- 1935-36
Maximum 374 second-feet February 14
Minimum no flow most of year

Accuracy

Poor.
Well sanded several times.
No communication several times.
Clock stopped several times.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq.-ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating	Method	Meas. corr. No.	G. H. change Total	Stage	Meter No.
1	10/17	Bonadiman	16.2	12.88	4.94	.74	65.			.6	6	4.07	600A
2	10/17	"	16.2	12.49	3.89	.66	49.			.6	6	-.06	688A
3	1/4	"	16.2	5.90	2.16	.22	15.			.6	6	0	627A
4	2/9	" - Wilkins	9.0	1.47	.69	.00	1.0			.6	4	-	910A
5	6/6	"				.01	Trickle					-	917A
6	8/28	"					0					-	880A
7	9/6	"					0					-	300P
													900A

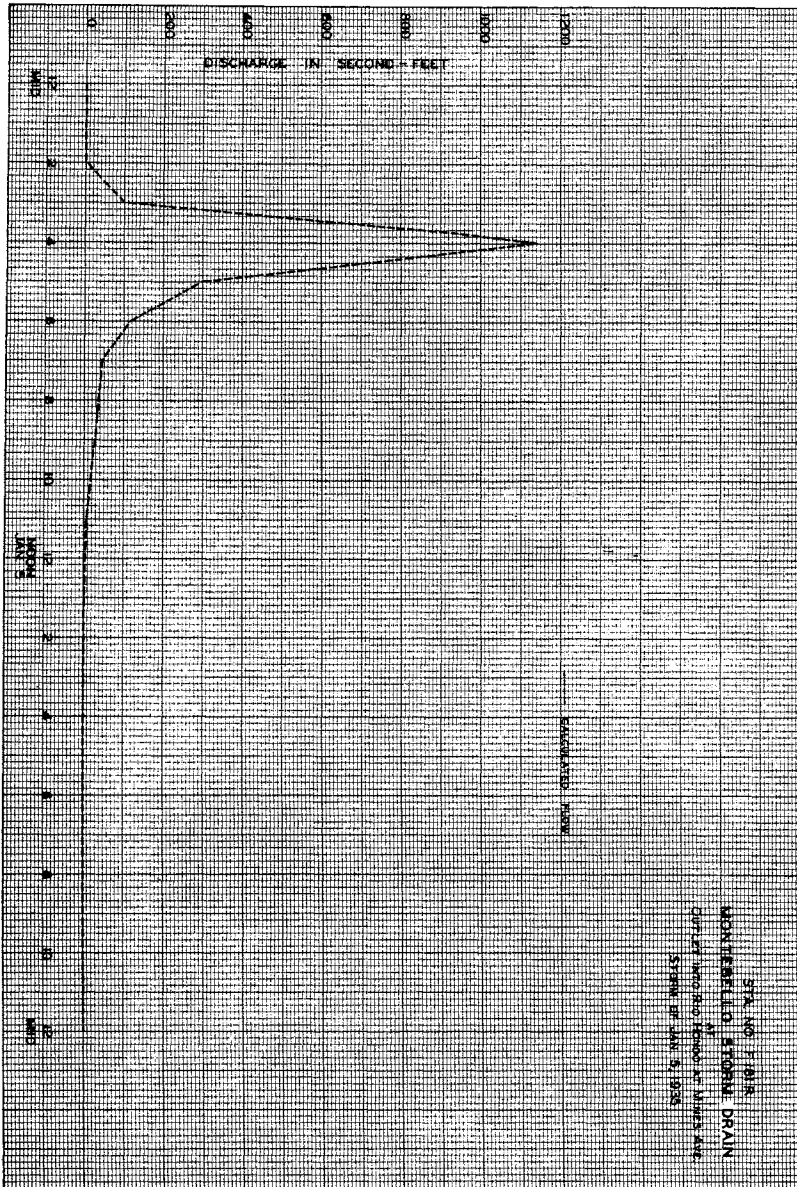
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 161 R**

Discharge measurements of **MONTEBELLO STORM DRAIN**

at **Outlet into Rio Hondo at Mines Ave.** during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq.-ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating	Method	Meas. corr. No.	G. H. change Total	Stage	Meter No.
1	10-17	Bonadiman					0						200P
2	11-21	"					0						300P
3	12-4	"	5.0	.25	.24	.09	.06			2	-		950A 953A PG 9
4	12-12	"					0						230P
5	12-19	"					0						130P
6	12-27	"					0						800A
7	1-2	"					0						300P
8	1-9	"					0						245P
9	1-16	"					0						200P
10	2-17	"				.09	TR.						500P
11	6-25	"					0						810A
12	7-2	"					0						815A
13	9-2	"					0						920A



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 181 R

Daily discharge, in second-feet of MONTEBELLO STORM DRAIN at outlet into Rio Hondo at Mines Ave for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	.6	0	0	0	0	0	0
2	0	0	0	0	0	59	0	0	0	0	0	0
3	0	0	0	0	0	2.1	0	0	0	0	0	0
4	0	0	0	0	19	.6	0	0	0	0	0	0
5	0	0	0	75	26	.6	0	0	0	0	0	0
6	0	0	0	0	48	.6	.6	0	0	0	0	0
7	0	0	0	0	4.4	28	4.1	0	0	0	0	0
8	0	0	12	0	11	4.4	114.	0	0	0	0	0
9	0	0	0	11	1.5	6	4.4	0	0	0	0	0
10	0	0	0	9.5	1.5	1.5	4.4	0	0	0	0	0
11	0	0	0	0	1.5	.9	3.7	0	0	0	0	0
12	0	0	4.9	0	1.5	.9	3.7	0	0	0	0	0
13	0	0	76	0	1.5	.9	3.7	0	0	0	0	0
14	0	0	21	0	1.8	.9	3.7	0	0	0	0	0
15	0	8	.9	33	1.2	.9	3.7	0	0	0	0	0
16	0	32	0	0	1.8	.9	3.7	0	0	0	0	0
17	73	11	0	0	1.8	.9	3.7	0	0	0	0	0
18	9.5	2.5	0	0	1.5	.9	3.7	0	0	0	0	0
19	.6	15	0	0	1.5	.9	2.4	0	0	0	0	0
20	0	+	0	0	1.2	.9	1.8	0	0	0	0	0
21	0	+	0	0	.9	.9	.9	0	0	0	0	0
22	0	+	0	0	.9	.9	.9	0	0	0	0	0
23	0	+	0	0	.9	.9	.9	0	0	0	0	0
24	0	+	0	0	.9	8.5	.6	0	0	0	1.2	0
25	0	0	0	0	.6	0	.6	0	0	0	1.2	0
26	0	0	0	0	.6	0	.6	0	0	0	1.2	0
27	0	0	0	0	.6	0	.6	0	0	0	0	0
28	0	0	7.8	0	.6	0	.6	0	0	0	0	0
29	0	0	0	0	.6	.3	3.9	0	0	0	0	0
30	0	0	0	0	0	0	.6	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	83.1	68.5	118.6	128.5	132.4	128.0	171.1	0	0	0	3.6	0
ACRE- FEET	2.68	2.28	3.83	4.15	4.73	4.13	5.70	0	0	0	.12	0
REMARKS	165.	136.	235.	255.	263.	254.	339.	0	0	0	7.1	0

MEAN 2.68
ACRE- FEET 165.
REMARKS + indicates discharge 0.05 sec. ft. or less.
YEAR ENDING 1935
MEAN 2.28
ACRE- FEET 16.50

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

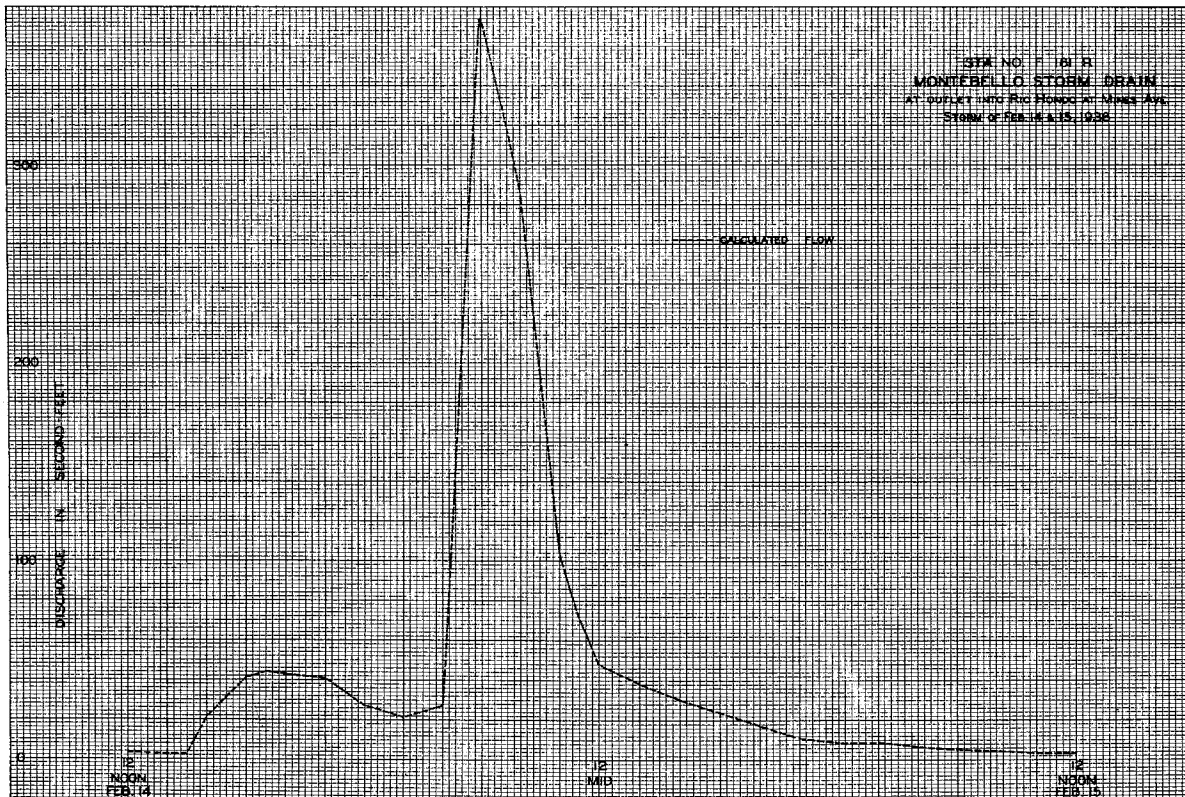
Sta. No. F 181 R

Daily discharge, in second-feet of MONTEBELLO STORM DRAIN at outlet into Rio Hondo at Mines Ave for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0.4	15.1	14.7	1.1	338.9	48.9	29.0	0	0	0	0	0
ACRE- FEET	0.01	0.50	0.47	0.04	11.7	1.58	0.97	0	0	0	0	0
REMARKS	0.79	30	24	2.2	672	97	58	0	0	0	0	0

MEAN 1.22
ACRE- FEET 88.9

The Resolder was not operated during the period of probable no flow, May 28 to July 26.



Station F46R
NIGGER SLOUGH at Wilmington Ave.

Location

On the north bank of slough about 50 feet above the intersection of Wilmington Ave. and 223rd Street 2 miles north of Wilmington.

Drainage area

66 square miles

Channel and control

At and above the station the channel is clay. Below the station a concrete culvert goes under Wilmington Avenue. A 2 inch plank, intended to act as a weir, was placed across the upper end of the culvert on November 16, 1932.

Discharge measurements

At low flows by wading near gage.
At high flows from foot-bridge

Recorder

Installed January 14, 1930 in a box type house over a corrugated iron pipe stilling well.
Recorder removed October 17, 1935 due to backwater conditions.

Regulation

None

Diversions

None

Records available

Discharge measurements November 1928 to January 1930 recorder records January 14, 1930 to September 30, 1934. Recorder records are also available from October 1, 1934 to September 30, 1935 although the backwater from a sewer discharging into the culvert about 60 feet below the station affected the stage-discharge relation to such an extent that it was decided not to publish the record and to abandon the station.

Extremes of discharge

1928-29 Maximum 5 second-feet March 15
Minimum .8 second-foot December 22
1929-30 Maximum 42 second-feet March 17
Minimum 3.1 second-feet April 26
1930-31 Maximum 15 second-feet April 26
Minimum .8 second-foot January 23
1931-32 Maximum 47 second-feet February 10
Minimum 1.0 second-foot December 13
1932-33 Maximum 28 second-feet January 31
Minimum no flow four days in September
1933-34 Maximum 66 second-feet January 2
Minimum 1.4 second-feet January 1

Operation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 118 R**

Discharge measurements of PACOTIMA CREEK

xx Parshall flume below Pacoima Dam during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating Percent diff.	Method	Mean flow No.	C. R. change Total	Begin Year	End Year	Meter No.
1	1/16	Loce - Miller	6.7	5.12	2.26	.92	18.		.6	7	-	410P 955A	FO 15	
2	1/18	"	13.0	11.2	2.50	1.24	28.		.6	10	-.08	100EA 850A	"	
3	1/25	"	15.5	19.1	2.60	1.72	50.		.6	10	+.38	905A 920A	"	
4	1/28	"	15.0	16.9	2.42	1.45	41.		.6	11	-.07	945A 1100A	"	
5	1/29	Livingstone	16.0	18.6	2.00	1.72	56.		.6	11	-.08	1140A 1140A	"	
6	1/30	Loce - Livingstone	16.3	18.8	2.89	1.88	54.		.6	11	-.04	1200P 455P	"	
7	1/30	"	16.1	18.2	2.74	1.83	50.		.6	10	-.08	455P 945A	"	
8	1/31	"	15.6	14.7	2.99	1.56	44.		.6	11	+.04	1000A 1000A	"	
9	2/1	Livingstone	15.4	17.2	2.49	1.97	60.		.6	10	-.14	1040A	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F118 R**
for the year ending September 30, 1935

Day	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
Discharge in second-feet of	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nov.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jan.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sept.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	22.4	17.5	27.2	49.7	14.1	3.2	2.2																								
Mean	0.72	0.56	0.88	16.1	4.02																										
Max	44.	35.	54.	987.	64.																										

Recorder removed Feb. 1.

Indicates discharge 0.05 second-feet or less.

* Estimated.

Station F118B-R

PACOTIMA CREEK Parshall flume below Pacoima Dam

Location

About 500 feet below Pacoima Dam and about 450 feet above Station F118R. The station was moved to place it above a side canyon which during storms carried considerable quantities of sand and gravel into the stream above Station F118R.

Drainage area

28.2 square miles.

Channel and control

Sand, gravel and boulders above and below a 4 foot Parshall flume.

Recorder

Installed February 9, 1935 in a box type house over a wooden stilling well. Horizontal rational recorder.

Regulation

Regulated by Pacoima Dam.

Diversions

None.

Records available

February 9, 1935 to September 30, 1936. (For prior records see station F118R)

Extremes of discharge

At Station F118R:
March 24 to September 30, 1933
Maximum 81 second-feet April 13
Minimum no flow at various times
1933-34
Maximum 54 second-feet January 26
Minimum no flow at various times during year
At Stations F118R and F118B-R
1934-35
Maximum est. 174 second-feet August 21
Minimum no flow at various times during year

At Station F118B-R
1935-36

Maximum 153 second-feet May 13
Minimum no flow at various times during year

Accuracy

Fair except when estimated and except when sand and gravel in flume; after even moderate flows sand and gravel was deposited in the flume.

Glock stopped: February 7, April 28 to May 2, 1936.

Pacoima Dam records used to supplement base data October 1, 1935 to February 29, 1936.

There is a considerable underflow at this station. The discharges given are for the flow through the flume only.

Operation

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

STATION NO. F118B-R

DISCHARGE MEASUREMENTS OF PACOIMA CREEK

at Parshall flume below Pacoima Dam DURING THE YEAR ENDING SEPTEMBER 30, 1935

Table with columns: No., Date, Made by, Stage, Area of Section, Mean velocity, Gate height, Discharge, Rating, etc. Rows include measurements for dates like 8/16, 8/18, 8/1, etc.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 118B-R

Discharge measurements of PACOIMA CREEK

at Parshall Flume Below Pacoima Dam during the year ending September 30, 1936

Table with columns: No., Date, Made by, Stage, Area of Section, Mean velocity, Gate height, Discharge, Rating, etc. Rows include measurements for dates like 4-17, 4-18, 5-8, etc.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT. Sta. No. F118B-R

DISCHARGE MEASUREMENTS OF PACOIMA CREEK Parshall Flume below Pacoima Dam

for the year ending September 30, 1935

Monthly discharge data table for 1935, columns: Day, Oct, Nov, Dec, Jan, Feb, Mar, Apr, May, June, July, Aug, Sept. Includes a note 'Recorder installed Feb. 9'.

Summary table for 1935 with columns: Month, Max, Min, Total, etc. Includes a note '+ Indicates discharge 0.05 second-feet or less.'

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT. Sta. No. F 118B-R

DISCHARGE MEASUREMENTS OF PACOIMA CREEK Parshall Flume below Pacoima Dam

for the year ending September 30, 1936

Monthly discharge data table for 1936, columns: Day, Oct, Nov, Dec, Jan, Feb, Mar, Apr, May, June, July, Aug, Sept.

Summary table for 1936 with columns: Month, Max, Min, Total, etc. Includes a note '+ Indicates discharge 0.05 second-feet or less.'

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 16 R**

Station F16R
PACOTIMA WASH at Parthenia St.

Discharge measurements of **PACOTIMA WASH**

at **Parthenia St.** during the year ending September 30, 19**36**

Location

On the downstream side of Parthenia Street bridge about 3 miles northwest of Van Nuys

Drainage area

50.6 square miles.

Channel and control

Channel is composed of sand and gravel. Weeds and brush along banks. No artificial control.

Discharge measurements

At low flow by wading near gage.
At high flow from upstream side of highway bridge.

Recorder

Installed December 26, 1928 in a box type house over a corrugated iron pipe stilling well. Rational horizontal 7 day water stage recorder.

Regulation

Flow partially regulated by the Pacoima Dam.

Diversions

Two small diversions for irrigation near mouth of canyon. Water diverted to the Pacoima Spreading Grounds during spreading operations.

Records available

December 26, 1928 to September 30, 1936.

Extremes of discharge

1929-30
Maximum 70 second-feet January 11
Minimum No flow most of year

1930-31
Maximum 270 second-feet February 4
Minimum No flow most of year

1931-32
Maximum 477 second-feet February 8
Minimum No flow most of year

1932-33
Maximum 60 second-feet January 16
Minimum No flow most of year

1933-34
Maximum 305 second-feet January 1
Minimum No flow most of year

1934-35
Maximum 70 second-feet January 5
Minimum No flow most of year

1935-36
Maximum 98 second-feet February 23
Minimum no flow most of year

Accuracy

Poor
Clock stopped November 15, 22, 1934
Inlet obstructed January 18, 1935.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage height feet	Discharge Sec.-ft.	Rating Percent diff.	Method	Mean gage No.	O. H. change Total	Begin gage No.	End gage No.	Mean No.
1	11/16	Luce & Miller	16.2	3.91	1.51	2.98	6.0		.6	7	-.01	940P	945P	PG 13
2	11/19	" "	17.5	6.00	3.44	3.09	21.		.6	9	0	425P	430P	"
3	12/15	" "	11.0	2.68	1.90	2.96	4.9		.6	6	0	1085A	1045A	"
4	12/13	" "	15.5	5.43	2.84	3.07	15.		.6	8	0	910P	900P	"
5	1/18	" "	8.7	1.96	2.27	2.92	4.4		.6	8	0	1125A	1125A	"
6	3/2	" "	18.7	6.35	2.96	3.04	19.		.6	7	-.02	710A	720A	"
7	5/25	" "	10.1	1.89	1.52	2.86	2.9		.6	11	0	1110A	1110A	"

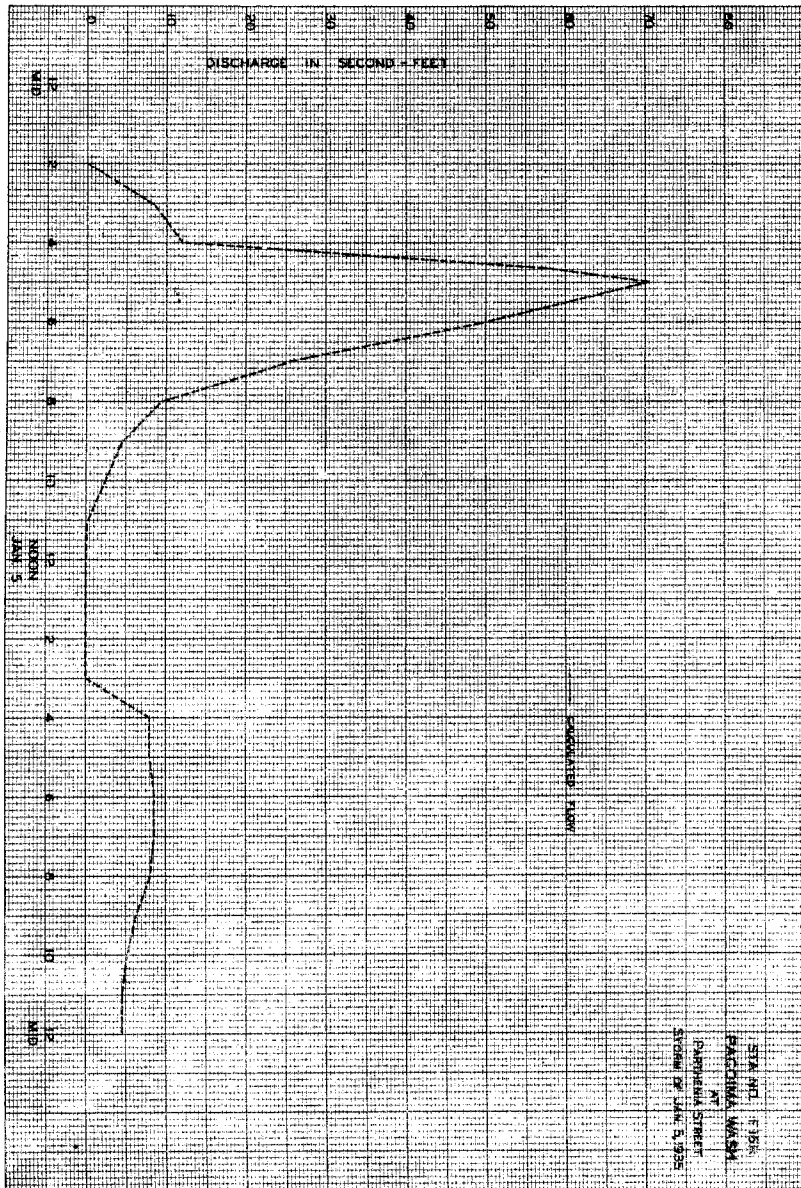
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 16 R**

Discharge measurements of **PACOTIMA WASH**

at **Parthenia St.** during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage height feet	Discharge Sec.-ft.	Rating Percent diff.	Method	Mean gage No.	O. H. change Total	Begin gage No.	End gage No.	Mean No.
1	2-1	Luce - Miller	21.8	6.78	2.73	3.02	18		.6	11	-.02	230P	240P	PG 13
2	2-2	Luce - Busch	30.0	13.96	4.14	3.28	58		.6	10	-.26	625A	635A	"
3	2-2	" "	11.2	2.92	2.2	2.88	6.4		.6	7	-.01	1125A	1130A	"
4	2-11	" "	30.2	14.38	4.40	3.24	63		.6	11	-.04	1255P	1035P	"
5	2-11	" "	30.5	13.15	4.08	3.22	54		.6	11	-.04	1055P	1135P	"
6	2-11	Miller - Livingston	17.2	5.11	2.87	3.00	15		.6	10	0	820P	830P	PG 35
7	2-12	Luce - Busch	8.0	2.27	2.91	2.93	6.6		.6	6	0	1125A	1125A	"
8	2-12	Miller-Livingston	20.0	14.76	5.92	3.38	89		.6	10	0	330P	355P	"
9	2-13	Luce - Miller	10.7	2.11	1.65	2.78	3.5		.6	6	-.02	1250A	1274A	PG 13
10	2-14	Luce - Livingston	37.0	16.92	4.29	3.22	72		.6	11	-.04	832P	845P	"
11	2-15	Luce	10.5	2.90	2.27	2.82	6.6		.6	6	-.01	945A	955A	"
12	2-16	"	22.3	8.65	3.76	3.04	33		.6	10	-.01	705A	715A	"
13	2-23	Luce - Miller	20.0	13.24	4.76	3.20	63		.6	10	-.04	215A	225A	"
14	2-23	Luce	6.8	1.18	1.65	2.67	2.0		.6	6	0	1255P	1055P	"
15	3-30	Luce - Busch	30.0	15.65	4.44	3.18	70		.6	12	-.03	120P	1210P	"



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F. C. Dist. Form 14

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 15 R

Daily discharge, in second-feet of PACOIMA WASH at Parthenia St. for the year ending September 30, 19 35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	10	0	0	0	0	0	0	0	0
6	0	0	0	1.5	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	9	0	0	0	0	0	0	0	0	0
14	0	0	10	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	1.7	0	0	0	0	0	0	0	0	0	0
17	0	1.1	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	4.0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	1.8	0	0	0	0	0	0	0	0	0	0	0
MEAN	0.06	0.19	0.65	0.52	0.01	0.07	0.09	0.04	0	0	0	0
ACCU. FEET	5.6	11.	40.	38.	0.79	4.2	5.6	2.4	0	0	0	0

Remarks: + indicates discharge 0.05 sec. ft. or less.

YEAR OR DECADE
MEAN
ACCU. FEET

F. C. Dist. Form 14

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

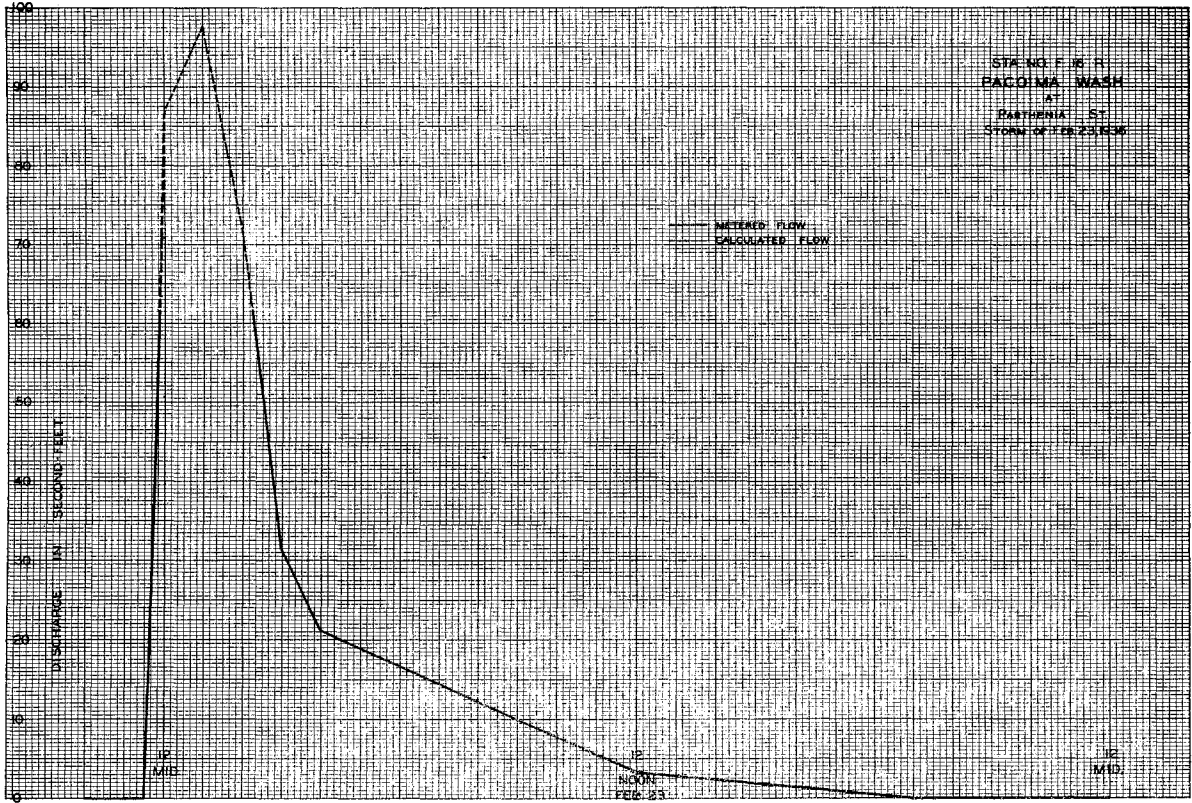
Sta. No. F16R

Daily discharge, in second-feet of PACOIMA WASH at Parthenia St. for the year ending September 30, 19 36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
ACCU. FEET	0	0	0	0	0	0	0	0	0	0	0	0

Remarks: + indicates discharge 0.05 second-foot or less.

YEAR OR DECADE
MEAN
ACCU. FEET



Station P4OR
PUDDINGSTONE CREEK below Puddingstone Dam

Location
On east side of Puddingstone Channel about 1000 feet below Puddingstone Dam near San Dimas

Drainage area
32.7 square miles, including area above diversion dam on San Dimas Creek

Channel and control
Channel of sand and gravel.
Control - reinforced concrete with notch 18 inches deep by 24 inches wide.

Discharge measurements
By wading near station

Recorder
Installed December 28, 1927 in a F. C. Standard type house over a concrete stilling well.
Rational horizontal 7 day water stage recorder.

Regulation
Flow partially regulated by Puddingstone Dam.

Diversions and Regulation or Regulation
Puddingstone Diversion

Diversions
San Dimas Water Co. diverts water above the station.

Records available
December 28, 1927 to September 30, 1936

Extremes of discharge

1927-28
Maximum .6 second-feet February 4
Minimum no flow at various times during year.

1928-29
Maximum 2 second-feet December 13
Minimum no flow at various times during year.

1929-30
Maximum 1.4 second-feet May 3
Minimum no flow at various times during year

1930-31
Maximum .9 second-foot April 26
Minimum no flow at various times during year

1931-32
Maximum 15 second-feet February 9
Minimum + October 29

1932-33
Maximum 33 second-feet January 29
Minimum no flow at various times during year

1933-34
Maximum not determined
Minimum + September 17-18 and 20

1934-35
Maximum 4.3 second-feet October 17
Minimum + several times during year

1935-36
Maximum 13 second-feet February 12
Minimum .01 second-feet July 17

Accuracy
Good

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 740 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 740 R

Discharge measurements of PUDDINGSTONE CREEK

Discharge measurements of PUDDINGSTONE CREEK

below Puddingstone Dam during the year ending September 30, 1935

below Puddingstone Dam during the year ending September 30, 1935

Table with columns: No., Date, Made by, Wind, Area of Section, Mean velocity, Gt. height, Discharge, Return, Method, Meas. No., G. H. (Stage), P. H. (Water), Meas. No. Rows include measurements from 1934 to 1935, with names like Brewster and Boone.

Table with columns: No., Date, Made by, Wind, Area of Section, Mean velocity, Gt. height, Discharge, Return, Method, Meas. No., G. H. (Stage), P. H. (Water), Meas. No. Rows include measurements from 1934 to 1935, with names like Brewster.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Year	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Remarks	0.65. 3.03 3.14 2.59. 1.68. 0.93. 1.42 1.52 1.08 0.51											

Year 0.00
Maximum 0.00
Minimum 0.00
Average 4.41

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Year	1.22	0.00	0.66	0.77	9.52	0.77	1.21	0.75	0.99	0.60	0.58	0.46
Maximum	0.04	0.02	0.02	0.02	0.35	0.02	0.04	0.02	0.03	0.02	0.02	0.02
Minimum	0.24	0.12	0.13	0.12	0.19	0.15	0.24	0.14	0.20	0.12	0.12	0.91
Average	0.04	0.02	0.02	0.02	0.35	0.02	0.04	0.02	0.03	0.02	0.02	0.02
Remarks	9.52 0.77 1.21 0.75 0.99 0.60 0.58 0.46											

Year 1.22
Maximum 0.04
Minimum 0.24
Average 0.05

Station F192R
RIO HONDO at Lower Azusa Road

Location
On the downstream end of the West pier of Lower Azusa Road bridge, about 1 1/2 miles north of El Monte

Drainage area
A natural split near Arrow Highway divides the San Gabriel River into 2 branches; the west branch is known as the Rio Hondo. The San Gabriel River drainage area above the split is 230 square miles; the Rio Hondo drainage area from the split to station F192R is 54.9 square miles.

Channel and control
Channel - sand and gravel.
No artificial control

Discharge measurements
At low flow by wading near station.
At high flows from cable car 50 feet below the station.

Recorder
Installed March 29, 1932 in a F. C. Standard type house over a corrugated iron pipe stilling well.
An continuous recorder.

Regulation
Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, San Gabriel Dam No. 2 and Morris Dam. San Gabriel Dam No. 1 was under construction but the 30 foot by-pass tunnel was open at all times, therefore no regulation resulted.

Diversions
The City of Pasadena diverts water from the San Gabriel River.
The City of Monrovia diverts water from Monrovia Creek. There are several diversions for irrigation.

Records available
February 22, 1932 to March 29, 1932 stream measurements only.
March 29, 1932 to September 30, 1936 recorder records.

Extremes of discharge
1931-32
Maximum not determined
Minimum no flow at various times during year
1932-33
Maximum 5160 second-feet January 20
Minimum no flow most of year
1933-34
Maximum 5860 second-feet January 1
Minimum no flow most of year
1934-35
Maximum 604 second-feet April 8
Minimum no flow at various times during year
1935-36
Maximum 391 second-feet February 11
Minimum no flow most of year

Accuracy
Poor due to badly shifting control.
Inlet obstructed: December 28, 1934; January 7, 9, 15, 19, 1935; March 24, 1935; April 9, 1935; February 1, 3, 24 to 28, 1935; March 31, 1935; April 17, 1935.
Well sanded: March 23 to 26, 1935

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 192 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 192 R

Discharge measurements of RIO HONDO

Discharge measurements of RIO HONDO

at Lower Arroyo Road during the year ending September 30, 1955

at Lower Arroyo Road during the year ending September 30, 1955

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity Ft. per Sec., Gate Height Feet, Discharge Sec.-ft., Rating, Method, Mean Water No., G. H. Change Feet, Depth Ft., Meter No., No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity Ft. per Sec., Gate Height Feet, Discharge Sec.-ft., Rating, Method, Mean Water No., G. H. Change Feet, Depth Ft., Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 192 R

Discharge measurements of RIO HONDO at Lower Aruna Road during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Projected, Method, Mean No., G. Ht. above Total, Begin Time, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 192 R

Discharge measurements of RIO HONDO at Lower Aruna Road during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Projected, Method, Mean No., G. Ht. above Total, Begin Time, Meter No.

P. C. D. Form 104 (11-11-35)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT.

Sta. No. F 192 R

Daily discharge, in second-feet of RIO HONDO at Lower Aruna Road for the year ending September 30, 1936

Table with columns: Day, Discharge (second-feet) for each month from Oct to Sept.

Summary table with columns: Month, Mean Discharge, Max Discharge, Min Discharge, Remarks.

P. C. D. Form 104

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT.

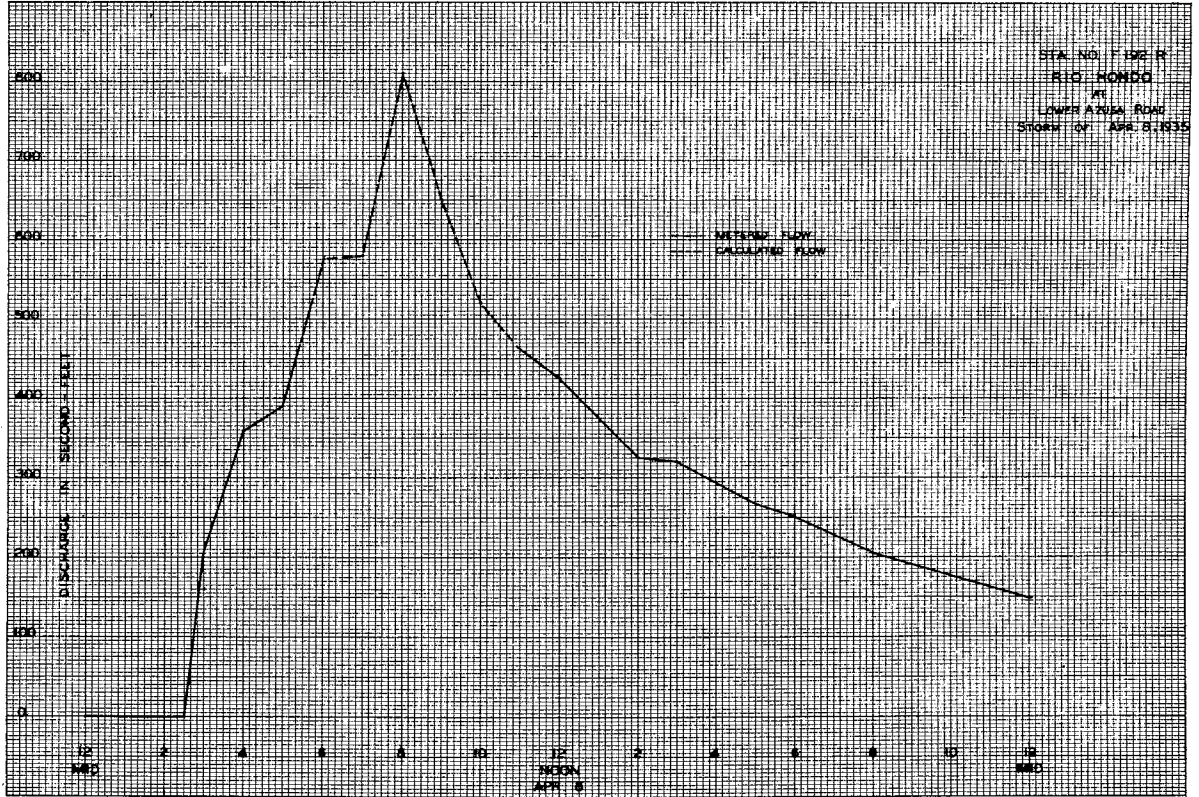
Sta. No. F 192 R

Daily discharge, in second-feet of RIO HONDO at Lower Aruna Road for the year ending September 30, 1935

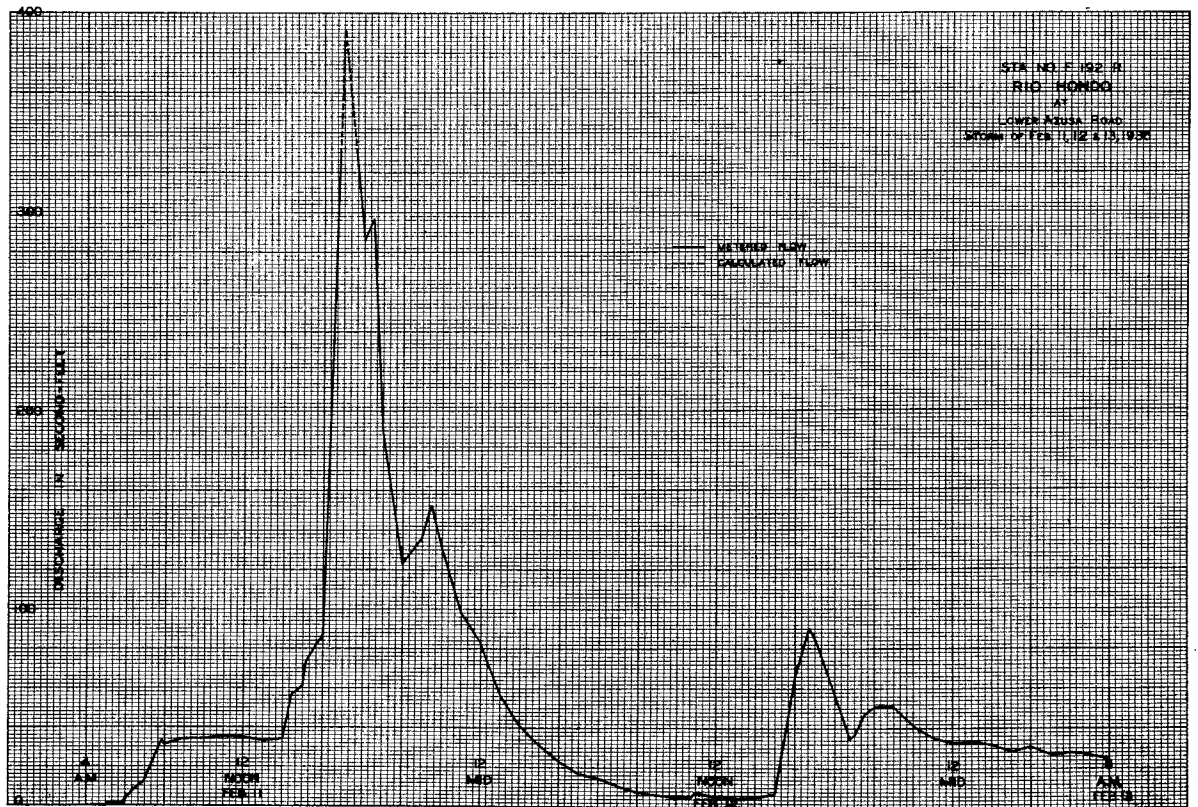
Table with columns: Day, Discharge (second-feet) for each month from Oct to Sept.

Summary table with columns: Month, Mean Discharge, Max Discharge, Min Discharge, Remarks.

HYDRAULIC ENGINEERING CO., INC. 1775 BROADWAY, NEW YORK 15, N.Y.



HYDRAULIC ENGINEERING CO., INC. 1775 BROADWAY, NEW YORK 15, N.Y.



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 64 R**

Station F64R

RIO HONDO 1000 ft. above Mission Bridge

Discharge measurements of **RIO HONDO**

for **1000 ft. above Mission Bridge** during the year ending September 30, 19**35**

Location

On west side of Rio Hondo approximately 1000 feet above Mission bridge, two miles northeast of Montebello. This station is the station operated in 1923 by the State Division of Water Rights.

Drainage area

A natural split near Arrow Highway divides the San Gabriel River into 2 branches; the west branch is known as the Rio Hondo. The San Gabriel River drainage area above the split is 230 square miles; the Rio Hondo drainage area from the split to station F64 R is 113 square miles.

Channel and control

Channel - sand and silt.
No artificial control.

Discharge measurements

At low flow by wading near station.
At high flow from cable car 60 feet below station.

Recorder

Installed in July, 1928 in a F. C. Standard type house over wood stilling well.
An continuous recorder.

Regulation

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dam No. 2 and Morris Dam and by Los Flores and Rubio Debris Basins. Construction on the Eaton Dam was started in the summer of 1926; the regulation resulting therefrom, if any, during the 1935-36 water year was negligible. San Gabriel Dam No. 1 was under construction but the 30 foot by-pass tunnel was open at all times, therefore, no regulation resulted.

Diversions

The city of Pasadena diverts water from Eaton Creek and from the San Gabriel River.
The city of Monrovia diverts water from Monrovia Creek. There are also several diversions for irrigation.

Records available

July 1928 to September 30, 1936 (for records prior to July 1928 see State Division of Water Rights Bulletins).

Extremes of discharge

1928-29
Maximum 2400 second-feet November 14
Minimum 6. second-feet August 23
1929-30
Maximum 1260 second-feet March 15
Minimum 6. second-feet September 4
1930-31
Maximum 4040 second-feet February 3
Minimum 4.3 second-feet August 31
1931-32
Maximum 6320 second-feet February 9
Minimum 1.7 second-feet October 2
1932-33
Maximum 4410 second-feet January 19
Minimum 3.5 second-feet July 26
1933-34
Maximum 11800 second-feet January 1
Minimum .3 second-foot December 1
1934-35
Maximum 3560 second-feet April 8
Minimum 3.8 second-feet July 28
1935-36
Maximum 2890 second-feet February 12
Minimum 7 second-feet August 25, September 5

Accuracy

Poor due to badly shifting control.
Float cable broken, December 20-27, 1934.
Clock stopped, February 9-10, November 21 to 27, 1935;
February 1, 1936.
Inlet obstructed; April 10-11, 1935.

Operation

Operated by the Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources Branch. The recorder house and well installed by the State Division of Water Rights.

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Open height feet	Discharge Sec.-ft.	Rating Form No.	Method	Stake No.	C. H. chart No.	Begin Date	End Date	Meter No.
1	10/4	Brewster	25.0	7.20	1.28	2.94	9.2		.6	8	0	950A		
2	10/10	"	14.0	5.20	1.50	2.94	9.3		.6	7	0	1006A		PC 8
3	10/17	Lindsay - Richards	92.0	161.84	7.9	4.31	727.		.6	8	-18	940A		"
4	10/17	"	92.0	158.4	5.98	4.13	611.		.6	9	-18	950A		"
5	10/17	"	92.0	187.9	3.64	4.2E	684.		.6	8	-25	1100A		PC 21
6	10/17	"	92.0	161.7	4.09	4.07	661.		.6	8	-07	1117A		"
7	10/17	"	89.0	119.9	2.26	3.67	271.		.6	9	*-08	1118A		"
8	10/17	"	90.0	144.9	4.06	4.06	588.		.6	8	*-11	1150A		"
9	10/17	" - Richards	96.0	259.	7.60	5.06	1970.		.6	8	-70	200P		"
10	10/17	"	95.0	219.	6.25	4.56	1370.		.6	7	-30	225P		"
11	10/18	"	40.0	20.65	1.46	2.76	20.		.6	11	-01	225P		"
12	10/18	"	48.0	54.9	2.28	3.27	125.		.6	9	-06	225P		"
13	10/25	Brewster	20.0	7.35	1.42	2.65	10.		.6	8	0	225P		PC 8
14	11/1	"	31.0	7.77	1.22	2.68	9.6		.6	10	0	225P		"
15	11/8	"	28.0	6.48	1.16	2.68	9.8		.6	7	0	225P		"
16	11/15	"	35.0	16.5	1.42	2.86	25.		.6	9	-01	225P		"
17	11/16	Lindsay-Richards	92.0	127.8	6.71	3.99	730.		.6	8	-05	225P		PC 21
18	11/16	"	92.0	134.1	5.32	3.92	715.		.6	8	-10	225P		"
19	11/16	"	44.0	55.5	2.47	3.26	135.		.6	10	-01	225P		"
20	11/16	"	38.5	24.0	1.47	2.76	85.		.6	8	*-11	225P		"
21	11/17	Cole - Hofmann	48.5	36.3	2.88	3.34	105.		.6	10	-01	225P		PC 28
22	11/19	Lindsay-Richards	88.0	79.95	2.85	3.55	228.		.6	11	-03	225P		PC 21
23	11/19	"	27.0	17.1	2.22	2.87	38.		.6	8	0	225P		"
24	11/22	Brewster	26.0	8.92	1.45	2.78	13.		.6	9	0	225P		PC 8
25	11/28	Brewster	26.0	8.80	1.39	2.77	12.		.6	7	0	225P		PC 8
26	12/6	"	34.0	9.08	1.51	2.80	12.		.6	10	0	225P		"
27	12/8	Lindsay	40.0	20.6	1.52	2.92	31.		.6	11	-03	225P		PC 21
28	12/12	Allen - Hillman	49.1	19.4	1.45	3.03	38.		.6	12	*-02	225P		PC 7
29	12/12	"	49.1	21.6	1.46	3.04	32.		.6	13	0	225P		"
30	12/13	Lindsay-Richards	92.0	142.95	4.5	4.27	779.		.6	9	-05	225P		PC 21
31	12/13	"	92.0	127.55	5.2	4.27	705.		.6	8	*-02	225P		"
32	12/13	"	92.0	149.45	4.6	4.31	815.		.6	8	*-10	225P		"
33	12/13	"	92.0	182.	5.94	4.49	1080.		.6	8	-06	225P		"
34	12/13	"	94.0	182.	5.44	4.63	1170.		.6	8	-04	225P		"
35	12/13	"	94.0	163.56	6.22	4.58	1050.		.6	8	-15	225P		"
36	12/13	Allen - Hillman	90.0	96.1	4.21	3.69	405.		.6	9	-01	225P		PC 7
37	12/13	"	90.0	106.95	3.68	4.07.			.6	9	-01	225P		"
38	12/13	"	92.0	7.65	4.02	4.05	595.		.6	9	*-15	225P		"
39	12/13	"	92.0	171.63	9.5	4.18	678.		.6	9	*-01	225P		"
40	12/13	"	92.0	175.95	2.6	4.26	985.		.6	9	*-02	225P		"
41	12/13	"	95.0	182.45	9.3	4.27	1080.		.6	9	*-01	225P		"
42	12/13	"	94.0	165.26	8.4	4.42	1120.		.6	9	*-27	225P		"
43	12/13	"	94.0	177.2	6.94	4.59	1220.		.6	9	*-08	225P		"
44	12/13	Lindsay-Richards	92.0	154.25	0.9	1.25	785.		.6	8	*-04	225P		PC 21
45	12/13	"	92.0	160.95	0.2	4.25	969.		.6	8	-04	225P		"
46	12/13	"	89.0	53.0	3.00	3.52	189.		.6	10	-08	225P		"
47	12/14	"	95.0	166.96	1.6	4.69	1020.		.6	8	-01	225P		"
48	12/14	"	94.0	159.06	9.2	4.51	941.		.6	9	-29	225P		"

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 64 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 64 R

Discharge measurements of RIO HONDO

Discharge measurements of RIO HONDO

1000 ft. above Mission Bridge during the year ending September 30, 1936

1000 ft. above Mission Bridge during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate height feet, Discharge Sec. ft., Rating Percent, Method, Mean Sec. No., G. H. (Gage) Total, Reg. No., Meter No.

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate height feet, Discharge Sec. ft., Rating Percent, Method, Mean Sec. No., G. H. (Gage) Total, Reg. No., Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 64 R

Discharge measurements of RIO HONDO

1000 ft. above Mission Bridge during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate height feet, Discharge Sec. ft., Rating Percent, Method, Mean Sec. No., G. H. (Gage) Total, Reg. No., Meter No.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 64 R**

Discharge measurements of RIO HONDO

at 1000 ft. above Mission Bridge during the year ending September 30, 1936

No.	Date	Made by	Waltz Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage Height feet	Discharge Sec. Ft.	Rating Point	Meter	Mean No.	G. H. Range Total	Begin End	Meter No.	
25	2-2	Lindsay - Young	100.	200.	5.24	5.24	1080.			.6	7	-17	804A 1100A 1100F	FC 28
26	2-2	Hillman	95.0	118.	3.08	4.43	363.			.6	13	-30	1100F 1100F	FC 36
27	2-2	Lindsay - Young	93.0	69.8	1.88	4.06	131.			.6	12	-05	1100A 1100A	FC 28
28	2-6	Brewster	19.0	9.16	1.66	3.47	15.			.6	7	0	955A 1010A	FC 8
29	2-11	Lindsay	89.0	50.5	2.76	4.10	139.			.6	11	+10	744A 752A 1010A	FC 28
30	2-11	Hillman	93.0	79.9	2.20	4.32	176.			.6	10	+03	1028A 1028A	FC 36
31	2-11	"	93.0	93.8	2.75	4.33	258.			.6	10	+07	1100A 1245P	" "
32	2-11	"	56.0	50.3	1.90	3.95	96.			.6	11	-10	115P 800P	" "
33	2-11	"	97.0	151.	5.17	-	779.			.6	11	-	837P 837P	" "
34	2-11	"	97.0	132.	4.07	-	540.			.6	11	-	900P 904P	" "
35	2-11	"	95.0	114.	3.62	-	414.			.6	10	-	1150A 1150A	" "
36	2-12	Lindsay-Wall	39.0	38.6	2.61	4.00	101.			.6	10	+09	1155A 615P	FC 28
37	2-12	Hillman	98.0	188.	6.64	5.03	1250.			.6	11	-26	642P 645P	FC 36
38	2-12	"	98.0	174.	5.84	4.78	1020.			.6	11	-25	715P 813P	" "
39	2-12	"	95.0	99.3	4.84	4.36	480.			.6	6	-	832P 832P	" "
40	2-12	"	80.0	80.7	4.80	4.00	387.			.6	13	-	904P 1255P	" "
41	2-13	Hillman-Delaney	95.0	122.	2.90	4.32	354.			.6	8	-24	200P 200P	" "
42	2-13	"	85.0	65.	2.69	4.15	175.			.6	6	-10	220P 1130A	" "
43	2-14	Lindsay-Wall	46.0	34.9	2.26	3.74	79.			.6	8	+01	1140A 425P	FC 28
44	2-14	Delaney-Flicker	56.0	44.8	2.05	3.90	92.			.6	5	-	518P 518P	" "
45	2-14	Delaney-Flicker	92.0	89.0	2.71	4.40	241.			.6	12	-12	533P 955P	FC 28
46	2-14	Delaney-Flicker	103.	219.	7.05	5.40	1540.			.6	7	+21	1000P 1005P	" "
47	2-14	"	103.	229.	6.36	5.53	1460.			.6	7	+05	1020P 305P	" "
48	2-15	Lindsay	47.0	32.6	1.97	3.68	64.			.6	10	-02	322P 645A	FC 28
49	2-16	Lindsay-Wall	95.0	137.	5.27	4.77	720.			.6	9	+09	700A 700A	FC 28
50	2-16	"	95.0	148.	4.99	4.82	741.			.6	9	+01	713A 1245P	" "
51	2-17	Lindsay	72.0	28.5	1.83	3.84	52.			.6	9	0	100P 945A	" "
52	2-18	Lindsay-Wall	93.0	80.8	2.93	4.29	237.			.6	12	+06	1000A 935A	" "
53	2-20	Brewster	42.0	14.9	1.43	3.67	21.			.6	9	0	955A 117A	FC 8
54	2-23	Lindsay-Wall	97.0	171.	5.84	5.08	1000.			.6	8	-13	133A 133A	FC 28
55	2-23	"	97.0	158.	5.43	4.98	859.			.6	8	-08	129A 930A	" "
56	2-27	Brewster	17.0	7.89	2.83	3.65	18.			.6	7	0	945A 950A	FC 28
57	3/5	"	41.0	18.4	1.78	3.75	33.			.6	8	0	1002A 905A	" "
58	3-12	"	46.0	22.7	1.77	3.82	40.			.6	10	-01	925A 925A	" "
59	3-19	"	26.0	14.5	2.13	3.78	31.			.6	10	0	950A 1000A	" "
60	3-26	"	40.0	21.7	2.02	3.84	44.			.6	10	+01	1020A 905P	" "
61	3-30	Lindsay-Wall	95.0	124.	4.73	4.73	590.			.6	9	-05	923P 923P	FC 28
62	3-30	"	95.0	118.	4.96	4.67	590.			.6	9	2.03	942P 1230A	" "
63	3-31	"	105.	250.	6.55	5.68	1640.			.6	9	-10	1246A 1246A	" "
64	3-31	"	105.	231.	6.13	5.59	1420.			.6	9	+02	105A 400A	FC 36
65	3-31	Hillman	94.0	87.7	3.98	-	360.			.6	7	-	935A 640A	FC 8
66	4-2	Brewster	24.0	9.54	1.63	3.70	16.			.6	9	0	950A 640A	FC 8
67	4-4	Lindsay-Wall	94.0	86.3	4.05	4.45	350.			.6	10	-02	651A 1205P	FC 28
68	4-4	"	70.0	37.7	1.85	3.95	70.			.6	9	0	1217P 930A	" "
69	4-9	Brewster	23.0	12.7	1.98	3.76	25.			.6	9	0	945A 930A	FC 8
70	4-16	"	44.0	16.7	1.51	3.82	25.			.6	12	0	950A 950A	" "
71	4-23	"	36.0	10.2	1.38	3.72	14.			.6	9	0	1000A 920A	" "
72	4-30	"	23.0	9.86	1.34	3.75	13.			.6	8	0	935A	" 2

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 64 R**

Discharge measurements of RIO HONDO

at 1000 ft. above Mission Bridge during the year ending September 30, 1936

No.	Date	Made by	Waltz Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage Height feet	Discharge Sec. Ft.	Rating Point	Meter	Mean No.	G. H. Range Total	Begin End	Meter No.	
73	5-7	Brewster	20.0	7.37	1.70	3.71	13.			.6	7	0	925A 937A	FC 8
74	5-14	"	28.0	8.38	1.62	3.71	14.			.6	10	0	952A 960A	" "
75	5-21	"	34.0	9.64	1.18	3.72	11.			.6	12	0	935A 942A	" "
76	5-28	"	24.0	8.13	1.37	3.68	11.			.6	8	0	955A 950A	FC 34
77	6-4	"	28.0	8.24	1.21	3.69	10.			.6	7	0	945A 950A	FC 8
78	6-11	"	23.0	7.35	1.54	3.71	11.			.6	8	0	1005A 930A	" "
79	6-18	"	27.0	8.38	1.30	3.72	11.			.6	10	0	945A 945A	" "
80	6-25	"	27.0	8.40	1.34	3.70	11.			.6	9	0	940A 940A	" "
81	7-2	"	30.0	8.61	1.32	3.71	11.			.6	10	0	955A 925A	" "
82	7-9	"	33.0	8.64	1.30	3.72	11.			.6	11	0	945A 920A	" "
83	7-16	"	32.0	8.69	1.18	3.71	10.			.6	12	0	940A 920A	" "
84	7-23	"	34.0	9.74	1.10	3.68	11.			.6	13	0	940A 927A	" "
85	7-30	"	33.0	8.43	1.21	3.67	10.			.6	11	0	948A 915A	" "
86	8-6	"	24.0	8.88	1.32	3.70	12.			.6	8	0	930A 937A	" "
87	8-13	"	27.0	8.22	1.18	3.72	9.7			.6	9	0	956A 922A	" "
88	8-20	"	33.0	8.10	1.16	3.69	9.4			.6	11	0	942A 940A	" "
89	8-27	Lindsay	31.0	7.79	1.07	3.70	8.4			.6	10	0	941A 952A	FC 28
90	9-3	"	28.5	6.60	1.12	3.68	7.4			.6	10	0	954A 918A	" "
91	9-10	Brewster	39.0	8.87	1.03	3.70	9.1			.6	11	0	935A 927A	FC 8
92	9-17	"	24.0	8.31	1.26	3.73	10.			.6	8	0	943A 934A	" "
93	9-24	"	29.0	9.67	1.15	3.72	11.			.6	10	0	947A	" "

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 64 R**

Daily discharge, in second-feet of **RIO HONDO 1000 ft. above Mission Bridge** for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	22	26	27	40	49	24	49	15	18	9.5	18
2	20	20	28	27	45	325	22	24	15	14	10	16
3	20	19	26	19	69	175	20	20	16	11	10	18
4	20	18	26	20	108	125	20	16	22	9.5	9.5	22
5	20	20	24	26	198	97	13	11	22	10	11	24
6	20	19	24	20	50	122	26	19	22	12	11	15
7	20	19	24	20	50	120	20	45	20	14	12	19
8	20	19	100	27	40	52	885	45	14	12	12	20
9	20	18	28	49	210	56	23	45	19	10	15	20
10	16	18	26	40	215	22	22	55	18	11	18	18
11	12	14	25	20	127	30	9.5	43	16	11	14	16
12	14	14	28	27	125	22	22	43	16	11	20	18
13	12	15	494	20	65	28	215	25	19	14	22	18
14	12	15	231	18	35	22	164	20	18	12	19	18
15	15	15	20	242	28	40	116	28	16	11	16	16
16	18	129	12	19	20	40	111	26	16	10	19	20
17	430	52	15	30	26	55	106	55	16	10	20	19
18	107	60	12	125	20	27	75	28	15	11	16	18
19	30	81	22	56	24	52	28	26	15	10	19	19
20	30	30	26	23	20	46	32	18	18	11	18	19
21	28	28	28	67	19	46	40	18	19	11	18	20
22	26	22	20	56	22	20	42	18	19	11	16	19
23	26	22	25	26	26	78	26	18	19	14	11	24
24	24	26	27	27	30	68	18	15	19	12	16	24
25	22	22	40	20	45	19	52	16	18	11	14	26
26	24	32	43	28	56	20	45	16	11	10	18	24
27	24	25	46	27	52	19	52	15	12	9.5	20	26
28	20	24	22	27	52	46	59	16	11	8.5	20	28
29	24	26	28	40	52	67	15	12	18	8.5	18	28
30	20	24	28	22	56	121	12	18	8.5	20	30	
31	22	52	20	24	24	24	14	14	8.5	20	20	
1156 878 1721 1766 1920 1957 2556.5 825. 509 345.0 492.0 619.												

MEAN	36.6	29.2	55.5	57.0	59.9	65.1	85.2	26.6	17.0	11.1	15.9	20.6
ACR-FEET	2250.	1740.	2410.	2610.	2620.	3880.	6070.	1640.	1010.	684.	976.	1230.

Remarks: + indicates discharge 0.05 sec. ft. or less. YEAR MEAN 40.4 ACR-FEET 2220

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

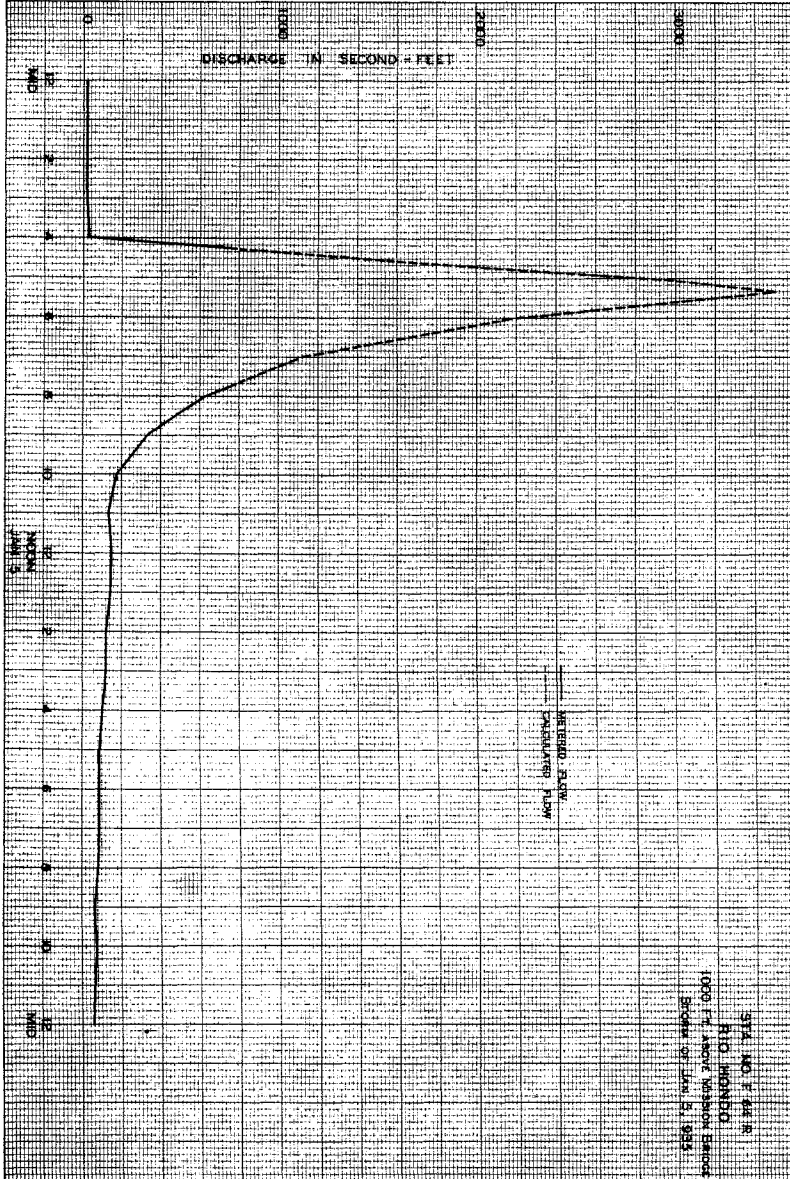
Sta. No. **F 64 R**

Daily discharge, in second-feet of **RIO HONDO 1000 ft. above Mission Bridge** for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	24	20	18	17	80	27	21	19	20	14	15	10
2	25	24	17	17	247	31	24	19	18	14	19	11
3	25	19	19	17	15	33	22	19	17	16	19	12
4	24	25	19	17	17	31	177	20	17	17	16	15
5	20	24	18	17	20	37	120	21	18	17	15	16
6	18	20	19	17	22	42	21	22	17	16	15	12
7	21	19	19	18	22	40	27	20	16	16	15	13
8	18	20	17	18	22	40	22	20	16	15	18	15
9	19	22	18	17	22	44	30	21	16	16	16	16
10	17	22	20	17	21	44	56	20	17	15	16	17
11	17	25	17	17	333	47	35	22	15	16	13	18
12	20	24	17	18	446	37	30	24	15	16	15	16
13	18	27	19	19	145	44	31	22	16	15	11	14
14	17	27	17	20	220	44	34	22	16	17	11	18
15	17	28	17	19	72	47	35	21	14	12	13	14
16	19	30	17	19	314	55	31	20	15	15	13	16
17	19	21	16	21	44	52	25	18	14	15	11	16
18	21	17	16	22	79	30	30	16	15	15	11	17
19	20	15	15	21	17	95	17	15	15	12	15	15
20	20	15	15	21	24	90	24	16	16	14	12	15
21	21	15	18	21	24	81	21	16	13	12	14	16
22	20	16	17	19	24	73	21	18	16	11	15	17
23	20	17	19	19	12	72	21	17	17	15	17	16
24	17	18	19	18	3	76	21	17	17	15	14	14
25	17	18	20	19	25	73	20	20	15	15	11	18
26	17	19	21	19	24	59	20	19	16	16	12	18
27	16	20	21	19	21	55	19	19	16	15	11	18
28	20	20	22	18	21	52	18	18	17	15	11	19
29	20	18	33	20	25	44	18	18	16	15	12	17
30	18	19	15	19	19	177	19	19	15	14	13	16
31	19	16	20	24	196	196	17	17	17	13	13	16
603 696 570 580 2549 1880 1113 600 481 470 425 466												

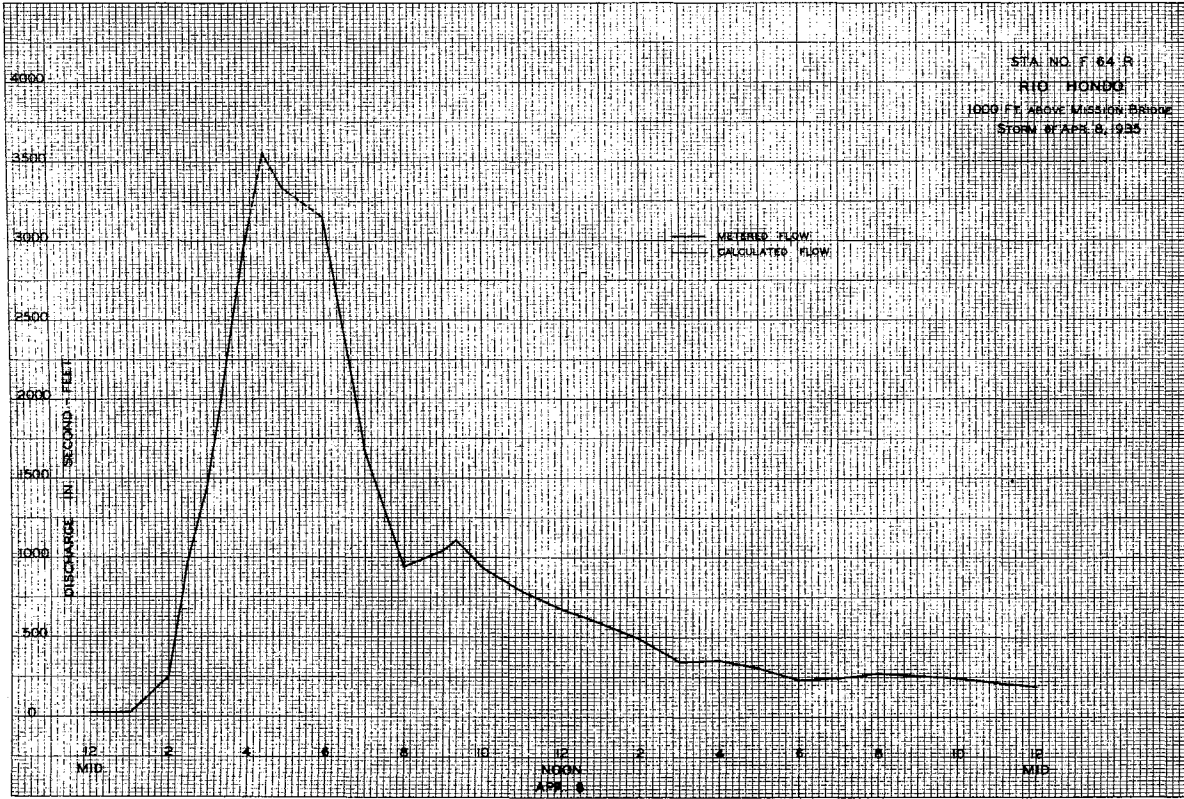
MEAN	19.5	23.2	19.4	18.7	88.0	60.6	37.1	19.4	16.0	15.2	13.7	15.5
ACR-FEET	1200	1380	1130	1150	5060	3730	2210	1190	954	932	843	924

Remarks: YEAR MEAN 29.6 ACR-FEET 20700

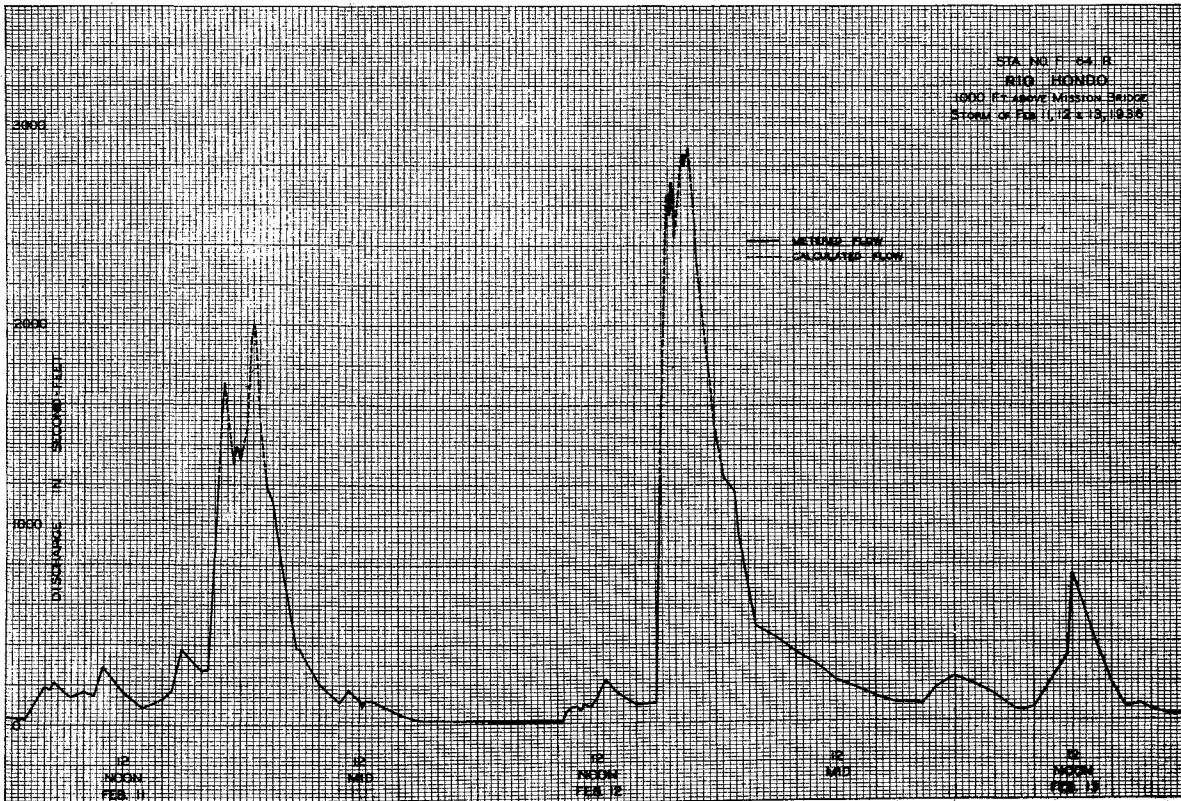


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AMERICAN ENGINEERING CORPORATION
1000 F STREET, N.W.
WASHINGTON, D.C.



AMERICAN ENGINEERING CORPORATION
1000 F STREET, N.W.
WASHINGTON, D.C.



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station F45R

RIO HONDO at Stewart and Gray Road

Discharge measurements of RIO HONDO

at Stewart and Gray Road during the year ending September 30, 1935

Location

On downstream side of highway bridge 1/2 mile above junction of Rio Hondo and Los Angeles River and 1 1/2 miles west of Downey. This station is at or near the location of the station operated in 1923 by the State Division of Water Rights.

Drainage area

A natural split near Arrow Highway divides the San Gabriel River into 2 branches; the west branch is known as the Rio Hondo. The San Gabriel River drainage area above the split is 230 square miles; the Rio Hondo drainage area from the split to station F45R is 140 square miles.

Channel and control

Channel - sand with rock riprap on east bank. No artificial control.

Discharge measurements

At low flows by wading near gage. At high flows from cable car 200 feet above bridge.

Recorder

Installed March 1, 1928 in a F. C. Standard type house over a corrugated iron pipe stilling well. An continuous recorder.

Regulation

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dam No. 2 and Morris Dam and by Los Flores and Rubio Debris Basins. Construction on the Eaton Dam was started in the summer of 1936; the regulation resulting therefrom, if any, during the 1935-36 water year was negligible. San Gabriel Dam No. 1 was under construction but the 30 foot by-pass tunnel was open at all times, therefore, no regulation resulted.

Diversions

The City of Pasadena diverts water from Eaton Creek and from the San Gabriel River. There are also several diversions for irrigation. The City of Monrovia diverts water from Monrovia Creek.

Records available

March, 1928 to September 30, 1936. (For records prior to July 1928 see State Division of Water Rights Bulletins)

Extremes of discharge

1928-29
Maximum 912 second-feet April 4
Minimum no flow at various times during year
1929-30
Maximum 743 second-feet March 15
Minimum no flow at various times during year
1930-31
Maximum 841 second-feet February 4
Minimum no flow at various times during year
1931-32
Maximum 4610 second-feet February 9
Minimum no flow at various times during year
1932-33
Maximum 2730 second-feet January 19
Minimum no flow at various times during year
1933-34
Maximum 16000 estimated second-feet January 1
Minimum no flow at various times during year
1934-35
Maximum 3450 second-feet April 8
Minimum no flow most of the year
1935-36
Maximum 3160 second-feet February 12
Minimum no flow various times during year

Accuracy

Poor due to shifting control.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating Percent full	Area Flooded	Area No. of Acres	ft. Ht. above Tons	Begin Date	Meter No.
1	10/17	Jordan - Potter	98.	142.	5.02	5.43	712.		.6	10	+28	240P	
2	10/17	"	91.	84.3	4.15	5.14	350.		.6	11	-08	200P FC 5	
3	11/16	Potter - Koch				4.23	1.0					1110A	
4	11/19	Bonadiman - Notes	39.	39.28	1.11	4.59	44.		.6	6	-01	1020A	FC 27
5	12/13	Potter - Koch	91.	68.70	5.51	5.17	241.		.6	9	-05	140P FC 5	
6	12/13	"	106.	106.	4.06	5.21	430.		.6	11	+18	300P	
7	12/13	"	105.	136.53	5.94	5.47	538.		.6	11	+12	300P	
8	12/14	"	90.	50.75	1.41	5.01	72.		.6	10	-02	450P	
9	1/5	Bonadiman - Notes	120.	237.96	7.1	6.59	1600.		.6	7	-56	755A FC 27	
10	1/5	Potter - Koch	92.0	66.7	3.54	5.10	256.		.6	10	-04	1055A FC 5	
11	1/15	Bonadiman - Meter Wilkins - Notes	115.	185.36	6.02	6.12	1120.		.6	7	-35	608A FC 27	
12	1/15	"	113.	169.45	5.21	5.92	885.		.6	6	-07	652A	
13	1/15	Potter - Koch	91.5	30.4	1.54	4.78	47.		.6	10	-26	1125A FC 5	
14	2/5	"	57.0	35.51	1.47	4.99	52.		.6	12	-02	1120A	
15	2/5	"	14.0	10.96	1.58	4.72	17.		.6	7	-01	320P	
16	2/5	Bonadiman - Meter Hofmann - Notes	91.0	81.33	2.90	5.27	256.		.6	8	-08	211P FC 27	
17	2/7	"	2.0	.20	0.85	4.38	.17	Float	1	0		57A	
18	2/12	Bonadiman - Notes	35.0	15.47	0.84	4.82	15.		.6	7	0	1035A FC 27	
19	3/2	Potter - Koch	40.5	26.43	2.26	5.14	60.		.6	9	+02	850A FC 5	
20	3/2	"	90.0	57.22	2.68	5.27	155.		.6	9	-10	925A	
21	3/2	"	98.0	112.05	1.5	5.54	553.		.6	10	-04	1140A	
22	3/2	"				5.15	56.		.6	11	0	300P	
23	3/2	"	116.0	228.25	2.95	5.46	1360.		.6	9	-18	600P FC 5	
24	3/7	"	103.0	2.69	1.65	5.21	70.		.6	11	0	355P	
25	3/21	Bonadiman - Notes	4.0	0.58	0.31	4.55	.18		.6	3	0	749A FC 27	
26	3/24	Potter - Koch	92.5	44.13	1.84	5.18	72.		.6	12	-02	615A FC 5	
27	4/8	Bonadiman - Meter Wilkins - Notes	125.	369.29	1.13	7.58	3000.		.6	9	-25	710A FC 27	
28	4/8	Potter - Koch	102.0	178.04	0.58	5.74	816.		.6	11	+09	1040A FC 5	
29	4/8	"	94.0	77.0	2.53	5.45	195.		.6	10	-08	545P	
30	4/9	Bonadiman - Notes	16.	15.99	1.62	4.70	26.		.6	7	0	1055A FC 27	
31	4/18	"	11.	4.12	1.20	4.58	6.4		.6	5	0	840A	
32	5/8	"	19.	4.94	.57	4.56	2.8		.6	6	0	1040A	
33	5/16	"	14.	3.94	.47	4.52	1.8		.6	5	0	710A	
34	5/25	"	10.	2.14	.50	4.42	.65		.6	5	0	804A	
35	5/29	"	11.	2.70	.57	4.47	1.0		.6	5	0	745A	
36	6/6	"					0		0			820A	
37	5/15	"	2.5	.37	.27	4.34	.09		.6	2	0	950A FC 27	
38	7/2	"	12.0	3.25	.82	4.55	2.7		.6	5	0	745A	
39	8/8	J. H. Prickett					0		0			1045A	
40	8/28	K. S. Bonadiman					0		0			722A	
41	9/4	"					0		0			730A	
42	9/25	"					0		0			820A	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 45 R

Discharge measurements of RIO HONDO

at Stewart and Gray Road during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity (ft. per sec.)	Gate height feet	Discharge Sec. Ft.	Rating Program #	Notes	CG 10 ft. Gang Total	Beam Feet	Meter No.
1	10/3	Bonadiman					0				825A	
2	10/10	"					0				845A	
3	10/16	"					0				1245E	
4	10/24	"					0				830A	
5	10/31	"					0				745A 800A	
6	11/7	"	10	2.63	0.54	4.51	1.4	.6	4	-	924A 930A	FG 27
7	11/13	"	7	2.42	0.38	4.46	0.95	.6	4	-	810A	
8	11/21	"					0				1125A 840A	
9	12/4	"					0				840A	
10	12/12	"	10	3.26	0.53	4.52	1.7	.6	4	0	846A	FC 9
11	12/19	"					0				820A 844A 847A	FC 9
12	12/26	"	17	5.00	0.69	4.59	3.4	.6	5	0	132P 142P	FC 9
13	12/29	"	23.5	5.42	0.71	4.64	4.6	.6	7	-0.1	142P	FC 9
14	1/2	"					0					
15	1/9	"	10.	2.99	0.44	4.50	1.3	.6	5	0	850A 912A 917A	FC 9
16	1/16	"	13.	5.65	0.38	4.54	1.4	.6	4	0	900A 903A	
17	1/23	"	2.5	0.25	0.28	3.38	0.07	.6	2	0	815A 735A	
18	1/30	"					0				752A	FC 9
19	2/1	Bonadiman-McGarvin	22.5	8.73	0.75	4.69	6.6	.6	7	+0.2	1010A 1040A	FC 21
20	2/2	Jordan-Kooh	110.	150.	4.43	5.26	665.	.6	11	-25	1220P 1205P	FC 21
21	2/2	"	91.	32.8	2.99	5.71	248.	.6	10	-14	1230P 210P	
22	2/2	"	93.	59.9	2.28	5.53	137.	.6	10	-05	1220P 856A	
23	2/3	Bonadiman	4.	0.82	0.41	4.32	0.34	.6	3	0	852A	FC 9
24	2/11	Jordan-Kooh	115.	216.	5.49	6.80	1190	.6	9	-08	720P 747P	FC 21
25	2/11	Jordan-Kooh	114.	191.9	5.35	6.52	1030.	.6	12	-21	905P 930P	FC 21
26	2/11	"	105	101.8	3.34	5.74	337.	.6	12	-13	1050P 1155P	
27	2/12	Bonadiman	15.5	2.42	0.74	4.73	7.0	.6	6	0	945A 955A	FC 9
28	2/13	"	72.	33.11	1.41	5.08	47.	.6	7	-01	1145 1220P	
29	2/13	McAulay-Quinn & Mathews	95.	55.75	2.45	5.31	161.	.6	10	-07	355P 485P	FC 37
30	2/14	Bonadiman	26.	14.25	1.05	5.05	15.	.6	6	0	910A 920A	FC 9
31	2/14	McAulay-Quinn & Mathews									758P 905P	FC 37
32	2/14	Mathews	117.	223.1	6.33	5.99	1410.	.6	5	+1.42	1045P 1137P	
33	2/15	"	120.	230.	6.15	6.78	1410.	.6	5		1158P 1235A 1256A	
34	2/15	"	119.	175.	5.55	6.42	972.	.6	5		515A 530A	
35	2/15	"	91.	42.2	2.50	5.30	106.	.6	4	-09	800A	
36	2/16	Bonadiman	115.	136.25	0.8	6.19	692.	.6	8	+0.2	840A 1228P	USED
37	2/16	L. Jordan-W. Jordan	108.	74.9	3.14	5.74	235.	.6	11	-03	1241P	FC 21
38	2/17	Bonadiman	6.	1.08	0.54	4.60	0.60	.6	3	0	1045A 1052A	USED
39	2/20	"					0				318A 400A	FC 9
40	2/23	Bonadiman-McGarvin	116.	135.	5.15	6.27	698.	.6	7	-17	625A 643A	FC 21
41	2/23	Jordan-Kooh	95.	55.6	2.18	5.55	122.	.6	11	-06	1005A	
42	2/23	"	31.5	19.8	2.69	5.30	53.	.6	12	+0.1	1020A	
43	2/24	Bonadiman					0				912A 942A	FC 9
44	3/11	"	10.	2.10	.72	4.73	1.5	.6	3	0	946A 835A	
45	3/18	"	5.	1.43	.55	4.70	0.80	.6	3	0	844A	
46	3/25	"	27.	9.03	.56	4.94	5.1	.6	7	0	1240A 1250A	
47	3/31	Bonadiman-Kooh	115.	13.54	1.4	5.15	558.	.6	8	+47	318A 340A	FC 21
48	3/31	Jordan	112.	148.7	5.43	6.40	807.	.6	8	-17		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

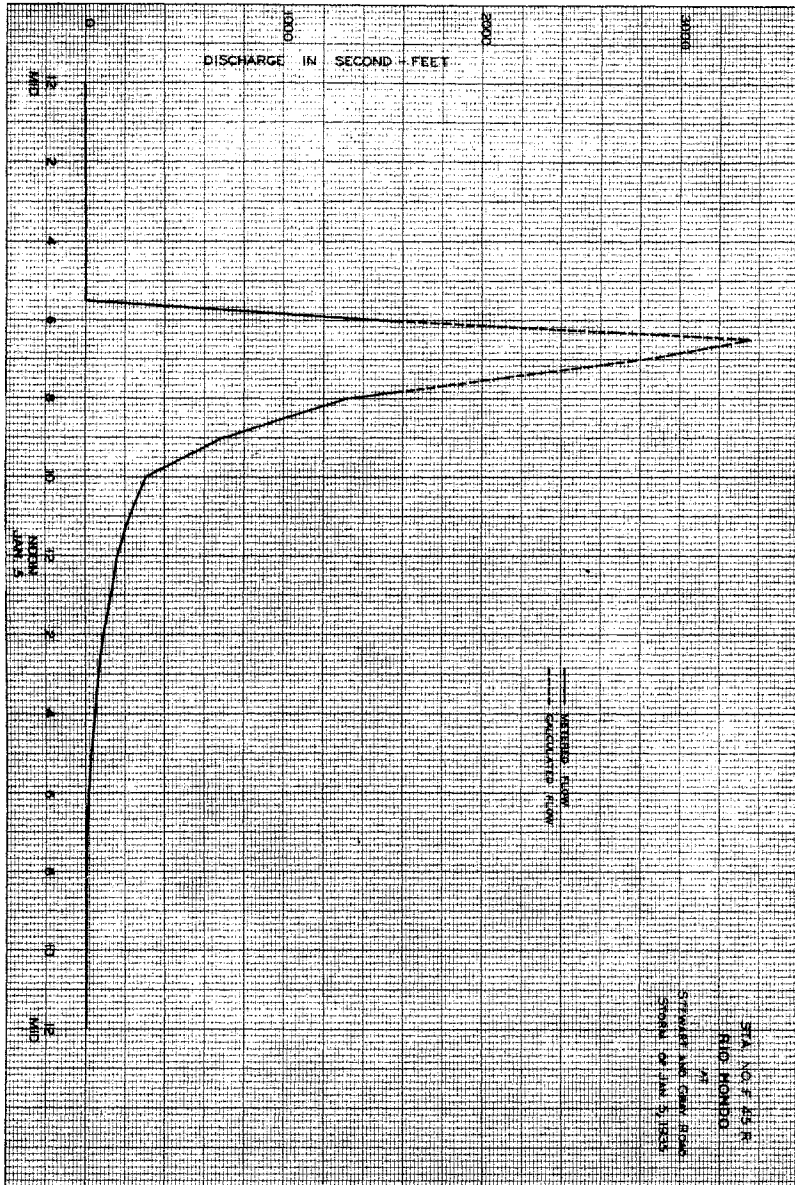
Station No. F 45 R

Discharge measurements of RIO HONDO

at Stewart and Gray Road during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity (ft. per sec.)	Gate height feet	Discharge Sec. Ft.	Rating Program #	Notes	CG 10 ft. Gang Total	Beam Feet	Meter No.
49	3/31	Jordan	103.	88.	4.18	5.91	368.	.6	9	-10	436A 500A 845A	FC 21
50	3/31	Bonadiman-Kooh	55.	23.2	1.74	5.37	40.	.6	7	-06	305A 320A 855A 910A	FC 9
51	4/4	"	112.	134.	4.86	6.08	650.	.6	8	-01	1205P	
52	4/4	"	103.	84.0	2.99	5.98	251.	.6	7	-09	800A 804A 831A	
53	4/4	"	62.	36.6	1.14	5.47	42.	.6	7	-09	1210P	
54	4/9	Bonadiman	13.	3.65	0.45	5.03	1.7	.6	5	0	804A 831A	
55	4/15	"	8.	1.37	0.11	4.90	0.15	.6	2	0	803A 807A	
56	4/23	"	23.	5.31	0.65	5.08	3.5	.6	5	0	855A 903A	
57	4/30	"	21.	5.01	0.53	4.94	2.7	.6	6	0	912A	
58	5/6	"	2.	.22	.27	4.90	0.06	.6	2	0	913A	FC 9
60	5/21	"					0					
61	5/27	"					0					
62	7/1	"					0					
63	7/23	"					0					
64	8/12	"					0					
65	9/3	"					0					
66	9/10	"					0					
67	9/17	"					0					
68	9/24	"					0					

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 45 R**

Daily discharge, in second-feet of **RIO RONDO at Stewart and Gray Road** for the year ending September 30, 19 **25**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	.7	.1	0	0	0
2	0	0	0	0	0	196	0	0	0	0	0	0
3	0	0	0	0	0	2.6	0	0	0	0	0	0
4	0	0	0	0	.6	0	0	0	0	0	0	0
5	0	0	0	212	117	0	0	.1	0	0	0	0
6	0	0	0	.4	106	0	0	1.0	.5	.6	0	0
7	0	0	0	0	1.0	25	0	2.0	0	1.0	0	0
8	0	0	0	0	.5	.2	667	2.5	.4	1.2	0	0
9	0	1.4	0	.2	46	.1	22	2.3	+	.1	0	0
10	0	0	0	5	84	0	0	2.8	+	0	0	0
11	0	0	0	0	16	0	0	1.6	+	0	0	0
12	0	0	0	0	2.4	0	0	.7	0	0	0	0
13	0	0	0	0	0	0	101	0	+	0	0	0
14	0	0	556	70	0	0	107	.5	0	0	0	0
15	0	0	0	146	0	0	55	1.2	0	0	0	0
16	0	0	0	0	0	0	80	.8	.1	0	0	0
17	300	+	0	0	0	0	15	.7	0	0	0	0
18	92	.5	0	0	0	0	1.8	2.0	0	0	0	0
19	0	0	0	52	0	0	0	1.4	0	0	0	0
20	0	16	0	0	0	.1	0	1.2	0	0	0	0
21	0	0	0	0	0	.2	1.5	.5	0	0	0	0
22	0	0	0	0	0	.2	1.0	.5	0	0	0	0
23	0	0	0	0	0	0	1.2	.8	0	0	0	0
24	0	0	0	0	0	9.5	.2	.1	0	0	0	0
25	0	0	0	0	0	0	1.2	.1	0	0	0	0
26	0	0	0	0	0	0	.5	1.4	0	0	0	0
27	0	0	0	0	0	0	.4	1.0	0	0	0	0
28	0	0	20	0	0	0	.6	.3	0	0	0	0
29	0	0	0	0	0	0	.7	.3	0	0	0	0
30	0	0	0	0	0	0	.2	.1	0	0	0	0
31	0	0	0	0	0	0	0	.4	0	0	0	0
Total	392.4	62.3	426.4	502.6	372.5	251.2	1003.0	29.2	.9	3.1	0	0

MEAN	12.7	2.08	13.8	16.2	15.2	7.46	32.4	.34	.02	.1	0	0
ACRE- FEET	778.	124.	846.	997.	758.	459.	1990.	58.	1.6	6.1	0	0

Remarks: + indicates discharge 0.05 sec. ft. or less

Year ~~on~~ **Station** MEAN **8.28**
ACRE- FEET **6000.**

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 45 R**

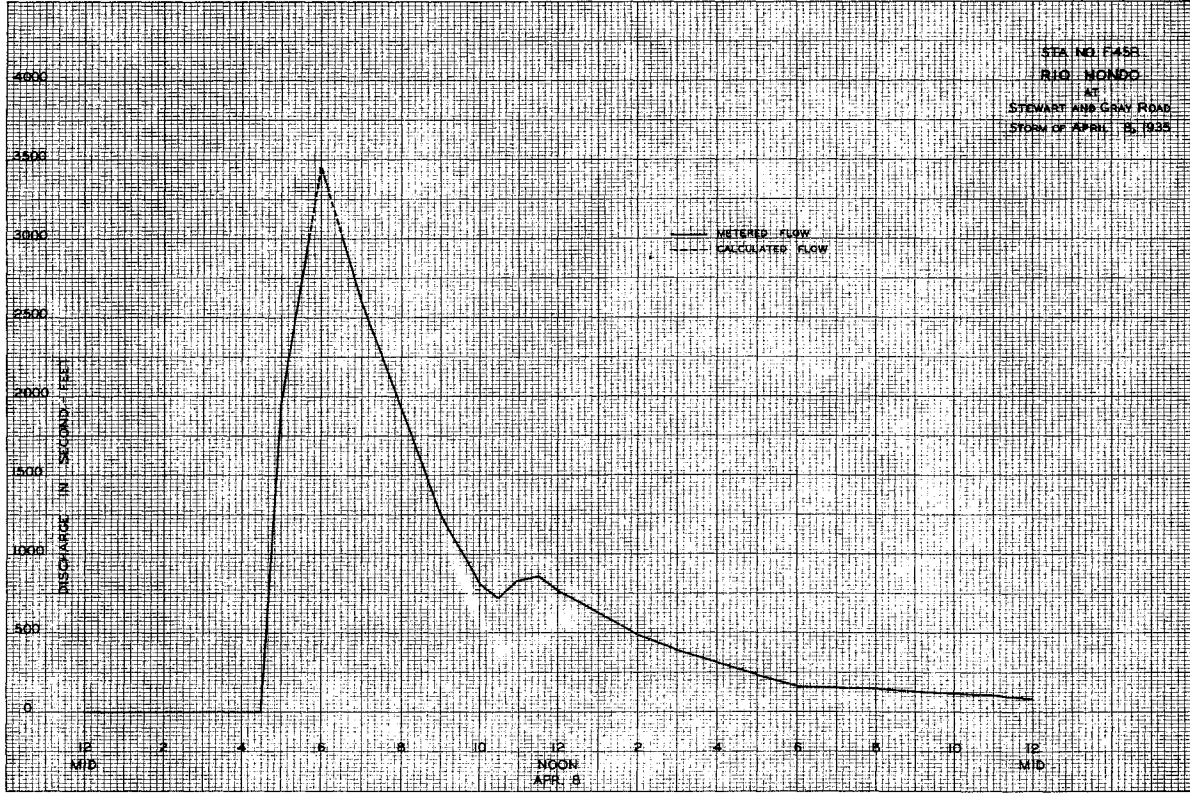
Daily discharge, in second-feet of **RIO RONDO at Stewart and Gray Road** for the year ending September 30, 19 **36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	1.6	1.7	3.7	0	0	2.7	0	0	0	0
3	0	0	1.2	0.7	0.5	0	0	1.5	0	0	0	0
4	0	0	0	1.8	0	0	124	0.8	0	0	0	0
5	0	0	0	1.8	0	0	5.5	0	0	0	0	0
6	0	0.4	0	1.8	0	0	4.4	0.8	0	0	0	0
7	0	1.3	0	1.2	0	0	1.0	0.9	0	0	0	0
8	0	1.3	0	2.1	0	0	1.4	0.8	0	0	0	0
9	0	1.5	0	1.5	0	0	1.1	0.6	0	0	0	0
10	0	1.1	0	1.3	0	0	0.6	0	0	0	0	0
11	0	0.9	1.0	1.1	2.1	1.3	0	0	0	0	0	0
12	0	0.7	1.0	0.2	4.72	1.1	0.2	0	0	0	0	0
13	0	0	0	0	.84	0	0.5	0	0	0	0	0
14	0	0	1.1	1.2	1.13	0	0.1	0.5	0	0	0	0
15	0	0.5	1.1	1.2	1.52	0	1.1	0.3	0	0	0	0
16	0	0	0	1.1	1.93	0	0.1	0	0	0	0	0
17	0	0	1.2	1.9	1.1	1.5	0.6	0	0	0	0	0
18	0	0.2	1.8	4.4	1.1	0.8	0.9	0	0	0	0	0
19	0	0	0.8	7.5	0.7	1.2	1.5	0	0	0	0	0
20	0	0	1.8	9.5	0	1.7	1.4	0.1	0	0	0	0
21	0	0	1.0	24	0	1.9	2.2	0.5	0	0	0	0
22	0	0	0	4.2	0	1.2	2.2	0.5	0	0	0	0
23	0	0	0	66	87	1.1	2.2	0	0	0	0	0
24	0	0	2.2	27	0	2.7	1.4	0	0	0	0	0
25	0	0	3.1	12	0	4.8	3.1	0	0	0	0	0
26	0	0	2.4	24	0	2.7	4.0	0.1	0	0	0	0
27	0	0	1.8	14	0	0	2.8	0	0	0	0	0
28	0	0.5	2.5	1.4	0	0	3.4	0	0	0	0	0
29	0	1.3	2.6	7	0	1.5	2.8	0	0	0	0	0
30	0	1.1	0	0	0	5	3.8	0	0	0	0	0
31	0	0	0.4	2.6	0	2.1	0	0	0	0	0	0
Total	0	12.6	34.3	218.5	1436.0	242.5	173.4	12.3	0	0	0	0

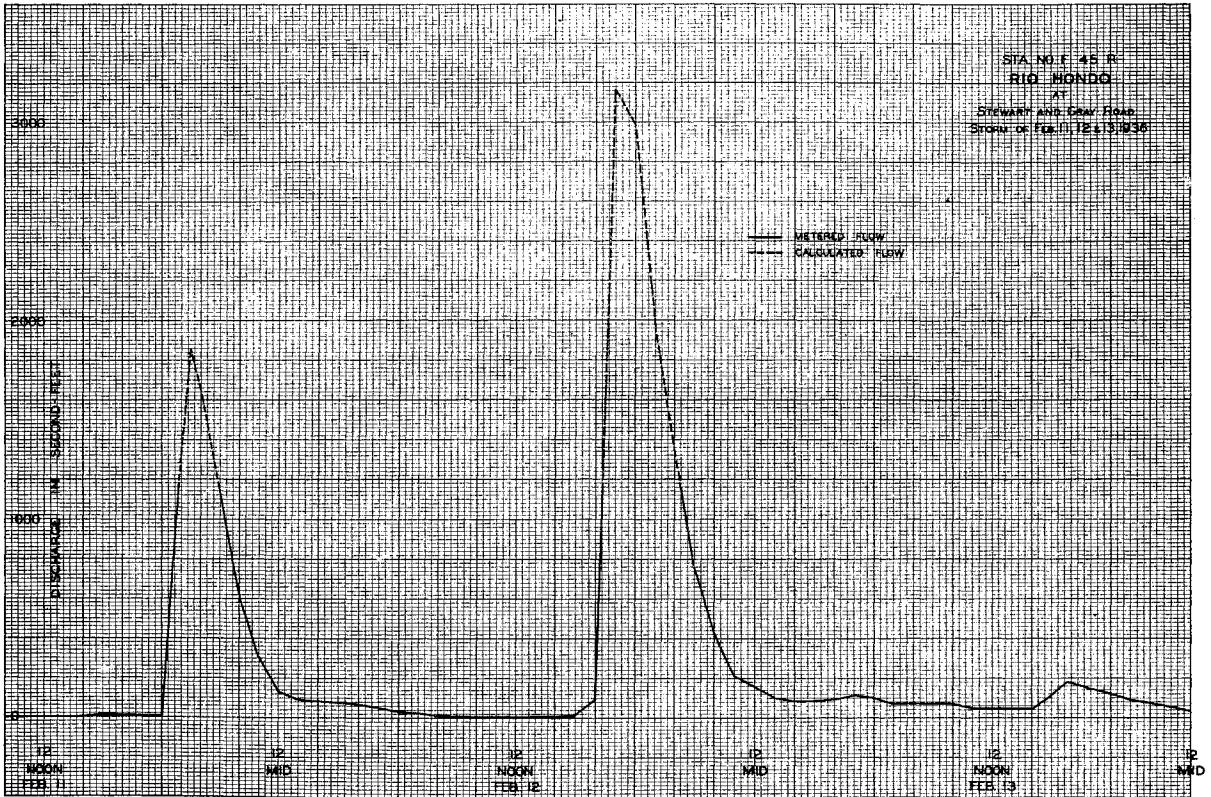
MEAN	0	0.42	1.11	7.05	49.5	7.92	5.78	0.40	0	0	0	0
ACRE- FEET	0	22	68	433	2850	481	344	24	0	0	0	0

Remarks: Year ~~on~~ **Station** MEAN **5.82**
ACRE- FEET **4220**

REPORT OF THE U.S. GEOLOGICAL SURVEY
WASHINGTON, D. C.



REPORT OF THE U.S. GEOLOGICAL SURVEY
WASHINGTON, D. C.



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 83 R**

Station F83R
RIO HONDO SLOUGH at San Gabriel Blvd.

Discharge measurements of **RIO HONDO SLOUGH**

Location **San Gabriel Blvd.** during the year ending September 30, 19**56**

On upstream end of West abutment of highway bridge,
2 miles northeast of Montebello

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating Curve No.	Method	Mean stage No.	G. H. change feet	Begin Date	End Date	Stage No.
<p>Drainage area</p> <p>Negligible. Flow is almost entirely from rising water</p> <p>Channel and control</p> <p>Sandy, covered with weeds. No artificial control</p> <p>Discharge measurements</p> <p>By wading near station High flow measurements can be taken from Highway bridge</p> <p>Recorder</p> <p>Installed June 14, 1930 in a box type shelter house over a corrugated iron pipe stilling well. National horizontal, 7 day recorder replaced by Stevens continuous recorder January 11, 1935. Stevens continuous recorder replaced by H.C.F. continuous recorder April 1, 1935. H.C.F. Continuous recorder replaced by Rational horizontal, 7 day, recorder October 1, 1935.</p> <p>Regulation</p> <p>Some water pumped to fish ponds</p> <p>Diversions</p> <p>None</p> <p>Records available</p> <p>Recorder records June 14, 1930 to September 30, 1936. Some weekly stream measurements were taken prior to installation of recorder.</p> <p>Extremes of discharge</p> <p>1929-30 Maximum 20 second-feet February 3 Minimum 14 second-feet September 12</p> <p>1930-31 Maximum 49 second-feet February 4 Minimum 12 second-feet September 18</p> <p>1931-32 Maximum 44 second-feet February 8 Minimum 11 second-feet October 15</p> <p>1932-33 Maximum 51 second-feet January 29 Minimum 11 second-feet various times during year</p> <p>1933-34 Maximum 166 second-feet January 1 Minimum 6 second-feet August 4</p> <p>1934-35 Maximum 32 second-feet April 8 Minimum 4.8 second-feet October 4</p> <p>1935-36 Maximum 38 second-feet February 12 Minimum 8 second-feet September 12</p> <p>Accuracy</p> <p>Fair Clock stopped; June 29 to July 3, 1935</p> <p>Operation</p> <p>Located, constructed and operated by the Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources branch.</p>														
1	10/4	Brewster	12.0	10.38	.92	.62	9.6					1020A		FC 8
2	10/10	"	12.0	10.72	.92	.61	9.8					1000A		"
3	10/18	" - Boone	12.0	12.90	1.01	.79	15.					1015A		"
4	10/25	"	12.0	11.80	.94	.70	11.					1020A		"
5	11/1	"	12.0	11.56	.95	.73	11.					1000A		"
6	11/8	"	12.0	11.44	.89	.75	10.					1015A		"
7	11/15	"	12.0	10.14	1.02	.65	11.					1020A		"
8	11/22	"	12.0	11.96	1.02	.76	12.					1000A		"
9	11/28	"	12.0	11.64	1.00	.74	12.					1015A		"
10	12/6	"	12.0	11.60	.98	.75	11.					1045A		"
11	12/12	" - Boone	12.0	14.58	1.07	.98	12.					1020A		"
12	12/20	"	12.0	12.52	.95	.80	12.					1015A		"
13	12/26	Bollinger-Merideth	14.5	14.56	.86	.78	12.					1020A		FC 10
14	12/27	Brewster	12.0	12.04	1.07	.78	12.					1130A		FC 8
15	1/5	"	12.0	11.40	1.06	.74	12.					1045A		"
16	1/9	" - Boone	12.0	11.98	1.12	.77	14.					1020A		"
17	1/15	"	12.0	12.36	1.12	.89	15.					1020A		"
18	1/17	"	12.0	12.54	1.06	.78	15.					1020A		"
19	1/24	"	12.0	11.78	1.12	.71	15.					1020A		"
20	1/31	"	12.0	12.40	1.07	.69	15.					1020A		"
21	2/6	"	12.0	14.41	1.08	.87	15.					145P		"
22	2/7	"	12.0	15.06	1.10	.80	15.					830P		"
23	2/14	"	12.0	12.72	1.10	.88	14.					1020A		"
24	2/20	"	12.0	12.02	1.10	.78	15.					1020A		"
25	2/28	Brewster	12.0	12.72	1.06	.78	14.					1020A		FC 8
26	3/7	"	12.0	15.76	1.08	.84	15.					90A		"
27	3/14	"	12.0	12.41	1.06	.76	14.					1020A		"
28	3/21	"	12.0	12.17	1.07	.77	14.					1020A		"
29	3/28	"	12.0	13.04	1.11	.75	15.					1020A		"
30	4/4	"	12.0	12.42	1.07	.78	15.					1020A		"
31	4/11	"	12.0	12.42	.94	.97	14.					1015A		"
32	4/18	"	12.0	15.92	.92	1.00	15.					1020A		"
33	4/25	"	12.0	14.98	1.02	.95	15.					1010A		"
34	5/2	"	12.0	14.86	1.00	.97	15.					1000A		"
35	5/9	"	12.0	14.66	.92	.99	14.					940A		"
36	5/16	"	14.0	15.84	.92	1.00	15.					1010A		"
37	5/23	"	14.0	15.42	.97	1.00	15.					1015A		"
38	5/29	"	14.0	15.2	.92	.98	14.					1000A		"
39	6/6	"	14.0	15.1	.92	.97	14.					1020A		"
40	6/13	"	12.0	15.1	.97	1.00	14.					945A		"
41	6/20	"	14.0	15.96	.82	1.02	13.					950A		"
42	6/27	"	14.0	17.12	.78	1.06	13.					945A		"
43	7/5	"	14.0	12.46	.82	1.04	14.					1020A		"
44	7/11	"	12.0	15.11	.82	1.01	13.					1010A		"
45	7/18	"	14.0	14.60	.86	1.00	12.					950A		"
46	7/25	"	14.0	15.86	.82	1.00	12.					1020A		"
47	8/1	"	14.0	14.22	.82	.96	12.					1020A		"
48	8/8	"	14.0	14.64	.78	1.00	11.					1020A		"
49	8/15	Brewster	14.0	14.0	.82	1.01	12.					1005A		FC 8
50	8/22	"	14.0	14.6	.79	1.02	12.					1000A		"
51	8/29	R. Lindsay	20.0	12.6	.74	1.07	12.					1021A		FC 21
52	9/5	"	12.5	17.0	.69	1.05	12.					920A		"
53	9/12	Brewster	14.0	15.7	.82	.98	11.					1020A		FC 8
54	9/19	"	14.0	12.6	.90	1.02	11.					1000A		"
55	9/26	"	14.0	12.0	1.01	.96	12.					1015A		"

Station F82B-R
RUBIO WASH at Broadway

Location

On the west side of Rubio Channel, 300 feet east of the intersection of San Gabriel Boulevard and Broadway, and 75 feet below Broadway.
Station F82B-R, Rubio Wash at Broadway, is at the approximate location of the original station F82R, Rubio Wash at Broadway, and is approximately 2000 feet below the abandoned station F107R, Rubio Wash at Las Tunas Blvd.

Drainage area

13.0 square miles

Channel and control

Concrete channel 25.6 feet wide between vertical walls by 7.5 feet deep to bottom of invert.
Prior to March 20, 1936 a concrete wall across the channel, the top of which was 1 foot above the invert, formed a control. There was a sheer drop of several feet at the downstream side of the wall. In 1936 the U. S. Engineer Dept. lined the channel below the drop with concrete and on March 20, 1936 they removed the wall preparatory to connecting the old and new channels with a concrete ogee to eliminate the sheer drop.
After the wall was removed there was no communication with the stilling well until the water reached a depth of 1 foot at the invert, on April 8, 1936 the U. S. Engineer Dept. replaced the wall. The new wall was lower in the center than the old wall, resulting in there being no communication for discharges less than 3.0 second-feet. For the manner in which these walls functioned as a control see accuracy below.

Discharge measurements

At low flows by wading.
At high flows from foot bridge, 27 feet above the station.

Recorder

Installed January 20, 1932 in a F. C. Standard type house over a corrugated iron pipe stilling well in the bank outside of the lined section.
Stevens type L 24 hour recorder

Regulation

None.

Diversions

None

Records available

Recorder records at station F82R from January 14, 1930 to September 30, 1930. Recorder records at station F82B-R from January 20, 1932 to September 30, 1936.
(For records from October 1, 1930 to January 5, 1932 see station F107R.)

Extremes of discharge

Sta. F107R:

1930-31
Maximum 1690 second-feet February 3
Minimum no flow most of year

Stas. F107R and F82B-R:

1931-32
Maximum 798 second-feet November 27
Minimum no flow most of year

Sta. F82B-R:

1932-33
Maximum 1510 second-feet January 16
Minimum no flow most of year
1933-34
Maximum 2070 second-feet December 31
Minimum no flow most of year
1934-35
Maximum 1680 second-feet October 17
Minimum no flow most of year
1935-36
Maximum 1370 second-feet February 22
Minimum no flow most of year

Accuracy

An unusual stage - discharge condition existed at this station prior to March 20, 1936 and subsequent to April 8, 1936. On a rising stage at a discharge of about 290 second-feet a critical flow condition is reached and the gage height drops suddenly about a foot; on the subsequent falling stage at a discharge of about 240 second feet a second critical condition is reached and the gage height increases suddenly about 0.8 foot. The probable explanation is that prior to the first jump and subsequent to the

second jump the wall functioned as a control with the backwater curve extending upstream past the gage and that subsequent to the first jump and prior to the second jump the backwater curve ceased to extend upstream as far as the gage due to the steep gradient of the channel and resulting high velocities. Different rating curves were used for the two flow conditions.

During the period from March 20, 1936 to April 8, 1936 the discharges for stages below that necessary to establish communication was estimated from depth readings and discharge measurements.
The recorder chart was not changed daily during periods of expected no flow and as some small flows occurred that were not anticipated it is possible that the dates for some small flows are not the true dates.
Accuracy fair.

Operation

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

F. C. D. Form 104 (11-34)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 82 B-R

Discharge measurements of RUBIO WASH

at Broadway during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Cfs.	Rating	Method	Max. No.	Min. No.	Begin time	End time	Remarks
1	11/17	Cole-Hofmann	25.6	18.41	3.07	.85	56.			.6	5	0	1012P	FC 28
2	11/19	"	25.6	31.10	3.38	.87	105.			.6	7	-14	420A	"
3	12/12	"	19.0	7.70	1.83	.32	14.			.6	7	+04	290A	"
4	12/12	"	25.6	30.26	3.25	.87	98.			.6	5	-06	1160P	"
5	12/13	"	25.6	27.29	7.60	1.05	207.			.6	5	+04	617A	"
6	12/13	"	25.6	28.76	8.15	1.09	234.			.6	5	+04	626A	"
7	12/13	"	25.6	29.57	9.98	1.13	295.			.6	5	-73	641A	"
8	12/13	"	25.6	31.32	10.07	.85	315.			.6	5	+12	647A	"

F. C. D. Form 104 (11-34)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F82B-R

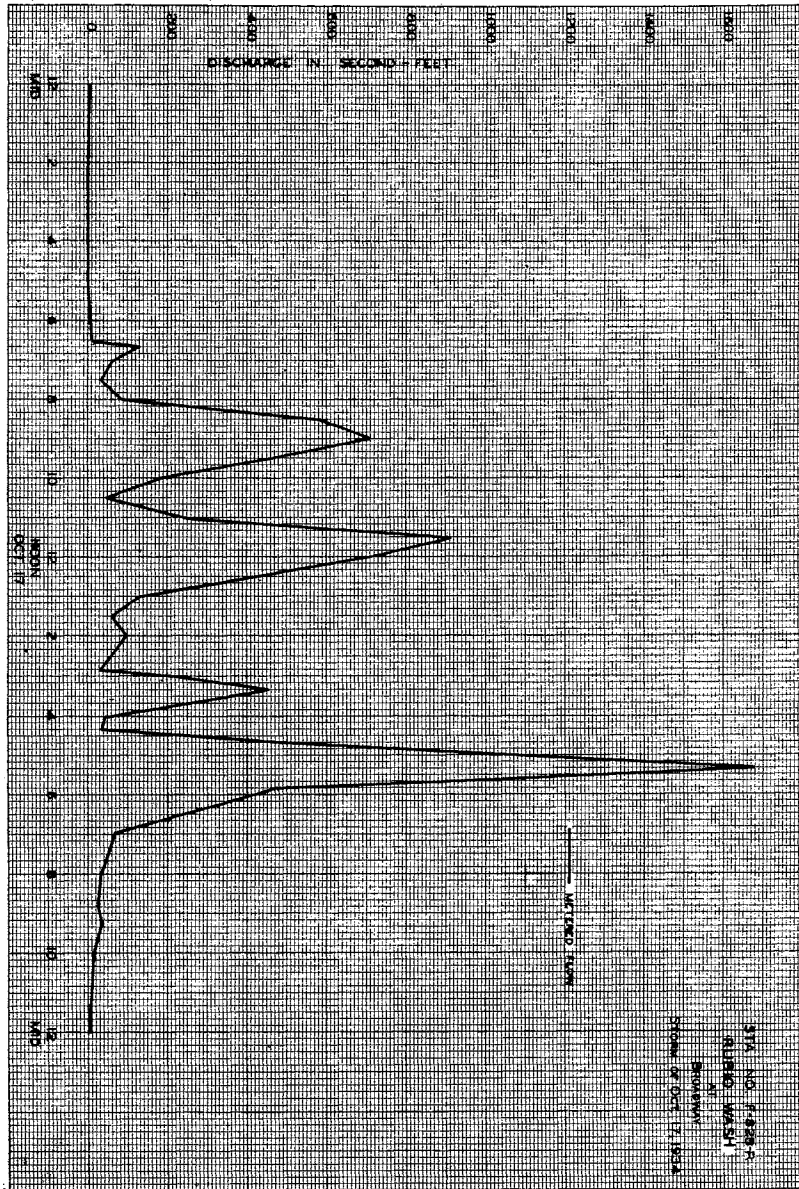
Discharge measurements of RUBIO WASH

at Broadway during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Cfs.	Rating	Method	Max. No.	Min. No.	Begin time	End time	Remarks
1	2/2	Lindsay - Young	25.6	53.8	13.7	-	738.			.6	4	-	617A	FC 28
2	3/24	Cole	20.0	12.1	5.82	-	70.			.6	6	-	250P	FC 7
3	3/24	"	17.0	6.93	5.44	-	38.			.6	5	-	307P	"
4	3/24	"	14.0	4.01	5.10	-	20.			.6	5	-	320P	"
5	3/24	"	9.5	2.05	4.38	-	9.0			.6	4	-	350P	"
6	3/30	"	25.0	25.2	10.0	-	253.			.6	6	-	800P	"
7	3/30	"	25.0	32.1	10.2	-	327.			.6	6	-	950P	"
8	3/30	"	25.0	49.5	15.9	-	787.			.6	5	-	1055P	"
9	4/3	Cole - Kenniston	7.5	1.19	3.55	-	4.2			.6	5	-	415P	"
10	4/3	Lavery	25.0	48.5	15.0	-	727.			.6	8	-	1055P	"
11	4/4	"	22.0	11.6	5.38	-	62.			.6	6	-	1115P	"
													1210A	"
													1220A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F82B-R**



Daily discharge, in second-feet of **RUBIO WASH at Broadway** for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	5.6	0	0	0	0	0	0	0	0.5	0	0
2	0	0	0	0	0	5.4	0	0	0	0	0	0
3	0	0	0	0	0	0	0.8	0	0	0	0	0
4	0	0	0	5.9	19.4	0	0	0	0	0	0	0
5	0	0	0	6.8	32.1	0	0	0	0	0	0	0
6	0	0	0	0	15.1	0	0	0	0	0	0	0
7	0	0	0	0	0	19.1	6.7	0	0	0	0	0
8	0	0	25	0	4.9	0	9.2	0	0	0	0	0
9	0	0	0	6.1	0	0	0	0	0	0	0	0
10	0	0	0	3.9	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	17.1	0	0	0	0	0	0	0	0	0
13	0	0	10.1	0	0	0	0	0	0	0	0	0
14	0	0	36	0	0	0	0	0	0	0	0	0
15	0	7.9	0	4.9	0.8	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	13.4	2.9	0	0	0	0	0	0	0	0	0	0
18	25	4.7	0	0	0	0	0	0	0	0	0	0
19	3.7	0.9	0	2.7	0.2	0	0	0	0	0	0	0
20	0	0	0	0.5	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	8.5	0	0	0	0	0	0
24	0	0	0	0	0	9.1	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	2.6	0	0	0	18.4	0	0	0	0	0
29	0	0	0	0	0	0	13.5	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	162.7	67.1	205.1	161.2	72.4	90.7	131.4	0	0	0.5	0	0
MEAN	5.25	2.24	6.62	5.20	2.59	2.93	4.38	0	0	0.02	0	0
ACR. FEET	323	133	407	320	144	180	261	0	0	0.99	0	0

Remarks:

YEAR - 1935
MEAN - 2.44
ACR. FEET - 1770

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

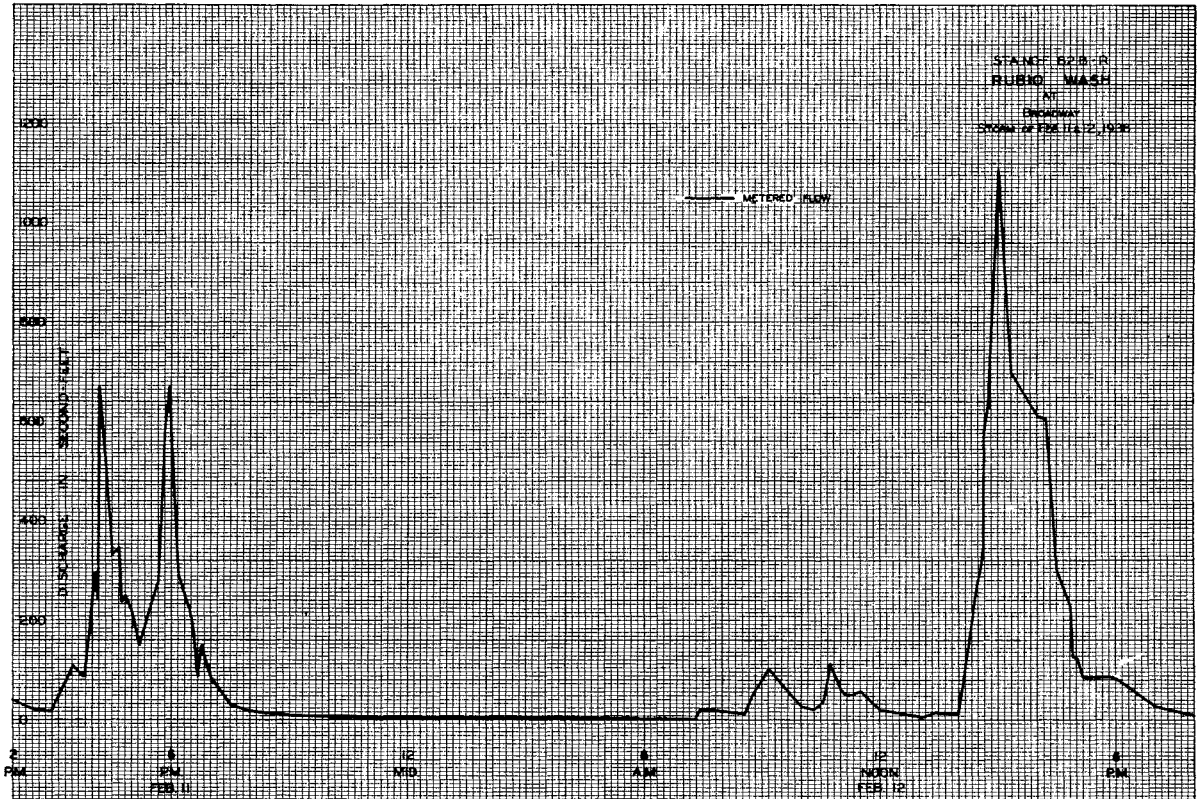
Sta. No. **F82B-R**

Daily discharge, in second-feet of **RUBIO WASH at Broadway** for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	3.5	0	0	0	0	0	0	0
2	0	0.2	0	0	5.6	0	0	0	0	0	0	0
3	0	0	0.4	0	0	0	4.2	0	0	0	0	0
4	0	0	2.8	0	0	0	0.1	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0.4	0	0	0	0	0	0	0
11	0	0	0	1.0	6.9	0	0	0	0	0	0	0
12	0	0	0	0	8.1	0	0	0	0	0	0	0
13	0	0	0	0	1.3	0	0	0	0	0	0	0
14	8.4	0	0	0	4.3	0	0	0	0	0	0	0
15	0.1	0	0	0	5.7	0	0	0	0	0	0	0
16	0	0	0	0	4.0	0	0	0	0	0	0	0
17	0	3.1	0	0	2.0	0	0	0	0	0	0	0
18	0	0	0	0	1.4	0	0	0	0	0	0	0
19	0	0	0	0	2.2	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	2.1	0	0	0	0	0	0	0
23	0	0	0	0	18.2	0	0	0	0	0	0	0
24	0	0	0	0	0	9.7	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0.9	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0.3	0	0	0	0	0
29	0.3	0	13.9	3.4	0	0	0.8	0	0	0	0	1.2
30	0.2	0	0.1	2.4	0	8.6	0	0	0	0	0	0
31	9.0	31.2	17.2	6.8	527.0	49.2	0	0.7	0	0.9	0	1.2
MEAN	0.29	1.04	0.55	0.22	1.64	+	1.64	+	0.02	0	0.03	0.04
ACR. FEET	18	62	34	13	1045	98	+	1.4	0	1.8	2.4	0

Remarks: + Mean for period + second-feet.
 ** Mean for period 0.054 second-feet.
 *** Mean for period 0.033 second-feet.

+ Indicates discharge of 0.05 second-feet or less.
 YEAR - 1936
 MEAN - 1.75
 ACR. FEET - 1280



Station F151R
SAN ANTONIO CREEK at Mouth of Canyon

Location

On west bank, upstream from all headgates of Pomona Valley Protective Association spreading canals, and 4 miles northeast of Claremont

Drainage area

28 square miles

Channel and control

Gravel and boulders.
Concrete control below station.

Discharge measurements

At low flow by wading near gage.
At high flow from cable car 10 feet above station.

Recorder

Installed February 20, 1931 in a F. C. Standard type house over a corrugated iron pipe stilling well. Horizontal rational recorder replaced on October 18, 1935 with an H.C.F. continuous recorder.

Regulation

None

Diversions

Two diversions for irrigation.

Records available

February 20, 1931 to September 30, 1936

Extremes of discharge

1930-31
Maximum 98 second-feet April 26
Minimum no flow at various times during year

1931-32
Maximum 405 second-feet February 8 and 9
Minimum no flow at various times during year

1932-33
Maximum 167 second-feet January 19
Minimum no flow most of year

1933-34
Maximum 800 second-feet January 1
Minimum no flow most of year

1934-35

Maximum 212 second feet April 8
Minimum no flow at various times during year

1935-36

Maximum 208 second-feet February 11
Minimum no flow most of year

Accuracy

Fair
Clock stopped: October 17, 1934;
February 11, 12, 13 and March 1, 2, 1935.

Operation

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 151 R

Discharge measurements of SAN ANTONIO CREEK at mouth of canyon during the year ending September 30, 1936

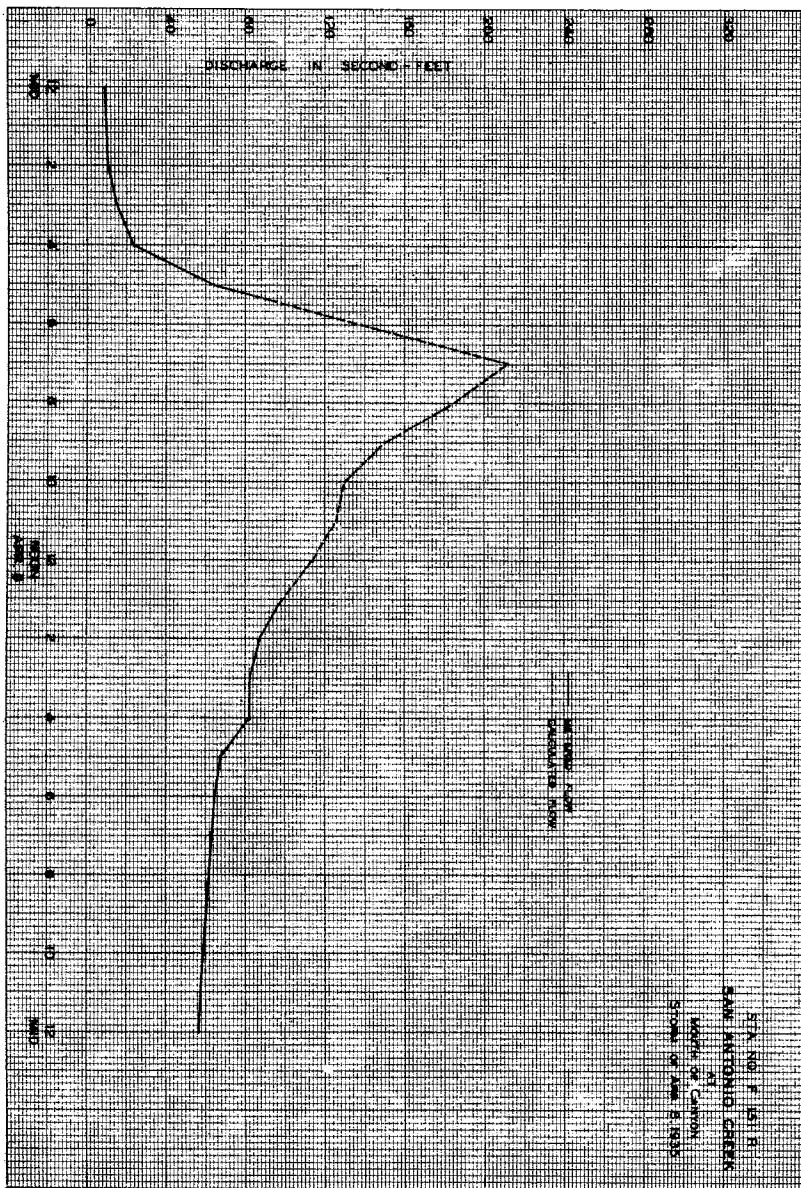
Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Diagram, Method, Meter No., G. H. class, Total, Meter No. (Left side)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 151 R

Discharge measurements of SAN ANTONIO CREEK at mouth of canyon during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Diagram, Method, Meter No., G. H. class, Total, Meter No. (Right side)



LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. **F 151 R**

Daily discharge, in second-feet of **SAN ANTONIO CREEK at mouth of canyon** for the year ending September 30, 19**35**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	5.6	20	6	30	6.5	0	0	0
2	0	0	0	0	.5	28	3.6	22	5.5	0	0	0
3	0	0	0	0	.5	24	4.2	26	4.2	0	0	0
4	0	0	0	0	10	22	4.8	24	3.6	0	0	0
5	0	0	0	11	77	24	7.3	24	3.0	0	0	0
6	0	0	0	6	87	25	8	21	3.6	0	0	0
7	0	0	0	5.5	68	22	8.5	20	2.0	0	0	0
8	0	0	0	5.5	68	20	25	19	1.7	0	0	0
9	0	0	0	14	68	19	51	18	1.4	0	0	0
10	0	0	0	6.5	66	18	46	18	1.2	0	0	0
11	0	0	0	6.5	68	16	41	18	.7	0	0	0
12	0	0	0	3.0	87	18	59	17	.9	0	0	0
13	0	0	4.8	1.0	66	24	39	18	.9	0	0	0
14	0	0	77	.3	51	25	41	17	.7	0	0	0
15	0	0	50	16	40	16	29	16	.3	0	0	0
16	0	0	18	6.5	24	14	47	16	.2	0	0	0
17	26	0	10	8.5	36	15	47	16	.1	0	0	0
18	14	0	6	11	54	15	40	16	.1	0	0	0
19	1.1	0	.1	11	28	18	24	14	+	0	0	0
20	0	0	.1	8.5	30	18	24	13	+	0	0	0
21	0	0	.1	6.5	28	18	24	12	0	0	0	0
22	0	0	0	5.5	26	12	24	11	0	0	0	0
23	0	0	0	4.8	28	12	24	11	0	0	0	0
24	0	0	0	5.0	26	14	24	10	0	0	0	0
25	0	0	0	3.5	25	15	24	10	0	0	0	0
26	0	0	0	1.4	22	18	22	10	0	0	0	0
27	0	0	0	1.7	20	11	22	8.5	0	0	0	0
28	0	0	.5	1.7	20	11	20	8.5	0	0	0	0
29	0	0	0	1.7	20	11	22	8	0	0	0	0
30	0	0	0	2.0	20	10	22	8	0	0	0	0
31	0	0	0	5.0	20	10	22	7.5	0	0	0	0
Year	41.1	0	185.7	150.5	1078.8	514.	951.4	492.5	26.6	0	0	0

Mean	1.22	0	5.22	4.22	28.2	16.6	21.7	15.9	1.22	0	0	0
Accm. Precip.	22	0	254.	222.	2150.	1020.	1890.	977.	73.	0	0	0

Remarks: + indicates discharge 0.05 sec. ft. or less. Year Mean 9.45. Accm. Precip. 6840.

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. **F151R**

Daily discharge, in second-feet of **SAN ANTONIO CREEK at mouth of canyon** for the year ending September 30, 19**36**

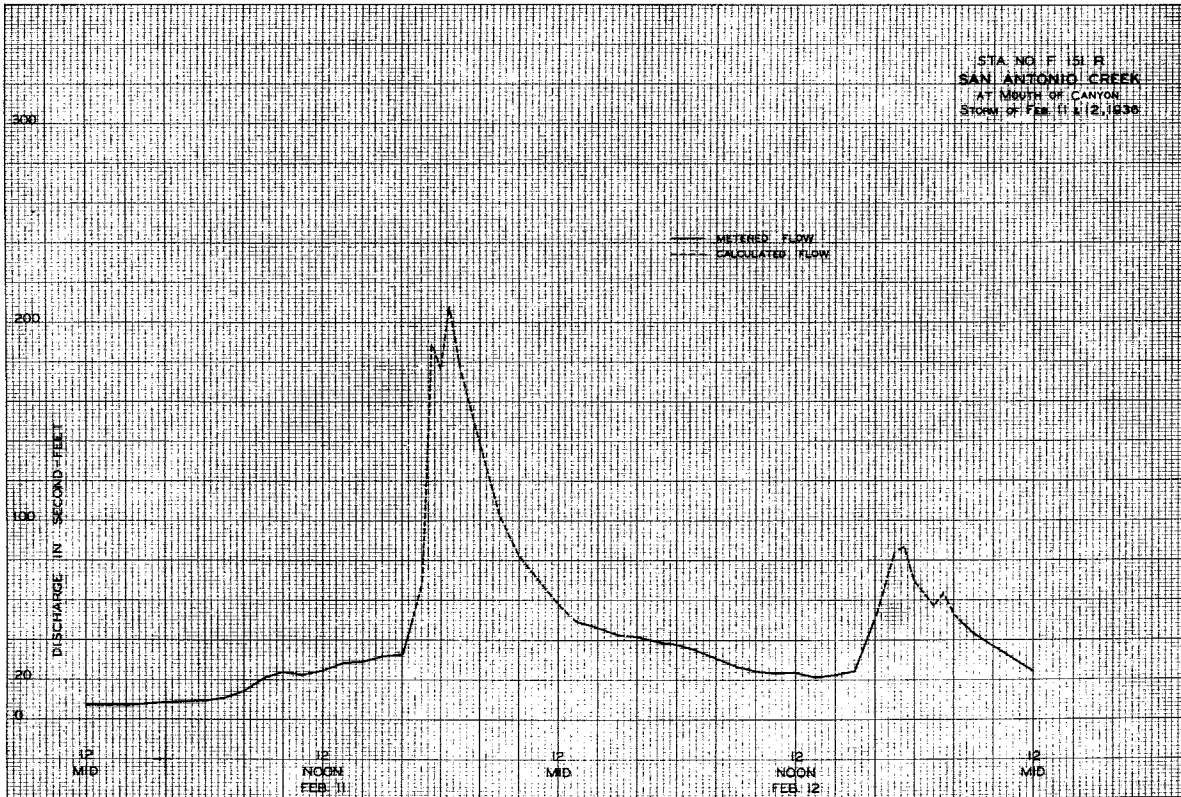
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	+	12	3.4	2.0	0	0	0	0
2	0	0	0	0	18	12	1.6	1.8	0	0	0	0
3	0	0	0	0	1.4	11	1.5	1.2	0	0	0	0
4	0	0	0	0	+	12	1.9	0.9	0	0	0	0
5	0	0	0	0	0	13	1.0	0.8	0	0	0	0
6	0	0	0	0	0	13	5	0.6	0	0	0	0
7	0	0	0	0	0.8	13	3.7	0.4	0	0	0	0
8	0	0	0	0	4.4	12	2.2	0.1	0	0	0	0
9	0	0	0	0	6.3	11	1.9	0	0	0	0	0
10	0	0	0	0	6	8.5	1.9	0	0	0	0	0
11	0	0	0	0	50	8.5	1.5	0	0	0	0	0
12	0	0	0	0	40	9	1.4	0	0	0	0	0
13	0	0	0	0	24	9	1.4	0	0	0	0	0
14	0	0	0	0	24	7.5	1.6	0	0	0	0	0
15	0	0	0	0	26	7.5	1.8	0	0	0	0	0
16	0	0	0	0	25	7	2.0	0	0	0	0	0
17	0	0	0	0	17	6.5	3.4	0	0	0	0	0
18	0	0	0	0	14	6.5	3.1	0	0	0	0	0
19	0	0	0	0	12	6.5	3.7	+	0	0	0	0
20	0	0	0	0	12	4.5	4.3	0	0	0	0	0
21	0	0	0	0	8.5	8.5	4.0	0	0	0	0	0
22	0	0	0	0	4.5	8	4.0	0	0	0	0	0
23	0	0	0	0	33	7.5	4.0	0	0	0	0	0
24	0	0	0	0	19	8.5	3.4	0	0	0	0	0
25	0	0	0	0	17	8	3.4	0	0	0	0	0
26	0	0	0	0	16	7.5	3.1	0	0	0	0	0
27	0	0	0	0	16	7.5	3.4	0	0	0	0	0
28	0	0	0	0	14	7	3.1	0	0	0	0	0
29	0	0	0	0	13	13	3.1	0	0	0	0	0
30	0	0	0	0	13	10	2.4	0	0	0	0	0
31	0	0	0	0	12	12	2.2	0	0	0	0	0
Year	0	0	0	0	423.6	288.5	109.7	7.8	0	0	0	0

Mean	0	0	0	0	14.5	4.31	3.66	0.25	0	0	0	0
Accm. Precip.	0	0	0	0	340	572	218	15	0	0	0	0

Remarks: + indicates discharge 0.05 second-foot or less. Year Mean 2.27. Accm. Precip. 1640.

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STATION F 220 R, LOS ANGELES COUNTY FLOOD CONTROL DISTRICT



F. C. D. Form 104 (M 11-35)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 220 R**

Station F220R

SAN GABRIEL - AZUSA CONDUIT at North portal #4-B Tunnel

Discharge measurements of SAN GABRIEL-AZUSA CONDUIT

at North Portal #4-B Tunnel, during the year ending September 30, 19 **35**

Location

On the west side of opening in concrete conduit connecting tunnels 4-A and 4-B of the Azusa Conduit, which diverts water from the San Gabriel River, about 3900 feet below station F250R, San Gabriel - Azusa Conduit at sandbox weir, and about 9 miles north of Azusa

Channel and control

Station located on short open section of concrete channel.

Discharge measurements

From top of opening.

Recorder

Installed February 26, 1933 in a F. C. Standard type house over a corrugated iron pipe scilling well. Au continuous recorder.

Records available

February 26, 1933 to September 30, 1936

Extremes of discharge

1932-33
Maximum not determined - year not complete.
Minimum not determined - year not complete.

1933-34
Maximum 87 second-feet January 20
Minimum no flow at various times during year

1934-35
Maximum 100 second-feet April 11
Minimum 0.1 second-foot January 1, 2

1935-36
Maximum 95 second-feet March 9
Minimum 0.1 second-feet February 1, 28

Accuracy

Good.
Clock stopped: October 14, November 10, 11, 1934;
October 24, December 29-31, 1935; January 1, 2,
February 20-23, April 26-30, 1936.
Estimated: April 9, 15-17, November 30, 1935;
February 13-16, 1936

Operation

Located, constructed and operated by the Los Angeles County Flood Control District in cooperation with the Pasadena Water Department.

No.	Date	Made by	Width Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating Percent full	Method	Mean gage No.	C. H. (ft.)	Depth (ft.)	Meter No.
1	1934												
1	10/1	R.A. Waddoor	4.9	5.9	2.36	.75	9.2	.6	11	+0.1	920A	FC 6	
2	10/2	G. Patterson	4.9	5.5	2.31	.68	8.1	.6	11	0	840A	FC 12	
3	10/3	R.A. Waddoor	4.9	5.8	2.45	.74	9.5	.6	11	0	850A	FC 6	
4	10/4	"	4.9	5.65	2.40	.71	8.7	.6	11	0	948A	FC 6	
5	10/5	Turner	4.85	5.94	2.54	.77	10.	.6	11	0	825A	FC 25	
6	10/6	"	4.9	5.9	2.62	.76	10.	.6	11	0	847A	FC 25	
7	10/7	"	4.85	4.15	2.80	.82	12.	.6	11	0	8116A	FC 25	
8	10/8	R.A. Waddoor	4.9	3.9	2.56	.77	10.	.6	11	0	1128A	FC 12	
9	10/9	"	4.9	4.0	2.49	.75	9.9	.6	11	0	945A	FC 25	
10	10/10	"	4.9	3.56	2.45	.69	8.6	.6	11	0	818A	FC 12	
11	10/11	G. Patterson	4.9	3.8	2.58	.75	9.8	.6	11	0	824A	FC 12	
12	10/12	Turner	4.85	5.56	2.42	.69	8.6	.6	11	0	846A	FC 25	
13	10/13	"	4.85	5.55	2.47	.70	8.8	.6	11	0	842A	FC 25	
14	10/14	"	4.9	5.9	2.69	.77	10.	.6	11	0	955A	FC 25	
15	10/15	R.A. Waddoor	4.9	3.8	2.55	.75	9.7	.6	11	0	950A	FC 25	
16	10/16	G. Patterson	4.9	4.2	2.85	.85	12.	.6	11	0	1002A	FC 12	
17	10/17	R.A. Waddoor	4.9	4.8	3.11	.95	15.	.6	11	+0.1	942A	FC 25	
18	10/18	Waddoor-Turner	5.25	17.6	4.2	5.5	74.	.6	11	0	850A	FC 25	
19	10/20	Turner	5.25	19.5	4.45	5.9	87.	.6	11	0	1042A	FC 25	
20	10/21	Turner	5.25	15.5	4.25	5.06	66.	.6	11	-0.1	848A	FC 25	
21	10/22	Waddoor-Turner	5.25	15.4	4.18	2.69	56.	.6	11	-0.2	900A	FC 25	
22	10/23	Waddoor	5.25	11.9	4.14	2.55	49.	.6	11	0	858A	FC 25	
23	10/24	"	5.25	10.6	4.06	2.09	43.	.6	11	0	855A	FC 12	
24	10/25	"	5.2	9.41	4.28	1.86	40.	.6	11	-0.07	837A	FC 25	

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 220 R

Discharge measurements of SAN GABRIEL-AZUSA CONDUIT

at North Portal #4-B Tunnel during the year ending September 30, 1926

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meter No., G. H. change, Drain, Meter No. Rows include measurements from 1924 to 1926.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 220 R

Discharge measurements of SAN GABRIEL-AZUSA CONDUIT

at North Portal #4-B Tunnel during the year ending September 30, 1926

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meter No., G. H. change, Drain, Meter No. Rows include measurements from 1924 to 1926.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 220 B

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 220 B

Discharge measurements of SAN GABRIEL-AZUSA CONDUIT

Discharge measurements of SAN GABRIEL-AZUSA CONDUIT

at North Portal #4-B Tunnel during the year ending September 30, 1955

at North Portal #4-B Tunnel during the year ending September 30, 1955

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meter No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meter No. The table contains multiple rows of data for various measurements.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 220 R

Discharge measurements of SAN GABRIEL - AZUSA CONDUIT

at North portal #4 - B Tunnel during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section No. ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec-ft, Name Program, Method, Meter No., G. H. change Feet, Begin End, Meter No. Contains 53 rows of measurement data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 220 R

Discharge measurements of SAN GABRIEL - AZUSA CONDUIT

at North portal #4 - B Tunnel during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section No. ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec-ft, Name Program, Method, Meter No., G. H. change Feet, Begin End, Meter No. Contains 53 rows of measurement data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 220 R

SAN GABRIEL - AZUSA CONDUIT

Discharge measurements of North portal #4 - B Tunnel during the year ending September 30, 1936

Table with columns: No., Date, Made by, Total Head, Mean Velocity, Area, Discharge, etc. Rows 110-136.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT.

Sta. No. F220R

Summary table for San Gabriel - Azusa Conduit at North portal #4 - B Tunnel for the year ending September 30, 1936. Includes daily discharge data and summary statistics.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT.

Sta. No. F220R

Summary table for San Gabriel - Azusa Conduit at North portal #4 - B Tunnel for the year ending September 30, 1936. Includes daily discharge data and summary statistics.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F250R**

Station F250R

SAN GABRIEL - AZUSA CONDUIT at sand box weir

Discharge measurements of SAN GABRIEL - AZUSA CONDUIT

at sand box weir during the year ending September 30, 19 **35**

Location

On the east side of the sandbox on Azusa Conduit, 12 feet above the 25 foot weir, about 150 feet below the present intake in the San Gabriel Dam No. 1 30 foot outlet tunnel, about 2500 feet below the old Edison (abandoned) Intake, and about 3900 feet above station F220R.

Channel and control

Channel - concrete sandbox. There is a concrete by-pass around the sand box. There are gates in the sand box above the 25 foot weir through which water may be passed for sluicing or through which water may be spilled. In connection with the construction of San Gabriel Dam No. 1 water was pumped from and into the sand box above the 25 foot weir at various times. Control - 25 foot sharp crested weir with two end contractions. Station F250R gives a record of the flow over the 25 foot weir; station F220R gives a record of the flow down the Azusa Conduit below the Tainter gate.

Recorder

An recorder. Installed February 14, 1935 in a F. C. Standard type house over a 24" corrugated iron pine stilling well.

Regulation

The flow of the San Gabriel River, available at the intake, is partially regulated by San Gabriel Dam No. 2.

Records available

February 14, 1935 to September 30, 1936.

Extremes of discharge

February 14, 1935 to September 30, 1935
Maximum 155 second feet April 8
Minimum no flow at times
1935-36
Maximum 121 second-feet March 24
Minimum no flow at times

Accuracy

Good.
Estimated: February 22, April 8-10, 1935; February 10, 11, 1936.

Glock stopped: February 27, March 1, 2, 10, 11, April 14, 15, 17, 29, 30, May 26, 27, July 3-5, August 10, 30, 31, September 3, 4, 7, 1935; January 2, 3, February 22, April 5, 6, June 14, 15, August 14, 1936.

Operation

Located, constructed and operated by the Los Angeles County Flood Control District in cooperation with the Pasadena Water Department.

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity Ft. per sec.	Stage Height Feet	Discharge Sec. Ft.	Rating Coeff.	Rating Method	Meas. No.	G. H. Change Total	Begin Time	End Time	Meas. No.
1	1935 2/26	Crown	28.8	113.2	.89	1.14	101	-	2	16	-	1056A	1140A	FC 25
2	3/1	Patterson-Tsocharner	28.8	112.4	.76	1.11	85	-	6	16	0	915A	958A	"
3	3/1	"	28.8	112.5	.84	1.11	94	-	8	16	0	1002A	1002A	"
4	3/3	Reber	28.8	113.2	.82	1.13	93	-	8	16	0	1004A	1004A	"
5	3/6	Reber-Boling	28.8	115.8	.81	1.22	94	-	9	16	0	1005A	1005A	"
6	3/9	"	28.8	112.4	.89	1.10	100	-	8	16	-	1135A	1135A	"
7	3/9	Tsocharner-Boling	28.8	110.9	.64	1.07	71	-	8	16	-20	125E	125E	"
8	3/10	Reber	28.8	112.4	.85	1.11	94	-	6	16	0	1250B	1250B	"
9	3/11	" - Tsocharner	28.8	111.2	.79	1.08	88	-	8	16	0	440E	440E	FC 22
10	3/12	" - Boling	28.8	112.4	.83	1.08	92	-	8	16	0	1040A	1040A	FC 22
11	3/12	" - Tsocharner	28.8	64.2	1.72	1.20	110	-	8	16	0	220E	220E	FC 25
12	3/14	Tsocharner-Boling	28.8	116.1	.92	1.21	107	-	8	16	0	125E	125E	"
13	3/14	"	28.8	116.1	.89	1.21	103	-	8	16	0	255E	255E	"
14	3/16	Boling-Reber	28.8	115.2	.92	1.21	108	-	8	16	0	1055A	1055A	FC 22
15	3/26	Reber-Tsocharner	28.8	116.1	.88	1.24	97	-	8	16	0	150E	150E	FC 25
16	3/26	Tsocharner-Boling	28.8	115.8	.74	1.24	86	-	8	16	0	210E	210E	FC 22
17	3/27	"	28.8	115.2	.81	1.23	93	-	8	16	0	145E	145E	FC 25
18	4/3	Reber-Tsocharner	28.8	117.0	.88	1.22	96	-	8	16	0	200E	200E	"
19	4/16	Turner-Tsocharner	28.8	111.8	.67	1.13	75	-	8	16	0	205E	205E	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F250R**

Discharge measurements of SAN GABRIEL - AZUSA CONDUIT

at sand box weir during the year ending September 30, 19 **35**

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity Ft. per sec.	Stage Height Feet	Discharge Sec. Ft.	Rating Coeff.	Rating Method	Meas. No.	G. H. Change Total	Begin Time	End Time	Meas. No.
1	12/27	Cooper	5.0	16.2	1.96	.50	32.			11	0	145P	200P	FC 32
2	3/17	Reber - Cooper	5.0	20.0	4.66	1.12	93.			11	0	210P	230P	FC 29
3	3/17	"	5.0	20.0	4.91	1.12	95.			11	005	300P	422P	"
4	3/17	Cooper - Reber	5.0	21.0	4.66	1.15	95.			11	0	432P	425P	"
5	5/20	"	5.0	19.6	3.74	.91	73.			11	0	435P	435P	FC 11
6	5/20	"	5.0	19.6	3.73	.91	73.			11	005	503P	445P	"
7	6/11	"	5.0	15.4	3.03	.67	50.			11	0	452P	452P	"

Station F99R
SAN GABRIEL RIVER - BEAR CR. at Boy Scouts Camp

Location
On east bank of Bear Creek 1 1/2 miles above mouth

Drainage area
26 square miles

Channel and control
Sand, gravel, rock, and boulders
No artificial control

Discharge measurements
At low flow by wading near gage
At high flow from cable car just below the station.

Recorder
Installed in 1929 in a F. C. Standard type house
over a corrugated iron pipe stilling well.
Recorder removed December 6, 1935.
H.C.F. continuous recorder.

Regulations

None

Diversions

None

Records available

October 1, 1929 to December 6, 1935. For records subsequent to December 6, 1935 see record for station F99B-R

Extremes of discharge

- 1929-30
Maximum 108 second-feet May 3
Minimum .1 second-foot October 13
- 1930-31
Maximum 527 second-feet April 26
Minimum + August 27
- 1931-32
Maximum 1510 second-feet February 9
Minimum .1 second-foot September 16
- 1932-33
Maximum 566 second-feet January 19
Minimum + several times latter part of September
- 1933-34
Maximum 1600 second-feet January 1
Minimum no flow part of year
- 1934-35
Maximum not determined
Minimum 0.2 second-feet October 1

Accuracy

Pool.
No record: December 8, 1934 to March 20, 1935.
Clock stopped and well sanded April 20 to July 5, 1935;
Clock stopped November 12 to December 6, 1935.
Estimated December 6 to December 10.

Operation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT
Station No. F 99 R

Discharge measurements of SAN GABRIEL RIVER - BEAR CREEK
at Boy Scouts Camp, during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity Ft. per Sec.	Gage Height Feet	Discharge Sec. Ft.	Rating Projected	Method	Mean Area Sq. Ft.	G. H. Change Total	Rating No.	Meter No.
1	11/15	Crown - Turner	15.0	14.0	.18	2.18	2.1	.6	10	-	285P	245P	FC 25
2	11/17	Turner	17.5	18.0	.46	2.52	6.0	.6	12	0	150P	185P	"
3	12/7	Crown - Reber	16.5	11.9	.87	2.86	4.5	.6	12	0	180P	210P	"
4	3/20	Patterson	21.5	26.4	1.08	2.88	29.	.6	8	0	542P	331P	FC 22
5	7/8	Turner	19.0	15.5	.62	2.29	8.0	.6	10	0	215P	1155A	FC 25
6	7/22	Turner - Reber	18.0	15.5	.41	2.25	6.5	.6	10	0	215P	1155A	FC 27
7	8/18	"	12.0	7.0	.39	2.19	2.8	.6	7	0	1140A	1150A	FC 25
8	9/4	Reber	12.0	6.52	.29	2.12	1.9	.6	10	0	340P	355P	FC 18

Discharge measurements of SAN GABRIEL RIVER-BEAR CR.
at Boy Scouts Camp, during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity Ft. per Sec.	Gage Height Feet	Discharge Sec. Ft.	Rating Projected	Method	Mean Area Sq. Ft.	G. H. Change Total	Rating No.	Meter No.
1	10/3	Reber	12.3	7.11	.29	2.17	2.0	.6	10	0	205P	220P	FC 12
2	10/21	"	8.0	5.30	.62	2.21	3.3	.6	9	0	210P	230P	"
3	10/29	"	8.5	6.77	.35	2.14	2.4	.6	8	0	225P	205P	"
4	11/4	"	8.0	6.87	.51	2.19	3.5	.6	8	0	225P	330P	FC 29
5	11/11	"	7.8	7.05	.40	2.19	2.8	.6	7	-	240P	240P	FC 29
6	11/21	"	13.0	.41	.40	2.24	3.0	.6	11	0	300P	300P	FC 2

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.
Station No. F 99 R
Daily discharge in second-feet of SAN GABRIEL RIVER - BEAR CR. at Boy Scouts Camp for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2	2.6	5.				29				2.8	2.3
2	3	2.6	4.9				29				2.8	2.2
3	4	2.6	4.9				29				2.8	2.2
4	5	2.6	4.9				29				2.8	2.2
5	6	2.6	4.9				29				2.8	2.2
6	7	2.6	4.9				29				2.8	2.2
7	8	2.6	4.9				29				2.8	2.2
8	9	2.6	4.9				29				2.8	2.2
9	10	2.6	4.9				29				2.8	2.2
10	11	2.6	4.9				29				2.8	2.2
11	12	2.6	4.9				29				2.8	2.2
12	13	2.6	4.9				29				2.8	2.2
13	14	2.6	4.9				29				2.8	2.2
14	15	2.6	4.9				29				2.8	2.2
15	16	2.6	4.9				29				2.8	2.2
16	17	2.6	4.9				29				2.8	2.2
17	18	2.6	4.9				29				2.8	2.2
18	19	2.6	4.9				29				2.8	2.2
19	20	2.6	4.9				29				2.8	2.2
20	21	2.6	4.9				29				2.8	2.2
21	22	2.6	4.9				29				2.8	2.2
22	23	2.6	4.9				29				2.8	2.2
23	24	2.6	4.9				29				2.8	2.2
24	25	2.6	4.9				29				2.8	2.2
25	26	2.6	4.9				29				2.8	2.2
26	27	2.6	4.9				29				2.8	2.2
27	28	2.6	4.9				29				2.8	2.2
28	29	2.6	4.9				29				2.8	2.2
29	30	2.6	4.9				29				2.8	2.2
30	31	2.6	4.9				29				2.8	2.2
31		2.6	4.9				29				2.8	2.2

Mean: 8.14
Max: 501
Min: 150
Total: 125.9
Area: 48.2

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.
Station No. F 99 R
Daily discharge in second-feet of SAN GABRIEL RIVER - BEAR CR. at Boy Scouts Camp for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
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								

Mean: 2.65
Max: 163
Min: 184
Total: 92.6
Area: 37.0

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 99 B-R**

Station **F99B-R**

SAN GABRIEL RIVER - BEAR CR. 500 ft. above West Fork

Discharge measurements of **SAN GABRIEL RIVER - BEAR CR.**

Location

On vertical cliff on east bank of stream about 15 miles north of Azusa.

Drainage area

27.9 square miles

Channel and control

Sand, gravel, rock and boulders
No artificial control

Discharge measurements

At low flow by wading near gage
At high flow from cable car 6 feet above the recorder house.

Recorder

Installed December 1935 in F. C. Standard type house over a corrugated iron pipe stilling well H.C.F. continuous recorder

Regulation

None

Diversions

None

Records available

December 20, 1935 to September 30, 1936.
For records prior to December 20, 1935 see record for station F99R about 1 1/2 miles upstream

Extremes of discharge

1935-36
Maximum 410 second-feet February 12

Accuracy

Good
Estimated: December 11 1935 to January 2, 1936;
May 22-27, 1936.

Operation

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

500 ft. above West Fork, during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Cage height feet	Discharge Sec. ft.	Rating Project diff.	Method	Meter No.	G. H. stage feet	Rain End	Meter No.
25	2/17	Reber	26.7	37.5	2.32	3.15	87.		.6	14	0	845A	FC 33
26	2/17	"	26.7	37.3	2.30	3.14	86.		.6	14	0	935A	"
27	2/18	"	26.5	34.4	2.06	3.04	71.		.6	14	0	1000A	"
28	2/24	"	26.5	26.5	2.02	3.06	74.		.6	15	0	445P	"
29	2/26	Cooper	25.3	28.9	1.50	2.81	44.		.6	12	0	840A	FC 29
30	2/27	Cooper-Richards	25.3	27.8	1.49	2.75	41.		.6	12	0	910A	"
31	3/2	Reber-Richards	20.3	23.1	1.12	2.60	26.		.6	10	0	240P	FC 33
32	3/9	De Vore	19.2	20.9	.74	2.44	15.		.6	11	0	237P	FC 11
33	3/11	Reber-Richards	18.3	19.3	.75	2.41	15.		.6	9	0	400P	FC 33
34	3/16	"	13.8	16.0	.78	2.36	13.		.6	14	0	410P	"
35	3/21	De Vore	13.7	15.4	.65	2.33	10.		.6	10	0	215P	FC 11
36	3/23	Reber-Richards	8.5	5.88	1.88	2.32	11.		.6	8	0	222P	"
37	3/30	Reber-Cooper	13.9	15.3	.67	2.30	10.		.6	10	0	300P	FC 33
38	4/5	Reber	14.0	18.0	1.11	2.51	20.		.6	10	0	505P	"
39	4/12	"	13.9	16.4	.89	2.40	15.		.6	10	0	520P	"
40	4/15	Reber-Richards	13.9	16.1	.81	2.37	13.		.6	10	0	225P	"
41	4/18	De Vore	13.7	15.6	.76	2.34	12.		.6	11	0	349P	FC 11
42	4/24	De Vore-Richards	13.7	14.6	.67	2.29	9.8		.6	14	0	401P	FC 29
43	4/28	Reber	13.9	14.3	.61	2.27	8.8		.6	10	0	200P	FC 33
44	5/3	"	13.9	13.8	.56	2.22	7.7		.6	10	0	216P	FC 11
45	5/6	"	13.9	13.9	.56	2.22	7.8		.6	10	0	235P	FC 11
46	5/10	"	13.4	13.1	.42	2.17	5.6		.6	9	0	1000A	FC 33
47	5/21	"	7.6	4.35	1.44	2.11	6.3		.6	8	0	330P	"
48	5/28	"	7.7	4.21	1.36	2.10	5.7		.6	8	0	1000A	"
49	6/4	Reber	7.7	4.37	1.38	2.13	6.0		.6	8	0	954A	FC 33
50	6/11	"	7.5	3.75	1.13	2.00	4.2		.6	8	0	930A	"
51	6/18	"	7.4	3.21	.87	1.93	2.8		.6	8	0	1013A	"
52	6/25	"	7.0	2.52	.65	1.84	1.6		.6	8	0	949A	"
53	7/2	"	6.8	2.45	.60	1.82	1.5		.6	8	0	958A	"
54	7/9	"	6.8	2.41	.56	1.82	1.4		.6	8	0	1007A	"
55	7/16	"	6.8	1.96	.39	1.74	.75		.6	8	0	1022A	"
56	7/23	"	6.7	1.77	.32	1.72	.55		.6	7	0	1015A	"
57	7/30	De Vore	7.0	1.93	.35	1.76	.65		.6	7	0	1132A	FC 32
58	7/31	Cooper-De Vore	3.4	.75	.57	1.70	.43		.6	6	0	1144A	"
59	8/6	De Vore	3.4	.72	.49	1.70	.35		.6	6	0	348P	FC 11
60	8/13	Reber	3.4	.81	.67	1.72	.55		.6	6	0	356P	FC 32
61	8/20	"	3.3	.76	.45	1.70	.34		.6	6	0	1212P	FC 33
62	8/21	Cooper-De Vore	3.4	.72	.40	1.69	.29		.6	6	0	930A	"
63	8/27	Reber	3.3	.74	.39	1.68	.29		.6	6	0	937A	FC 11
64	9/3	"	3.5	.78	.40	1.70	.31		.6	6	0	935A	FC 33
65	9/9	"	2.4	.51	.35	1.62	.18		.6	5	0	943A	"
66	9/16	"	2.2	.49	.43	1.64	.21		.6	5	0	122P	"
67	9/24	"	2.0	.41	.44	1.64	.18		.6	4	0	120P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 99B-R**

Discharge measurements of **SAN GABRIEL RIVER - BEAR CR.**

500 ft. above West Fork, during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Cage height feet	Discharge Sec. ft.	Rating Project diff.	Method	Meter No.	G. H. stage feet	Rain End	Meter No.
1	12/11	Cooper - De Vore	13.1	7.82	.51	-	4.0		.6	10	-	244P	FC 11
2	12/21	De Vore	13.1	9.76	.38	1.95	3.7		.6	11	-	256P	"
3	12/23	Cooper - Odekirk	13.1	10.2	.36	2.00	3.7		.6	9	0	405P	"
4	12/26	Cooper	13.2	10.1	.35	2.01	3.5		.6	10	-	417P	"
5	12/28	De Vore - Odekirk	13.2	10.7	.28	2.05	3.0		.6	9	0	433P	"
6	12/29	Reber	20.0	15.8	.40	2.28	6.3		.6	10	-	530P	FC 33
7	12/31	De Vore - Reber	13.4	12.4	.33	2.18	4.0		.6	8	0	345P	FC 11
8	1/2	Cooper - Odekirk	13.5	12.1	.31	2.16	3.7		.6	10	0	400P	"
9	1/7	" - De Vore	6.2	3.77	1.12	2.18	4.2		.6	9	-	1144A	"
10	1/15	Reber	6.2	3.74	1.09	2.17	4.1		.6	11	-	1200N	FC 33
11	1/22	Odekirk - Cooper	6.6	3.48	.97	2.16	3.4		.6	9	0	200N	FC 11
12	1/26	Reber	6.4	3.55	1.08	2.05	3.8		.6	9	-	424P	FC 33
13	1/28	" - Cooper	6.1	3.39	1.14	2.04	3.9		.6	12	0	155P	FC 11
14	1/29	Reber	6.7	3.33	1.06	2.07	3.5		.6	11	0	205P	FC 33
15	2/1	"	23.5	23.5	1.07	2.69	25.		.6	10	0	234A	"
16	2/3	"	23.3	21.7	.89	2.52	19.		.6	10	0	304A	"
17	2/4	"	22.2	19.3	.72	2.40	14.		.6	10	0	400P	"
18	2/9	"	6.7	4.78	1.68	2.26	8.1		.6	12	0	425P	"
19	2/12	Reber - Abrams	26.0	33.2	1.80	2.95	60.		.6	12	0	950P	"
20	2/12	"	26.0	32.1	1.84	2.96	59.		.6	12	0	1010P	"
21	2/13	Reber	26.5	37.4	2.35	3.18	88.		.6	13	-01	1050A	"
22	2/13	"	26.5	37.5	2.33	3.17	88.		.6	13	0	1110A	"
23	2/14	"	26.5	35.0	2.26	3.10	79.		.6	14	-01	1135A	"
24	2/14	"	26.5	35.2	2.25	3.10	79.		.6	14	-01	950A	"

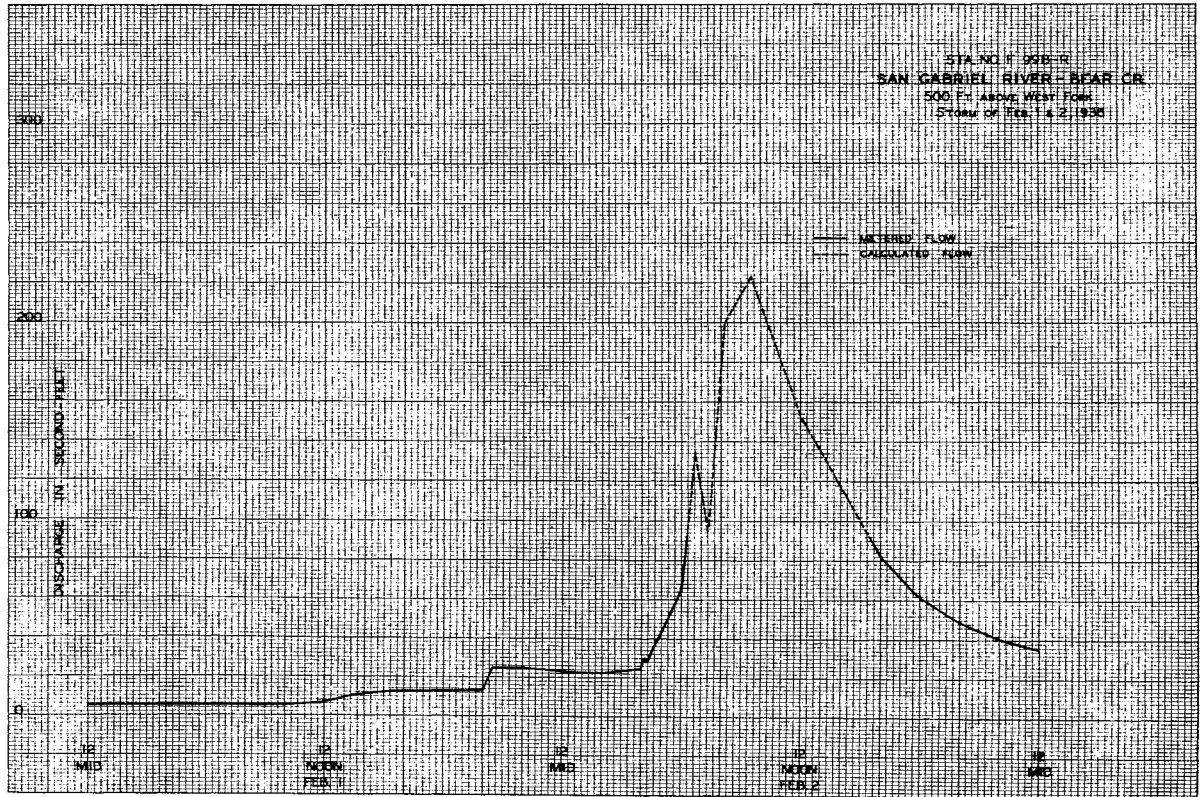
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. 799B-R

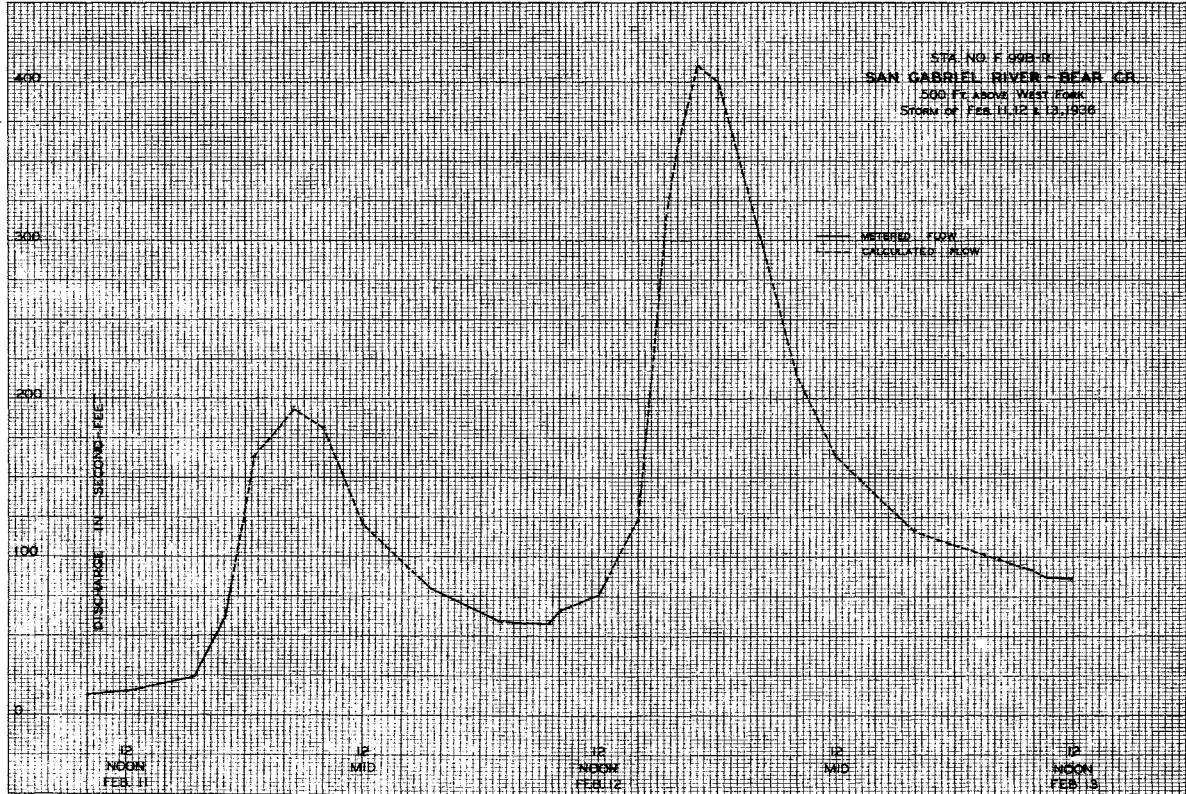
Daily discharge, in second feet of **SAN GABRIEL RIVER - BEAR CR. 500 ft. above West Fork**, for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1				3.8	8.5	28	16	8.5	5.5	1.3	0.4	0.3	
2				3.8	8.3	26	15	7.5	5.5	1.3	0.4	0.3	
3				3.8	22	25	16	7.5	5.5	1.1	0.4	0.3	
4				3.8	15	22	25	7.5	5.5	1.0	0.4	0.3	
5				3.9	13	20	20	7.5	5.5	0.9	0.3	0.3	
6				4.1	10	18	18	7.5	5.5	0.9	0.3	0.3	
7				4.2	9.5	17	18	7.5	5.5	1.0	0.3	0.3	
8				4.2	8.5	16	16	6.5	5.5	1.0	0.3	0.3	
9				4.2	8.5	15	16	6.5	5.5	1.3	0.4	0.3	
10				4.4	7.5	15	16	6.5	5.5	1.5	0.4	0.3	
11			4.0	4.4	5.2	15	15	6.5	5.5	2.2	0.4	0.3	
12			4.0	4.4	15.6	14	15	6.5	5.5	3.9	1.3	0.4	
13			4.0	4.4	10.6	14	14	6.5	5.5	3.4	1.0	0.4	
14			3.9	4.2	9.5	14	14	6.5	5.5	3.0	0.9	0.4	
15			3.9	4.2	13.7	14	14	6.5	5.5	3.0	0.8	0.4	
16			3.9	4.2	12.2	13	13	6.5	5.5	3.0	0.8	0.4	
17			3.9	4.1	8.2	12	12	6.5	5.5	3.0	0.8	0.4	
18			3.8	3.5	7.1	11	11	6.5	5.5	3.0	0.8	0.4	
19			3.8	3.5	5.5	11	12	6.5	5.5	3.0	0.8	0.4	
20			3.8	3.6	4.5	10	11	6.5	5.5	3.0	0.8	0.4	
21			3.7	3.5	4.4	10	11	6.5	5.5	3.0	0.8	0.4	
22			3.7	3.4	4.7	10	11	6.5	5.5	3.0	0.8	0.4	
23			3.7	3.5	10.6	11	10	6.5	5.5	3.0	0.8	0.4	
24			3.6	3.3	12	12	9.5	6.5	5.5	1.9	0.8	0.4	
25			3.6	3.3	12	12	9.5	6.5	5.5	1.6	0.8	0.4	
26			3.5	3.2	12	12	9.5	6.5	5.5	1.5	0.8	0.4	
27			3.5	3.2	4.4	11	11	6.5	5.5	1.5	0.8	0.4	
28			3.5	3.2	4.2	11	11	6.5	5.5	1.5	0.8	0.4	
29			3.5	3.2	3.7	11	11	6.5	5.5	1.5	0.8	0.4	
30			4.0	3.3	3.2	11	11	6.5	5.5	1.5	0.8	0.4	
31			4.0	3.6	2.7	12	12	6.5	5.5	1.5	0.8	0.4	
			11.82.1	121.5	159.0	469.0	404.0	193.0	102.7	26.8	10.2	6.4	
Mean				3.91	3.92	5.51	15.1	13.5	6.23	3.42	0.86	0.33	0.21
Area				163	241	3170	930	801	383	204	53	20	13

Remarks: Mean on Dec. 11-Sept. 30 Period Acre Feet 5980



KOFFEL & LANGE CO., S. F., NO. 44511L
11 1/2" x 17" SHEET



Station F227R
 SAN GABRIEL RIVER - DEVILS CANYON 2 miles above S. G. Dam #2

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPARTMENT
 Station No. **F 227 R**

Location
 On the left bank of Devils Canyon, 10 miles above the junction of the East and West Forks of the San Gabriel River.

Discharge measurements of SAN GABRIEL RIVER - DEVILS CANYON
 2 miles above S. G. Dam #2 during the year ending September 30, 1936

Drainage area
 15.4 square miles

Channel and control
 Channel - sand, gravel and boulders.
 No artificial control.

Discharge measurements
 At low flows by wading near station.
 At high flows from cable car at station.

Recorder
 Installed December 22, 1933 in a F. C. Standard type house over a corrugated iron pipe stilling well.
 An continuous recorder.

Regulation
 None

Diversions
 None

Records available
 December 22, 1933 to September 30, 1936

Extremes of discharge
 1933-34
 Maximum 1560 second-feet January 1
 Minimum no flow part of year
 1934-35
 Maximum 288 second-feet April 8
 Minimum no flow part of year
 1935-36
 Maximum 204 second-feet February 12
 Minimum no flow part of year

Accuracy
 Low flows fair.
 High flows poor.
 Sanded: February 8-13, 1935; April 11-18, 1935.

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

No.	Date	Made by	Width Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rainfall In.	Method	Mean gage No.	G. H. class.	Station No.	Meter No.
1	10/18	Cooper	22.0	13.6	1.51	4.25	21.	.6	10	*.01	124P	FC 20	106P
2	10/18	"	22.0	13.8	1.54	4.25	20.	.6	10	*.01	212P	"	212P
3	10/25	"	4.0	1.30	0.50	3.49	.75	.6	6	-	524P	"	510P
4	10/26	"	5.6	1.57	0.25	3.47	0.56	.6	5	0	257P	"	257P
5	11/8	Waddicor	2.7	.30	1.50	3.48	.45	.6	5	0	509P	"	128P
6	11/14	"	2.5	.24	1.12	3.49	.38	.6	5	0	140P	float	230P
7	11/21	"	7.0	3.5	.70	3.55	2.5	.6	7	0	235P	FC 26	235P
8	11/29	"	6.3	2.55	.50	3.55	1.5	.6	6	0	185P	"	185P
9	12/5	Waddicor, Patterson, Turner	5.5	2.48	.45	3.53	1.1	.6	8	0	202P	"	202P
10	12/15	Waddicor	22.4	25.8	1.88	4.64	49.	.6	9	0	204P	"	204P
11	12/20	"	18.0	10.1	.94	4.00	9.4	.6	8	-	1130A	"	1130A
12	12/26	"	7.5	5.14	.87	3.84	4.5	.6	6	0	1140A	"	1140A
13	1/2	"	5.0	2.67	1.45	3.85	3.9	.6	5	0	227P	"	227P
14	1/16	"	19.0	13.1	1.65	4.37	21.	.6	10	0	200P	"	200P
15	1/25	"	20.0	11.1	1.31	4.21	15.	.6	10	0	210P	"	210P
16	2/1	"	19.0	9.2	1.15	4.11	11.	.6	10	0	1150A	"	1150A
17	2/15	"	21.5	11.5	1.99	4.38	22.	.6	11	0	1057A	"	1057A
18	2/20	"	16.2	8.70	1.95	4.20	15.	.6	8	0	240P	"	240P
19	2/27	"	15.8	5.85	1.58	4.11	8.1	.6	10	0	255P	"	255P
20	3/14	"	13.2	5.6	1.57	4.16	8.8	.6	9	0	1105A	"	1105A
21	3/22	"	2	channels		4.10	7.5	.6	10	0	1110A	"	1110A
22	3/27	"	2	channels		4.12	8.5	.6	10	0	1122A	"	1122A
23	4/2	"	8.0	3.4	1.67	4.08	5.7	.6	8	0	255P	"	255P
24	4/18	" - Ash	11.8	6.7	2.34	4.28	16.	.6	8	0	247P	"	247P
													400P
													410P
													1180A
													1180A

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 227 R

Discharge measurements of SAN GABRIEL RIVER - DEVILS CANYON

2 miles above S. G. Dam #2 during the year ending September 30, 1935

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 227 R

Discharge measurements of SAN GABRIEL RIVER - DEVILS CANYON

2 miles above S. G. Dam #2 during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq-ft, Mean Velocity Ft. per sec., Gate height feet, Discharge Sec-ft, Rating Program, Method, Mean gage No., C. H. gage Total, Depth ft., Meter No., No., Date, Made by, Width Feet, Area of Section Sq-ft, Mean Velocity Ft. per sec., Gate height feet, Discharge Sec-ft, Rating Program, Method, Mean gage No., C. H. gage Total, Depth ft., Meter No.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F227R

Discharge measurements of * SAN GABRIEL RIVER - DEVILS CANYON

at 2 miles above S. G. Dam # 2 during the year ending September 30, 1936

No.	Date	Height	W.C. Ft.	Area of Section Sq. Ft.	Mean Velocity ft. per Sec.	High Light ft.	Discharge cu. ft.	Rating	Rating Diagram	Altitude	M. No.	12 in. Gauge	Remarks
1	10/4	Waddlesor	1.0	.03	.50	3.33	.02	Float	2	-	12:50P		
2	10/11	"	1.0	.03	.50	3.33	.02	Float	2	-	9:30A		
3	10/18	"	1.0	.03	.60	3.33	.02	Float	2	-	11:10A		
4	10/25	"	1.0	.03	.60	3.34	.02	Float	2	-	11:15A		
5	11/1	"	1.0	.03	.77	3.36	.02	Float	2	-	11:10A		
6	11/8	"	1.0	.05	1.60	3.45	.08	Float	2	0	10:20A		
7	11/15	"	1.4	.16	.88	3.49	.14	6	2	0	10:25A		
8	11/22	"	2.4	.35	1.11	3.50	.39	.6	5	0	11:15A	FC 26	
9	11/29	"	2.5	.46	1.00	3.50	.46	.6	5	0	10:35A		
10	12/6	"	2.5	.49	1.26	3.52	.60	.6	5	0	10:30P		
11	12/13	"	2.4	.51	1.34	3.52	.65	.6	5	0	11:00A		
12	12/20	"	2.5	.47	1.30	3.52	.60	.6	5	0	11:10A		
13	12/27	"	2.5	.54	1.18	3.52	.65	.6	5	0	10:45A		
14	1/3	"	3.0	.66	1.50	3.54	1.00	.6	3	0	10:55A		
15	1/10	"	3.0	.60	1.10	3.52	.65	.6	3	0	10:41A		
16	1/17	"	3.0	.60	1.25	3.51	.75	.6	3	0	10:35A		
17	1/23	"	3.0	.57	1.21	3.50	.70	.6	3	0	10:45A		
18	1/31	"	3.0	.54	1.17	3.51	.65	.6	3	0	11:5P		
19	2/1	Ash	4.0	1.70	1.20		2.0	.6	4	-	11:00A		
20	2/1	"	9.0	4.73	1.26		5.6	.6	6	0	11:55A		
21	2/3	"	6.5	4.82	1.50	4.06	7.2	.6	7	0	11:00A		
22	2/7	"	4.5	1.21	1.61	3.89	2.2	.6	5	0	11:00A		
23	2/15	"	18.5	18.25	2.30	4.56	41	.6	7	0	12:25P		
24	2/17	Ash	20.0	12.07	2.02	4.38	24	.6	8	0	11:5P		
25	2/18	Ash	22.0	15.38	1.62	4.42	28	.6	8	0	12:5P	FC 2	
26	2/19	Waddlesor	14.5	11.17	1.97		22	.6	8	-	11:5P		
27	2/20	"	14.0	10.06	1.81		18	.6	8	-	12:5P		
28	2/23	"	19.0	17.55	2.51		44	.6	8	-	14:0P		
29	2/24	"	12.5	11.27	1.48		17	.6	7	-	11:0P		
30	3/6	"	6.5	4.35	1.48	4.02	6.4	.6	7	0	14:0P	FC 26	
31	3/12	"	6.0	3.53	1.25	3.94	4.4	.6	6	0	11:20A		
32	3/20	"	7.0	2.64	1.19	3.78	3.1	.6	7	0	11:15A		
33	3/27	"	4.6	2.64	.90	3.88	2.4	.6	5	0	12:5P		
34	4/10	"	6.0	8.18	.64	3.96	5.2	.6	7	0	13:5P		
35	4/23	"	5.7	2.15	1.93	3.84	4.2	.6	8	-	14:0P		
36	4/30	"	4.5	1.98	1.12	3.83	2.2	.6	9	-	10:0P	FC 26	
37	5/8	"	4.0	1.27	1.20	3.72	1.5	.6	8	-	15:0P		
38	5/15	"	4.0	1.07	.91	3.70	1.0	.6	7	-	12:2P		
39	5/22	"	4.0	.95	.77	3.68	.75	.6	7	-	13:2P		
40	5/29	"	3.0	.97	.73	3.63	.70	.6	6	-	12:0P		
41	6/5	"	2.5	.71	.87	3.62	.60	.6	5	-	13:5P		
42	6/11	Turner	2.4	.92	.49	3.59	.45	.6	5	-	12:00P	FC 5	
43	6/18	"	1.4	.41	.39	3.54	.16	.6	4	-	12:0P		
44	6/26	Waddlesor	1.0	.16	.63	3.50	.10	.6	2	-	10:05A	FC 26	
45	7/3	"	1.0	.17	.41	3.49	.07	.6	2	-	10:10A		
46	7/9	"	.8	.04	.25	3.45	.01	Float	2	-	2:00P		
47	7/17	"	1.0	.03	.17	3.42	.01	Float	2	-	3:00P		
48	7/24	"	.4	.01	.33	3.40	+	Float	2	-	10:22A		
49	7/31	Waddlesor			3.39	0							
50	8/7	"			3.37	0							
51	8/13				0	0							

F.C.D. Form 104 (10-11-16)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F227R

Daily discharge in second-feet of SAN GABRIEL RIVER-DEVILS CANYON 2 miles above S. G. Dam # 2 for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
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	+	+	+	+	+	+	+	+	+	+	+	+
32	+	+	+	+	+	+	+	+	+	+	+	+
33	+	+	+	+	+	+	+	+	+	+	+	+
34	+	+	+	+	+	+	+	+	+	+	+	+
35	+	+	+	+	+	+	+	+	+	+	+	+
36	+	+	+	+	+	+	+	+	+	+	+	+
37	+	+	+	+	+	+	+	+	+	+	+	+
38	+	+	+	+	+	+	+	+	+	+	+	+
39	+	+	+	+	+	+	+	+	+	+	+	+
40	+	+	+	+	+	+	+	+	+	+	+	+
41	+	+	+	+	+	+	+	+	+	+	+	+
42	+	+	+	+	+	+	+	+	+	+	+	+
43	+	+	+	+	+	+	+	+	+	+	+	+
44	+	+	+	+	+	+	+	+	+	+	+	+
45	+	+	+	+	+	+	+	+	+	+	+	+
46	+	+	+	+	+	+	+	+	+	+	+	+
47	+	+	+	+	+	+	+	+	+	+	+	+
48	+	+	+	+	+	+	+	+	+	+	+	+
49	+	+	+	+	+	+	+	+	+	+	+	+
50	+	+	+	+	+	+	+	+	+	+	+	+
51	+	+	+	+	+	+	+	+	+	+	+	+

F.C.D. Form 104 (10-11-16)

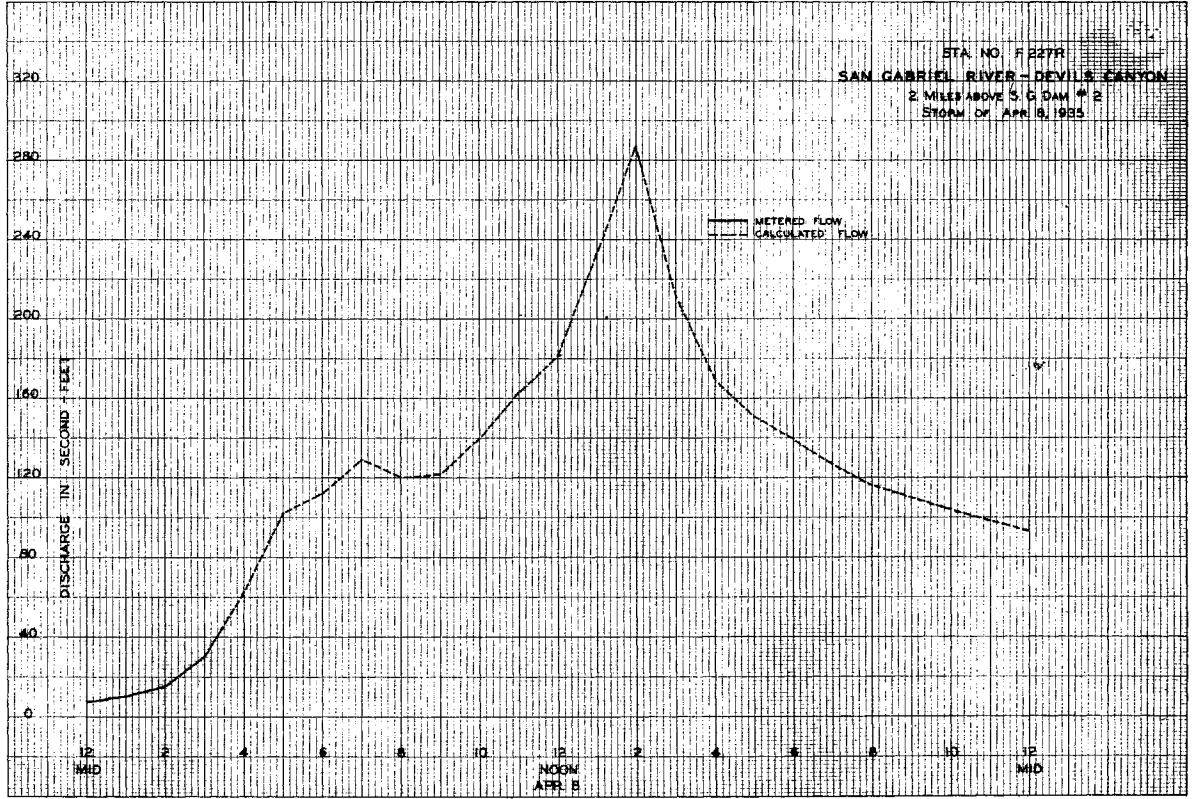
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 227 R

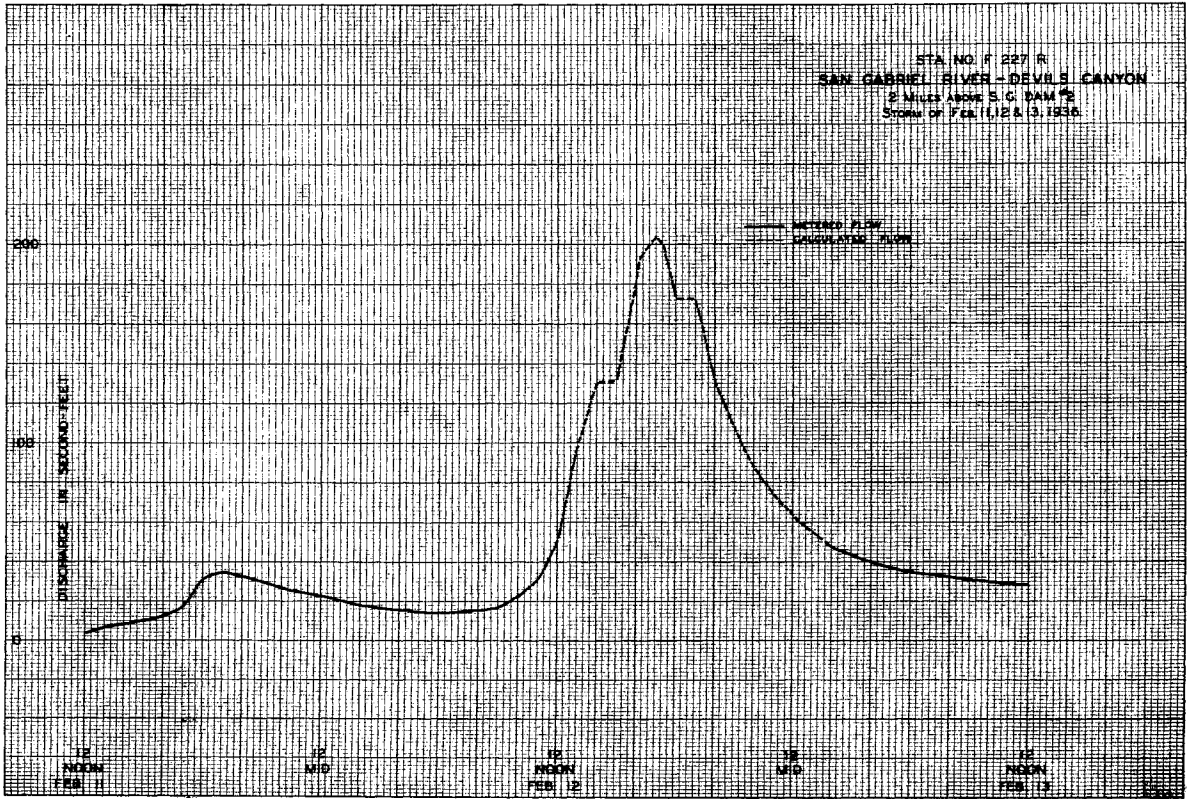
Daily discharge in second-feet of SAN GABRIEL RIVER-DEVILS CANYON 2 miles above S. G. Dam # 2 for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	1.2	4.0	8	6.5	9.6	2.3	1.6	1.1	1.1
2	0	0	0	1.2	3.8	10	6.5	9.6	2.3	1.6	1.1	1.1
3	0	0	0	1.2	3.7	9	6	8.5	1.6	1.6	1.1	1.1
4	0	0	0	1.1	3.4	8	6	7.5	1.2	1.4	1.1	1.1
5	0	0	0	1.1	3.1	7	6	6.5	1.2	1.2	1.1	1.1
6	0	0	0	1.0	2.7	6	6	6.5	1.1	1.4	1.1	1.1
7	0	0	0	1.0	2.4	5	6	6.5	1.1	1.4	1.1	1.1
8	0	0	0	1.0	2.1	4	6	6.5	1.1	1.4	1.1	1.1
9	0	0	0	1.0	1.8	3	6	6.5	1.1	1.4	1.1	1.1
10	0	0	0	1.0	1.5	2	6	6.5	1.1	1.4	1.1	1.1
11	0	0	0	1.0	1.2	1	6	6.5	1.1	1.4	1.1	1.1
12	0	0	0	1.0	1.0	0	6	6.5	1.1	1.4	1.1	1.1
13	0	0	0	1.0	0.8	0	6	6.5	1.1	1.4	1.1	1.1
14	0	0	0	1.0	0.6	0	6	6.5	1.1	1.4	1.1	1.1
15	0	0	0	1.0	0.4	0	6	6.5	1.1	1.4	1.1	1.1
16	0	0	0	1.0	0.2	0	6	6.5	1.1	1.4	1.1	1.1
17	0	0	0	1.0	0.1	0	6	6.5	1.1	1.4	1.1	1.1
18	0	0	0	1.0	0	0	6	6.5	1.1	1.4	1.1	1.1
19	0	0	0	1.0	0	0	6	6.5	1.1	1.4	1.1	1.1
20	0	0	0	1.0	0	0	6	6.5	1.1	1.4	1.1	1.1
21	0	0	0	1.0	0	0	6	6.5	1.1	1.4	1.1	1.1
22	0	0	0	1.0	0	0	6	6.5	1.1	1.4	1.1	1.1
23	0	0	0	1.0	0	0	6	6.5	1.1	1.4	1.1	1.1
24	0	0	0	1.0	0	0	6	6.5	1.1	1.4	1.1	1.1
25	0	0	0	1.0	0	0	6	6.5	1.1	1.4	1.1	1.1
26	0	0	0	1.0	0	0	6	6.5	1.1	1.4	1.1	1.1

GRAPHIC CONTROL LOG, D.S. NO. 100-1000-1
11/13/83



GRAPHIC CONTROL LOG, D.S. NO. 100-1000-1
11/13/83



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 28 R**

Station F28R

SAN GABRIEL RIVER at Edison Intake

Discharge measurements of SAN GABRIEL RIVER

at Edison Intake during the year ending September 30, 19 35

Location

On west bank of stream about 650 feet above the intake to the 30 foot diversion tunnel for San Gabriel Dam No. 1 and about 2400 feet below station F233R San Gabriel River near Roberts Relay Station. The intake to the 30 foot diversion tunnel is about 50 feet below the original location of the intake to the Azusa Conduit (formerly Southern California Edison Co.'s Conduit) Station F28R is at or near the location of a staff gage maintained from 1912 to 1914 by the Pacific Light and Power Corp.

Drainage area

202 square miles

Channel and control

Channel - Gravel and boulders
No artificial control

Discharge measurements

At low flows by wading, about 1400 feet above the station.
At high flows from cable car 4 feet downstream from station.

Recorder

Installed November 6, 1927 in F. C. Standard type concrete house over concrete stilling well.
An continuous recorder.

Regulation

Flow partially regulated by San Gabriel Dam No. 2.

Diversions

Some water diverted for placer mining.

Records available

October 1, 1927 to September 30, 1936
For 1912 to 1914 staff gage record see W.S.P. 447 page 374.

Extremes of discharge

1927-28
Maximum 1830 second-feet February 4
Minimum 2.7 second-feet September 5

1928-29
Maximum 990 second-feet March 10
Minimum 3.5 second-feet August 13

1929-30
Maximum 799 second-feet May 3
Minimum 8.5 second-feet October 14

1930-31
Maximum 2900 second-feet April 26
Minimum 10 second-feet August 21

1931-32
Maximum 9110 second-feet February 9
Minimum 9.5 second-feet October 4

1932-33
Maximum 7550 second-feet January 19
Minimum 7.5 second-feet September 7

1933-34
Maximum 18000 second-feet January 1
Minimum 5 second-feet September 3

1934-35
Maximum 4770 second-feet April 8
Minimum 6 second-feet October 2

1935-36
Maximum estimated 1330 second-feet February 12
Minimum 10 second-feet September 24

Accuracy

Fair
During the 1934-35 water year there were only 12 discharge measurements made at station F28R but there were 463 discharge measurements made at station F233R. During the water year 1935-36 there were no discharge measurements made at station F233R but there were 395 discharge measurements made at station F28R.
In order to determine the mean daily discharges for 1934-35 at station F28R the discharges from the measurements at station F233R were used in conjunction with chart gage heights, allowing time lag, at station F28R.
Similarly, in order to determine the mean daily discharges for 1935-36 at station F233R the discharges from the measurements at station F28R were used in conjunction with chart gage heights, allowing time lag, at station F233R.
Clock stopped: February 12, 1936 for five hours.

Operation

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

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	Mean gage No.	G. H. change Total	Begin gage No.	Meter No.
1	10/11	Patterson and Waddifoor	15.6	9.6	.75	6.34	7.5		.6	9	0	300P 312P 318P	FC 18
2	10/25	"	23.5	23.0	1.64	5.37	38.		.6	12	0	322P 328P 334P	"
3	11/28	Reber-Tscharner	23.5	24.3	1.90	5.45	46.		.6	14	0	344P 350P 356P	"
4	12/2	Reber-Turner	22.0	20.9	1.76	5.34	36.		.6	11	0	368P 374P	FC 23
5	2/7	Turner	73.0	145.	5.27	6.56	766.		.6	8	-01	382P 388P 394P	FC 28
6	2/7	"	73.0	146.8	5.35	6.55	785.		.6	9	-01	406P 412P 418P	"
7	2/7	Turner-Crown	72.0	145.5	4.98	6.50	714.		.6	15	-01	442P 448P 454P	"
8	2/8	Turner	73.0	142.3	4.25	6.42	605.		.6	15	-02	470P 476P 482P	"
9	4/10	G. Patterson	84.	169	4.65	6.05	783.		.6	11	-01	498P 504P 510P	FC 37
10	4/10	"	84.	161	4.44	6.02	716.		.6	8	-01	522P 528P 534P	"
11	4/11	"	85.	151	4.02	5.89	608.		.6	10	-01	546P 552P 558P	"
12	4/12	"	85.	146	3.71	5.80	542.		.6	12	-01	570P 576P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 28 R**

Discharge measurements of SAN GABRIEL RIVER

at Edison Intake during the year ending September 30, 19 36

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	Mean gage No.	G. H. change Total	Begin gage No.	Meter No.
1	10/1	T. A. Cooper	28.3	32.6	1.01	3.55	33.		.6	13	0	650A 709A 735A	FG 29
2	10/2	"	28.3	32.6	1.01	3.55	33.		.6	13	-	755A	"
3	10/3	"	28.3	33.0	1.05	3.57	35.		.6	13	0	750A 811A 817A	FC 30
4	10/4	"	28.3	32.1	1.01	3.55	32.		.6	13	0	814A 814A 806A	FC 29
5	10/5	"	28.3	31.6	.96	3.52	30.		.6	13	-	826A 832A 838P	"
6	10/6	Reber	28.3	30.3	.91	3.48	28.		.6	13	0	842P 848P 854A	FC 12
7	10/7	"	28.3	31.3	.94	3.51	30.		.6	13	0	850A 800A 822A	FC 29
8	10/8	T. A. Cooper	28.3	30.8	.92	3.51	28.		.6	13	-	705A 722A 728A	FC 30
9	10/9	"	28.3	30.8	.92	3.51	28.		.6	13	-	755A 747A 755A	"
10	10/10	"	28.3	30.5	.90	3.49	28.		.6	13	-	815A 815A 815A	FC 29
11	10/11	"	28.3	30.3	.81	3.48	27.		.6	13	-	845A 845A 800P	FC 30
12	10/12	"	28.3	31.1	.93	3.51	29.		.6	13	0	820P 815A 835A	"
13	10/13	Reber	28.3	31.4	.92	3.51	29.		.6	13	0	830A 830A 830A	FC 30
14	10/14	"	28.3	31.8	.93	3.52	30.		.6	13	0	850A 850A 850A	FC 30
15	10/15	Cooper-Reber	28.3	33.1	1.01	3.56	33.		.6	13	0	755A 820A 820A	FC 29
16	10/16	-De Vore	28.3	33.2	.99	3.56	33.		.6	13	0	810A 830A 808A	"
17	10/17	"	28.3	30.7	.90	3.49	27.		.6	13	-	823A 747A 805A	"
18	10/18	"	28.3	29.7	.83	3.45	24.		.6	13	-	830P 830P 830P	"
19	10/19	"	28.3	30.2	.87	3.48	26.		.6	13	-	850P 850P 850P	"
20	10/20	Reber	28.3	30.2	.86	3.48	26.		.6	13	0	737A 737A 737A	FC 29
21	10/21	F. A. Cooper	28.3	31.0	.90	3.50	28.		.6	13	-	820A 820A 820A	"
22	10/22	De Vore-Cooper	28.3	31.4	.89	3.50	28.		.6	13	-	810A 810A 810A	"
23	10/23	"	28.3	30.6	.80	3.48	25.		.6	13	-	820A 810A 840A	"
24	10/24	"	28.3	30.1	.82	3.48	25.		.6	13	-	810A 810A 827A	"

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 28 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 28 R

Discharge measurements of SAN GABRIEL RIVER at Edison Intake during the year ending September 30, 19 36

Discharge measurements of SAN GABRIEL RIVER at Edison Intake during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Weight Feet, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meter No., G. St. (ft. from Top), Begin Meter No., Meter No., No., Date, Made by, Weight Feet, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meter No., G. St. (ft. from Top), Begin Meter No., Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 28 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 28 R

Discharge measurements of SAN GABRIEL RIVER

Discharge measurements of SAN GABRIEL RIVER

at Edison Intake during the year ending September 30, 1936

at Edison Intake during the year ending September 30, 1936

Table with columns: No., Date, Made by, V.C.M. Foot, Area of Section Sq. Ft., Mean Velocity ft. per sec., Stage Height feet, Discharge CFS, Gauge No., Meter No., G. M. Change Feet, Meter No., Meter No. Includes rows 139-192.

Table with columns: No., Date, Made by, V.C.M. Foot, Area of Section Sq. Ft., Mean Velocity ft. per sec., Stage Height feet, Discharge CFS, Gauge No., Meter No., G. M. Change Feet, Meter No., Meter No. Includes rows 193-247.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 28 R

Discharge measurements of SAN GABRIEL RIVER

at Edison Intake during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity Ft. per Sec., Gate Height Feet, Discharge Sec. Ft., Rating Program No., Method, Mean No., G. H. Gauge Trail, Rain End, Meter No. Contains 304 rows of discharge data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 28 R

Discharge measurements of SAN GABRIEL RIVER

at Edison Intake during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity Ft. per Sec., Gate Height Feet, Discharge Sec. Ft., Rating Program No., Method, Mean No., G. H. Gauge Trail, Rain End, Meter No. Contains 304 rows of discharge data.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 28 R**

Discharge measurements of SAN GABRIEL RIVER
at Edison Intake during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Stream Sq. Ft.	Mean Velocity F. per sec.	Stage Height Feet	Discharge Cfs.	Rating Proposed Feet	Method	Meas. No.	G. M. Time Tide	Begin Time	End Time	Meter No.	
361	8/27	Cooper	17.0	14.2	1.00	3.49	14.	.6	9	-	755A			811A	FG 11
362	8/28	De Yore-Brown	17.0	14.2	1.02	3.49	14.	.6	9	0	830A			811A	
363	8/29	De Yore	17.0	14.3	1.01	3.48	14.	.6	9	0	824A			811A	
364	8/30	Reber-Brown	17.0	13.5	0.81	3.43	11.	.6	9	0	314P			825P	
365	8/31	Cooper-Reber	17.0	14.3	0.97	3.46	14.	.6	10	0	822A			837A	
366	9/1	Reber-Brown	17.0	14.2	0.97	3.46	14.	.6	10	0	853A			830A	
367	9/2	Reber-De Yore	17.0	14.4	1.01	3.48	15.	.6	10	+01	842A			830A	FG 11
368	9/3	De Yore	17.0	14.6	1.08	3.51	16.	.6	10	0	922A			953A	
369	9/4	Cooper	17.1	15.0	1.19	3.54	18.	.6	10	-	830A			850A	
370	9/5	"	17.1	15.0	1.22	3.54	18.	.6	10	-	845A			903A	
371	9/6	"	17.0	14.4	1.11	3.52	16.	.6	10	-	820A			880A	
372	9/7	Cooper-Brown	17.0	14.4	1.08	3.49	16.	.6	10	-	843A			856A	
373	9/8	Reber	17.0	14.4	1.02	3.47	15.	.6	10	0	840A			854A	
374	9/9	"	17.0	14.3	0.98	3.47	14.	.6	10	-	855A			889A	
375	9/10	Cooper	17.0	14.0	0.98	3.46	14.	.6	10	-	806A			822A	
376	9/11	"	17.0	14.0	0.99	3.46	14.	.6	10	-	818A			838A	
377	9/12	Cooper-Cooper	17.0	14.1	1.00	3.47	14.	.6	10	-	758A			824A	
378	9/13	Cooper-Brown	17.0	14.3	1.02	3.48	15.	.6	10	-	805A			820A	
379	9/14	Cooper	17.0	14.5	1.08	3.50	16.	.6	10	-	756A			824A	
380	9/15	Reber	17.0	14.8	1.09	3.50	16.	.6	10	0	904A			919A	
381	9/16	Reber	17.0	14.6	1.04	3.48	15.	.6	10	0	819A			834A	
382	9/17	Cooper	17.0	14.2	1.02	3.48	14.	.6	10	-	755A			824A	
383	9/18	Cooper	17.0	14.0	0.98	3.46	14.	.6	10	-	1020A			1038A	
384	9/19	"	17.0	13.9	0.97	3.46	14.	.6	10	-	855A			911A	
385	9/20	-	17.0	14.0	0.98	3.47	14.	.6	10	-	802A			816A	FG 11
386	9/21	Cooper	17.0	13.9	0.99	3.46	14.	.6	10	-	740A			756A	
387	9/22	Reber	17.0	14.4	1.01	3.47	15.	.6	10	0	848A			904A	
388	9/23	"	17.0	14.2	0.96	3.46	14.	.6	10	-	811A			847A	
389	9/24	Cooper-Cooper	17.0	13.6	0.92	3.44	13.	.6	10	-	808A			825A	
390	9/25	Cooper	17.0	13.7	0.90	3.44	12.	.6	10	0	748A			804A	
391	9/26	De Yore-De Yore	17.0	14.0	0.92	3.45	13.	.6	10	0	1141A			1155A	
392	9/27	Reber	17.0	13.5	0.80	3.39	11.	.6	10	0	345P			358P	
393	9/28	"	17.0	14.0	0.93	3.45	13.	.6	10	0	816A			831A	
394	9/29	De Yore	17.0	14.3	0.93	3.45	13.	.6	10	-	850A			904A	
395	9/30	-	17.0	14.2	0.95	3.45	13.	.6	10	0	823A			834A	

F. C. D. Form 104

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F28 R**

Daily discharge in cfs at SAN GABRIEL RIVER at Edison Intake

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	850	820	810	800	780	760	740	720	700	680	660	640
2	850	820	810	800	780	760	740	720	700	680	660	640
3	850	820	810	800	780	760	740	720	700	680	660	640
4	850	820	810	800	780	760	740	720	700	680	660	640
5	850	820	810	800	780	760	740	720	700	680	660	640
6	850	820	810	800	780	760	740	720	700	680	660	640
7	850	820	810	800	780	760	740	720	700	680	660	640
8	850	820	810	800	780	760	740	720	700	680	660	640
9	850	820	810	800	780	760	740	720	700	680	660	640
10	850	820	810	800	780	760	740	720	700	680	660	640
11	850	820	810	800	780	760	740	720	700	680	660	640
12	850	820	810	800	780	760	740	720	700	680	660	640
13	850	820	810	800	780	760	740	720	700	680	660	640
14	850	820	810	800	780	760	740	720	700	680	660	640
15	850	820	810	800	780	760	740	720	700	680	660	640
16	850	820	810	800	780	760	740	720	700	680	660	640
17	850	820	810	800	780	760	740	720	700	680	660	640
18	850	820	810	800	780	760	740	720	700	680	660	640
19	850	820	810	800	780	760	740	720	700	680	660	640
20	850	820	810	800	780	760	740	720	700	680	660	640
21	850	820	810	800	780	760	740	720	700	680	660	640
22	850	820	810	800	780	760	740	720	700	680	660	640
23	850	820	810	800	780	760	740	720	700	680	660	640
24	850	820	810	800	780	760	740	720	700	680	660	640
25	850	820	810	800	780	760	740	720	700	680	660	640
26	850	820	810	800	780	760	740	720	700	680	660	640
27	850	820	810	800	780	760	740	720	700	680	660	640
28	850	820	810	800	780	760	740	720	700	680	660	640
29	850	820	810	800	780	760	740	720	700	680	660	640
30	850	820	810	800	780	760	740	720	700	680	660	640
31	850	820	810	800	780	760	740	720	700	680	660	640

F. C. D. Form 104

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

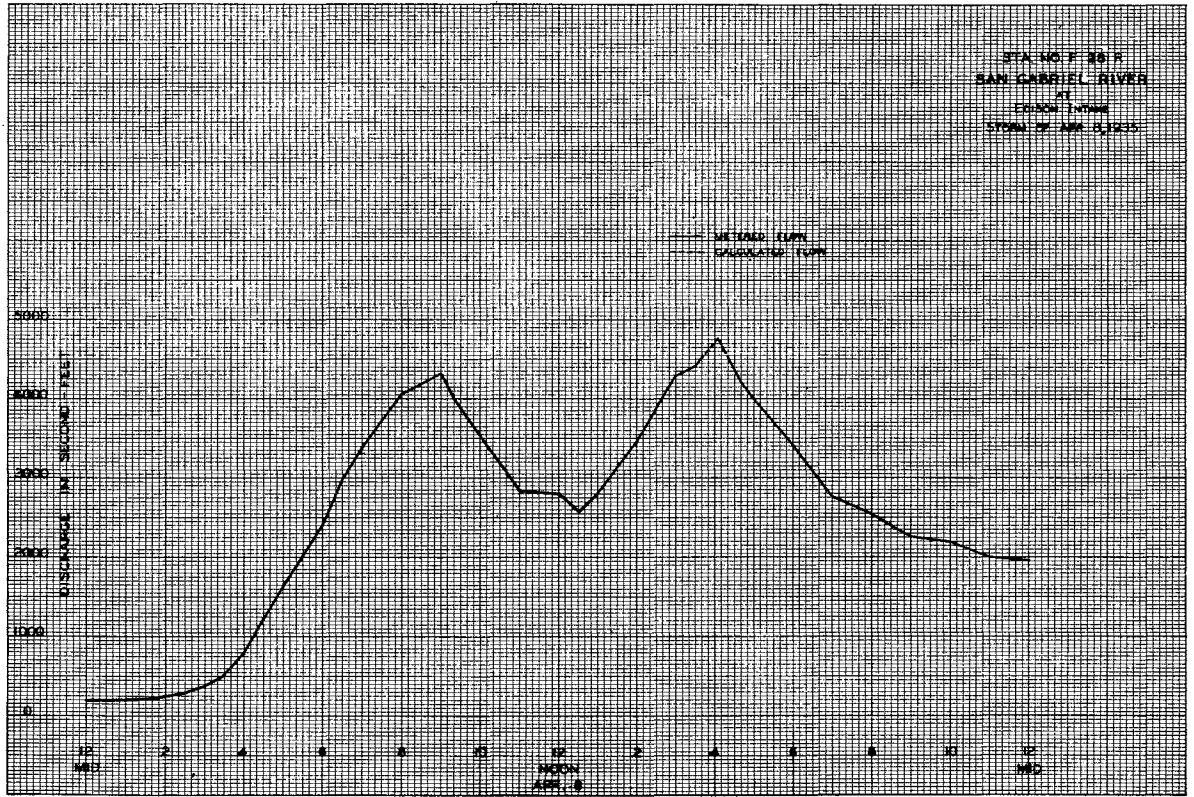
Sta. No. **F 28 R**

Daily discharge in cfs at SAN GABRIEL RIVER at Edison Intake

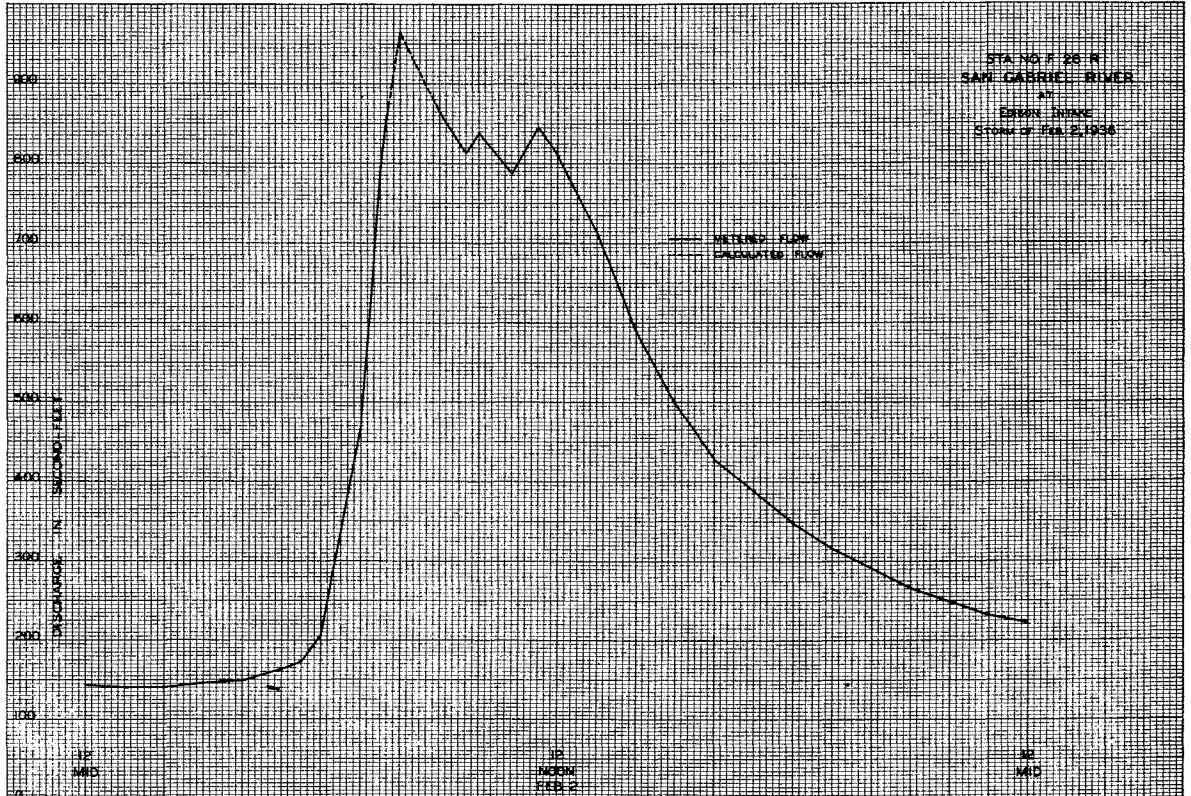
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	850	820	810	800	780	760	740	720	700	680	660	640
2	850	820	810	800	780	760	740	720	700	680	660	640
3	850	820	810	800	780	760	740	720	700	680	660	640
4	850	820	810	800	780	760	740	720	700	680	660	640
5	850	820	810	800	780	760	740	720	700	680	660	640
6	850	820	810	800	780	760	740	720	700	680	660	640
7	850	820	810	800	780	760	740	720	700	680	660	640
8	850	820	810	800	780	760	740	720	700	680	660	640
9	850	820	810	800	780	760	740	720	700	680	660	640
10	850	820	810	800	780	760	740	720	700	680	660	640
11	850	820	810	800	780	760	740	720	700	680	660	640
12	850	820	810	800	780	760	740	720	700	680	660	640
13	850	820	810	800	780	760	740	720	700	680	660	640
14	850	820	810	800	780	760	740	720	700	680	660	640
15	850	820	810	800	780	760	740	720	700	680	660	640
16	850	820	810	800	780	760	740	720	700	680	660	640
17	850	820	810	800	780	760	740	720	700	680	660	640
18	850	820	810	800	780	760	740	720	700	680	660	640
19	850	820	810	800	780	760	740	720	700	680	660	640
20	850	820	810	800	780	760	740	720	700	680	660	640
21	850	820	810	800	780	760	740	720	700	680	660	640
22	850	820	810	800	780	760	740	720	700	680	660	640
23	850	820	810	800	780	760	740	720	700	680	660	640
24	850	820	810	800	780	760	740	720	700	680	660	640
25	850	820	810	800	780	760	740	720	700	680	660	640
26	850	820	810	800	780	760	740	720	700	680	660	640
27	850	820	810	800	780	760	740	720	700	680	660	640
28	850	820	810	800	780	760	740	720	700	680	660	640
29	850	820	810	800	780	760	740	720	700	680	660	640
30	850	820	810	800	780	760	740	720	700	680	660	640
31	850	820	810	800	780	760	740	720	700	680	660	640

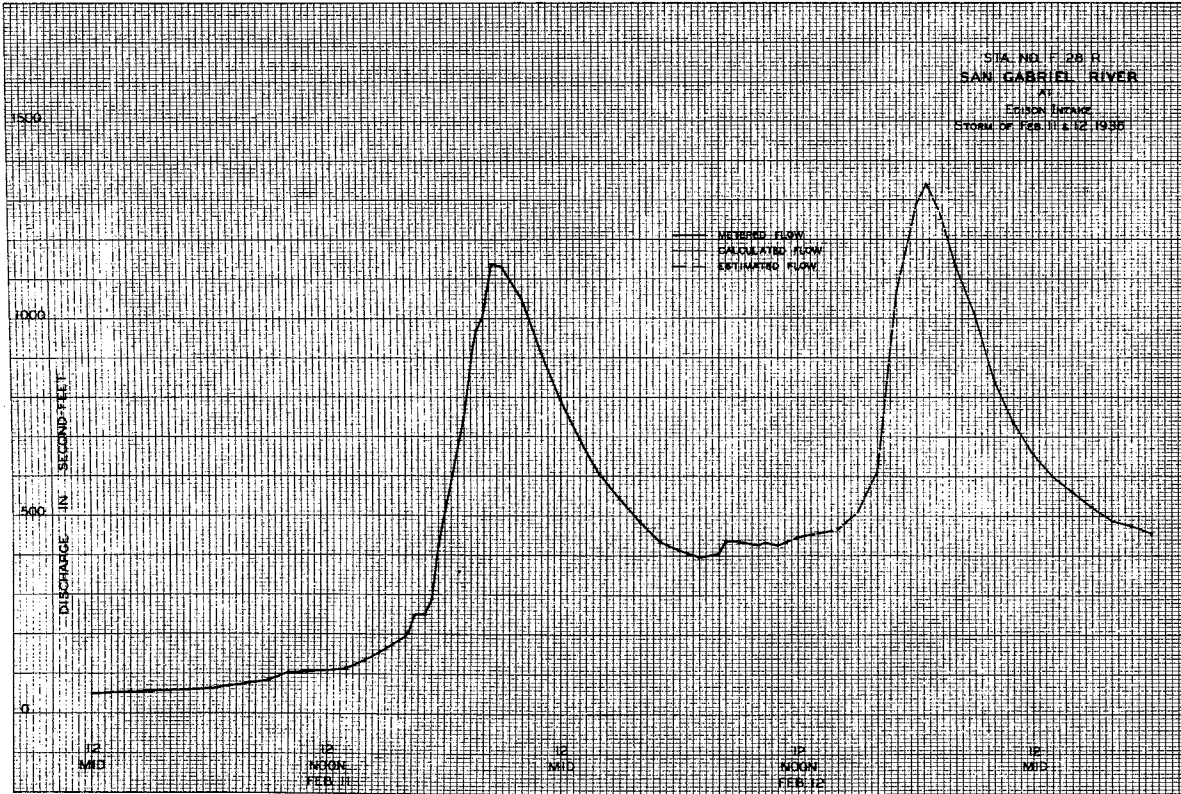
F. C. D. Form 104

REPORT OF THE U.S. GEOLOGICAL SURVEY
WASHINGTON, D. C.



REPORT OF THE U.S. GEOLOGICAL SURVEY
WASHINGTON, D. C.





Station P4R

SAN GABRIEL RIVER - E. FORK 2 miles above Forks

Location

On the north bank of the East Fork of the San Gabriel River above the high water line of San Gabriel Dam No. 1, 2 miles above the Forks, and 8 miles north of Glendora

Drainage area

91.4 square miles

Channel and Control

Channel - sand, gravel and boulders
No artificial control

Discharge measurements

At low flow by wading
At high flow from cable car at gage

Recorder

Installed November 30, 1932 in a 42 inch corrugated iron pipe which serves as both house and stilling well
An continuous recorder

Regulation

None

Diversions

Some water diverted for placer mining

Records available

November 30, 1932 to September 30, 1936

Extremes of discharge

1932-33
Maximum 335 second-feet January 19
Minimum not determined

1933-34
Maximum 8500 second-feet January 1
Minimum 3 second-feet September 30

1934-35
Maximum 1080 second-feet April 8
Minimum 1.5 second-feet October 1

1935-36

Maximum 1290 second-feet February 11
Minimum not determined

Accuracy

Low flows fair.
High flows poor due to shifting control.
Sanded: October 19, 23, 24, 25, 26, 1934

Operation

Moved from a previous location by the District for the Pasadena Water Department.
The station was later taken over and operated by the F. C. District in cooperation with the U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 4 R

Discharge measurements of SAN GABRIEL RIVER - S. FORK

2 miles above Forks during the year ending September 30, 19 25

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent, Method, Mean area No., G. H. (Gage) Date, Meter No. Contains 57 rows of discharge data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 4 R

Discharge measurements of SAN GABRIEL RIVER - S. FORK

2 miles above Forks during the year ending September 30, 19 25

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent, Method, Mean area No., G. H. (Gage) Date, Meter No. Contains 57 rows of discharge data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 4 R

Discharge measurements of SAN GABRIEL RIVER - E. FORK

2 miles above Forks during the year ending September 30, 1955

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 4 R

Discharge measurements of SAN GABRIEL RIVER - E. FORK

2 miles above Forks during the year ending September 30, 1955

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq-ft, Mean Velocity ft. per sec., Stage Height feet, Discharge Sec-ft, Rating Percent diff, Method, Meas. No., G. H. Chaney Total, Discharge, Meter No., No., Date, Made by, Width Feet, Area of Section Sq-ft, Mean Velocity ft. per sec., Stage Height feet, Discharge Sec-ft, Rating Percent diff, Method, Meas. No., G. H. Chaney Total, Discharge, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 4 R

Discharge measurements of SAN GABRIEL RIVER - E. FORK

2 miles above Forks during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean velocity, Open height, Discharge, Rating, Method, Mean slope, G. H. (stage), Rain (in. 24 hrs.), Meter No. Rows 217-229.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 4 R

Discharge measurements of SAN GABRIEL RIVER - E. FORK

2 miles above Forks during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean velocity, Open height, Discharge, Rating, Method, Mean slope, G. H. (stage), Rain (in. 24 hrs.), Meter No. Rows 1-24.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 4 R

Discharge measurements of SAN GABRIEL RIVER - E. FORK

2 miles above Forks during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section, Mean velocity, Open height, Discharge, Rating, Method, Mean slope, G. H. (stage), Rain (in. 24 hrs.), Meter No. Rows 25-81.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. P 4 R

Discharge measurements of SAN GABRIEL RIVER - E. FORK

2 miles above Forks during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Cape Light Sec. ft.	Discharge Sec. ft.	Rating From gage	Method	Mean No.	Q. No. Rating Total	Begin End	Instr. No.
82	4-4	De Vore - De Vore	23.2	28.90	3.54	1.62	102.		.6	12	- .02	807A	
83	4-4	"	23.2	29.89	3.63	1.72	108.		.6	12	- .01	1033A	
84	4-4	"	47.0	98.96	2.75	1.79	107.		.6	12	+ .14	1100A	
85	4-4	De Vore	48.0	99.74	3.10	1.93	123.		.6	13	0	203P	
86	4-5	De Vore - De Vore	23.2	27.57	3.30	1.53	91.		.6	12	0	1026A	
87	4-8	De Vore	20.2	26.05	2.84	1.36	74.		.6	11	0	758A	
88	4-9	"	20.2	26.12	2.97	1.39	78.		.6	14	+ .01	700A	
89	4-10	"	20.2	26.28	2.96	1.38	78.		.6	14	+ .01	1007A	
90	4-17	De Vore - De Vore	20.2	26.32	3.01	1.36	79.		.6	16	0	1045A	FC 29
91	4-23	De Vore	19.7	25.13	2.80	1.28	70.		.6	13	+ .01	813A	FC 32
92	4-25	De Vore - De Vore	19.7	24.56	2.62	1.24	64.		.6	13	0	824A	
93	4-30	"	19.7	23.82	2.56	1.18	60.		.6	13	0	699A	
94	5-7	De Vore	19.6	21.69	2.36	1.08	51.		.6	14	0	701A	
95	5-14	"	19.5	20.47	2.10	1.01	43.		.6	14	0	755A	
96	5-21	"	19.4	19.04	2.04	.96	39.		.6	14	- .01	825A	
97	5-23	De Vore	19.4	18.84	2.01	.94	38.		.6	14	0	705A	FC 32
98	5-28	"	19.3	18.62	1.97	.91	37.		.6	14	0	709A	
99	5-4	"	19.7	17.90	1.90	.90	34.		.6	14	0	734A	
100	5-11	"	19.4	16.38	1.75	.82	29.		.6	14	0	749A	
101	5-18	De Vore - De Vore	19.2	15.47	1.61	.77	25.		.6	14	0	817A	
102	5-20	"	19.2	14.91	1.58	.74	24.		.6	14	+ .01	801A	
103	5-25	De Vore	19.1	14.48	1.53	.71	22.		.6	13	0	828A	
104	7-2	"	19.1	13.43	1.36	.70	18.		.6	13	0	814A	
105	7-9	"	19.1	13.82	1.43	.69	20.		.6	13	0	832A	
106	7-16	"	18.8	12.12	1.32	.63	16.		.6	10	0	640A	
107	7-23	"	18.8	12.16	1.27	.61	15.		.6	10	0	701A	
108	7-30	"	18.7	12.23	1.33	.62	16.		.6	10	0	805A	
109	8-6	"	18.8	11.16	1.13	.58	13.		.6	10	0	825A	
110	8-13	De Vore - De Vore	18.8	11.54	1.24	.60	14.		.6	10	0	925A	
111	8-20	De Vore	18.7	10.84	1.20	.56	13.		.6	10	+ .01	759A	
112	8-27	De Vore - De Vore	18.6	10.54	1.08	.55	11.		.6	10	0	812A	
113	9-3	De Vore	18.7	11.31	1.18	.56	13.		.6	10	0	854A	
114	9-9	Reber	18.1	9.89	.96	.49	9.5		.6	9	0	834A	
115	9-16	"	18.5	10.26	1.00	.51	10.		.6	10	0	517P	FC 33
116	9-24	De Vore	18.6	10.12	.98	.51	9.9		.6	13	0	338P	FC 32

F. C. D. Form 10 11-34

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Station No. P 4 R

for the year ending September 30, 1936

Daily discharge in accordance with SAN GABRIEL RIVER - E. FORK 2 miles above Forks

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Max.	Min.	Acres Feet
1	108	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
2	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117
3	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117
4	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117
5	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117
6	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117
7	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
8	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
9	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
10	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
11	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
12	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
13	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
14	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
15	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
16	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
17	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
18	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
19	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
20	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
21	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
22	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
23	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
24	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
25	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
26	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
27	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
28	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
29	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
30	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
31	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
493	507	507	508	460	4394	2567	2183	1315	791	509	377	318.0				
Max.	15.6	16.9	16.4	14.8	16.9	82.8	72.8	42.4	26.4	16.4	12.2	10.6				
Min.	9.58	10.10	10.10	9.12	9.710	50.90	43.30	26.10	15.70	10.10	7.48	6.31				
Remarks:																
Year																
Max.																
Acres Feet																

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Station No. P 4 R

for the year ending September 30, 1936

Daily discharge in accordance with SAN GABRIEL RIVER - E. FORK 2 miles above Forks

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Sept.	Total	Max.	Min.	Acres Feet
1	4.5	21	20	59	118	100	95	146	146	75	55	55	55	55	55
2	6	20	18	58	118	118	118	146	146	75	55	55	55	55	55
3	6	20	18	58	118	118	118	146	146	75	55	55	55	55	55
4	7	18	20	58	118	118	118	146	146	75	55	55	55	55	55
5	7	18	20	58	118	118	118	146	146	75	55	55	55	55	55
6	11	18	18	146	500	98	98	123	123	75	55	55	55	55	55
7	14	21	18	184	386	98	106	184	184	72	55	55	55	55	55
8	14	21	18	184	386	98	106	184	184	72	55	55	55	55	55
9	10	20	28	112	255	95	654	115	115	70	55	55	55	55	55
10	8	20	28	112	255	95	654	115	115	70	55	55	55	55	55
11	8	20	28	112	255	95	654	115	115	70	55	55	55	55	55
12	8	18	24	170	242	90	264	118	118	70	55	55	55	55	55
13	8	18	24	170	242	90	264	118	118	70	55	55	55	55	55
14	14	17	689	143	196	98	282	118	118	68	47	24	16	24	17
15	14	17	689	143	196	98	282	118	118	68	47	24	16	24	17
16	14	17	689	143	196	98	282	118	118	68	47	24	16	24	17
17	17	17	188	174	186	91	200	100	100	61	40	26	17	26	17
18	17	17	188	174	186	91	200	100	100	61	40	26	17	26	17
19	18	18	188												

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 190 R**

Station F190R

SAN GABRIEL RIVER at Foothill Blvd.

Discharge measurements of **SAN GABRIEL RIVER**

Location

On the downstream end of 1st pier from west end of bridge, about 2 miles west of Azusa.

Drainage area

230 square miles

Channel and control

West side of channel is a concrete wall. Bottom is composed of sand, gravel and boulders. East side of channel is a rock and wire levee. No artificial control

Discharge measurements

At low flow by wading near station
At high flow from cable car 350 feet below the station

Recorder

Installed April 25, 1932 in a F. C. Standard type house over a corrugated iron pipe stilling well. An continuous recorder.

Regulation

Flow partially regulated by San Gabriel Dam No. 2 and Morris Dam. San Gabriel Dam No. 1 was under construction but the 30 foot by-pass tunnel was open at all times, therefore, no regulation resulted.

Diversions

Water diverted for irrigation and spreading near mouth of San Gabriel Canyon.

Records available

Stream measurements starting February 22, 1932.
Recorder records April 25, 1932 to September 30, 1936.

Extremes of discharge

1931-32
Maximum not determined
Minimum no flow during part of year
1932-33
Maximum 10,000 second-feet January 19
Minimum no flow most of year
1933-34
Maximum 5,550 second-feet January 1
Minimum no flow most of year
1934-35
Maximum 1080 second-feet August 8
Minimum no flow at various times during year
1935-36
Maximum 572 second-feet February 2
Minimum no flow on several days

Accuracy

Poor at high flows.
Fair at low flows.
Clock stopped; December 28, 31, 1934; January 15-17, August 1-19, December 20-26, 1935; January 3-16, February 13, 1936.

Operation

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

at **Foothill Blvd.** during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating Point Diff.	Method	Mean gage No.	G. H. (above T.S.)	Stage No.	Water Sta.
14	12/20	Lindsay-Koch	33.9	34.3	2.04	5.97	70.			.6	11	-	885A
15	12/20	Koch	34.9	34.3	1.94	5.97	67.			.6	10	0	909A
16	12/20	"	34.9	34.3	1.92	5.97	67.			.6	10	0	945A
17	12/20	Koch - Cole	36.9	36.3	2.22	6.02	92.			.6	11	0	1100A
18	12/21	Koch	36.9	36.3	2.24	6.04	86.			.6	12	0	1180A
19	12/21	"	36.9	37.4	2.12	6.02	82.			.6	12	-0.02	1200A
20	12/26	Lindsay - Koch	44.0	38.3	2.62	6.29	190.			.6	15	0	1300A
21	12/26	"	48.0	38.7	2.75	6.29	192.			.6	15	-	1400A
22	12/27	Koch	44.8	34.3	2.41	6.29	192.			.6	10	0	1500A
23	12/27	"	48.0	34.7	2.54	6.29	192.			.6	14	0	1600A
24	1/2	Lindsay	39.0	44.9	2.92	6.12	131.			.6	11	0	1700A
25	1/5	Cole - Hofmann	39.5	37.47	2.64	6.11	112.			.6	11	-0.04	1800A
26	1/5	Anderson - Linden	32.0	36.58	2.44	6.02	94.			.6	12	-0.01	1900A
27	1/5	"	49.0	35.02	2.22	6.01	83.			.6	14	-0.01	2000A
28	1/5	"	32.2	44.42	2.22	6.02	112.			.6	11	-0.04	2100A
29	1/9	"	39.5	31.22	1.60	5.75	24.			.6	8	0	2200A
30	1/11	Lindsay	38.0	36.1	2.29	5.97	25.			.6	10	0	2300A
31	1/15	Cole - Hofmann	35.4	30.1	2.22	6.91	67.			.6	12	-0.05	2400A
32	1/15	Anderson - Linden	36.6	26.9	2.09		56.			.6	14	-0.10	2500A
33	1/15	"	31.6	24.07	1.75	5.81	42.			.6	11	0	2600A
34	1/17	Lindsay	35.0	30.8	2.45	5.95	74.			.6	11	0	2700A
35	1/19	Cole - O.D.Hofmann	31.0	31.4	1.65	5.75	25.			.6	8	-	2800A
36	1/22	Lindsay	39.0	40.4	3.06	6.12	125.			.6	11	+0.02	2900A
37	1/21	"	41.1	39.7	2.21	6.22	140.			.6	11	-0.02	3000A
38	2/5	Anderson - Linden	34.5	31.8	2.21	6.27	122.			.6	12	-0.01	3100A
39	2/5	Cole	42.8	31.21	2.12	6.22	145.			.6	10	-0.10	3200A
40	2/5	Anderson - Linden	35.8	32.5	2.66	6.02	112.			.6	12	-0.04	3300A
41	2/5	"	34.9	29.5	2.05	5.82	60.			.6	9	0	3400A
42	2/5	"	38.5	28.5	2.64	6.00	101.			.6	15	-0.01	3500A
43	2/5	Anderson - Linden	33.5	28.92	2.22	6.00	102.			.6	15	0	3600A
44	2/5	"	35.5	30.7	2.12	5.90	65.			.6	11	0	3700A
45	2/5	"	35.8	31.2	1.92	5.90	62.			.6	11	0	3800A
46	2/5	Cole	34.2	31.5	1.92	5.89	61.			.6	10	0	3900A
47	2/5	Anderson - Linden	34.9	28.92	2.02	5.82	59.			.6	12	0	4000A
48	2/9	Lindsay - Cole	35.0	30.4	2.27	6.24	86.			.6	9	-	4100A
49	2/9	Lindsay - Cole	32.0	29.0	4.70	6.25	474.			.6	7	-	4200A
50	2/14	"	34.0	34.8	2.21	6.42	272.			.6	12	0	4300A
50A	2/19	Hofmann - Meredith	34.0	31.0	2.21	6.22	222.			.6	15	0	4400A
50B	2/19	Hofmann	34.0	28.7	2.79	6.24	219.			.6	12	-	4500A
51	2/27	Lindsay	36.0	38.1	2.92	6.42	269.			.6	15	0	4600A
52	2/28	Anderson - Linden	34.7	35.6	2.04	6.02	109.			.6	17	0	4700A
53	2/28	"	35.0	35.8	2.19	6.02	112.			.6	15	+0.01	4800A
54	2/28	"	34.8	35.5	2.09	6.04	112.			.6	16	+0.01	4900A
55	2/28	Lindsay	34.0	39.9	2.44	6.02	146.			.6	12	-0.06	5000A
56	2/7	Cole	34.0	31.1	2.44	6.22	174.			.6	15	0	5100A
57	2/12	Lindsay	34.0	32.4	2.72	6.22	204.			.6	11	0	5200A
58	2/12	Hofmann	37.0	30.1	2.01	6.22	271.			.6	15	0	5300A
59	2/12	"	37.0	29.2	2.04	6.22	271.			.6	15	0	5400A
60	2/21	Lindsay	35.0	30.0	2.46	6.24	212.			.6	12	-0.02	5500A
61	2/21	"	35.0	12.8	1.84	5.22	24.			.6	9	0	5600A
62	2/27	"	34.0	30.2	2.10	6.41	249.			.6	11	+0.01	5700A
63	2/27	"	36.9	29.5	1.82	5.22	74.			.6	11	0	5800A
64	2/27	Linden - Jungren	37.0	34.5	2.27	6.44	402.			.6	17	-0.02	5900A
65	2/10	Lindsay	36.4	30.9	1.22	5.70	29.			.6	12	0	6000A
66	2/12	"	35.0	28.2	2.75	6.22	257.			.6	12	0	6100A
67	2/12	"	35.0	24.5	2.75	6.22	257.			.6	12	0	6200A
68	2/12	Brumwater	35.0	24.5	2.75	6.22	254.			.6	12	0	6300A

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 190 R**

Discharge measurements of **SAN GABRIEL RIVER**

at **Foothill Blvd.** during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating Point Diff.	Method	Mean gage No.	G. H. (above T.S.)	Stage No.	Water Sta.
1	10/17	Cole - Hofmann	15.0	12.2	.90	5.41	12.			.6	4	+0.01	812P
2	10/17	"	22.0	22.1	1.22	5.22	22.			.6	6	-0.02	822P
3	10/18	Anderson-Linden	6.6	2.11	.32	5.07	.20			.6	4	-	832P
4	10/22	Lindsay	31.0	22.4	1.62	5.62	41.			.6	11	0	842P
5	10/22	Cole - Hofmann	22.5	22.5	1.22	5.22	21.			.6	7	-	852P
6	12/12	"	20.0	7.22	1.27	5.22	11.			.6	7	+0.02	862P
7	12/14	Anderson-Linden	35.0	41.2	2.72	6.10	112.			.6	11	-0.02	872P
8	12/14	"	35.0	22.2	1.24	5.22	47.			.6	11	+0.02	882P
9	12/18	Cole - Hofmann	12.0	7.22	1.20	5.20	11.			.6	6	0	892P
10	12/18	Lindsay - Koch	31.2	22.2	1.22	5.20	52.			.6	10	0	902P
11	12/18	"	32.2	22.7	1.17	5.22	71.			.6	11	+0.01	912P
12	12/19	"	34.9	22.2	2.22	6.00	21.			.6	11	0	922P
13	12/19	"	32.9	24.2	2.02	5.22	69.			.6	11	-	932P

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 190 R

Discharge measurements of SAN GABRIEL RIVER

at Foothill Blvd. during the year ending September 30, 1955

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq.-ft., Mean velocity ft. per sec., Cte. height feet, Discharge Sec.-ft., Rating Percent, Method, Meas. No., G. H. change Total, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 190 R

Discharge measurements of SAN GABRIEL RIVER

at Foothill Blvd. during the year ending September 30, 1956

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq.-ft., Mean velocity ft. per sec., Cte. height feet, Discharge Sec.-ft., Rating Percent, Method, Meas. No., G. H. change Total, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

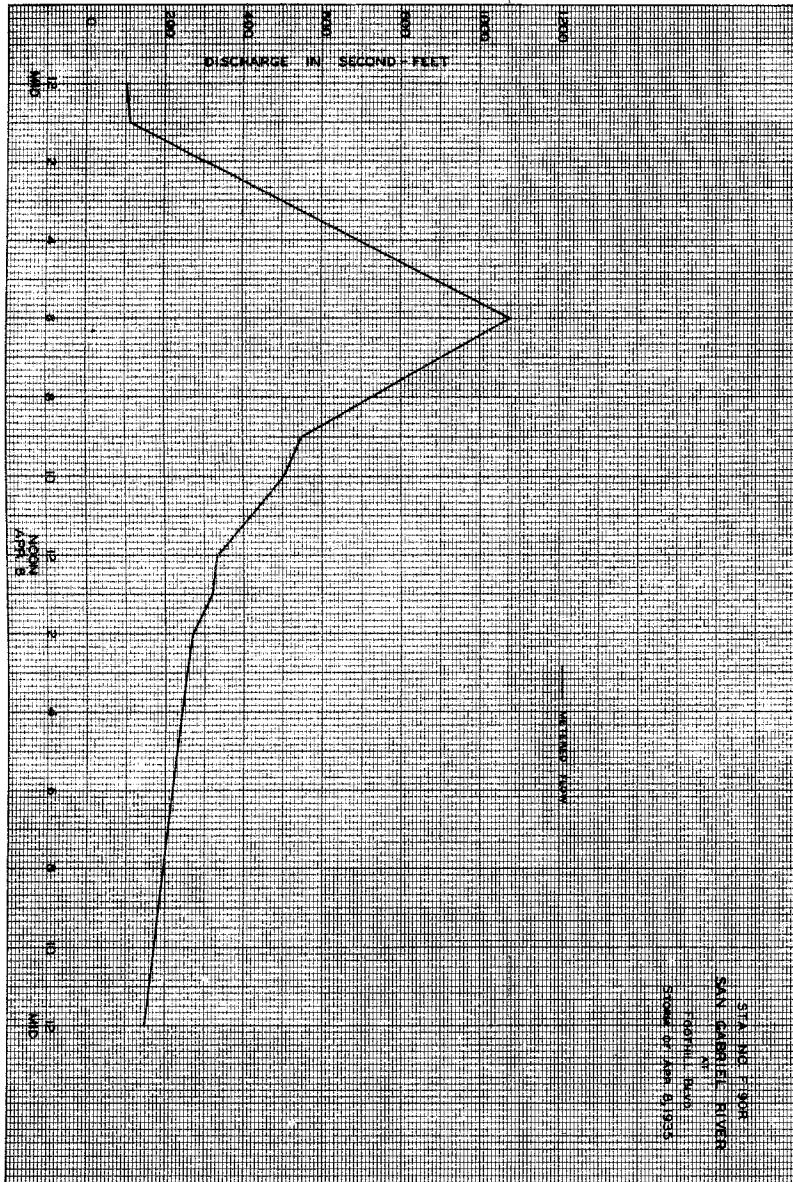
Station No. F 190 R

Discharge measurements of SAN GABRIEL RIVER

at Foothill Blvd. during the year ending September 30, 1956

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq.-ft., Mean velocity ft. per sec., Cte. height feet, Discharge Sec.-ft., Rating Percent, Method, Meas. No., G. H. change Total, Begin End, Meter No.

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DISCHARGE IN SECOND- FEET

STATION NO. 190R
SAN GABRIEL RIVER
AT FOOTHILL BLVD.
SUMMER OF 1935

F. C. Dist. Form 23

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 190 R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Foothill Blvd. for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1	0	0	0	142	184	209	67	187	10	2.4	.6	6.5	
2	0	0	0	129	194	198	70	194	8	2.4	.6	2.6	
3	0	0	0	105	202	132	73	162	4.0	2.2	.6	1.4	
4	0	0	0	84	172	87	70	176	3.6	3.6	.6	.8	
5	0	0	0	52	152	194	55	194	2.5	7.0	.6	0	
6	0	0	0	52	65	152	57	202	2.6	6.5	.5	0	
7	0	0	0	44	59	170	65	224	3.9	5.3	.5	1.6	
8	0	0	0	90	145	152	400	244	5.8	.1	.6	4.0	
9	0	0	0	24	496	175	112	244	5.4	.5	.5	1.2	
10	0	0	0	42	442	194	48	240	3.2	.1	.4	0	
11	0	0	0	90	592	194	57	240	3.1	+	.4	0	
12	0	0	0	105	545	194	259	240	2.6	0	.4	0	
13	0	0	0	100	500	215	446	236	1.8	0	.4	0	
14	0	0	0	85	97	227	220	402	232	2.0	1.8	.4	0
15	0	0	0	12	50	244	222	278	236	1.9	.9	.4	0
16	0	0	0	34	50	209	247	260	244	1.5	0	.4	0
17	8.5	0	45	79	202	244	289	259	1.5	0	.1	.1	
18	5	0	59	129	217	255	308	247	1.4	+	.2	0	
19	1.8	0	75	87	274	275	291	185	1.0	+	.2	0	
20	22	0	87	149	240	204	291	20	1.2	0	.4	0	
21	42	0	87	122	240	232	232	232	1.3	1.2	.4	0	
22	42	0	90	129	281	271	271	11	1.2	1.2	.6	2.0	
23	31	0	142	119	267	317	210	12	5.8	.4	0	.5	
24	56	0	156	116	267	189	241	10	2.7	.3	+	0	
25	8	0	142	122	271	61	274	8	11	.2	2.9	0	
26	0	0	127	129	275	74	275	81	11	.4	1.4	0	
27	0	0	194	145	287	223	275	11	105	.2	.4	0	
28	0	0	64	145	271	258	275	9.5	2.9	2.6	.4	2.2	
29	0	0	124	149	284	216	284	8.5	1.8	.8	.7	3.6	
30	0	0	128	159	222	250	11	3.6	.4	1.8	.4	0	
31	0	0	137	170	67	67	11	11	3.6	4	1.8	0	
MEAN	6.56	0	64.8	104.	245.	202.	223	128	9.23	1.22	.60	.86	
ACR- FEET	591	0	3980.	6570.	12600.	12400.	13300.	8460.	555.	78.	26.	51.	

Remarks: + indicates discharge 0.05 sec. ft. or less.

YEAR MEAN 81.7
ACR-FEET 59220.

F. C. Dist. Form 23 IC 1134

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F190R

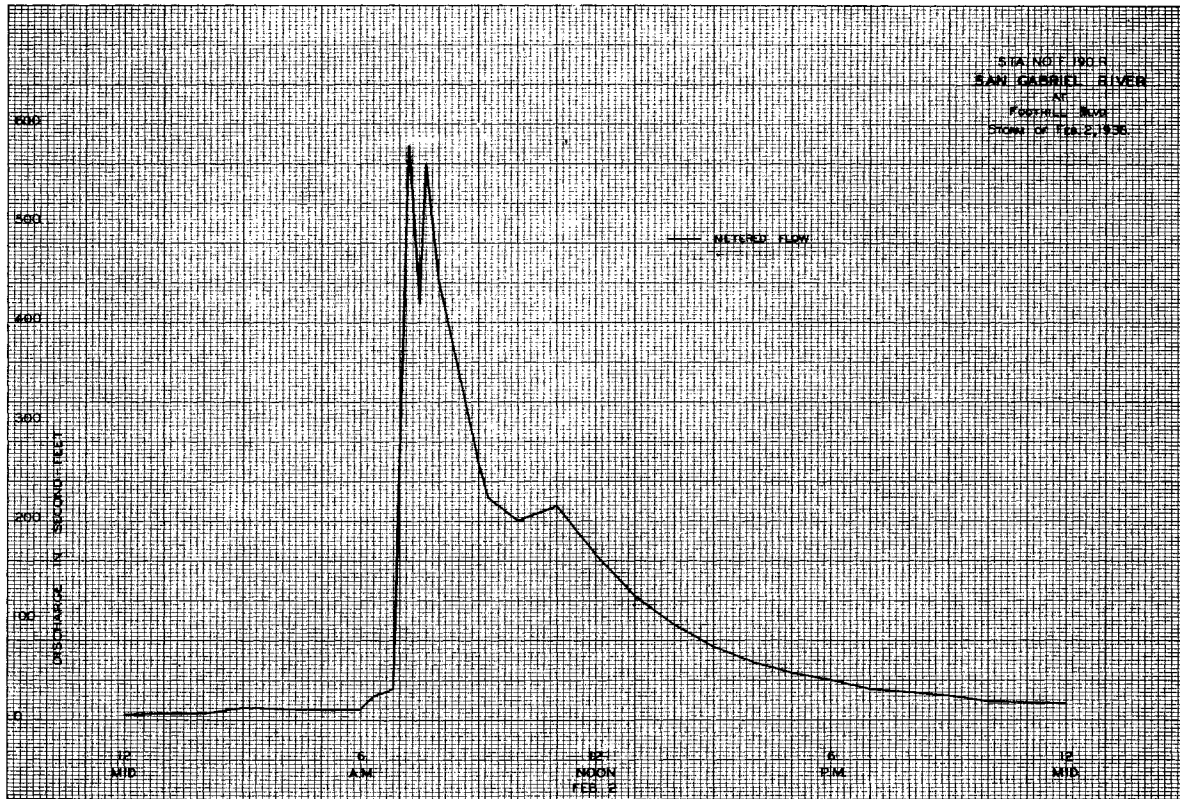
Daily discharge, in second-feet of SAN GABRIEL RIVER at Foothill Blvd. for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.7	2.0	7	80	52	202	5.5	2.4	0.3	0
2	0	2.0	0.3	1.2	92	74	72	21	5.5	4.6	0.5	0
3	+	1.7	0.9	0.7	3.8	90	127	22	6	4.6	0.3	0
4	2.4	1.5	0.7	0.7	2.6	90	169	27	5.5	3.5	0.4	0
5	0	0.9	1.8	0.7	2.0	86	119	16	6.5	3.8	+	0
6	1.7	0.2	2.0	0.6	1.8	99	82	13	4.3	2.2	+	0
7	0.8	0.2	2.0	0.6	1.5	110	128	13	4.0	2.4	4.3	0
8	0.7	0.4	1.0	0.5	1.5	122	152	17	3.5	2.2	0.2	0
9	0	2.2	0.8	0.6	6.6	122	122	11	2.5	2.2	0	0
10	0	1.8	1.1	0.6	91	113	123	9.5	2.2	2.0	0	0
11	0.2	1.8	1.1	0.6	81	104	131	8	2.4	2.0	0	0
12	0.8	1.7	1.4	0.6	66	137	125	7.5	5.5	1.1	0	0
13	1.4	1.4	2.2	0.6	82	140	125	7	1.7	0.5	0	0
14	0.8	0.7	0.8	0.7	89	137	128	11	1.2	0.3	0	0
15	0.2	2.4	0.8	0.6	42	134	80	11	0.8	0.5	0	0
16	0.5	1.5	1.2	0.6	62	143	128	6	0.8	0.5	0	0
17	0	0.8	0.7	0.5	20	167	123	5.5	2.2	0.8	0	0
18	1.9	0.8	1.3	0.5	20	122	23	5.5	2.0	0.8	0	0
19	0.8	0.8	0.7	0.4	17	116	19	4.9	3.5	0.5	0	+
20	1.3	0.3	1.1	0.5	18	122	17	5.5	1.8	0.4	0	0
21	1.9	0.3	0.8	0.5	70	165	16	5.5	1.9	0.4	0	0
22	1.7	0.1	0.8	0.8	38	131	15	7	1.7	0.4	0	0
23	1.0	0.2	0.7	0.7	33	140	15	4.5	3.3	0.4	0	0
24	1.0	0.3	1.5	0.8	38	134	14	4.6	3.3	0.5	0	0
25	0.4	1.1	0.8	0.5	46	128	16	4.6	3.0	0.6	0	0
26	0.4	0.4	0.9	0.6	80	119	24	3.8	2.6	0.6	0	0
27	0.1	0.2	2.2	0.7	80	119	24	4.6	2.8	0.6	0	0
28	1.0	0.4	1.1	1.1	1.1	131	23	5.5	2.5	0.5	0	0
29	1.0	0.2	2.0	1.1	1.1	71	23	5.5	2.5	0.4	+	0
30	2.1	0.2	2.0	1.1	1.1	71	23	5.5	2.5	0.4	+	0
31	2.7	0.2	2.0	1.1	1.1	71	23	5.5	2.5	0.4	+	0
MEAN	0.83	1.05	1.28	0.73	38.9	117	78.4	10.6	3.51	1.77	0.23	+
ACR- FEET	51	62	79	45	2240	7170	4670	652	209	109	14	+

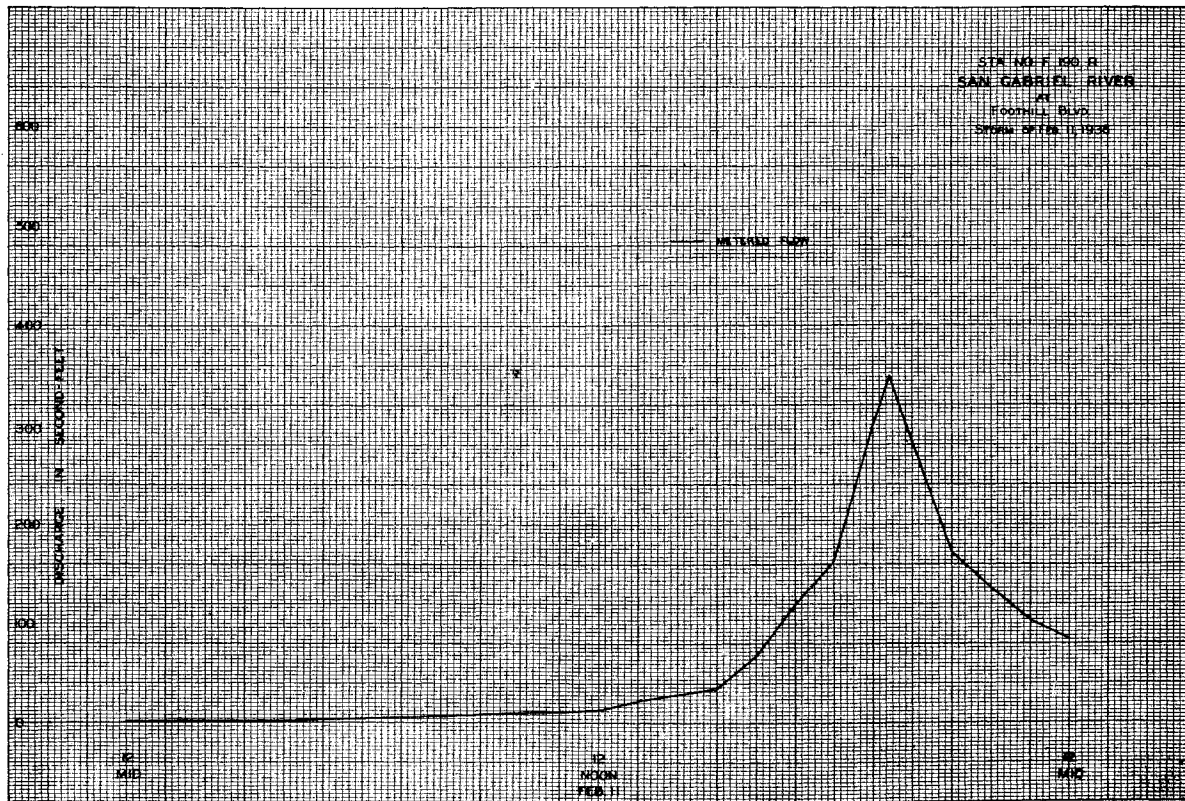
Remarks: + indicates discharge 0.05 second-feet or less.

YEAR MEAN 21.1
ACR-FEET 15300.

STATION NO. 100-R
SAN GABRIEL RIVER
AT
FOOTHILL BLVD
STORM OF FEB. 2, 1936



STATION NO. 100-R
SAN GABRIEL RIVER
AT
FOOTHILL BLVD
STORM OF FEB. 1, 1936



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. P 6 R

Station P6R

SAN GABRIEL RIVER 1500 ft. below Morris Dam

Discharge measurements of SAN GABRIEL RIVER

XX XXX 1500 ft. below Morris Dam during the year ending September 30, 19 36

This is a recorder station constructed and operated by the Pasadena Water Department who retain all records with the exception of the few discharge measurements made by the Los Angeles County Flood Control District.

No.	Date	Made by	Wash. Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Cross length feet	Discharge Sec.-ft.	Rating Percent Off	Method	Meter No.	G. H. Change Feet	Stage Feet	Meter No.
8	10-24	Lindsay	26.0	27.83	1.47	2.06	41				.6	9	500P FG 21
9	10-31	Cooper	11.3	7.01	.86	1.87	6.0				.6	8	220P FG 29
10	10-31	Reber	11.6	7.34	.68	1.87	5.0				.6	12	225P FG 12
11	11-7	Cooper	2.7	1.32	.89	1.67	1.2				.6	6	1030A FG 32
12	11-14	"	2.7	1.59	1.15	1.71	1.8				.6	6	1132A FG 29
13	11-21	"	2.7	1.52	1.03	1.65	1.6				.6	6	1042A FG 11
14	11-27	F. A. Cooper - V. Cooper	2.7	1.41	1.01	1.58	1.4				.6	6	442P FG 11
15	12-5	F. A. Cooper	2.7	1.31	.69	1.52	.90				.6	6	202P FG 11
16	12-12	"	2.7	1.24	.63	1.46	.80				.6	6	1214P FG 11
17	12-19	F. A. Cooper - V. Cooper	2.7	1.01	.48	1.11	.49				.6	6	1046A FG 11
18	12-26	F. A. Cooper	2.7	.92	.42	.86	.39				.6	6	1202P FG 11
19	1-2	Reber	2.7	.88	.41	.86	.36				.6	6	358P FG 33
20	1-9	Cooper	2.7	.89	.38	.62	.34				.6	6	1244P FG 11
21	1-16	Reber	2.7	.98	.64		.65				.6	6	1135A FG 33
22	1-23	Cooper	2.7	.89	.49		.44				.6	6	123P FG 11
23	1-30	Reber	2.6	.87	.40		.35				.6	6	230P FG 33
24	2-6	Cooper	2.5	.91	.33	.96	.30				.6	5	500P FG 11
25	2-20	F. A. Cooper - V. Cooper	33.5	51.48	1.83	2.80	94				.6	11	120P FG 29
26	2-27	Reber	33.5	52.07	2.00	2.88	104				.6	11	0
27	3-5	F. A. Cooper - V. Cooper	72.4	65.92	2.60	3.32	172				.6	20	110P FG 33
28	3-12	Reber - Cooper	38.3	59.91	2.36	3.18	141				.6	20	150P FG 11
29	3-12	Cooper - Reber	38.3	59.37	2.40	3.18	143				.6	20	230P FG 11
30	3-13	Reber - De Vore	38.3	62.31	2.47	3.26	153				.6	20	313P FG 11
31	3-13	"	38.4	61.96	2.49	3.26	154				.6	20	446P FG 11
32	3-14	De Vore - Reber	55.5	70.10	2.63	3.40	185				.6	17	412P FG 11
33	3-18	Cooper - Reber	87.0	80.45	2.88	3.65	232				.6	26	220P FG 11
34	3-18	"	88.0	90.82	3.12	3.82	283				.6	31	355P FG 11
35	3-19	"	88.0	102.9	3.75	4.14	386				.6	37	437P FG 11
36	3-19	Reber - Cooper	88.0	89.26	3.17	3.86	255				.6	37	1130A FG 11
37	3-26	Cooper - De Vore	38.0	55.53	2.88	3.49	189				.6	20	1123A FG 11
38	4-2	"	38.0	55.43	2.42	3.13	134				.6	20	1214P FG 11
39	4-7	Reber - Richards	62.0	53.30	2.20	3.05	117				.6	18	123P FG 33
40	4-9	"	82.5	70.88	2.59	3.47	184				.6	26	1257P FG 11
41	4-16	Cooper - Richards	75.0	70.26	2.68	3.45	189				.6	32	342P FG 11
42	4-24	F. A. Cooper - V. Cooper	34.5	37.67	1.21	2.13	46				.6	15	1152A FG 11
43	4-30	Reber - Cooper	38.5	51.44	1.80	2.77	93				.6	16	1250P FG 33
44	5-7	Reber	29.0	22.74	.53	1.99	12				.6	11	840A FG 11
45	5-14	Cooper - Reber	5.2	1.74	.22	1.80	.38				.6	8	1115A FG 11
46	5-21	Reber - Cooper	5.2	2.20	.62	1.92	1.4				.6	9	1126A FG 11
47	5-28	F. A. Cooper - V. Cooper	5.2	2.09	.70	1.89	1.5				.6	8	330P FG 11
48	6-4	Reber	5.2	1.96	.77	1.91	1.5				.6	8	409P FG 11
49	6-10	Reber	3.0	.85	.72	1.81	.60				.6	9	418P FG 33
50	6-18	F. A. Cooper - V. Cooper	3.1	.69	.71	1.78	.49				.6	5	400P FG 11
51	6-25	F. A. Cooper	3.2	.78	.86	1.78	.65				.6	5	410P FG 11
52	7-2	"	3.3	.85	.94	1.80	.80				.6	5	230P FG 11
53	7-9	Reber	3.3	.87	.97	1.80	.85				.6	6	240P FG 33
54	7-16	"	3.2	.82	.95	1.78	.80				.6	6	1227P FG 33
55	7-22	F. A. Cooper - V. Cooper	3.0	.64	.95	1.72	.60				.6	5	1230P FG 11
56	7-30	F. A. Cooper - G. Brown	3.1	.66	.88	1.67	.60				.6	5	1058A FG 11
57	8-6	"	3.0	.63	.84	1.66	.55				.6	5	545P FG 11
58	8-13	Cooper - De Vore	3.1	.73	.81	1.67	.60				.6	5	555P FG 11
59	8-20	Cooper - Brown	3.3	.81	.85	1.67	.70				.6	6	1122A FG 11
60	8-27	Cooper - De Vore	3.2	.85	.91	1.67	.75				.6	6	1130A FG 11
61	9-3	Cooper	3.2	.87	.91	1.67	.80				.6	6	1127A FG 29
62	9-9	"	3.2	.80	.76	1.61	.60				.6	6	245P FG 11
63	9-17	"	3.1	.79	.85	1.58	.65				.6	6	435P FG 11
64	9-25	"	3.2	.76	.74	1.54	.55				.6	6	1050A FG 11

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. P 6 R

Discharge measurements of SAN GABRIEL RIVER

XX XXX 1600 ft. below Morris Dam during the year ending September 30, 19 36

No.	Date	Made by	Wash. Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Cross length feet	Discharge Sec.-ft.	Rating Percent Off	Method	Meter No.	G. H. Change Feet	Stage Feet	Meter No.
1	2/18	Patterson-Beling	92.0	87.86	3.00	3.90	265.				.6	17	0
2	5/22	" - Tscharner	59.0	47.00	1.97	2.72	95.				.6	18	0
3	4/6	"	89.5	88.60	0.79	2.06	28.				.6	12	0
4	5/25	Turner	35.5	48.80	1.69	2.56	85.				.6	11	0
5	5/29	"	36.5	45.90	1.49	2.44	68.				.6	18	0
6	6/7	"	89.0	51.60	.95	2.10	50.				.6	10	0
7	6/14	Patterson	25.5	22.40	.98	2.09	22.				.6	11	0
8	6/22	"	25.0	18.82	.70	2.04	15.				.6	11	0
9	6/28	Turner	5.3	4.72	.55	1.97	2.6				.6	7	0
10	8/20	Cooper	-	-	-	-	0				-	-	0
11	9/5	"	-	-	-	-	0				-	-	0
12	9/12	"	-	-	-	-	0				-	-	0
13	9/19	"	-	-	-	-	0				-	-	0

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. P 6 R

Discharge measurements of SAN GABRIEL RIVER 1500 ft.

XX XXX below Morris Dam during the year ending September 30, 19 36

No.	Date	Made by	Wash. Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Cross length feet	Discharge Sec.-ft.	Rating Percent Off	Method	Meter No.	G. H. Change Feet	Stage Feet	Meter No.
1	10-4	F. A. Cooper					0						1200P
2	10-9	"					0						640P
3	10-11	Lindsay	25.5	27.11	1.40	2.06	38				.6	9	0
4	10-14	"	26.0	28.63	1.50	2.10	43				.6	9	0
5	10-17	Reber - De Vore	30.5	36.67	1.01	2.06	37				.6	12	0
6	10-17	Lindsay	25.5	27.86	1.48	2.06	41				.6	9	0
7	10-24	Reber	30.5	35.60	1.05	2.06	37				.6	13	0

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 98 R**

Station **F98R**
SAN GABRIEL RIVER - NORTH FORK

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

_____ during the year ending September 30, 19**35**

Location

On east bank of North Fork of the San Gabriel River, .7 mile above the mouth, and approximately 15 miles north of Azusa

Drainage area

18.8 square miles.

Channel and control

Sand, gravel, rock and boulders
Control - Rubble concrete installed in October 1931.

Discharge measurements

At low flow by wading near gage.
At high flow from cable car 20 feet above the recorder house.

Recorder

Installed September 30, 1929 in a F. C. Standard type house over a corrugated iron pipe stilling well.
An continuous recorder.

Regulation

None

Diversions

None

Records available

September 30, 1929 to September 30, 1936.

Extremes of discharge

1929-30

Maximum 18 second-feet May 3
Minimum 1.6 second-feet at various times during year.

1930-31

Maximum 16 second-feet April 26
Minimum 1.6 second-feet September 30

1931-32

Maximum 22.3 second-feet February 8
Minimum 2.8 second-feet October 1-6

1932-33

Maximum 126 second-feet January 19
Minimum 1.4 second-feet at various times during year

1933-34

Maximum 276 second-feet January 1
Minimum .8 second-foot August 28

1934-35

Maximum 111 second-feet April 8
Minimum .8 second-foot October 1

1935-36

Maximum 85 second-feet February 2
Minimum .8 second-foot September 7

Accuracy

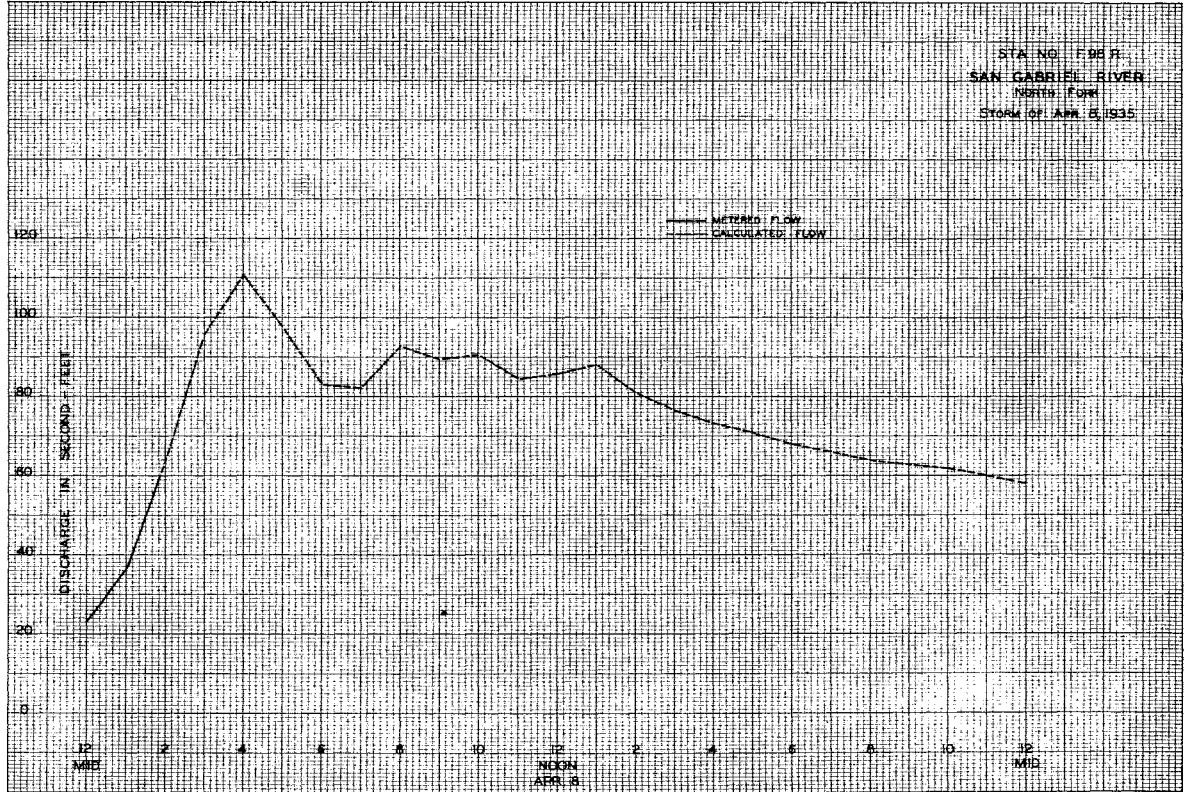
Good.

Operation

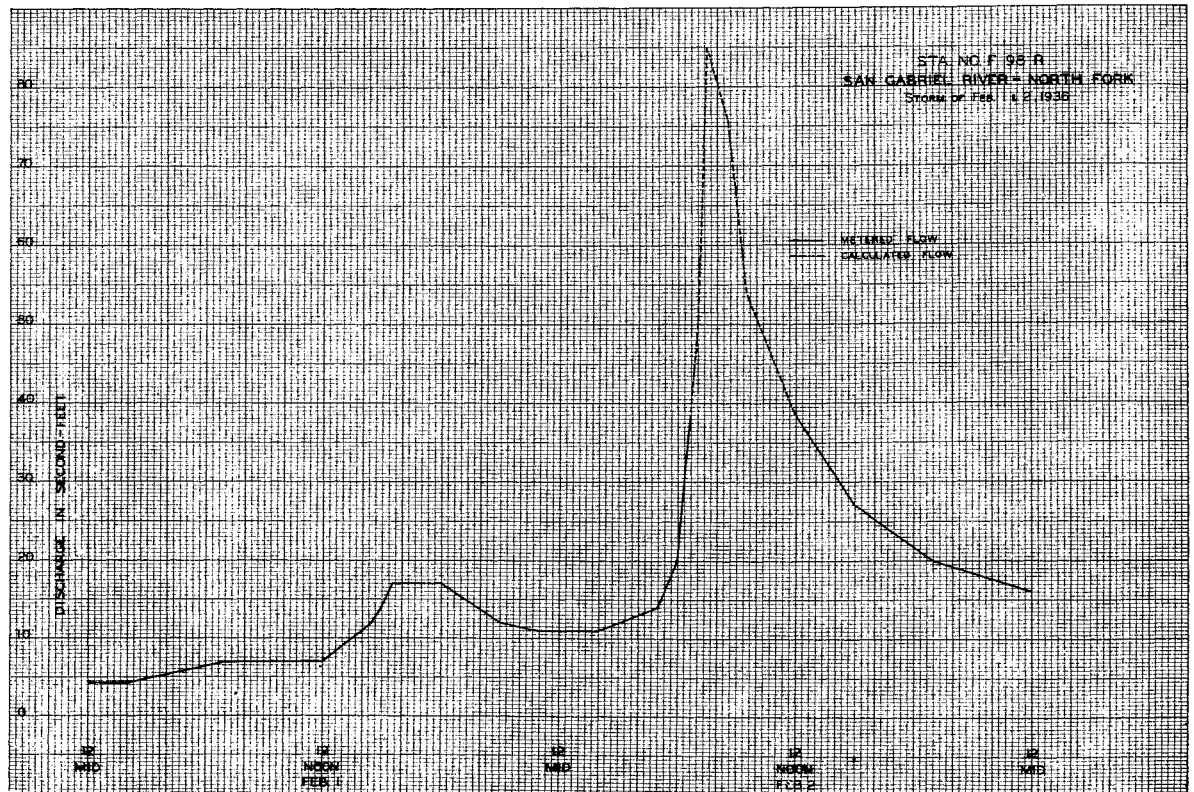
Located, constructed and operated by the Los Angeles County Flood Control District in cooperation with U.S.G.S. Water Resources Branch.

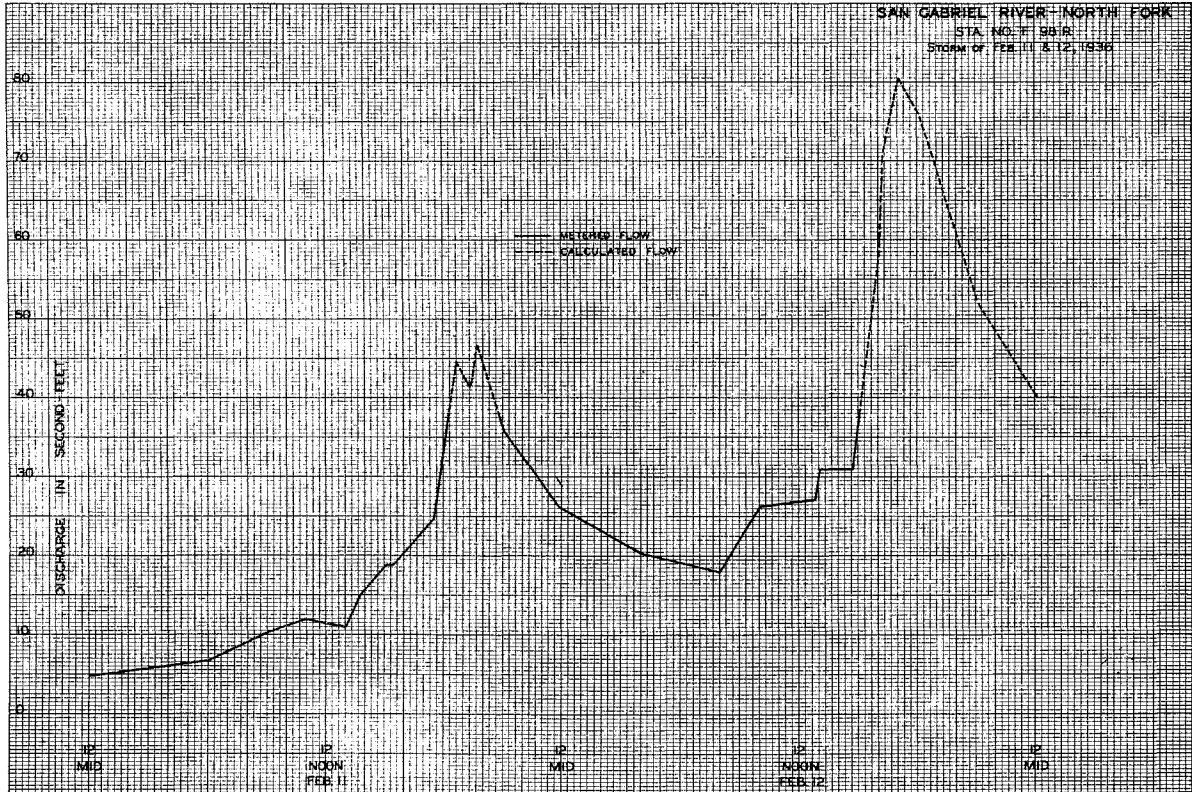
No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity Ft. per sec.	Gage height Feet	Discharge Sec.-ft.	Rated Capacity CFS	Method	Max. Stage, Ft.	C. H. Class. Total	Stage in Inches	Water No.
1	1934 10/1	Waddicor	4.2	.98	.89	4.11	.85			.6	8	0	312P
2	10/10	"	4.0	1.1	.84	4.12	.90			.6	7	0	322P
3	10/18	Turner	11.8	7.22	1.21	4.31	9.4			.6	9	0	330P
4	10/19	"	12.3	8.80	1.05	4.26	6.1			.6	9	0	340P
5	10/24	Waddicor	10.2	4.80	.69	4.18	2.9			.6	7	0	350P
6	11/2	Turner-Tscharner	11.0	4.99	.64	4.22	3.2			.6	8	0	360P
7	11/14	Crown - Turner	11.0	4.5	.55	4.21	2.4			.6	8	0	370P
8	11/18	Reber - Turner	11.0	5.2	.78	4.26	4.1			.6	8	0	380P
9	12/4	Turner-Tscharner	11.3	5.0	.57	4.18	2.9			.6	8	0	390P
10	12/9	Turner - Reber	11.5	5.63	.54	4.18	3.0			.6	8	0	400P
11	11/18	Turner - Banta	12.5	8.9	.98	4.27	8.7			.6	8	0	410P
12	11/14	Turner	12.5	19.2	2.27	4.28	52.			.6	8	0	420P
13	11/18	Turner-Van Osdell	12.5	12.6	1.64	4.46	20.			.6	8	0	430P
14	12/28 1935	Turner	11.6	7.6	1.1	4.28	8.4			.6	9	0	440P
15	1/5	"	11.2	6.37	.91	4.23	5.8			.6	8	0	450P
16	1/5	"	13.8	11.7	1.94	4.50	25.			.6	9	0	460P
17	1/11	"	12.6	9.64	1.66	4.41	16.			.6	8	0	470P
18	1/15	"	13.5	9.7	2.21	4.47	21.			.6	9	0	480P
19	1/19	"	12.5	8.4	1.80	4.27	15.			.6	9	0	490P
20	1/25	"	12.2	7.7	1.50	4.28	12.			.6	9	0	500P
21	2/1	"	12.0	7.32	1.44	4.32	11.			.6	9	0	510P
22	2/4	"	12.4	8.1	1.67	4.36	14.			.6	9	0	520P
23	2/5	"	12.0	15.3	2.64	4.70	40.			.6	10	-	530P
24	2/19 1935	Reber - Boling	13.0	9.74	1.72	4.45	17.			.6	8	0	540P
25	2/22	Patterson - Boling	12.0	8.63	1.71	4.40	15.			.6	9	0	550P
26	2/22	Reber - Boling	12.5	9.38	1.72	4.42	16.			.6	8	0	560P
27	2/12	Tscharner-Patterson	12.0	9.0	1.66	4.42	15.			.6	10	0	570P
28	2/21	Patterson	12.4	9.5	1.60	4.41	15.			.6	10	0	580P
29	2/26	Tscharner-Boling	12.0	9.8	1.60	4.42	15.			.6	11	0	590P
30	3/29	" - Reber	12.5	9.4	1.40	4.41	15.			.6	11	0	600P
31	4/2	" - Boling	14.0	9.2	1.41	4.40	15.			.6	12	0	610P
32	4/17	Turner - Boling	14.5	10.8	2.32	4.52	25.			.6	10	0	620P
33	5/1	Turner	14.3	10.2	2.24	4.49	23.			.6	10	0	630P
34	5/14	"	14.2	8.9	1.92	4.44	18.			.6	8	0	640P
35	5/22	"	14.1	8.8	1.84	4.40	16.			.6	9	0	650P
36	6/24	"	13.5	6.65	1.40	4.30	9.5			.6	9	0	660P
37	7/7	"	13.1	6.34	1.34	4.22	8.5			.6	9	0	670P
38	7/22	" - Reber	12.9	5.97	1.27	4.24	7.7			.6	8	0	680P
39	7/24	Cooper	12.2	5.04	1.22	4.22	7.5			.6	10	0	690P
40	8/11	Turner	12.8	5.37	1.17	4.22	6.5			.6	8	0	700P
41	9/5	Reber	12.0	5.63	.92	4.12	5.4			.6	10	0	710P
42	9/12	Cooper	12.2	5.92	0.92	4.12	5.5			.6	9	0	720P
43	9/26	" - Reber	10.7	4.65	1.02	4.19	4.8			.6	9	0	730P

HYDRAULIC ENGINEERING CO., INC. 3801 15TH ST. S.F. CALIF.



HYDRAULIC ENGINEERING CO., INC. 3801 15TH ST. S.F. CALIF.





Station F233R

SAN GABRIEL RIVER near Roberts Relay Station

<p>Location</p> <p>On the east bank of the San Gabriel River about 3050 feet above the intake to the 30 foot diversion tunnel for San Gabriel Dam No. 1 and about 2400 feet above station F28R San Gabriel River at Edison Intake.</p> <p>Drainage area</p> <p>201 square miles</p> <p>Channel and control</p> <p>Channel - sand, gravel and boulders. A bulldozer was used in the channel 5 times during the 1934-35 water year in order to maintain communication. During the storms of February 1 and 2, 1936 a gravel bar was deposited leaving the nearest side of the stream 70 feet from the recorder house. From this time until April 21, 1936 the only communication, except at high flows, was by percolation through this gravel bar. On April 21, 1936, in connection with road work 300 feet above the station, the stream was diverted back to the channel against the recorder house. No artificial control.</p> <p>Discharge measurements</p> <p>At low flow by wading near station. At high flow from cable car, at station.</p> <p>Recorder</p> <p>Installed February 8, 1934 in a 36 inch corrugated iron pipe which serves as both house and stilling well. An continuous recorder.</p> <p>Regulation</p> <p>Flow partially regulated by San Gabriel Dam No. 2.</p> <p>Diversions</p> <p>Some water diverted for placer mining.</p> <p>Records available</p> <p>February 8, 1934 to September 30, 1936</p>	<p>Extremes of discharge</p> <p>1934-35 Maximum 4850 second-feet April 8 Minimum 7. second-feet October 2</p> <p>1935-36 Maximum 1530 second-feet February 12 Minimum 11 second-feet August 30</p> <p>Accuracy</p> <p>Fair most of time; poor at times. During the 1934-35 water year only 12 discharge measurements were made at station F28R but there were 463 discharge measurements made at station F233R. During the 1935-36 water year there were no discharge measurements made at station F233R but there were 395 discharge measurements made at station F28R. In order to determine the mean daily discharges for 1934-35 at station F28R the discharges from the measurements at station F233R were used in conjunction with chart gage heights, allowing time lag. Similarly, in order to determine the mean daily discharges for 1935-36 at station F233R the discharges from the measurements at station F28R were used. Estimated by using data from station F28R: October 1-3, 1934; January 5, February 5, April 3, 4, 10, 11, May 2-4, 1935. Estimated: February 17, 18, 20, April 18-20, June 26, September 20, 21, 24, 25, 1935. Inlet obstructed: February 11-13, 23-25, 1936. Communication, except at high flows, through a 70 foot gravel bar from February 2, 1936 to April 21, 1936.</p> <p>Operation</p> <p>Located, constructed, and operated by the Los Angeles County Flood Control District.</p>
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LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F233R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F233R

Discharge measurements of SAN GABRIEL RIVER

Discharge measurements of SAN GABRIEL RIVER

Roberts Relay Station during the year ending September 30, 1935

Roberts Relay Station during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area, Mean velocity, Gauge height, Discharge, Rating, Method, Meter No., No., Date, Made by, Width, Area, Mean velocity, Gauge height, Discharge, Rating, Method, Meter No., No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 233 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F233R

Discharge measurements of SAN GABRIEL RIVER

Discharge measurements of SAN GABRIEL RIVER

near Roberts Relay Station during the year ending September 30, 19 35

near Roberts Relay Station during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq.-ft., Mean velocity ft. per sec., Stage Height feet, Discharge Sec.-ft., Rating Factor diff., Method, Meter No., G. H. change Total, Discharge gpm, Meter No. Rows 115-167.

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq.-ft., Mean velocity ft. per sec., Stage Height feet, Discharge Sec.-ft., Rating Factor diff., Method, Meter No., G. H. change Total, Discharge gpm, Meter No. Rows 168-225.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 855 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 855 R

Discharge measurements of SAN GABRIEL RIVER

Discharge measurements of SAN GABRIEL RIVER

near Roberts Relay Station during the year ending September 30, 1955

near Roberts Relay Station during the year ending September 30, 1955

Table with columns for No., Date, Made by, Width, Area of Section, Mean Velocity, Gate Height, Discharge, Rating, Method, Mean Area, G. H. above Total, DRAIN, Meter No., No., Date, Made by, Width, Area of Section, Mean Velocity, Gate Height, Discharge, Rating, Method, Mean Area, G. H. above Total, DRAIN, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 833 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 833 R

Discharge measurements of SAN GABRIEL RIVER

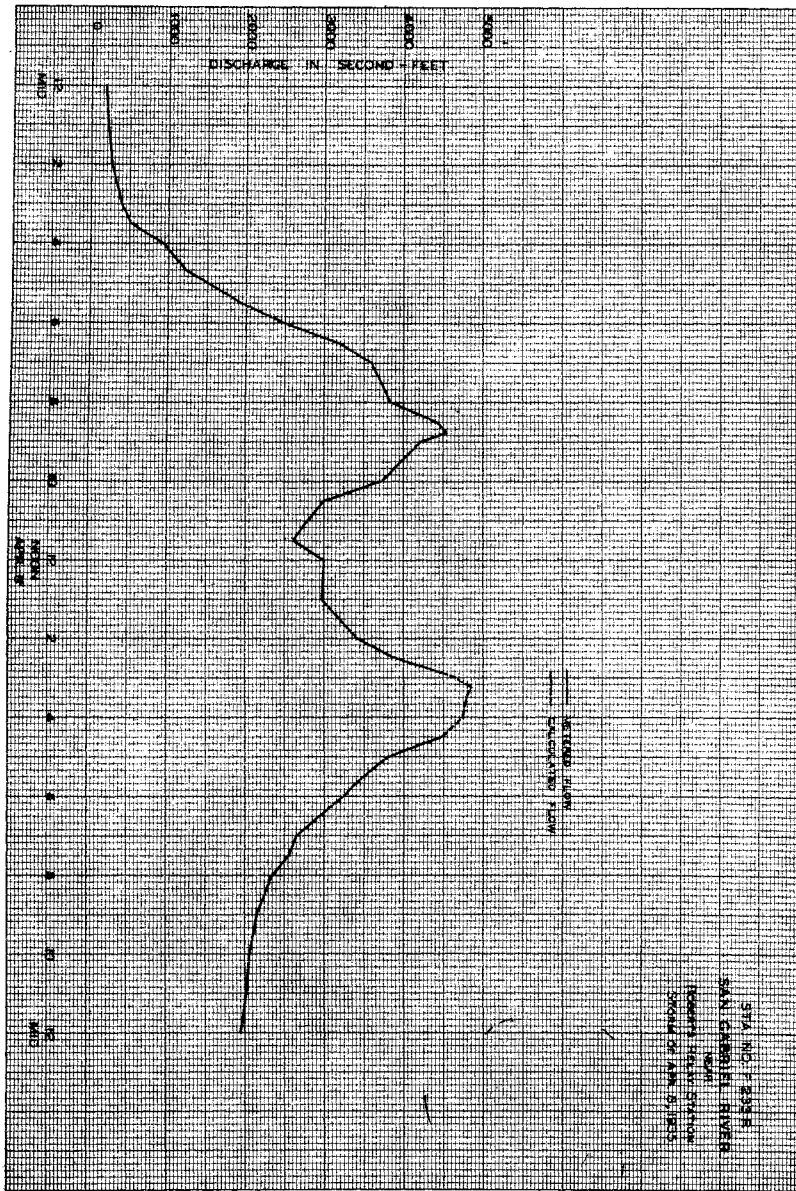
Discharge measurements of SAN GABRIEL RIVER

at Roberts Relay Station during the year ending September 30, 1955

at Roberts Relay Station during the year ending September 30, 1955

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq-ft, Mean velocity ft per sec, Gate height feet, Discharge Sec-ft, Rating Percent, Method, Mean size No., G. H. change Total, Begin time, Meter No., No., Date, Made by, Width Feet, Area of Section Sq-ft, Mean velocity ft per sec, Gate height feet, Discharge Sec-ft, Rating Percent, Method, Mean size No., G. H. change Total, Begin time, Meter No.

COOPER & BROWN, INC., N. Y. NO. 300-011
 P. O. Box 100, N. Y.



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F. C. Dist. Form 31

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. F 232 R

Daily discharge, in second-feet of SAN GABRIEL RIVER near Roberts Relay Station for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	35	35	114	202	197	175	279	147	89	55	37
2	7.5	35	35	110	202	246	171	279	159	92	55	36
3	7.5	31	35	106	191	232	174	258	155	86	51	34
4	8.5	29	35	132	278	211	174	227	132	84	51	34
5	8	28	32	1040	1490	206	171	227	130	84	50	34
6	9.5	27	25	259	1190	194	168	250	129	82	48	34
7	10	27	25	245	815	221	169	220	128	82	46	37
8	9.5	26	49	222	705	226	226	228	128	78	45	34
9	8	26	55	422	570	214	1800	225	122	76	46	34
10	8	25	47	521	526	197	222	250	119	78	45	32
11	8.5	25	45	410	428	127	208	222	115	74	45	34
12	8.5	26	51	261	480	127	258	216	111	74	45	30
13	8.5	27	786	214	399	195	507	210	111	74	45	28
14	9	26	1800	246	222	202	477	202	110	72	42	34
15	10	27	727	566	268	200	450	206	110	70	45	30
16	11	50	265	415	320	192	429	202	110	72	45	28
17	267	26	276	526	506	120	412	126	112	70	45	28
18	670	62	222	222	222	122	222	122	102	72	45	28
19	248	65	188	545	277	125	216	172	92	70	40	30
20	102	27	170	222	222	122	207	122	92	62	22	20
21	66	55	125	222	222	122	222	122	92	62	22	20
22	60	49	140	222	222	122	222	122	92	64	26	20
23	22	45	122	247	222	122	222	122	92	64	24	20
24	46	45	122	247	222	122	222	122	92	62	24	20
25	29	41	116	222	222	122	222	122	92	64	24	20
26	27	29	104	222	217	122	222	122	82	62	45	22
27	25	29	104	222	202	122	222	122	82	60	50	22
28	25	27	120	222	206	122	222	122	82	59	45	22
29	25	26	148	211	175	122	222	122	82	55	42	27
30	21	25	120	211	175	122	222	122	82	55	42	27
31	21	22	122	205	175	122	222	122	82	55	37	20
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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 191 R

Station F191R

SAN GABRIEL RIVER at San Bernardino Blvd.

Discharge measurements of SAN GABRIEL RIVER

at San Bernardino Blvd. during the year ending September 30, 1935

Location

On the downstream end of 1st pier from west end of bridge, about 1 mile east of El Monte. San Bernardino Blvd. was formerly known as El Monte Blvd.

Drainage area

A natural split near Arrow Highway divides the San Gabriel River into two branches; the west branch, known as the Rio Hondo, flows into the Los Angeles River; the east branch retains the name San Gabriel River. The San Gabriel River drainage area above the split is 230 square miles; the San Gabriel River drainage area from the split to station F191R is 6.4 square miles.

Channel and control

Channel composed of sand and gravel. The flow at the recorder house is usually in several channels. No artificial control.

Discharge measurements

At low flow by wading near station. At high flow from the upstream side of San Bernardino Boulevard bridge.

Recorder

Installed March 31, 1932 in a F. C. Standard type house over a corrugated iron pipe stilling well. An recorder.

Regulation

Flow partially regulated by San Gabriel Dam No. 2 and Morris Dam. San Gabriel Dam No. 1 was under construction but the 30 foot by-pass tunnel was open at all times, therefore, no regulation resulted.

Diversions

Water diverted for irrigation and spreading at mouth of canyon.

Records available

Stream measurements from February 22, 1932 to March 31, 1932. Recorder records from April 1, 1932 to September 30, 1936.

Extremes of discharge

1931-32
Maximum not determined
Minimum no flow most of year
1932-33
Maximum 949 second-feet January 19
Minimum no flow most of year
1933-34
Maximum 796 second-feet January 1
Minimum no flow most of year

Accuracy

Due to there being a gage height record on only one of several channels, it was impossible to determine a satisfactory stage-discharge relation, therefore, the record is not being published.

Operation

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 191 R

Discharge measurements of SAN GABRIEL RIVER

at San Bernardino Blvd. during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating	Method	Mean stage feet	G. H. (Gage) Total	Begin Time	Meter No.
1	10/18/34	Cole - Hofmann	3.0	.30	.63	-	.19					950A 955A 100P	FC 11
2	10/22	Lindsay	15.0	4.41	1.21	2.78	5.4					110P	FC 21
3	10/24	Cole - Hofmann	8.6	2.93	1.03	2.66	2.8					240P 245P 250P	FC 11
4	12/13	"	8.0	2.51	1.90	2.72	4.8					840P	FC 28
5	12/14	"	17.0	6.77	2.23	2.82	15.					1155A 1205P	FC 28
6	12/15	"	7.0	1.65	1.55	2.58	2.6					310P 315P 320P	"
7	12/16	Bonadiman-Merideth	14.0	5.40	1.84	2.80	9.9					1240P	FC 27
8	12/16	Brewster	16.	8.52	2.05	2.78	27.					1250P 102P	FC 8
9	12/16	Brewster-Merideth	15.5	7.32	1.49	2.78	11.					215P 220P	FC 27
10	12/19	Bonadiman-Merideth	18.5	8.70	1.95	2.77	17.					1105A 1112A	"
11	12/19	Brewster	16.	8.36	2.31	2.75	19.					1155A 1205P 1227P	FC 8
12	12/19	Bonadiman-Merideth	17.5	8.29	1.89	2.76	16.					+0.01 1235P 347P	FC 27
13	12/19	"	16.0	7.39	1.78	2.75	15.					352P	"
14	12/19	Brewster	16.	8.96	2.16	2.74	19.					400P 445P	FC 8
15	12/19	Bonadiman-Merideth	15.5	7.23	1.52	2.73	11.					450P 1045A	FC 27
16	12/20	Lindsay	18.0	7.36	1.77	2.72	13.					+0.01 1100A	FC 21
17	12/20	Cole	16.5	8.62	2.05	2.72	18.					235P	FC 28
18	12/21	"	16.5	8.12	2.27	2.71	19.					-0.01 1148A	"
19	12/24	Brewster	18.	11.4	2.85	2.78	32.					1155A 200P	FC 8
20	12/24	Fuller-Merideth	18.0	10.3	2.85	2.80	29.					320P	FC 1
21	12/24	Brewster	18.	10.8	2.39	2.80	32.					345P 350P	FC 8
22	12/24	Fuller-Merideth	16.8	10.8	2.95	2.80	32.					350P	FC 1
23	12/27	Hofmann	26.0	13.2	2.35	2.89	31.					-0.02 2205P	FC 39
24	1/2	Lindsay	18.5	9.83	2.33	2.80	23.					212P 222P	FC 21
25	1/4	Lindsay	18.0	9.56	2.06	2.72	20.					220A 220A	FC 21
26	1/5	Cole - Hofmann	18.0	11.8	2.52	2.78	21.					230P 235P	FC 28
27	1/8	Lindsay	18.5	12.7	2.72	2.81	25.					1008A 1008A	FC 21
28	1/11	"	18.0	11.4	2.27	2.78	27.					1100A 1112A	"
29	1/15	Cole - Hofmann	19.0	11.2	1.74	2.68	19.					230A 230P	FC 28
30	1/17	Lindsay	19.5	14.6	2.31	2.70	24.					235P 250A	FC 21
31	1/19	Cole - Hofmann	17.0	9.54	1.57	2.58	15.					1002A 1008A	FC 28
32	1/22	Lindsay	19.0	16.6	3.21	2.68	55.					1008A 400P	FC 21
33	1/25	"	19.5	15.8	2.62	2.61	41.					410P 1008A	FC 21
34	1/29	"	20.8	17.8	2.77	2.52	49.					215P 220P	"
35	1/31	"	20.5	18.2	2.70	2.60	49.					220P 1017A	"
36	2/5	Cole	27.5	-	-	2.58	51.					1027A 250P	FC 28
37	2/7	"	14.5	5.65	1.58	2.60	10.					202P 412P	"
38	2/7	"	15.5	7.25	1.40	2.57	10.					420P 135P	"
39	2/8	Cole	14.8	5.19	1.23	2.52	8.0					1505P 220P	FC 28
40	2/8	"	14.8	6.17	1.29	2.52	8.0					225P	"
41	2/8	"	27.0	25.9	1.85	5.01	48.					225P 245P 255P	"
42	2/8	"	24.5	27.5	2.21	5.08	61.					410P 425P	"
43	2/9	" - Lindsay	2	channels		2.97	76.					450P	"
44	2/12	" - Merideth	23.5	25.0	3.75	2.80	94.					945A 1045A	"
45	2/14	Lindsay	22.0	25.9	2.64	2.58	65.					1100A 755A	FC 21
46	2/16	Bonadiman	2	channels		2.35	55.					250A 900A	FC 27
47	2/18	"	2	channels		2.34	56.					925A 1000A	"
48	2/18	"	2	channels		2.34	52.					1024A 1104A	"
49	2/18	"	2	channels		2.34	20.					1125A 1205P	"
50	2/18	"	2	channels		2.34	52.					1205P 1205P	"
51	2/18	"	2	channels		2.34	52.					110P 127P	"
52	2/18	"	2	channels		2.35	34.					200P	"
53	2/18	"	2	channels		2.34	29.					225P 200P	"
54	2/18	"	2	channels		2.32	29.					220P 400P	"
55	2/18	"	2	channels		2.32	25.					800P 850P	"
56	2/20	Lindsay	18.5	19.4	2.79	2.50	54.					950A 1005A	FC 21
57	2/22	"	2	channels		1.90	29.					450P 550P	"
58	2/27	"	2	channels		2.00	30.					125P 205P	"
59	2/28	"	2	channels		2.04	32.					925A 945A 955A	"
60	3/1	"	2	channels		2.42	27.					1050A 1015A	"
61	3/2	Cole - Merideth	2	channels		2.50	56.					1030A 1060A	FC 28
62	3/2	"	18.5	8.57	1.55	2.29	13.					-0.02 1105A	"

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 191 B

Discharge measurements of SAN GABRIEL RIVER

at San Bernardino Blvd. during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width, Area of Section, Mean Velocity, Open Height, Discharge, Rating, Method, Mass, G. Ft. change, Section, Meter. Contains 111 rows of data for San Gabriel River measurements.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 191 B

Discharge measurements of SAN GABRIEL RIVER

at San Bernardino Blvd. during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width, Area of Section, Mean Velocity, Open Height, Discharge, Rating, Method, Mass, G. Ft. change, Section, Meter. Contains 27 rows of data for San Gabriel River measurements.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 42 R

Station F42R

SAN GABRIEL RIVER at Spring St., Long Beach

Discharge measurements of SAN GABRIEL RIVER

at Spring St., Long Beach during the year ending September 30, 1955

Location

On downstream end of bridge pier 4 miles east of Signal Hill.
This station is at or near the location of the station operated in 1924 by the State Division of Water Rights.

Drainage area

A natural split near Arrow Highway divides the San Gabriel River into 2 branches; the west branch known as the Rio Hondo flows into the Los Angeles River; the east branch retains the name San Gabriel River. The San Gabriel River drainage area above the split is 230 square miles; the San Gabriel River drainage area from the split to station F42R is 212 square miles.

Channel and control

Channel of sand and silt over adobe, earth levees protected by wire mesh.
No artificial control.

Discharge measurements

At low flows by wading.
At high flows from upstream side of bridge.

Recorder

Installed February 6, 1928 in a F. C. Standard type house over corrugated iron pipe stilling well.
An continuous recorder.

Regulation

Flow partially regulated by San Gabriel Dam No. 2, Morris Dam, Big Dalton Dam, San Dimsa Dam, Puddingstone Diversion, Puddingstone Dam, Live Oak Dam and Thompson Creek Dam.
San Gabriel Dam No. 1 was under construction but the 30 foot by-pass tunnel was open at all times, therefore, no regulation resulted.

Diversions

The City of Pasadena diverts water from the San Gabriel River. There are also several diversions for irrigation.

Records available

February 6, 1928 to September 30, 1936. (For records prior to February 1928 see State Division of Water Rights Bulletins.)

Extremes of discharge

No flow 1927-28, 1928-29, 1929-30 or 1930-31

1931-32

Maximum 4490 second-feet February 9
Minimum no flow most of year.

1932-33

Maximum 2250 second-feet January 20
Minimum no flow most of year

1933-34

Maximum 15000 second-feet January 1
Minimum no flow at various times during year

1934-35

Maximum 3390 second-feet October 17
Minimum no flow most of year

1935-36

Maximum 1910 second-feet February 12
Minimum no flow most of year

Accuracy

Fair.
Well sanded February 5, 6, 1935

Operation

Operated by the Los Angeles County Flood Control District. Located by the State Division of Water Rights.

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Cfs.	Rating	Method	Mean gage No.	G. H. change feet	Stage	Meter No.
1	10/18	Bonadiman	125.	559.0	2.12	8.70	1190.	.6	8	-0.56		820A	FO 27
2	10/18	"	111.	426.6	1.08	7.68	465.	.6	8	-0.14		820A	"
3	12/14	Jordan - Potter	92.4	320.6	1.08	7.10	349.	.6	7	-0.20		1235A	FO 5
4	12/14	Bonadiman	100.4	312.	.79	6.75	247.	.6	9	-0.17		820A	FO 27
5	12/14	"	95.4	254.1	0.26	6.22	51.	.6	7	-0.04		618A	"
6	12/14	McAulay, Martin & Harper	100.	317.2	.56	6.60	178.	.6	10	-0.20		1145A	"
7	1/5	Bonadiman	86.	187.7	.98	6.33	185.	.6	6	-0.17		825P	FO 27
8	3/5	"	15.5	9.92	2.98	4.16	20.	.6	4	+0.04		300P	"
9	2/7	"	5.0	1.42	.81	3.26	1.2	.6	4	0		240P	"
10	5/3	"	17.	6.84	.42	5.54	2.9	.6	4	0		450P	"
11	5/8	"	14.	6.47	.42	5.32	2.8	.6	4	0		1230P	"
12	4/8	"	38.5	26.22	2.22	3.85	58.	.6	7	+0.08		620P	"
13	5/8	"					0					950A	"
14	5/16	"					0					1020A	"
15	5/23	"					0					100P	"
16	5/6	"					0					200P	"
17	8/28	"					0					1280P	"
18	9/4	"					0					145P	"
19	9/26	"					0					200P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 42 R

Discharge measurements of SAN GABRIEL RIVER

at Spring St., Long Beach during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Cfs.	Rating	Method	Mean gage No.	G. H. change feet	Stage	Meter No.
1	10-3	Bonadiman					0					215P	
2	10-17	"					0					1100A	
3	10-24	"					0					1237P	
4	11-21	"					0					1230P	
5	12-5	"					0					1130A	
6	12-12	"					0					1210P	
7	12-19	"					0					1200W	
8	12-26	"					0					245P	
9	1-2	"					0					105P	
10	1-9	"					0					120P	
11	1-16	"					0					1145A	
12	2-12	Jordan	31.	10.9	1.43	3.67	16.	.6	10	-0.02		115P	FO 21
13	2-12	Bonadiman	26.	15.8	1.09	3.62	17.	.6	4	0		245P	FO 9
14	2-12	Jordan-Koch-McGarwin	113.	375.8	3.80	7.26	1420.	.6	7	-0.17		1053P	FO 21
15	2-13	Bonadiman	40.	65.3	2.42	4.22	158.	.6	6	-0.01		820A	FO 9
16	2-14	Bonadiman	27.	15.6	0.24	3.38	3.8	.6	8	0		240P	"
17	2-15	Bonadiman-McGarwin	98.	152.4	3.0	5.22	455.	.6	9	-0.05		213A	"
18	2-15	"	50.	79.3	1.27	4.64	101.	.6	6	-0.04		618A	"
19	2-16	"	100.	187.1	3.32	5.64	624.	.6	10	+0.08		155P	USED
20	2-16	"	95.	103.	2.10	5.02	744.	.6	9	-0.07		205P	"
21	2-17	"	6.	1.22	1.14	3.02	1.4	.6	3	0		233P	"
22	7-2	"					0					1200W	"
23	9-1	"					0					400P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **742R**
For the year ending September 30, 1956

Daily discharge, in second-feet of **SAN GABRIEL RIVER at Spring St., Long Beach**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	19.0	0	15.1	4.94	10.4	11.7	51.0	0	0	0	0	0
MAX	1170	0	807	502	81	58	61	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

Remarks: + indicates discharge 0.06 sec. ft. or less.

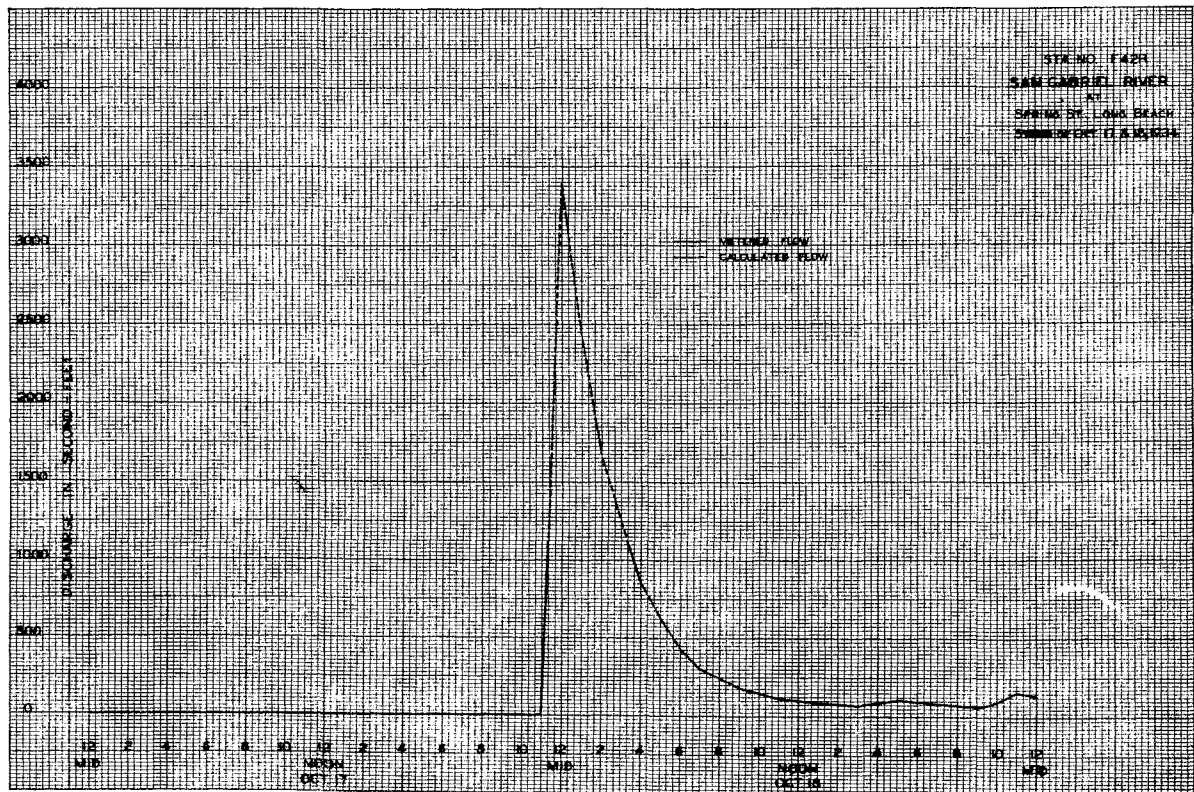
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **742R**
For the year ending September 30, 1956

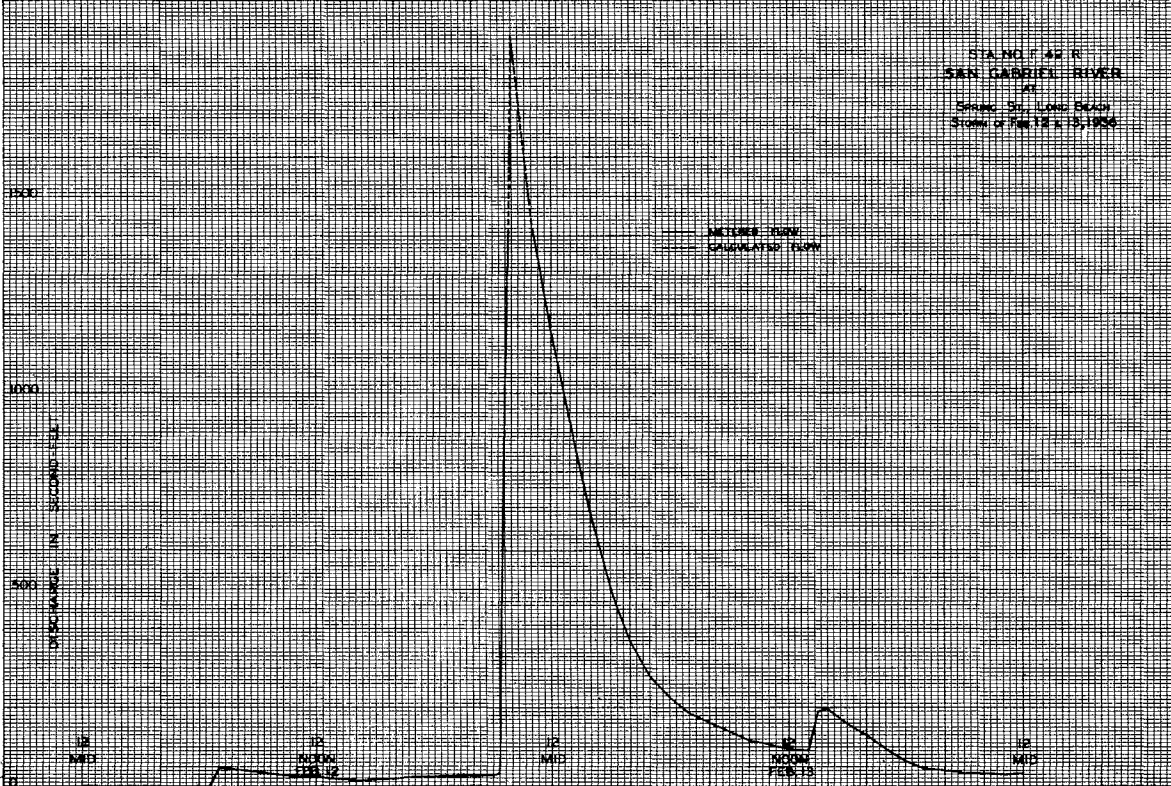
Daily discharge, in second-feet of **SAN GABRIEL RIVER at Spring St., Long Beach**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
MAX	0	0	0	0	0	0	0	0	0	0	0	0
MIN	0	0	0	0	0	0	0	0	0	0	0	0

Remarks: The recorder was not operated during the period of probable no flow from May 28 to Sept. 30.



2000



Station F237R
SAN GABRIEL RIVER at Telegraph Road

Location

On the downstream end of bridge pier 130 feet from the east end of the bridge, about 3 miles west of Santa Fe Springs.
 This is the station operated in 1926 by the State Division of Water Rights.

Drainage Area

A natural split near Arrow Highway divides the San Gabriel River into 2 branches; the west branch known as the Rio Hondo flows into the Los Angeles River; the east branch retains the name San Gabriel River.
 The San Gabriel drainage area above the split is 230 square miles; the San Gabriel River drainage area from the split to Station F237R is 212 square miles.

Channel and control

Channel - sand and gravel.
 No artificial control.

Discharge measurements

At low flow by wading near station.
 At high flow from upstream side of bridge.

Recorder

Installed April 4, 1934 in a F. O. Standard type house over a corrugated iron pipe stilling well.
 T.O.F. continuous recorder replaced by a National horizontal recorder July 30, 1936.

Extremes of discharge

1933-34
 Maximum Not determined
 Minimum no flow most of year
 1934-35
 Maximum 5850 second feet October 17
 Minimum no flow most of year
 1935-36
 Maximum 3400 second feet February 12
 Minimum no flow most of year

Accuracy

Poor due to shifting control

Operation

Located and constructed by the State Division of Water Rights. Operated by the Los Angeles County Flood Control District.

Regulation

Flow partially regulated by the San Gabriel Dam No. 2, Morris Dam, Big Dalton Dam, San Dimas Dam, Puddingstone Diversion, Puddingstone Dam, Live Oak Dam and Thompson Creek Dam.
 San Gabriel Dam No. 1 was under construction but the 30 foot by-pass tunnel was open at all times, therefore, no regulation resulted

Diversions

The City of Pasadena diverts water from the San Gabriel River. There are also several diversions for irrigation.

Records available

April 4, 1934 to Sept. 30, 1936. (For records prior to April 4, 1934 see State Division of Water Rights Bulletins.)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 227 R

Discharge measurements of SAN GABRIEL RIVER

at Telegraph Road during the year ending September 30, 1955

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Obs. stage, Discharge, Rating, Method, Meas. No., G. H. Change, Notes, Meter No. Contains 36 rows of data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 237 R

Discharge measurements of SAN GABRIEL RIVER

at Telegraph Road during the year ending September 30, 1956

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Obs. stage, Discharge, Rating, Method, Meas. No., G. H. Change, Notes, Meter No. Contains 36 rows of data.

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. **F 237 R**

Daily discharge, in second-feet of **SAN GABRIEL RIVER at Telegraph Road** for the year ending September 30, 19**55**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0.1	1.0	0	0	0
2	0	0	0	0	0	32	0	0	+1	0	0	0
3	0	0	0	0	0	4.2	0	0	0	0	0	0
4	0	0	0	0	0	.1	0	0	+	0	0	0
5	0	0	0	78	38	+	0	0	0	0	0	0
6	0	0	0	0	18	0	0	0	0	0	0	0
7	0	0	0	0	4.2	14	0	0	0.1	0	0	0
8	0	0	0	0	.8	1.8	4.1	0	0	0	0	0
9	0	0	0	.7	1.8	+	.6	.1	0	0	0	0
10	0	0	0	5.5	17	.1	0	0	0	0	0	0
11	0	0	0	0	25	0	0	0	0	0	0	0
12	0	0	0	.1	20	0	0	.1	0	0	0	0
13	0	0	594	.4	8	0	5.	0	0	0	0	0
14	0	0	105	.2	.8	0	14	0	0	0	0	0
15	0	0	39	128	.8	0	6	0	0	0	0	0
16	0	11	0	0	1.0	0	7.5	0	0	0	0	0
17	718	0	0	0	.2	0	2.7	2.1	0	0	0	0
18	386	14	0	0	0	0	1.5	0	0	0	0	0
19	0	11	0	.4	0	0	.4	1.2	0	0	0	0
20	0	0	0	.2	0	0	.8	0	0	0	0	0
21	0	0	0	+	0	0	.4	.6	0	0	0	0
22	0	0	0	+	0	0	.3	.3	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	.6	.2	0	0	0	0	0	0
25	0	0	0	0	.4	0	0	0	0	0	0	0
26	0	0	0	0	0	0	+	0	0	0	0	0
27	0	0	0	0	0	0	+	0	0	0	0	0
28	0	0	0	0	0	0	.2	0	0	0	0	0
29	0	0	0	0	0	0	.1	+	0	0	0	0
30	0	0	0	0	0	0	.2	0	0	0	0	0
31	0	0	0	0	0	0	.2	0	0	0	0	0
	1104.8	36	738	207.5	146.6	52.4	81.9	5.6	1.2	0	0	0

MEAN	35.6	1.20	22.8	6.69	5.24	1.65	2.72	.18	.04	0	0	0
ACCR. FEET	2190.	71.	1460.	412.	291.	104.	162.	11.	2.4	0	0	0
REMARKS:	+ indicates discharge 0.05 sec. ft. or less.											
YEAR	1955											
MEAN	6.50											
ACCR. FEET	4700.											

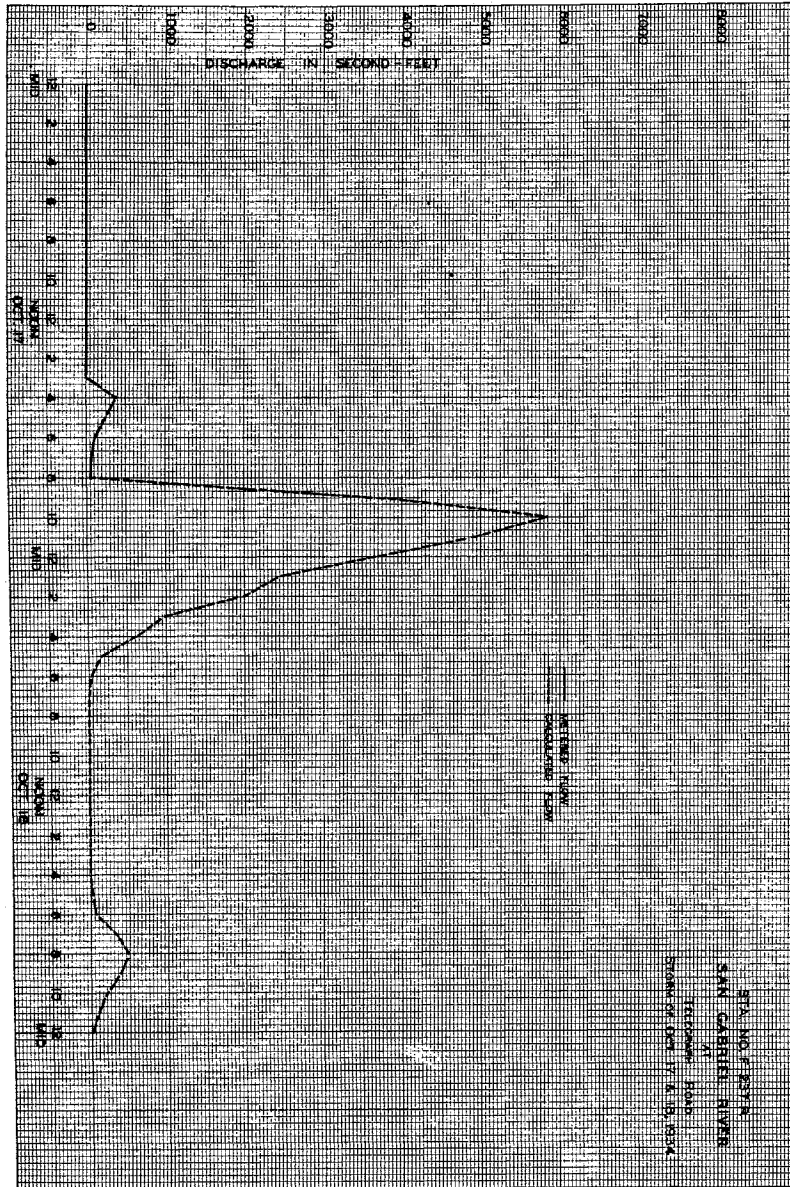
LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. **F237R**

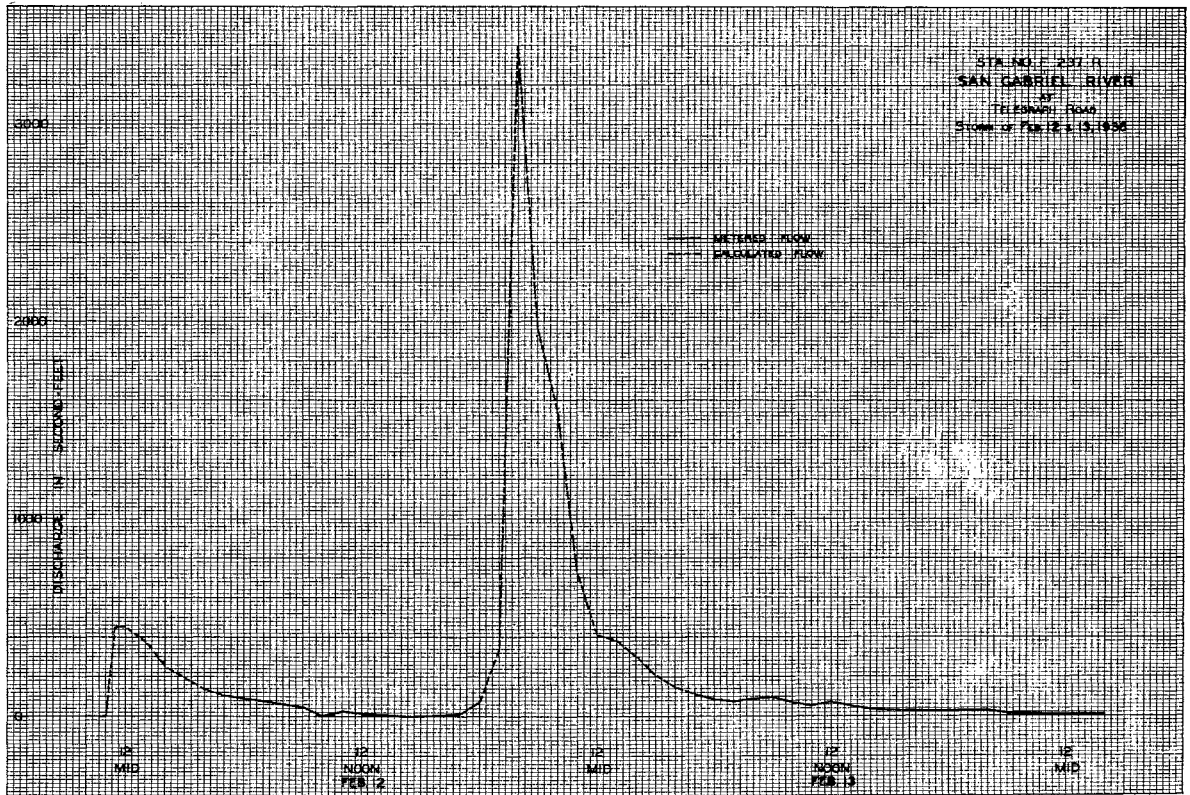
Daily discharge, in second-feet of **SAN GABRIEL RIVER at Telegraph Road** for the year ending September 30, 19**56**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0.2	0	0	0	0	0	0
3	0	0	0	0	0	1.3	0	0	0	0	0	0
4	0	+	0	0	0	0.7	8	+	0	0	0	0
5	0	0.8	0	0	0	0.5	#	1.4	0	0	0	0
6	0	0	0	0	0	0	0	1.5	0	0	0	0
7	0	0	0	0	4.5	0	0	0	0	0	0	0
8	+	+	0	0	8.5	0	0	0	0	0	0	0
9	6.5	0	0	0	+	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	14	0	0	0	0	0	0	0
12	0	0	0	0	414	0	0	0	0	0	0	0
13	0	0	0	0	93	0	0	0	0	0	0	0
14	0	0	0	0	4.7	0	0	0	0	0	0	0
15	0	+	0	0	151	0	0	2.6	0	0	0	0
16	0	0	0	0	122	0	0	0	0	0	0	0
17	0	0	0	0	0.6	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	4	0	+	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	30	0	0	0	0	0	0	0
24	0	0	0	0	1.8	0	0	0	0	0	0	0
25	0	0	0	0	0.8	0.5	0	0	0	0	0	0
26	0	0	0	0	0.4	0.1	0	0	0	0	0	0
27	0	+	0	0	0.4	0	0.3	0	0	0	0	0
28	0	1.5	0	0	0	0	1.3	0	0	0	0	0
29	0	0	0	0	1.1	0	0.7	0	0	0	0	0
30	0	0	0	0	0	0	0.1	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
	6.5	4.2	0	0.4	847.4	9.6	10.4	5.5				

MEAN	0.21	0.14	0	0.01	29.2	0.31	0.35	0.18				
ACCR. FEET	13	83	0	0.79	1680	19	21	11				
REMARKS:	+ indicates discharge 0.05 second-feet or less.											
YEAR	1956											
MEAN	2.42											
ACCR. FEET	1750											



224



Station P3R
SAN GABRIEL RIVER - W. FORK 2 miles above Forks

Location
One-quarter mile above Rincon Ranger Station on the south bank of the West Fork of the San Gabriel River about 13½ miles north of Azusa

Drainage area
.102 square miles

Channel and control
Channel is sand, gravel and boulders.
No artificial control

Discharge measurements
At low flows by wading near gage
At high flows from cable car 115 feet above recorder house.

Recorder
Installed December 3, 1930 in a 42 inch corrugated iron pipe stilling well which also serves as a recorder house.
An continuous recorder.

Regulation
Flow partially regulated by San Gabriel Dam No. 2

Diversions
Some water diverted at the Fish Hatchery on the North Fork of the San Gabriel River.

Records available
December 3, 1930 to September 30, 1936.
(For prior records see abandoned station P1R San Gabriel River - W. Fork 1/2 mile above Forks)

Extremes of discharge
1930-31 Maximum 1530 second-feet April 26
Minimum .8 second-foot September 5
1931-32 Maximum 3790 second-feet February 9
Minimum .5 second-feet October 17

1932-33 Maximum 3460 second-feet January 19
Minimum 2.5 second-feet on various days during year

1933-34 Maximum 5320 second-feet January 1
Minimum .9 second-foot September 17

1934-35 Maximum 1840 second-feet April 8
Minimum 1.6 second-feet several days during October

1935-36 Maximum 752 second-feet February 12
Minimum 1.8 second-feet September 24

Accuracy
Good.
Clock stopped: January 23-25, 1935; February 9, 10, 1935
Estimated February 23, 24, 1935.

Operation
Moved from a previous location by the District for the Pasadena Water Department. This station was later taken over and operated by the Los Angeles County Flood Control District in cooperation with the U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 2 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 3 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK 2 miles above Forks during the year ending September 30, 19 35

Discharge measurements of SAN GABRIEL RIVER - W. FORK 2 miles above Forks during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Percent diff., Method, Mean area, G.H. change feet, Meter No., No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Percent diff., Method, Mean area, G.H. change feet, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 3 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 3 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Discharge measurements of SAN GABRIEL RIVER - W. FORK

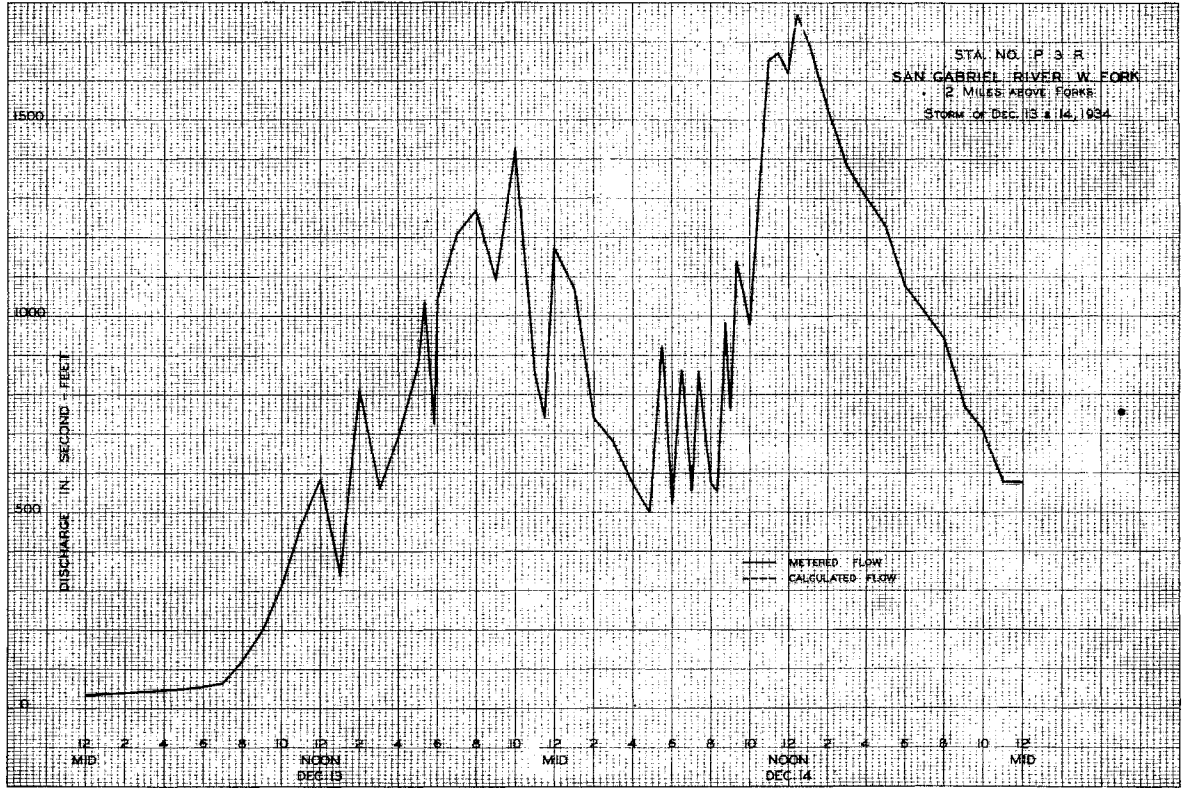
3 miles above Forks during the year ending September 30, 1935

2 miles above Forks during the year ending September 30, 1936

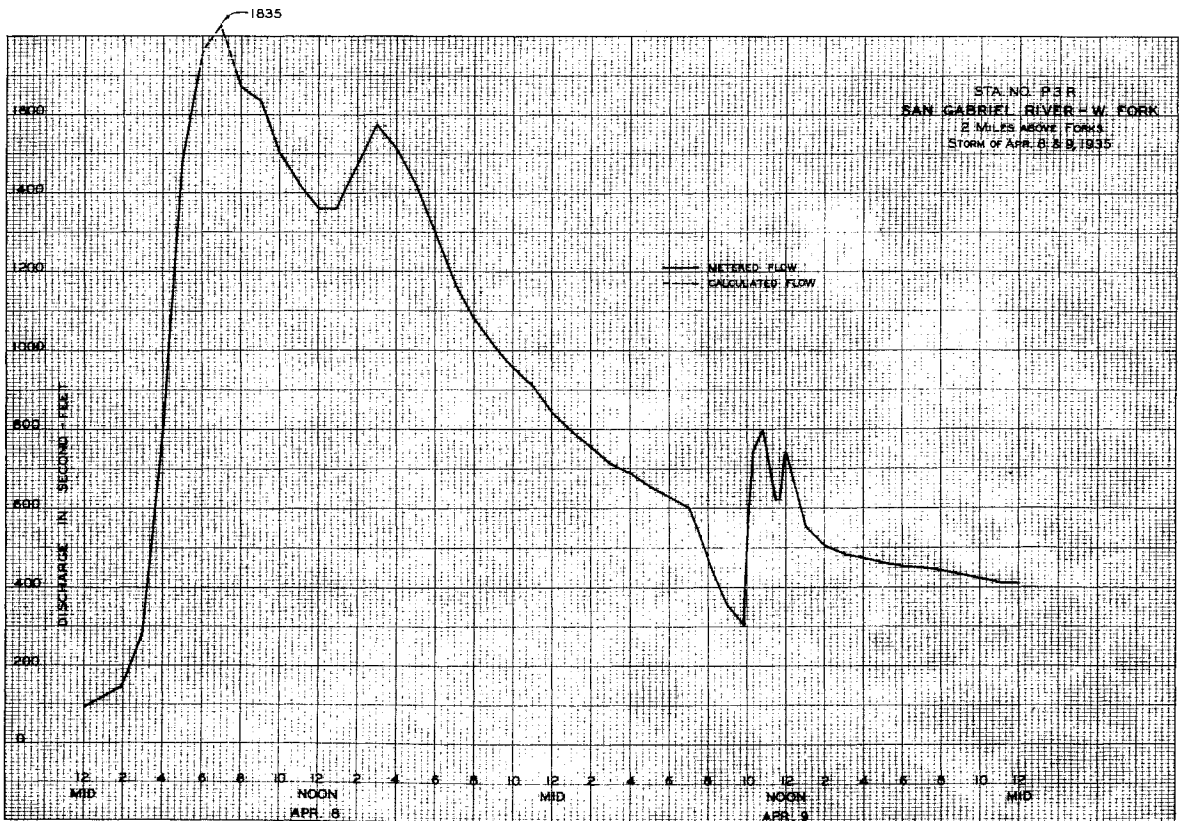
Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Stage Height Feet, Discharge Sec.-ft., Rating Point, Method, Mean Area Sq. Ft., G. H. Elev. Feet, Depth Meter, Meter No. Rows include measurements by Turner, Reber - Tscharnner, Patterson, Reber, Boling, etc.

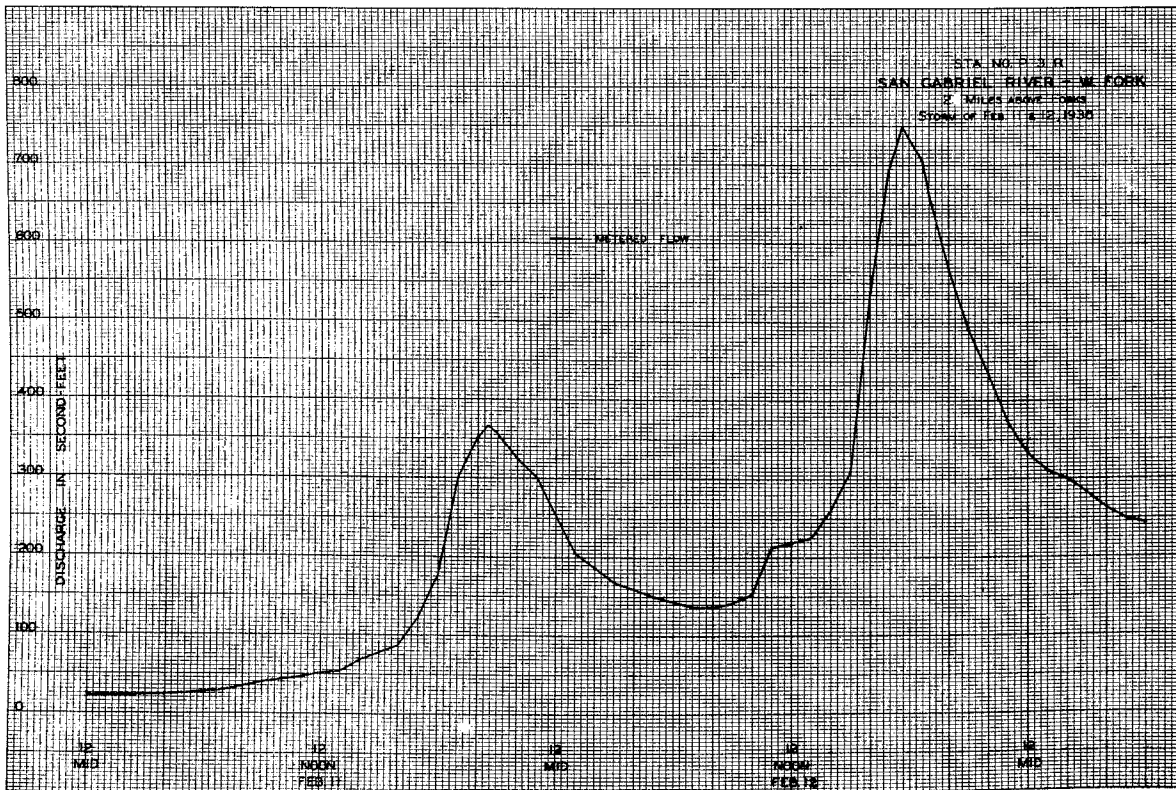
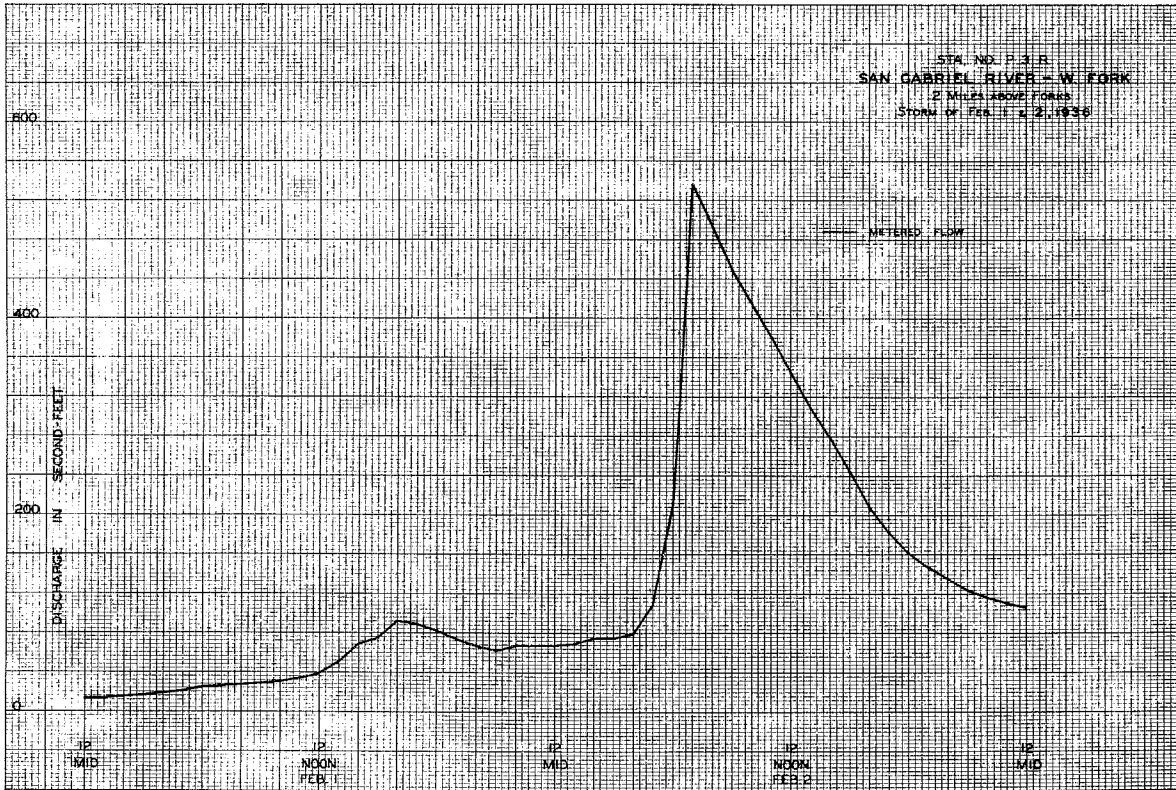
Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Stage Height Feet, Discharge Sec.-ft., Rating Point, Method, Mean Area Sq. Ft., G. H. Elev. Feet, Depth Meter, Meter No. Rows include measurements by Reber, Cooper - De Vore, Reber, etc.

KEEFE & SHREVE, INC., S.F. NO. 1834-1
17 1/2 IN. X 11 IN.



KEEFE & SHREVE, INC., S.F. NO. 1834-1
17 1/2 IN. X 11 IN.





LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 251 R

Station F251R

SAN GABRIEL RIVER - W. FORK Parshall flume below
S. G. Dam #2

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Parshall flume below S. G. Dam #2 during the year ending September 30, 1935

Location

About 200 feet below San Gabriel Dam No. 2, and about 7 miles above the junction of the East and West Forks of the San Gabriel River

Channel and control

A pool in sand and gravel is just above the measuring flume. The width of the flume has been varied from time to time as the discharge has varied. At times a V notch weir has been maintained in the flume.

Discharge measurements

Either by wading near station or from top of flume.

Recorder

Installed April 26, 1935 in a box type house over a wooden stilling well.
Recorder removed October 9, 1935.
Recorder reinstalled March 7, 1936.
H.C.F. continuous recorder from April 26, 1935 to October 9, 1935.
Horizontal Rational recorder from March 7, 1936.

Regulation

Except for the bank run-off from a very small area below the dam the flow is entirely regulated by San Gabriel Dam No. 2.

Diversions

Water released from San Gabriel Dam No. 2 enters river below station F251R.

Records available

Recorder records from April 26, 1935 to October 9, 1935 and from March 7, 1936 to September 30, 1936.
Discharge measurements only, October 10, 1935 to March 6, 1936.

Extremes of discharge

April 26, 1935 to Sept. 30, 1935
Maximum 20 second-foot May 1
Minimum not determined (about 0.08 second-foot)
1935-36
Maximum not determined (about 41 second-foot February 17)
Minimum not determined (about 0.1 second-foot)

Accuracy

Good.
Discharge estimated: from measurements, October 10, 1935 to February 1, 1936; from gage readings and measurements, February 2, 1936 to March 6, 1936.
Water below communication opening: September 16 to October 9, 1935, discharge estimated from measurements.

Operation

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

F.C.D. Form 10-11-13

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 251 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Parshall flume below S.G. Dam #2 during the year ending September 30, 1935

No.	Date	Made by	Wish Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Gage Height Feet	Discharge Sec.-ft.	Rating Method	Max. Vel. Mph.	C. H. Error Part	Begin Meter No.	End Meter No.
18	5/14	Jordan - Wood	18.0	7.40	2.07	2.59	15	- .6	12	0	160P	FC 25
19	5/15	F. J. Ash	2.0	5.26	2.85	2.55	15	- .6	4	0	807P	
20	5/16	R. A. Waddioor	2.0	5.02	2.67	2.51	15	- .6	4	0	820A	FC 26
21	5/17	"	2.0	5.00	2.72	2.50	14	- .6	4	0	915A	
22	5/17	"	2.2	5.50	2.48	2.50	14	- .6	5	0	212P	
23	5/17	"	2.2	5.50	2.49	2.50	14	- .8	5	0	221P	
24	5/18	"	2.2	5.47	2.50	2.49	14	- .6	5	0	235P	
25	5/19	R. A. Waddioor	2.2	5.41	2.50	2.46	14	- .6	5	0	1011A	
26	5/20	"	2.2	5.41	2.50	2.46	14	- .6	5	0	1016A	
27	5/21	F. J. Ash	2.0	4.92	2.95	2.46	15	- .6	4	0	1205P	FC 26
28	5/22	"	2.0	4.90	2.92	2.45	14	- .6	4	0	847A	
29	5/23	R. A. Waddioor	2.2	5.39	2.49	2.45	13	- .6	5	0	845A	
30	5/24	"	2.2	5.39	2.51	2.45	14	- .6	5	0	855A	FC 33
31	5/25	"	2.2	5.34	2.47	2.43	13	- .6	5	0	820A	
32	5/26	"	2.2	5.34	2.49	2.43	13	- .6	5	0	840A	
33	5/27	"	2.2	5.32	2.49	2.42	13	- .6	5	0	905A	
34	5/28	F. J. Ash	2.2	5.28	2.52	2.40	13	- .6	4	0	912A	FC 26
35	5/29	"	2.2	5.24	2.52	2.39	13	- .6	4	0	945A	
36	5/30	"	2.2	5.24	2.55	2.38	13	- .6	4	0	955A	
37	5/31	"	2.2	5.21	2.46	2.37	13	- .6	4	0	1020A	
38	6/1	R. A. Waddioor	2.2	5.21	2.42	2.37	13	- .6	5	0	1020A	
39	6/2	"	2.2	5.21	2.42	2.37	13	- .6	5	0	1020A	
40	6/3	"	2.2	5.22	2.45	2.39	13	- .6	5	0	1020A	
41	6/4	F. J. Ash	2.1	5.02	2.46	2.39	12	- .6	5	0	1020A	
42	6/5	"	2.2	5.22	2.46	2.38	13	- .6	5	0	1020A	
43	6/6	R. A. Waddioor	2.2	5.21	2.47	2.37	13	- .6	5	0	1020A	
44	6/6	Keifer, Jordan and Waddioor	-	-	-	2.37	14	-	-	-	1020A	
45	6/7	R. A. Waddioor	2.2	5.20	2.60	2.36	14	- .6	5	0	1020A	
46	6/8	"	2.2	5.28	2.52	2.35	13	- .6	5	0	1020A	
47	6/9	"	2.2	5.28	2.55	2.35	14	- .6	5	0	1020A	
48	6/10	"	2.2	5.22	2.60	2.33	14	- .6	5	0	1020A	
49	6/11	F. J. Ash	2.2	5.24	2.65	2.33	14	- .6	5	0	1020A	
50	6/12	"	2.2	5.24	2.62	2.31	14	- .6	5	0	1020A	
51	6/13	R. A. Waddioor	2.2	5.15	2.68	2.29	13	- .6	5	0	1020A	
52	6/14	"	2.2	5.06	2.52	2.25	13	- .6	5	0	1020A	
53	6/15	"	2.2	5.04	2.50	2.24	13	- .6	5	0	1020A	
54	6/16	"	2.2	5.01	2.60	2.23	13	- .6	5	0	1020A	
55	6/17	"	2.2	5.01	2.51	2.20	13	- .6	5	0	1020A	
56	6/18	F. J. Ash	2.2	5.06	2.55	2.17	13	- .6	5	0	1020A	
57	6/19	"	2.2	5.06	2.61	2.15	13	- .6	5	0	1020A	
58	6/20	R. A. Waddioor	2.2	5.06	2.54	2.11	13	- .6	5	0	1020A	
59	6/21	"	2.2	5.06	2.55	2.11	13	- .6	5	0	1020A	
60	6/22	"	2.2	5.06	2.55	2.14	13	- .6	5	0	1020A	
61	6/23	"	2.2	5.04	2.54	2.11	13	- .6	5	0	1020A	
62	6/24	"	2.2	5.01	2.50	2.11	13	- .6	5	0	1020A	
63	6/25	F. J. Ash	2.2	4.98	2.57	2.11	13	- .6	5	0	1020A	
64	6/25	"	2.2	4.92	2.46	2.04	12	- .6	5	0	1020A	
65	6/27	R. A. Waddioor	2.2	4.92	2.50	2.01	12	- .6	5	0	1020A	
66	6/28	"	2.2	4.95	2.48	2.01	12	- .6	5	0	1020A	
67	6/29	"	2.2	4.75	2.44	1.94	12	- .6	5	0	1020A	
68	6/30	"	2.2	4.62	2.46	1.92	11	- .6	5	0	1020A	
69	7/1	F. J. Ash	2.2	4.62	2.40	1.97	11	- .6	5	0	1020A	
70	7/2	"	2.2	4.62	2.44	1.97	11	- .6	5	0	1020A	
71	7/3	R. A. Waddioor	2.2	4.55	2.41	1.92	11	- .6	5	0	1020A	
72	7/4	"	2.2	4.40	2.42	1.92	11	- .6	5	0	1020A	

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 851 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F251R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Parshall flume below S. G. Dam #2 during the year ending September 30, 1956

Parshall Flume below S. G. Dam #2 during the year ending September 30, 1956

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent, Method, Mean Area Sq. Ft., C, H, Discharge Total, Begin Date, Meter No.

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent, Method, Mean Area Sq. Ft., C, H, Discharge Total, Begin Date, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F251R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 251 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Discharge measurements of SAN GABRIEL RIVER - W. FORK

at Marshall Flume below S. G. Dam #2 during the year ending September 30, 1936

at Marshall Flume below S.G. Dam No. 2 during the year ending September 30, 1936

Table with columns: No., Date, Made by, Weir No., Area of Section, Mean Velocity, Stage, Discharge, Rating, etc. It contains two columns of data for measurements taken in 1936.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 251 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

* Parshall Flume below S. G. Dam #2 during the year ending September 30, 1936.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 251 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

* Parshall Flume below S.G. Dam #2 during the year ending September 30, 1936.

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Date (gate set), Discharge Sec.-ft., Rating (gate set), Method, Min. size No., G. H. change Total, Elevation Meter No., No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating (gate set), Method, Min. size No., G. H. change Total, Elevation Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 251 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Parshall Flume below S.G. Dam No. 2 during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Backwater, Method, Meter No., G. H. change, Begin, End, Meter No. and various gauge numbers (e.g., 1015A, 1100A, 1110A, etc.).

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 251 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Parshall Flume below S.G. Dam #2 during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Backwater, Method, Meter No., G. H. change, Begin, End, Meter No. and various gauge numbers (e.g., 328, 329, 330, etc.).

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F251R**

Table with columns: Day, Oct, Nov, Dec, Jan, Feb, Mar, Apr, May, June, July, Aug, Sept. Rows 1-31. Data includes discharge values for each day.

Summary table with columns: MEAN, ACFT, FURT. Rows 1-31. Includes totals for the month.

Remarks: Recorder installed April 26

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F291R**

Table with columns: Day, Oct, Nov, Dec, Jan, Feb, Mar, Apr, May, June, July, Aug, Sept. Rows 1-31. Data includes discharge values for each day.

Summary table with columns: MEAN, ACFT, FURT. Rows 1-31. Includes totals for the month.

Remarks: MAX 1.44 ACFT 6730

236

Discharge measurements of **SAN GABRIEL RIVER - W. FORK** during the year ending September 30, 19 **35**
Station No. **F 251 R**
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Table with columns: No., Date, Made by, Value, Gauge, Reading, etc. Rows 395-398. Includes gauge readings and values.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 228 R**

Station F228R

SAN GABRIEL RIVER - W. FORK 3 1/2 miles above S. G. Dam #2

Discharge measurements of **SAN GABRIEL RIVER - W. FORK**

Location

On the right bank of the West Fork of the San Gabriel River, 10 miles above the junction of the East and West Forks of the San Gabriel River.

3 1/2 miles above S. G. Dam #2 during the year ending September 30, 19**36**

Drainage area

14.4 square miles.

Channel and control

Channel - sand gravel and boulders.
No artificial control.

Discharge measurements

Low flows by wading near station.
High flows from cable car just below recorder house.

Recorder

Installed December 6, 1933 in a F. C. Standard type house over a corrugated iron pipe stilling well. An continuous recorder.

Regulations

None

Diversions

None

Records available

December 6, 1933 to September 30, 1936

Extremes of discharge

1933-34
Maximum 1850 second-feet January 1
Minimum no flow part of year

1934-35
Maximum 755 second-feet April 8
Minimum no flow part of year

1935-36
Maximum 570 second-feet February 12
Minimum no flow part of year

Accuracy

1934-35 Poor.
1935-36 fair.
No record; July 18 to August 1, 1935.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Gage Height Feet	Discharge Sec.-ft.	Rating	Notes	Remarks	Flow No.	Station No.
1	10/19	T. A. Cooper	14.1	9.91	.68	5.18	6.2				355E	
2	10/25	"	5.6	1.540.75	2.91	1.1					408E FC 20	
3	11/7	R. A. Waddoor	3.5	.86	.99	2.89	.85				410E	
4	11/15	"	2.3	.47	1.15	2.91	.55				140E FC 25	
5	11/22	"	5.0	2.16	1.11	3.04	2.4				142E	
6	11/28	"	5.0	1.99	.98	3.00	2.0				148E	
7	12/5	"	5.0	2.05	.90	3.00	1.8				150E FC 25	
8	12/19	"	12.0	17.3	.75	5.24	13.				152E	
9	12/27	"	9.3	3.7	1.5	3.04	4.9				158E	
10	1/5	"	8.5	12.4	.53	5.10	6.6				160E FC 26	
11	1/10	"	22.5	27.31	.77	3.91	48.				162E	
12	1/17	"	22.5	25.91	.59	3.86	41.				164E	
13	1/24	"	15.0	16.4	1.18	3.55	19.				166E	
14	1/31	Waddoor - Fred Ash	13.7	13.51	.02	3.39	14.				168E	
15	2/21	"	19.5	10.31	.59	3.56	16.				170E	
16	3/14	"	16.0	8.6	1.68	3.49	15.				172E	
17	3/28	"	12.0	9.1	1.68	3.44	15.				174E	
18	4/3	"	10.5	7.6	1.5	3.41	11.				176E	
19	4/13	"	21.2	16.8	1.97	3.74	33.				178E	
20	4/19	Fred J. Ash	21.8	16.8	1.84	3.70	31.				180E	
21	4/20	Waddoor	20.0	14.5	1.87	3.69	27.				182E	
22	4/21	Fred J. Ash	20.0	14.3	1.79	3.68	26.				184E	
23	4/22	"	21.7	14.6	1.80	3.68	26.				186E	
24	4/23	"	20.9	14.7	1.79	3.67	26.				188E	
25	4/24	R. A. Waddoor	21.6	13.4	1.83	3.66	24.				190E	
26	4/25	Fred J. Ash	21.5	13.4	1.75	3.63	23.				192E	
27	4/26	"	21.4	13.2	1.67	3.62	22.				194E	
28	5/6	"	21.0	10.9	1.47	3.55	16.				196E	
29	5/9	"	17.5	11.3	1.28	3.54	15.				198E	
30	5/13	"	17.0	8.70	1.78	3.52	15.				200E	
31	5/16	"	17.0	7.64	1.76	3.49	15.				202E	
32	5/16	"	15.5	5.94	1.66	3.43	12.				204E	
33	5/25	"	16.0	5.51	1.81	3.40	12.				206E	
34	6/5	"	16.0	5.82	1.53	3.40	7.8				208E	
35	6/13	"	11.5	4.20	1.40	3.35	5.0				210E	
36	6/20	"	6.0	5.79	1.53	3.28	5.8				212E	
37	6/27	"	7.0	2.77	1.46	3.22	4.0				214E	
38	7/5	"	10.0	5.87	1.25	3.25	4.9				216E	
39	7/11	"	9.5	2.87	1.02	3.17	3.0				218E	
40	7/18	R. A. Waddoor	8.4	1.92	.82	3.13	1.6				220E	
41	8/1	"	3.2	.96	1.14	3.05	1.1				222E	
42	8/8	"	5.0	.70	.93	3.02	.65				224E	
43	8/15	"	3.5	.65	.92	3.02	.60				226E	
44	8/22	"	3.0	.53	.66	2.95	.35				228E	
45	8/29	Turner	2.5	.89	1.13	3.01	1.0				230E	
46	9/5	"	2.8	.59	.95	2.92	.37				232E	
47	9/12	R. A. Waddoor	2.2	.31	1.15	2.90	.56				234E	
48	9/19	"	2.2	.56	1.14	2.89	.41				236E	
49	9/26	R. A. Waddoor	2.2	.32	1.19	2.90	.38				238E	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **7228R**

Discharge measurements of SAN GABRIEL RIVER - W. FORK

3 1/2 miles above S.G. Dam #2 during the year ending September 30, 1956

No.	Date	Made by	Wash Feet	Area of Storm Sq. Ft.	Mean Velocity ft. per sec.	Depth Feet	Discharge Sec. Ft.	Rising Flood Sec. Ft.	Method	Mean No.	G. M. Type	Height Feet	Meter No.
1	10/3	R. A. Waddoor	2.4	.36	1.33	2.94	.48	.6	5	-	350P	FG 26	
2	10/10	"	2.3	.32	1.34	2.90	.43	.6	5	0	1050A	"	
3	10/17	"	2.5	.27	1.34	2.94	.31	.6	4	0	1154A	"	
4	10/24	"	2.5	.24	1.25	2.94	.30	.6	4	0	235P	"	
5	10/31	"	3.0	.67	.91	3.00	.60	.6	3	0	210P	"	
6	11/7	"	3.0	.68	1.09	3.04	.75	.6	3	0	200P	"	
7	11/14	"	3.5	.99	.92	3.04	.90	.6	4	0	210P	"	
8	11/21	Waddoor-Laverly	3.6	1.04	1.25	3.09	1.3	.6	7	0	240P	"	
9	11/28	Waddoor	3.7	1.20	.98	3.09	1.2	.6	4	0	280P	"	
10	12/5	"	4.0	1.57	.83	3.12	1.3	.6	4	0	1020A	"	
11	12/12	"	4.0	1.53	.76	3.10	1.2	.6	4	0	1030A	"	
12	12/19	"	4.0	1.52	.75	3.10	1.1	.6	4	0	1115A	"	
13	12/26	"	4.0	1.62	.78	-	1.3	.6	4	-	143P	"	
14	1/2	"	6.0	1.72	.84	3.13	1.5	.6	6	0	255P	"	
15	1/9	"	5.6	1.57	.92	3.11	1.5	.6	6	0	240P	"	
16	1/16	"	5.5	1.57	.89	3.10	1.4	.6	6	0	210P	"	
17	1/22	"	5.2	1.08	.94	3.10	1.0	.6	5	0	218P	"	
18	1/30	"	5.5	1.42	.92	3.11	1.3	.6	6	0	255P	"	
19	2/6	"	6.0	2.24	1.77	3.16	4.0	.6	6	0	145P	"	
20	2/18	Waddoor-R. Miller	22.0	20.3	2.37	4.03	5.2	.6	9	0	317P	"	
21	2/27	Waddoor	19.8	12.2	2.19	3.66	2.7	.6	8	0	1140A	"	
22	3/11	"	12.0	4.06	1.54	3.28	6.2	.6	6	0	1150A	"	
23	3/18	"	12.0	3.82	1.44	3.24	5.5	.6	6	0	1110A	"	
24	3/22	"	8.0	2.97	1.82	3.23	5.4	.6	8	0	1120A	"	
25	4/1	R.A. Waddoor	14.0	6.48	2.14	3.45	14	.6	7	0	1150A	FG 26	
26	4/8	"	12.4	5.71	1.97	3.44	11	.6	9	0	1040A	"	
27	4/13	Ash	12.0	4.46	1.69	3.35	7.5	.6	10	0	905A	FG 20	
28	4/22	Waddoor	11.0	4.28	1.62	3.30	7.0	.6	11	-	920A	FG 26	
29	4/29	F. J. Ash	9.0	2.95	1.83	3.25	5.4	.6	10	-	916A	FG 20	
30	5/6	"	7.5	2.63	1.53	3.22	4.0	.6	11	-	915A	"	
31	5/13	"	7.0	1.87	1.50	3.16	2.8	.6	11	-	925A	"	
32	5/20	"	7.5	1.97	1.30	3.14	2.5	.6	11	-	835A	"	
33	5/27	"	7.0	1.97	1.30	3.13	2.6	.6	10	-	850A	"	
34	6/3	"	6.5	2.07	1.25	3.14	2.6	.6	11	-	930A	"	
35	6/10	Cooper-De Vore	5.3	1.45	1.21	3.04	1.8	.6	8	-	940A	"	
36	6/17	De Vore-De Vore	5.0	1.23	.84	2.98	1.0	.6	8	-	149P	FG 11	
37	6/25	"	4.0	.76	.55	2.88	.42	.6	6	-	1147A	FG 32	
38	7/1	Ash	2.9	.60	.48	2.90	.55	.6	9	-	1200N	"	
39	7/9	"	2.0	.32	.76	2.88	.25	.6	5	-	1130A	"	
40	7/16	"	1.0	.22	.64	2.78	.14	.6	2	-	1132A	"	
41	7/23	"	.8	.08	.17	2.76	.01	.6	2	-	630A	FG 20	
42	7/30	"	.8	.04	1.00	2.79	.04	Flood	2	-	640A	"	
43	8/6	"	.6	.06	1.00	2.75	.06	"	2	-	650A	"	
44	8/13	"	.6	.02	.60	2.75	.01	"	2	-	640A	"	
45	8/20	"	.6	.02	.50	2.74	.01	"	2	-	635A	"	
46	8/26	"	.4	.02	.50	2.75	.01	"	2	-	630A	"	
47	9/2	"	.55	.08	.55	2.73	.01	"	2	-	820A	"	
48	9/9	"	.5	.02	1.00	2.73	.02	"	2	-	822A	"	
49	9/16	F. J. Ash	.5	.02	.50	2.75	.01	Flood	2	-	650A	"	
50	9/23	"	.5	.017	.70	2.75	.01	"	2	-	640A	"	
51	9/30	"	.5	.014	.72	2.75	.01	"	2	-	905	"	

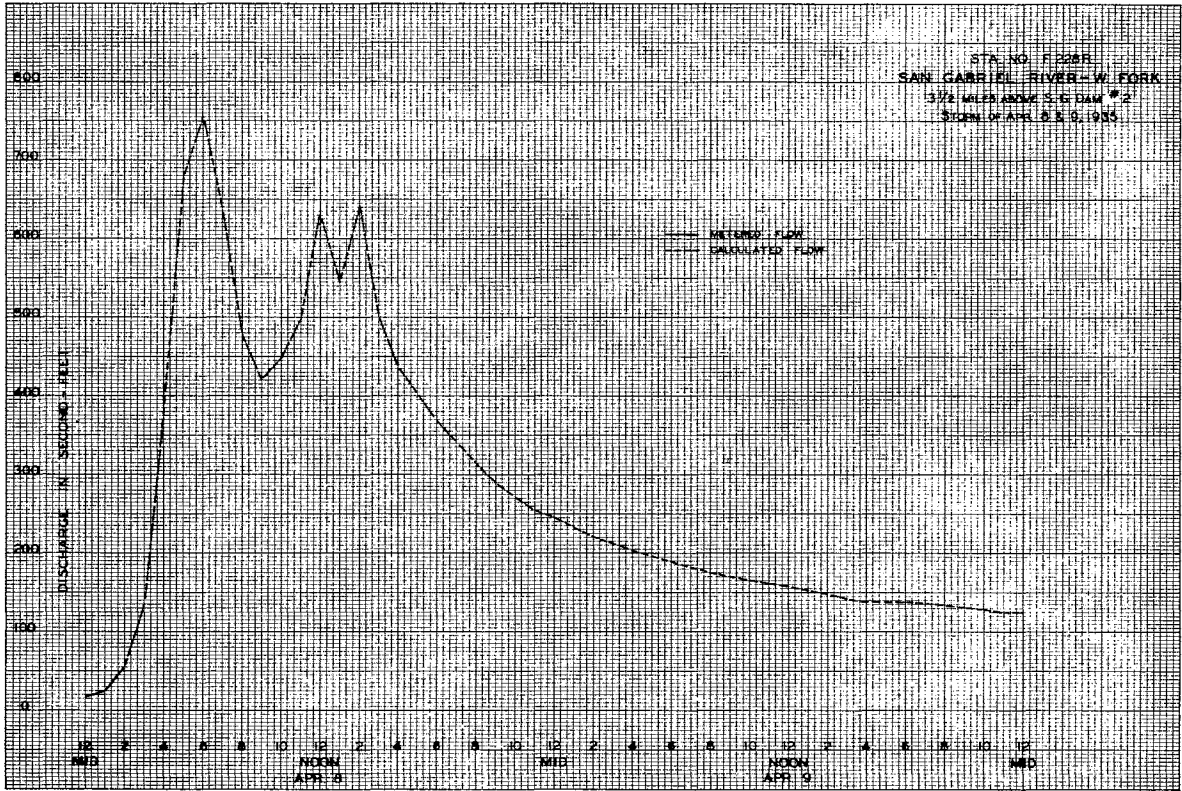
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Station No. **7 228 R**

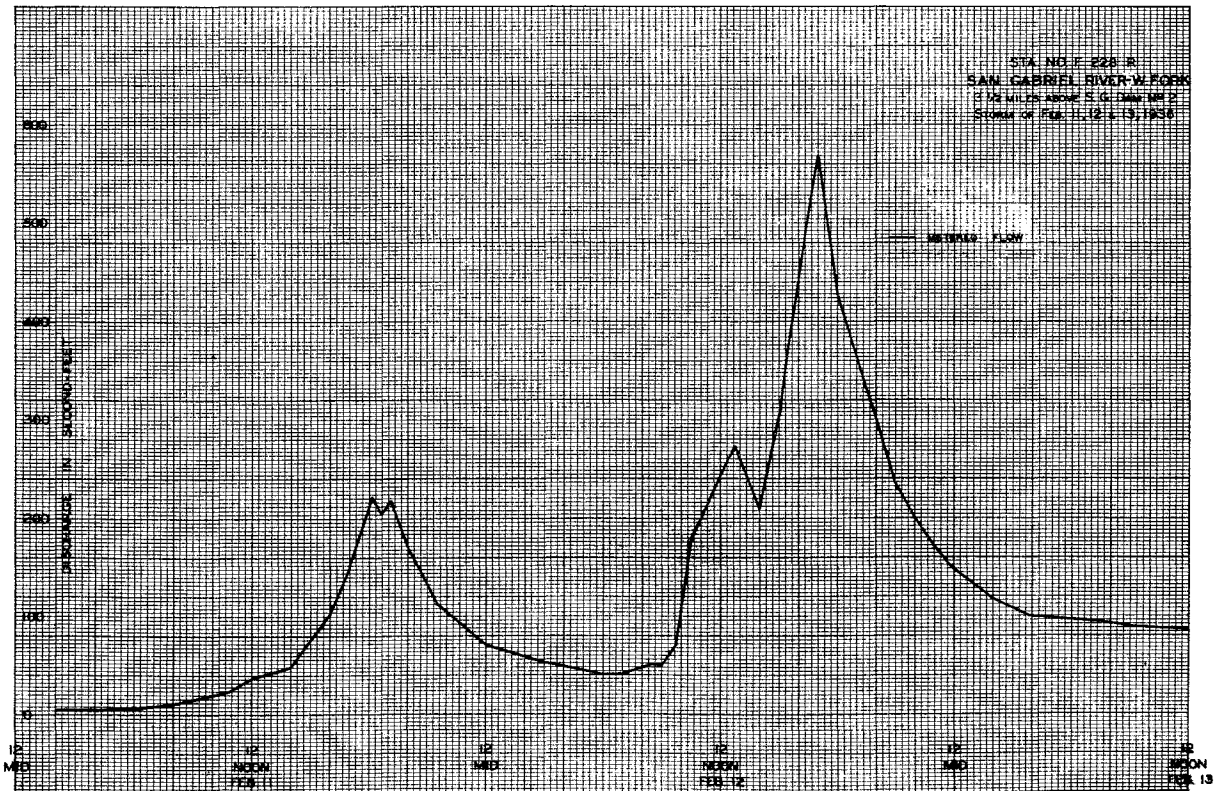
Daily discharge, in second-feet of SAN GABRIEL RIVER - W. FORK 3 1/2 miles above S. G. Dam #2 for the year ending September 30, 1956

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1.0	2.0	7.5	13	11	15	22	11	4.0	.8	.4
2	0	.8	2.0	6.5	12	10	18	22	10	4.3	.8	.4
3	0	.9	2.0	11	11	17	18	21	9	4.5	.8	.4
4	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
5	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
6	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
7	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
8	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
9	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
10	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
11	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
12	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
13	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
14	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
15	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
16	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
17	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
18	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
19	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
20	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
21	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
22	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
23	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
24	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
25	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
26	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
27	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
28	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
29	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
30	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
31	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
32	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
33	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
34	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
35	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
36	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
37	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
38	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
39	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
40	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
41	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
42	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
43	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
44	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
45	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
46	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
47	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
48	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
49	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
50	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
51	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
52	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
53	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
54	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
55	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
56	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
57	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
58	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
59	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
60	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
61	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
62	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
63	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
64	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
65	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
66	0	.8	2.0	11	11	17	18	21	9	4.5	.8	.4
67	0	.8	2.0	11	1							

REPRODUCED FROM THE REPORT OF THE
U.S. GEOLOGICAL SURVEY



REPRODUCED FROM THE REPORT OF THE
U.S. GEOLOGICAL SURVEY



LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R

Station F209R

SAN GABRIEL RIVER - W. FORK 1/2 mile below S. G. Dam #2

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Location

1/2 mile below S. G. Dam #2 during the year ending September 30, 19 35

On the left bank of the West Fork of the San Gabriel River about 7 miles above junction of the East and West Forks.

Drainage area

40.8 square miles.

Channel and control

Channel composed of sand, gravel and boulders. No artificial control

Discharge measurements

At low flow by wading near station. At high flow from cable car just below station.

Recorder

Installed December 8, 1933 in a F. C. Standard type house over a corrugated iron pipe stilling well. An continuous recorder.

Regulation

Flow partially regulated by San Gabriel Dam No. 2.

Diversions

None

Records available

May 26, 1932 to December 8, 1933 stream measurements only. December 8, 1933 to September 30, 1936, recorder records.

Extremes of discharge

1933-34 Maximum 4400 second-feet January 1 Minimum not determined
1934-35 Maximum 1260 second-feet December 13 Minimum + second-foot September 20
1935-36 Maximum 45 second-feet February 17 Minimum .2 second-foot on several days in September

Accuracy

Fair. Inlet obstructed: September 11-13, 1935. August 27 and 28 estimated.

Operation

Located, constructed and operated by the Los Angeles County Flood Control District, for measuring outflow from San Gabriel Dam #2.

Main data table with columns: No., Date, Made by, Width Feet, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mean depth, G. H. change, Begin time, Meter No., and a list of gage numbers.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

1/2 mile below S. G. Dam #2 during the year ending September 30, 19 35

Detailed data table with columns: No., Date, Made by, Width Feet, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mean depth, G. H. change, Begin time, Meter No., and a list of gage numbers.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 209 B

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 209 B

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Discharge measurements of SAN GABRIEL RIVER - W. FORK

1/2 mile below S. G. Dam #2 during the year ending September 30, 1935

1/2 mile below S. G. Dam #2 during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, etc. It contains two main data sections for the year ending September 30, 1935.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Discharge measurements of SAN GABRIEL RIVER - W. FORK

1/2 mile below S. G. Dam #2 during the year ending September 30, 1935

1/2 mile below S. G. Dam #2 during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating, Method, Mean No., G. H. Change Total, Begin Meter No., End Meter No.

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating, Method, Mean No., G. H. Change Total, Begin Meter No., End Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

1/2 mile below S. G. Dam #2 during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating, Method, Mean No., G. H. Change Total, Begin Meter No., End Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R.

Discharge measurements of SAN GABRIEL RIVER - W. FORK

1/2 mile below S. G. Dam #2 during the year ending September 30, 1936

Table with columns: No., Date, Made by, W. Fork, Area of Section, Mean velocity, Stage, Discharge, Rating, Method, Mean depth, C. of discharge, Begin time, Meter No. Contains 80 rows of data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R.

Discharge measurements of SAN GABRIEL RIVER - W. FORK

1/2 mile below S. G. Dam #2 during the year ending September 30, 1936

Table with columns: No., Date, Made by, W. Fork, Area of Section, Mean velocity, Stage, Discharge, Rating, Method, Mean depth, C. of discharge, Begin time, Meter No. Contains 80 rows of data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK

Discharge measurements of SAN GABRIEL RIVER - W. FORK

at 1/2 mile below S. G. Dam #2 during the year ending September 30, 1936

at 1/2 mile below S. G. Dam #2 during the year ending September 30, 1936

Table with columns: No., Date, Made by, W. Ab. Foot, Area of Section Sq. Ft., Mean Velocity ft. per sec., Stage Height feet, Discharge CFS, Rating, Meas. No., G. H. Station Foot, Page No., Meter No. The table contains two columns of data, one for the left side of the station and one for the right side, with rows numbered 138 to 191.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK 1/2 mile below S. G. Dam #2 during the year ending September 30, 19 36

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 209 R

Discharge measurements of SAN GABRIEL RIVER - W. FORK 1/2 mile below S. G. Dam #2 during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height feet, Depth to center of section feet, Area of section above gage feet, Mean velocity above gage ft. per sec., Mean velocity below gage ft. per sec., Discharge CFS, Name of section, Remarks. Rows 245-301.

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height feet, Depth to center of section feet, Area of section above gage feet, Mean velocity above gage ft. per sec., Mean velocity below gage ft. per sec., Discharge CFS, Name of section, Remarks. Rows 302-320.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.2	1.8	3.4	14	23	19	15	41	15	13	7	2.0
2	1.5	1.5	2.4	13	22	20	17	35	15	10	7	1.8
3	1.5	1.5	2.4	11	20	37	17	28	15	10	10	1.8
4	2.2	2.8	2.8	21	38	25	17	29	15	11	7	1.8
5	2.2	2.8	2.8	22	31	21	17	25	15	11	6.5	2.4
6	2.2	2.8	2.8	19	25	23	17	21	14	10	6.5	2.4
7	2.2	1.6	2.5	14	14	23	17	21	14	10	6.5	2.4
8	2.2	1.6	1.1	56	184	28	594	26	14	10	6.5	2.4
9	2.2	1.6	1.1	89	103	24	274	21	14	9.5	5.5	2.4
10	2.2	1.6	1.1	101	84	21	188	22	14	10	5.5	2.4
11	2.2	1.6	1.1	70	65	20	168	27	14	10	4.6	2.4
12	2.2	1.6	1.1	37	65	20	168	27	14	10	4.6	2.4
13	2.2	1.6	1.1	55	77	21	211	25	13	10	4.6	2.4
14	2.2	1.6	1.1	66	47	60	21	63	25	13	10	4.6
15	2.2	1.6	1.1	166	2.0	62	24	55	22	13	10	4.6
16	2.2	1.6	1.1	56	59	59	22	49	25	13	9.5	4.6
17	2.2	1.6	1.1	28	22	27	46	17	13	9.5	4.6	4.6
18	2.2	1.6	1.1	48	48	48	17	13	9.5	4.6	4.6	4.6
19	2.2	1.6	1.1	25	75	43	17	28.4	20	12	9.5	4.6
20	2.2	1.6	1.1	23	40	17	7	21	13	9.5	4.6	4.6
21	2.2	1.6	1.1	20	58	31	20	9	22	13	8.5	2.0
22	2.2	1.6	1.1	44	34	20	11	20	12	8.5	2.0	2.0
23	2.2	1.6	1.1	42	34	20	11	20	12	8.5	2.0	2.0
24	2.2	1.6	1.1	15	40	29	26	12	18	12	8.5	2.0
25	2.2	1.6	1.1	12	27	24	14	17	11	11	2.6	2.2
26	2.2	1.6	1.1	10	26	26	14	17	11	11	2.6	2.2
27	2.2	1.6	1.1	32	27	24	14	17	11	11	2.6	2.2
28	2.2	1.6	1.1	32	27	24	14	17	11	11	2.6	2.2
29	2.2	1.6	1.1	29	19	28	14	17	11	11	2.6	2.2
30	2.2	1.6	1.1	28	19	28	14	17	11	11	2.6	2.2
31	2.2	1.6	1.1	24	24	24	17	15	11	7.5	2.0	2.0
1936	104.5	1682.7	1950	702	1869.4	786	399	888.5	1362.2	39.0		

Mean	5.14	5.48	54.2	68.1	82.6	62.0	55.4	15.2	9.21	4.59	1.80	
Accr. Part	515	207	3240	2780	1330	2440	1440	791	572	270	17	
Remarks:	+ Indicates discharge 0.05 sec. ft. or less.											

F. C. Dist. Form 10-11-34

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
2	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
3	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
4	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
5	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
6	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
7	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
8	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
9	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
10	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
11	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
12	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
13	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
14	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
15	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
16	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
17	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
18	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
19	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
20	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
21	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
22	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
23	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
24	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
25	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
26	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
27	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
28	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
29	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
30	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
31	0.0	0.0	0.0	1.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
1936	44.7	482	592	700.7	868.1	740.	600.	388.0	127.9	30.4		

Mean	0.56	1.49	1.55	1.91	24.2	28.0	24.7	19.4	10.9	4.12	0.98	0.51
Accr. Part	34	89.	96.	117	1390	1720	1470	1190	651	254	60	19
Remarks:	+ Indicates discharge 0.05 sec. ft. or less.											

F. C. Dist. Form 10-11-34

Station F63R
SAN GABRIEL RIVER at Whittier Blvd.

Location
On downstream side of Whittier Boulevard bridge near Pico.
This station is at or near the location of the station operated in 1923 by the State Division of Water Rights.

Drainage area
A natural split near Arrow Highway divides the San Gabriel River into 2 branches; the west branch, known as the Rio Honda, flows into the Los Angeles River; the east branch retains the name San Gabriel River.
The San Gabriel River drainage area above the split is 230 square miles; the San Gabriel River drainage area from the split to station F63R is 209 square miles.

Channel and control
Channel - sand and silt.
No artificial control.

Discharge measurements
At low flow by wading.
At high flow from cable car 500 feet below bridge.

Recorder
Installed in July, 1928, in a F. C. Standard type house over a corrugated iron pipe stilling well.
An continuous recorder.

Regulation
Flow partially regulated by San Gabriel Dam No. 2, Morris Dam, Big Dalton Dam, San Dimas Dam, Puddingstone Diversion, Puddingstone Dam, Live Oak Dam, and Thompson Creek Dam. San Gabriel Dam No. 1 was under construction but the 30 foot by-pass tunnel was open at all times, therefore, no regulation resulted.

Diversions
The City of Pasadena diverts water from the San Gabriel River. There are also several diversions for irrigation.

Records available
July 1928 to September 30, 1936. (For records prior to July 1928 see State Division of Water Rights Bulletins).

Extremes of discharge
1928-29
Maximum 297 second-feet March 10
Minimum no flow at various times during year.
1929-30
Maximum 5760 second-feet January 11
Minimum no flow at various times during year.
1930-31
Maximum 404 second-feet February 4
Minimum no flow at various times during year.
1931-32
Maximum 3830 second-feet February 9
Minimum no flow most of year.
1932-33
Maximum 1450 second-feet January 29
Minimum no flow most of year.
1933-34
Maximum 22000 second-feet January 1
Minimum no flow most of year.
1934-35
Maximum 5400 second-feet October 17
Minimum no flow most of year.
1935-36
Maximum 3400 second-feet February 12
Minimum no flow most of year.

Accuracy
Poor due to shifting control.
Recorder trouble October 17, 1934.
Inlet obstructed: December 15-20, 1934; March 4-6, 1935.
Clock stopped: January 7, 8, February 1-4, 1935.

Operation
Operated by the Los Angeles County Flood Control District in cooperation with U.S.G.S. Water Resources Branch. Located by State Division of Water Rights.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 62 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 62 R

Discharge measurements of SAN GABRIEL RIVER

at Whittier Blvd. during the year ending September 30, 1936

Discharge measurements of SAN GABRIEL RIVER

at Whittier Blvd. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating, Method, Mean sec. No., G. H. Rise Total, Begin Time, Meter No.

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating, Method, Mean sec. No., G. H. Rise Total, Begin Time, Meter No.

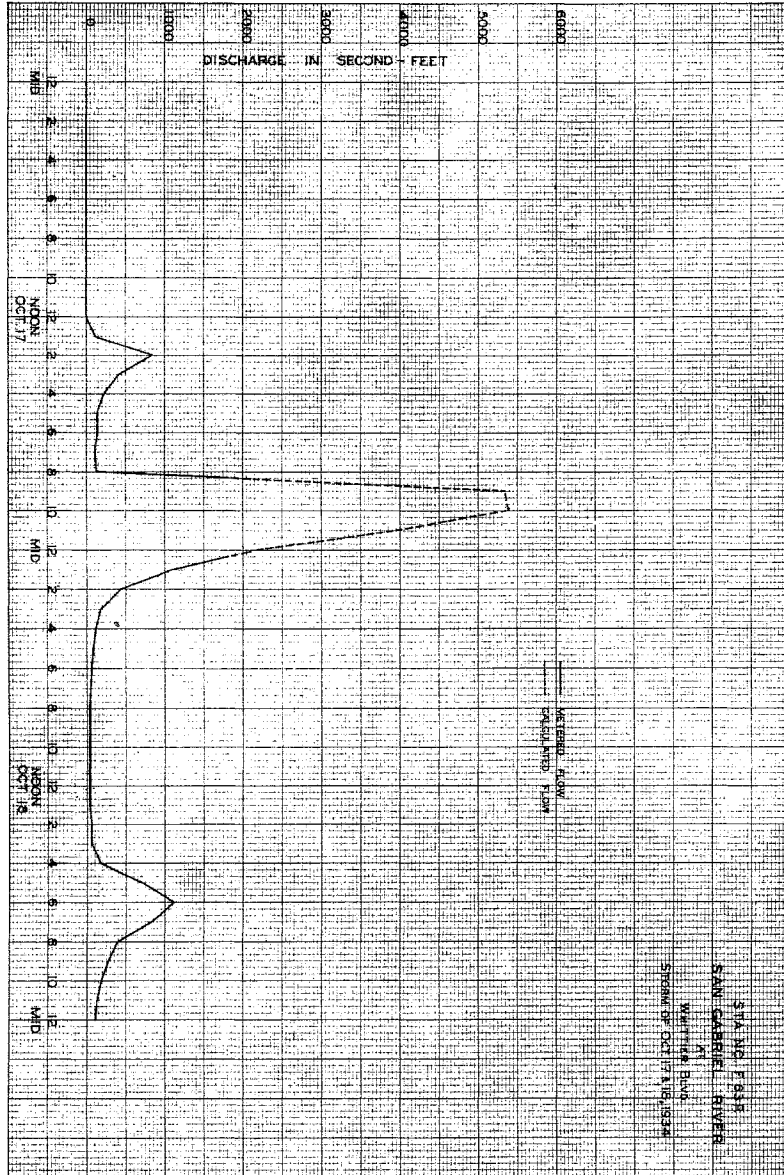
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 63 R

Discharge measurements of SAN GABRIEL RIVER

at Whittier Blvd. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating, Method, Mean sec. No., G. H. Rise Total, Begin Time, Meter No.



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 63 R**

Daily discharge, in second-feet of **SAN GABRIEL RIVER at Whittier Blvd.** for the year ending September 30, 19**36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	5.5	6	6.6	18	12	16	32	0	0	0	0
2	0	5.5	6.5	9	18	46	18	27	0	0	0	0
3	0	4.1	6	7.5	18	40	16	26	0	0	0	0
4	0	3.6	6	4.1	18	26	16	23	0	0	0	0
5	0	4.1	6	11.6	68	24	18	20	0	0	0	0
6	0	4.1	6	32	47	23	18	20	0	0	0	0
7	0	4.7	7.5	27	32	34	22	12	0	0	0	0
8	0	6	8.5	23	23	27	100	6.5	0	0	0	0
9	0	4.7	8.5	18	19	26	32	16	0	0	0	0
10	0	4.7	6.5	15	35	20	22	12	0	0	0	0
11	0	4.7	6	12	42	16	22	6	0	0	0	0
12	0	2.6	6.5	15	46	15	24	10	0	0	0	0
13	0		61.2	26	47	13	61	13	0	0	0	0
14	0	4.1	275	29	31	12	56	14	0	0	0	0
15	0	4.7	61	189	37	12	51	+	0	0	0	0
16	0	24	34	14	34	15	56	3.6	0	0	0	0
17	746	8.5	29	12	26	16	47	14	0	0	0	0
18	307	22	26	16	12	15	42	12	0	0	0	0
19	32	24	22	13	12	14	40	1.6	0	0	0	0
20	20	10	20	18	19	15	44	0	0	0	0	0
21	15	9	23	12	13	14	44	0	0	0	0	0
22	15	9	23	14	15	14	39	0	0	0	0	0
23	6	8.5	23	14	19	15	29	0	0	0	0	0
24	4.1	8.5	20	15	32	24	23	0	0	0	0	0
25	3.6	8.5	16	12	22	14	23	0	0	0	0	0
26	2.6	7.5	16	12	11	16	24	0	0	0	0	0
27	1.0	6.5	12	18	11	15	21	0	0	0	0	0
28	1.5	6.5	13	19	11	14	39	0	0	0	0	0
29	2.6	6	12	20	11	14	39	0	0	0	0	0
30	4.1	6	9	14		23	37	0	0	0	0	0
31	6		8.5	16		19		0	0	0	0	0
Total	1169.6	252.7	1324.5	770.1	724.	606.	1042.0	272.7	0	0	0	0

MEAN	37.7	7.76	42.7	24.8	26.9	19.5	34.7	9.80	0	0	0	0
ACRE-Feet	2320.	462.	2620.	1520.	1440.	1200.	2070.	541.	0	0	0	0

Remarks: + indicates discharge 0.05 sec. ft. or less.

YEAR MEAN **16.8**
ACRE-Feet **12,190.**

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F63R**

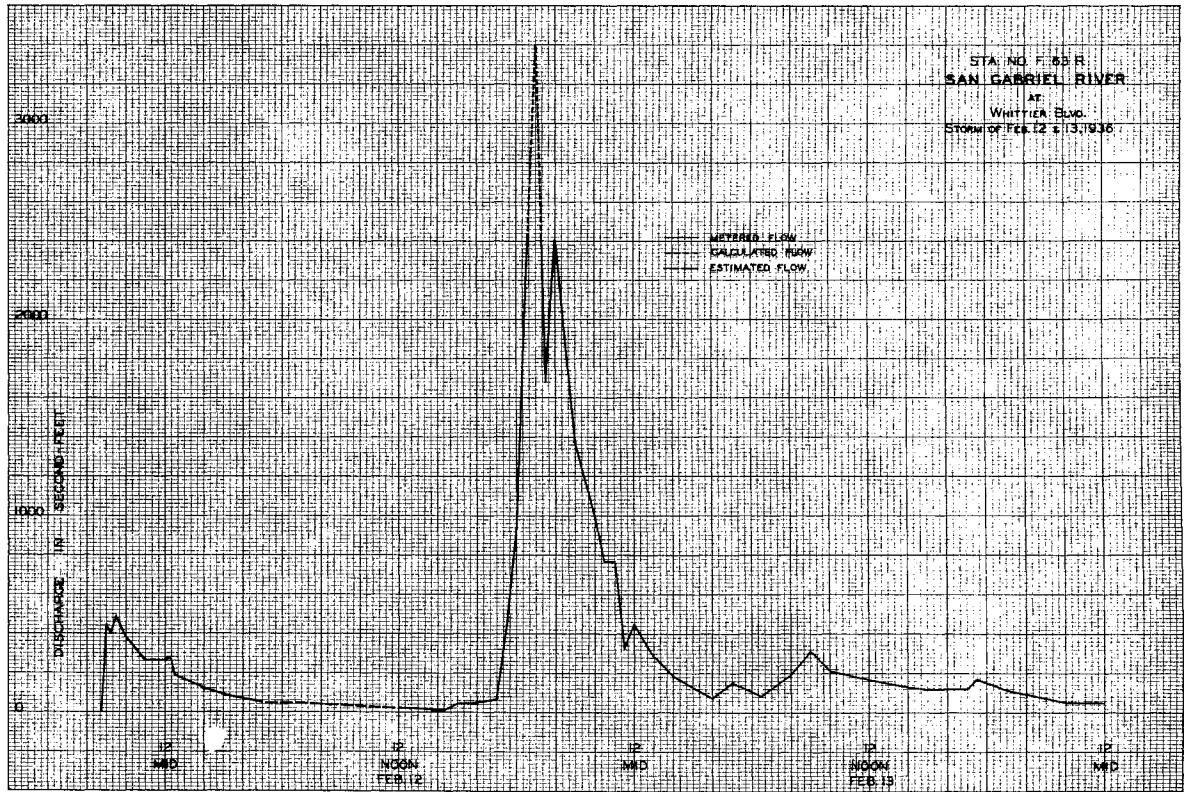
Daily discharge, in second-feet of **SAN GABRIEL RIVER at Whittier Blvd.** for the year ending September 30, 19**36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	21	21	0	0	0	0	0
2	0	0	0	0	1.5	21	21	0	0	0	0	0
3	0	0	0	0	11	17	28	0	0	0	0	0
4	0	0	0	0	6	17	45	0	0	0	0	0
5	0	0	0	0	0	17	42	0	0	0	0	0
6	0	0	0	0	0	15	28	0	0	0	0	0
7	0	0	0	0	0	15	17	0	0	0	0	0
8	0	0	0	0	0	13	13	0	0	0	0	0
9	0	0	0	0	0	12	13	0	0	0	0	0
10	0	0	0	0	0	12	13	0	0	0	0	0
11	0	0	0	0	4.4	12	15	0	0	0	0	0
12	0	0	0	0	13.5	13	15	0	0	0	0	0
13	0	0	0	0	15.5	13	22	0	0	0	0	0
14	0	0	0	0	3.5	15	42	0	0	0	0	0
15	0	0	0	0	15.4	17	22	0	0	0	0	0
16	0	0	0	0	22.3	19	12	0	0	0	0	0
17	0	0	0	0	38	17	12	0	0	0	0	0
18	0	0	0	0	42	22	7	0	0	0	0	0
19	0	0	0	0	15	15	0	0	0	0	0	0
20	0	0	0	0	15	17	0	0	0	0	0	0
21	0	0	0	0	12	13	0	0	0	0	0	0
22	0	0	0	0	10	13	0	0	0	0	0	0
23	0	0	0	0	9.2	17	0	0	0	0	0	0
24	0	0	0	0	9.2	17	0	0	0	0	0	0
25	0	0	0	0	1.5	22	0	0	0	0	0	0
26	0	0	0	0	1.5	19	0	0	0	0	0	0
27	0	0	0	0	15	19	0	0	0	0	0	0
28	0	0	0	0	21	17	0	0	0	0	0	0
29	0	0	0	0	21	17	0	0	0	0	0	0
30	0	0	0	0	21	21	0	0	0	0	0	0
31	0	0	0	0	33	33	0	0	0	0	0	0
Total	0	0	0	0	1337.5	524	449	0	0	0	0	0

MEAN	0	0	0	0	46.2	16.9	15.0	0	0	0	0	0
ACRE-Feet	0	0	0	0	2660	1040	891	0	0	0	0	0

Remarks:

YEAR MEAN **6.32**
ACRE-Feet **590.**



Station F46R
SAN JOSE CREEK at Workman Mill Road

Location
On downstream end of 1st pier from north end of bridge, about 3 miles north of Whittier. This station is at or near the location of the station operated in 1923 by the State Division of Water Rights.

Drainage area
85 square miles.

Channel and control
Channel - clay, sand and gravel.
No artificial control.

Discharge measurements
At low flows by wading near station.
At high flows from cable car 200 feet below station.

Recorder
Installed January 2, 1929 in a F. C. Standard type house over a corrugated iron pipe stilling well. An continuous recorder.

Regulation
Flow partially regulated by Thomson Creek Dam.

Diversions
Small diversion for spreading.

Records available
January 2, 1929 to September 30, 1936.
(For records prior to January 2, 1929 see State Division of Water Rights Bulletins)

Extremes of discharges
1928-29
Maximum 77 second-feet March 10
Minimum no flow at various times during year
1929-30
Maximum 264 second-feet January 15
Minimum no flow at various times during year

1930-31
Maximum 323 second-feet February 4
Minimum + June 2 and 7
1931-32
Maximum 1540 second-feet February 9
Minimum .1 second-foot September 17
1932-33
Maximum 825 second-feet January 29
Minimum + at various times during year
1933-34
Maximum 13,100 second-feet January 1
Minimum no flow at various times during year
1934-35
Maximum 2,450 second-feet October 17
Minimum no flow September 14
1935-36
Maximum 1,010 second-feet February 12
Minimum no flow various days of year

Accuracy
Fair
Gaged: October 19, December 15-17, 1934; February 14, 19, 20, 1936.
Clock stopped: May 9-15, September 23-26, 1935.
Estimated: April 9-16, 1935.

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 48 R

Discharge measurements of SAN JOSE CREEK at Workman Mill Road during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, G. H. change, Begin time, Meter No. Contains 48 rows of data for 1935.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 48 R

Discharge measurements of SAN JOSE CREEK at Workman Mill Road during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, G. H. change, Begin time, Meter No. Contains 15 rows of data for 1936.

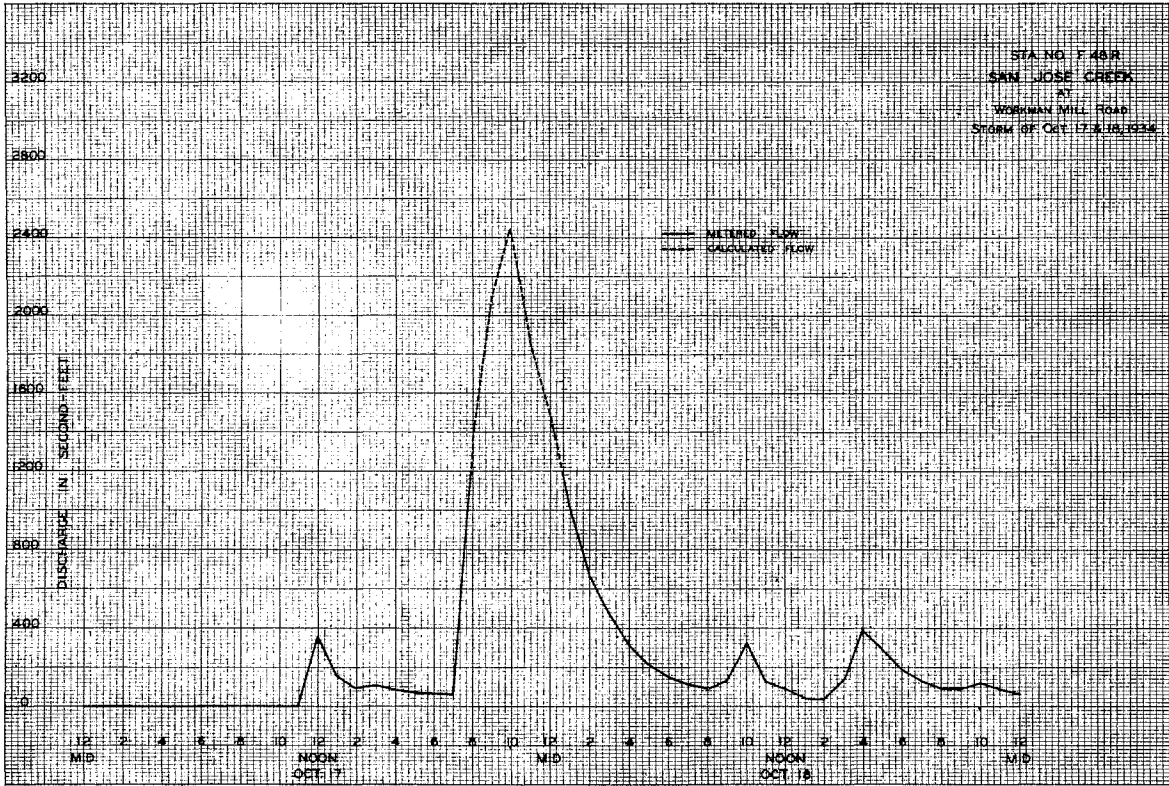
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 48 R

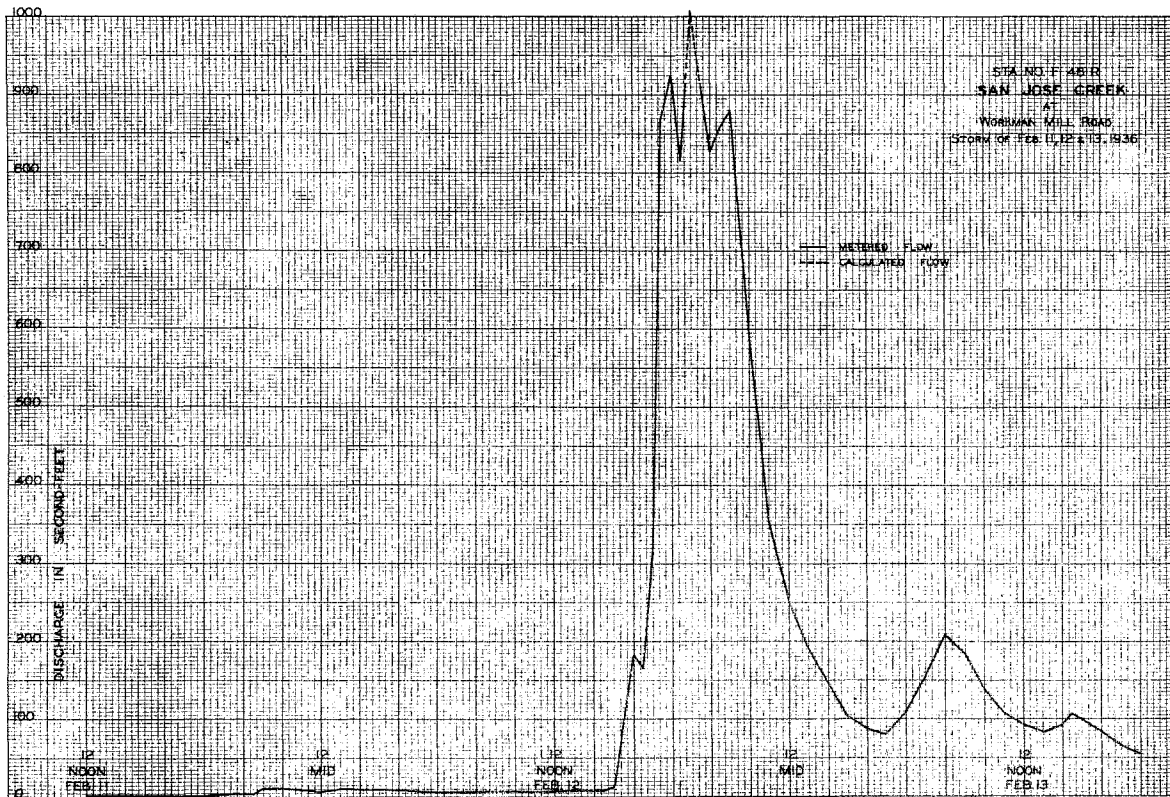
Discharge measurements of SAN JOSE CREEK at Workman Mill Road during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, G. H. change, Begin time, Meter No. Contains 24 rows of data for 1936.

REPORT & MAPS CO., S. E. WAHWAH,
ID., U. S. DEPT. OF AGR.



REPORT & MAPS CO., S. E. WAHWAH,
ID., U. S. DEPT. OF AGR.



Discharge measurements of **SANTA ANITA CREEK**
 Marshall flume below Santa Anita Dam during the year ending September 30, 1956

No.	Date	Kind of	Stage Feet	Point Gage No.	Mean Stage Feet	Discharge CFS	Rating Curve No.	Mean Stage Feet	Discharge CFS	Rating Curve No.	Mean Stage Feet	Discharge CFS	Rating Curve No.	Mean Stage Feet	Discharge CFS	Rating Curve No.
16	1/23	"	4.0	.82	1.12	.26	0.90	.6	5	0	1155A	PO 26				
17	1/30	"	1.5	.22	.77	.06	0.17	.6	3	0	1153A	"				
18	2/6	"	5.2	1.69	1.64	.44	2.6	.6	5	-	01133A	"				
19	2/13	Monday - Wall	6.7	6.21	3.53	1.16	30.	.6	7	0	1105B	"				
20	2/18	"	5.0	6.89	7.45	1.76	51.	.6	5	-	01102A	"				
21	2/20	Monday	6.6	4.85	3.66	.66	16.	.6	7	+	03105A	"				
22	2/27	"	6.5	4.75	3.30	.60	16.	.6	7	0	1120A	"				
23	3/5	"	6.5	2.19	2.56	.43	5.6	.6	7	-	01020A	"				
24	3/12	"	6.5	2.04	2.71	.43	5.5	.6	7	-	1100A	"				
25	3/20	Monday	4.5	1.62	2.51	.31	4.1	.6	7	0	1152A	PO 26				
26	3/27	"	4.5	1.41	1.82	.24	2.6	.6	6	0	1151A	"				
27	4/2	"	4.6	1.45	1.82	.23	2.6	.6	6	0	1151A	"				
28	4/8	"	5.3	2.03	2.77	.44	5.6	.6	6	0	1151A	"				
29	4/16	"	4.6	1.53	2.34	.26	3.6	.6	5	0	1107A	"				
30	4/23	"	4.6	1.57	2.27	.27	3.6	.6	6	+	0125A	"				
31	4/30	"	4.5	1.62	1.94	.27	3.2	.6	7	0	1151A	"				
32	5/7	"	3.6	1.42	2.47	.27	3.5	.6	5	0	1152A	"				
33	5/14	"	3.55	1.44	2.34	.26	3.5	.6	5	0	1152A	"				
34	5/21	"	3.1	1.05	1.90	.39	2.0	.6	6	0	1152A	"				
35	5/29	Dalton	3.0	1.15	1.66	.40	1.9	.6	3	0	1152A	PO 2				
36	6/4	Monday	3.0	1.08	2.00	.40	2.2	.6	4	0	1152A	PO 26				
37	6/11	"	2.95	1.09	2.00	.40	2.2	.6	6	0	1106	"				
38	6/12	Dalton	3.0	.98	2.36	.41	2.3	.6	6	-	1100A	PO 2				
39	6/18	Monday	2.95	1.06	1.98	.40	2.1	.6	6	0	1106	PO 26				
40	6/26	Dalton	3.0	.98	2.34	.40	2.3	.6	6	-	1100A	PO 2				
41	7/1	President	4.0	1.66	1.84	.42	3.4	.6	4	0	1107	PO 2				
42	7/10	Dalton	3.0	1.13	2.06	.40	2.4	.6	6	0	1107	PO 2				
43	7/16	Monday	2.95	1.05	1.94	.40	2.0	.6	6	0	1107	PO 2				
44	7/24	"	3.0	1.12	1.91	.41	2.1	.6	6	-	1104	PO 2				
45	7/30	Monday-Thompson	2.95	1.11	1.97	.40	2.2	.6	6	0	1103A	PO 26				
46	8/7	Dalton	2.0	.8	2.49	.41	2.0	.6	4	-	1103A	PO 2				
47	8/13	Monday	2.87	1.14	1.95	.41	2.2	.6	6	0	1104	PO 26				
48	8/26	"	2.95	1.07	1.98	.41	2.1	.6	6	0	1104	"				
49	9/14	Dalton	2	.72	2.67	.41	1.9	.6	4	-	115A	PO 2				
50	9/10	Monday	2.95	1.08	2.04	.41	2.2	.6	6	0	115A	PO 26				
51	9/16	Dalton	2	.72	2.58	.41	1.8	.6	4	-	115A	PO 2				
52	9/24	Monday	2.95	1.08	2.03	.40	2.2	.6	6	0	115A	PO 26				

F. C. Dist. Form 37

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. **F119R**

Daily discharge, in second-foot of **SANTA ANITA CREEK** Marshall flume below Santa Anita Dam, for the year ending September 30, 1956

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
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												
106												

MAX	3.44	2.41	1.05	0.54	15.5	4.74	3.42	2.71	2.11	2.15	2.19	2.20
ACT. PART	212	143	65	34	890	291	204	167	132	135	131	131

Remarks + Indicates discharge 0.05 second-foot or less.

YEAR 1956
 MAX 3.48
 ACT. PART 2330

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 21 R

Station F21R

SANTA ANITA CREEK 1/4 mile below Santa Anita Dam

Discharge measurements of SANTA ANITA CR.

Location

On east bank of stream in Santa Anita Canyon, about 1/4 mile below Santa Anita Dam and 4 miles north of Arcadia.

Drainage Area

11.2 square miles.

Channel and control

Channel - Sand, rock and gravel. Control - 35 foot concrete control with 24 inch Cippoletti Weir 12 inches deep, located 18 feet below recorder house. On September 15, 1934 the control was built 1 foot higher, the Cippoletti Weir was closed, and an opening was left on the recorder side of the control about 1 foot deep. The station became blocked with debris on April 8, 1935 and remained blocked until the station was abandoned.

Discharge measurements

At low flows by wading. At high flows from gaging bridge 15 feet above station.

Recorder

Installed August 19, 1927 in concrete house, over a concrete stilling well. An continuous recorder. Last recorder record May 15, 1935.

Regulation

Flow regulated by Santa Anita Dam.

Diversions

None.

Records available

August 19, 1927 to April 7, 1935. Subsequent to April 7, 1935 several discharge measurements were made each month.

Extremes of discharge

1927-28 Maximum 16 second-feet February 5 Minimum .2 second-foot January 26-30

1928-29 Maximum 10 second-feet September 11 Minimum .2 second-foot January 26

1929-30 Maximum 3.6 second-feet April 12 Minimum .2 second-foot at various times during the year.

1930-31 Maximum 9 second-feet February 20 Minimum .2 second-foot April 5

1931-32 Maximum 11.2 second-feet December 28 Minimum .3 second-foot February 2

1932-33 Maximum Not determined Minimum Not determined

1933-34 Maximum 4.1 second-feet January 1 Minimum .1 second-foot September 10 and 11

1934-35 Maximum Not determined Minimum .1 second-foot January 7

Accuracy

Poor. November 17-19, 1934 interpolated. April 8-11, 1935 estimated from discharge measurements and dam release. April 12, 1935 to September 30, 1935 estimated from discharge measurements.

Operation

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 21 R

Discharge measurements of SANTA ANITA CR.

1/4 mi. below Santa Anita Dam during the year ending September 30, 1935

Table with columns: No., Date, Made by, Weir Feet, Area of Section, Mean Velocity, Gate Height, Discharge, Rating, Method, Mean Stage, G. H. Stage, Stage, Meter No. Contains detailed discharge data for various dates from 1927 to 1935.

Summary table with columns: No., Date, Made by, Weir Feet, Area of Section, Mean Velocity, Gate Height, Discharge, Rating, Method, Mean Stage, G. H. Stage, Stage, Meter No. Contains a subset of data from the main table.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F 21 E**

Daily discharge in second-feet of **SANTA ANITA CR. 1/2 mi. below Santa Anita Dam** for the year ending September 30, 19**35**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.8	4.7	1.4	6.5	9.5	5.5	5.5	16	5.5	5.0	2.5	2.4
2	1.8	4.5	1.4	6.5	6	5.5	5.5	12	5.5	3.2	2.4	2.4
3	1.8	4.1	1.7	7	4.9	8	5.5	12	5.5	3.1	2.5	2.4
4	2.0	3.8	1.3	7.5	3.8	5.5	5.5	10	5.5	3.0	2.5	2.4
5	2.0	3.0	1.0	5.5	4.8	5.2	5.5	8	5.5	2.9	2.7	2.4
6	1.8	2.1	1.1	2.4	4.3	2.6	5.5	8	5.5	2.8	2.9	2.5
7	1.8	2.1	1.7	.1	.2	7.5	5.5	8	5.5	2.7	2.8	2.5
8	1.7	2.1	2.0	6	.2	10	90	8	5.5	2.5	2.8	2.5
9	1.7	2.1	2.4	11	.2	10	40	8	5.5	2.5	2.8	2.5
10	1.8	2.1	2.4	6.5	.2	9.5	25	8	5.5	2.5	2.7	2.5
11	1.7	2.1	4.7	6.5	.2	7.5	27	8.5	5.5	2.5	2.7	2.5
12	1.7	2.1	3.9	12	.2	5.5	16	8.5	5.5	2.5	2.7	2.5
13	1.6	2.1	2.0	10	.2	5.5	15	8.5	5.5	2.6	2.6	2.5
14	1.6	2.1	18	8	1.4	5	12	9	5.5	2.6	2.6	2.5
15	1.6	2.0	16	1.1	2.4	5	18	9	5.5	2.7	2.6	2.5
16	1.4	1.3	14	6.5	2.4	4.5	18	9	5.5	2.7	2.5	2.5
17	2.0	2.0	14	15	2.5	4.1	16	9	5.5	2.8	2.5	2.5
18	3.6	2.1	14	12	2.6	4.5	15	9	5	2.8	2.5	2.5
19	3.5	2.1	14	5.5	2.7	4.5	15	9	5	2.8	2.5	2.5
20	2.7	2.1	15	8.5	2.7	4.5	15	7.5	5	2.7	2.5	2.5
21	4.5	2.1	8	10	2.7	4.5	15	6	5	2.7	2.5	2.5
22	2.7	2.0	2.5	11	2.7	4.9	10	6	5	2.6	2.5	2.5
23	3.0	2.3	1.6	12	2.9	5.5	8.5	6	5	2.6	2.4	2.5
24	3.2	2.2	7	14	2.9	11	8	6	5	2.5	2.4	2.5
25	5	2.9	12	15	3.0	9.5	8	6	2.5	2.5	2.4	2.5
26	5.5	2.9	8.5	15	2.7	7.5	8	6	1.9	2.5	2.4	2.5
27	5.5	2.6	6.5	14	3.0	7	8	6	1.9	2.4	2.4	2.5
28	5.5	2.0	1.2	14	3.0	5.5	8	6	2.2	2.4	2.4	2.5
29	5.5	1.6	3.5	14		5.5	11	6	2.5	2.4	2.4	2.5
30	5	1.5	6.5	13		5.5	18	5.5	2.8	2.5	2.4	2.5
31	4.9		6.5	13		5.5		5.5		2.5	2.4	
94.9 73.5 196.9 290.1 66.4 187.9 472. 250. 143.4 82.2 75.7 76.7												
MEAN	3.06	2.45	6.35	9.26	8.37	6.05	15.7	8.06	4.78	2.65	2.54	2.56
ACR-PEAK	188.	146.	391.	575.	132.	272.	226.	435.	224.	163.	156.	152.

Remarks: * indicates discharge 0.05 sec. ft. or less

YEAR MEAN 6.51
ACR-PEAK 3990.

Station F193R

SANTA ANITA WASH below Arrow Highway

Location

On east bank of Santa Anita Wash, 1000 feet below Arrow Highway and about 2 miles southeast of Arcadia

1935-36

Maximum 31 second-feet February 16
Minimum no flow most of year

Drainage area

21.1 square miles.

Accuracy

Poor.
Estimated February 1, 2, 9, 1936

Channel and control

Channel - sand and gravel
No artificial control

Operation

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

Discharge measurements

At low flow by wading near station
At high flow from foot bridge 15 feet above station.

Recorder

Installed April 25, 1932 in a box type house over a corrugated iron pipe stilling well.
Rational vertical recorder

Regulation

Flow partially regulated by Big Santa Anita Dam and Sierra Madre Dam.

Diversions

Some water diverted for irrigation and spreading.

Records available

April 25, 1932 to September 30, 1936.

Extremes of discharge

1932-33
Maximum not determined
Minimum no flow most of year
1933-34
Maximum 399 second-feet January 1
Minimum no flow most of year
1934-35
Maximum 197 second-feet April 8
Minimum no flow most of year

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 195 R**

Discharge measurements of **SANTA ANITA WASH**

at Below Arrow Highway during the year ending September 30, 19 **35**

No.	Date	Made by	Width Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Open height feet	Discharge Sec.-ft.	Rating Program	Method	Mess. No.	G. H. change feet	Stage feet	Meter No.
1	1934 10/17	Cole - Hofmann	5.0	1.10	1.27	2.42	1.5		.6	5	0	1220P	
2	11/16	"	2.4	0.88	1.16	2.40	.44		.6	5	-02	150A	FC 11
3	12/15 1935	"	4.0	0.73	1.60	2.41	1.2		.6	5	-02	155A	FC 28
4	1/5	"	12.0	2.81	2.22	2.58	2.5		.6	7	-01	555P	"
5	1/15	"	5.0	1.58	1.87	2.44	5.0		.6	5	-08	565A	"
6	1/15	"	25.0	8.68	2.26	2.78	20.		.6	7	-05	1002P	"
7	2/7	"											
8	2/2	"				2.29		Est.					
9	4/8	"	24.0	15.6	4.53	2.92	71.		.6	8	-02	410P	FC 11
10	4/8	R. Lindsay	25.0	11.1	4.87	2.80	54.		.6	6	0	720A	FC 21
11	4/9	"	24.5	11.1	4.81	2.88	55.		.6	9	-02	800A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 193 R**

Discharge measurements of **SANTA ANITA WASH**

at Below Arrow Highway during the year ending September 30, 19 **36**

No.	Date	Made by	Width Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Open height feet	Discharge Sec.-ft.	Rating Program	Method	Mess. No.	G. H. change feet	Stage feet	Meter No.
1	2-11	W.E. Cole	5.0	.74	1.20	2.43	.90		.6	5	0	815P	FC 7
2	2-13	Lindsay-Wall	23.0	3.35	1.63	2.54	5.5		.6	9	0	150A	FC 28
3	2-13	Cole	23.5	4.36	2.06	2.56	9.0		.6	9	0	1000A	FC 7
4	2-14	Lindsay-Wall	11.5	2.27	2.03	2.57	4.6		.6	7	0	1020A	FC 28
5	2-14	Cole-Mills	17.0	2.88	1.80	2.59	5.2		.6	5	-	657P	FC 7
6	2-14	"	21.0	5.77	2.43	2.68	14.		.6	8	0	1100P	"
7	2-15	Lindsay				2.50	1.0	Est.					
8	2-16	Cole	24.5	8.67	3.09	2.77	27.		.6	10	-04	820A	FC 7
9	2-16	Cole, W.E.-L.A. Cole	24.0	6.60	2.58	2.67	17.		.6	9	-01	1035A	"
10	2-17	Lindsay	19.5	5.32	2.96	2.62	16.		.6	8	0	1050A	FC 28
11	2-18	Cole	23.5	6.54	2.72	2.65	18.		.6	9	0	855A	FC 7
12	2-18	"	16.6	4.40	2.46	2.61	11.		.6	7	-	1155A	"
13	2-23	W.E. Cole-L.A. Cole	20.5	4.60	2.48	2.63	11.		.6	8	-02	155A	"
14	2-28	Lindsay	4.1	1.32	2.42	2.55			.6	5	0	900A	FC 28
15	3-31	Cole				2.53	2.5	Est.					235A
16	4-4	Cole-Lenniston					1.	Est.					210A

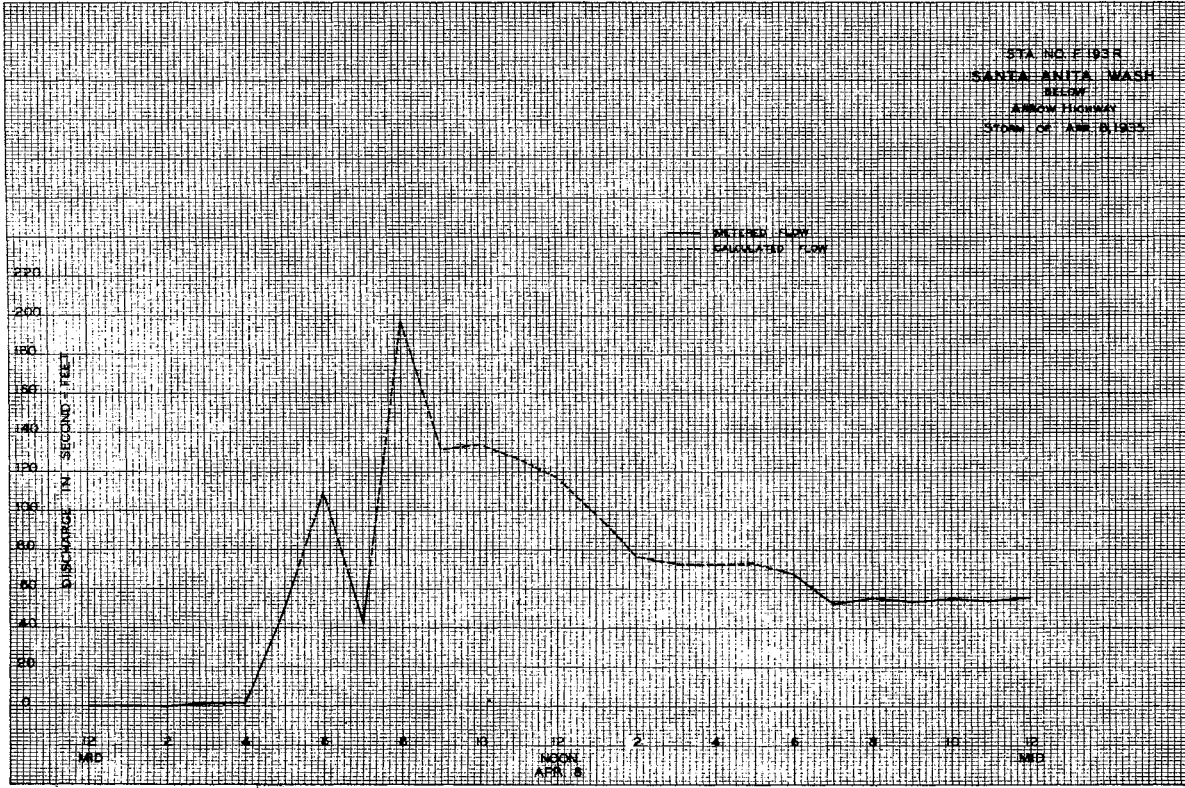
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Station No. **F 193 R**

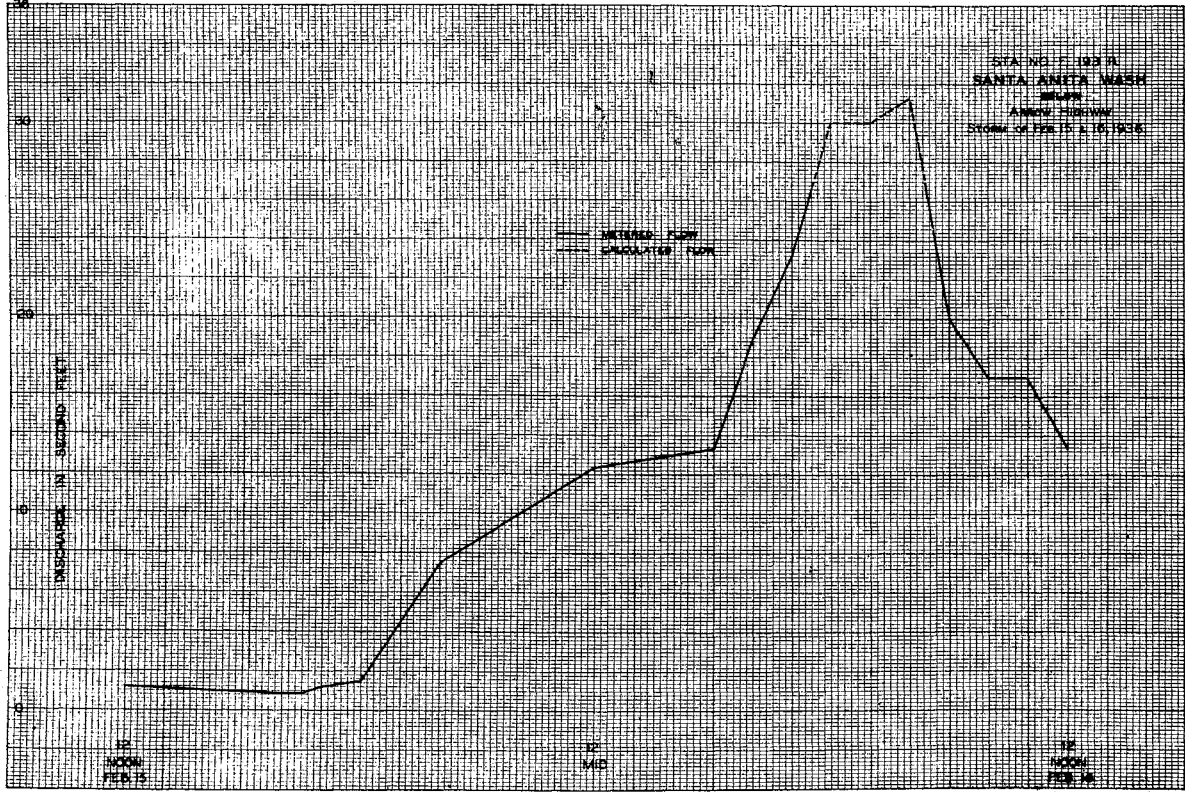
Daily discharge in second-feet of **SANTA ANITA WASH Below Arrow Highway** for the year ending September 30, 19 **36**

Day	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
Day	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
Discharge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept																						
Year	1936																														
Remarks	+ Indicates discharge 0.05 second-feet or less.																														

ENGINEER & ARCHITECTS, INC. 1000 MARKET STREET, SAN FRANCISCO, CALIF.



ENGINEER & ARCHITECTS, INC. 1000 MARKET STREET, SAN FRANCISCO, CALIF.



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 92 R

Station F92R

Discharge measurements of SANTA CLARA RIVER

SANTA CLARA RIVER at old highway bridge 4 mi. W. of Saugus

at old highway bridge 4 mi. W. of Saugus during the year ending September 30, 1935

Location

On downstream end of south abutment of abandoned highway bridge.

Drainage area

355 square miles

Channel and control

Silt and fine sand
No artificial control

Discharge measurements

At low flows by wading
At high flows from cable car at bridge site.

Recorder

Installed January 18, 1930 in a F. C. Standard type house over a corrugated iron pipe stilling well.

Regulation

Slightly regulated by Bouquet Canyon and Dry Canyon Reservoirs

Diversions

A small diversion for irrigation near Lang

Records available

Recorder records from January 18, 1930 to September 30, 1936
Some weekly stream measurements were taken prior to January 18, 1930.

Extremes of discharge

1929-30
Maximum 193 second-feet March 15
Minimum + July 16

1930-31
Maximum 2310 second-feet February 17
Minimum .1 second-foot July 2, 3 and 4

1931-32
Maximum 2090 second-feet February 9
Minimum .1 second-foot September 22

1932-33
Maximum 618 second-feet January 19
Minimum no flow August 10

1933-34
Maximum 3670 second-feet January 1
Minimum + at various times during year

1934-35
Maximum 608 second-feet January 5
Minimum no flow at various times during year

1935-36
Maximum 833 second-feet February 23
Minimum no flow at various times June to September

Accuracy

Poor.
For greater part of time discharges are estimated. Except during high flows, the communication channel silts up almost immediately after it is opened up. During high flows due to rapidly shifting control, almost continuous measurements would be necessary for satisfactory results.

Operation

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

F. C. D. Form 104 (M 11-35)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 92 R

Discharge measurements of SANTA CLARA RIVER

at old highway bridge 4 mi. W. of Saugus during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating Gage	Method	Max. No.	C. H. Change Feet	Begin Time	Hour
1	1934 10/4	Luce	1.5	.14	.50	15.04	.07	.6	5	0		1200A	FC 13
2	10/15	"	4.5	.38	.97		.36	.6	8	-		1200A	"
3	10/24	"	2.8	.15	.56	12.78	.08	.6	6	0		1200A	"
4	11/1	"	.83	.19	.86	12.85	.07	.6	4	0		1200A	"
5	11/16	"	5.1	.46	.74	12.91	.38	.6	11	0		1200A	"
6	11/19	- Miller	25.5	3.55	5.68	12.84	81.	.6	17	0		1200A	"
7	11/30	"	3.0	.32	.65	12.86	.21	.6	8	0		1200A	"
8	12/7	"	3.4	.28	.61	12.85	.17	.6	6	0		1200A	"
9	12/18	- Miller	18.5	5.05	5.15	12.00	19.	.6	10	0		1200A	"
10	12/20	"	4.8	.42	.76	15.16	.32	.6	8	0		1200A	"
11	12/24 1935	"	4.0	.57	.70	15.14	.26	.6	6	0		1200A	"
12	1/10	- Miller	4.0	.36	.72	13.57	.26	.6	6	0		1200A	"

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating Gage	Method	Max. No.	C. H. Change Feet	Begin Time	Hour
13	1/16	"	3.0	.36	1.25		.45	.6	4	-		1135A	"
14	1/24	"	2.5	.29	.72	0	.21	.6	7	-		1135A	"
15	1/31	- Livingstone	3.3	.33	.82		.27	.6	6	-		1135A	"
16	2/8	"	2.0	.38	.9	Sand	.34	.6	4	-		1135A	"
17	2/14	- Miller	3.5	.43	.70	12.57	.30	.6	4	0		1135A	"
18	2/20	"	2.6	.29	.76		.22	.6	5	-		1135A	"
19	2/28	"	4.2	.54	.86		.46	.6	7	-		1135A	"
20	3/2	- Miller	41.5	14.49	3.28	13.65	48.	.6	16	0		1135A	"
21	3/12	"	4.0	.43	.79	13.57	.34	.6	5	0		1135A	"
22	3/29	"	4.6	.48	.77	13.58	.37	.6	4	0		1135A	"
23	4/8	"	45.0	25.14	4.16	13.94	96.	.6	15	-0.8		1135A	"
24	4/10	"	4.0	.46	1.22	13.64	.55	.6	4	0		1135A	"
25	4/19	Inoe	3.0	.46	1.48	13.60	.70	.6	5	0		1135A	FC 13
26	5/9	"	2.0	.38	1.06	13.57	.35	.6	4	0		1135A	"
27	6/7	"	2.5	.27	1.03	13.60	.28	.6	4	0		1135A	"
28	7/5	"	1.7	.12	.58	13.59	.07	.6	3	0		1135A	"
29	7/11	"	1.9	.23	.74	13.00	.17	.6	4	0		1135A	"
30	7/25	"	1.4	.11	.72	12.27	.08	.6	3	0		1135A	"
31	9/6	"	1.6	.08	.38		.03	.6	2	-		1135A	"
32	9/12	"	1.0	.07	.14		.01	.6	2	-		1135A	"

F. C. D. Form 104 (M 11-35)

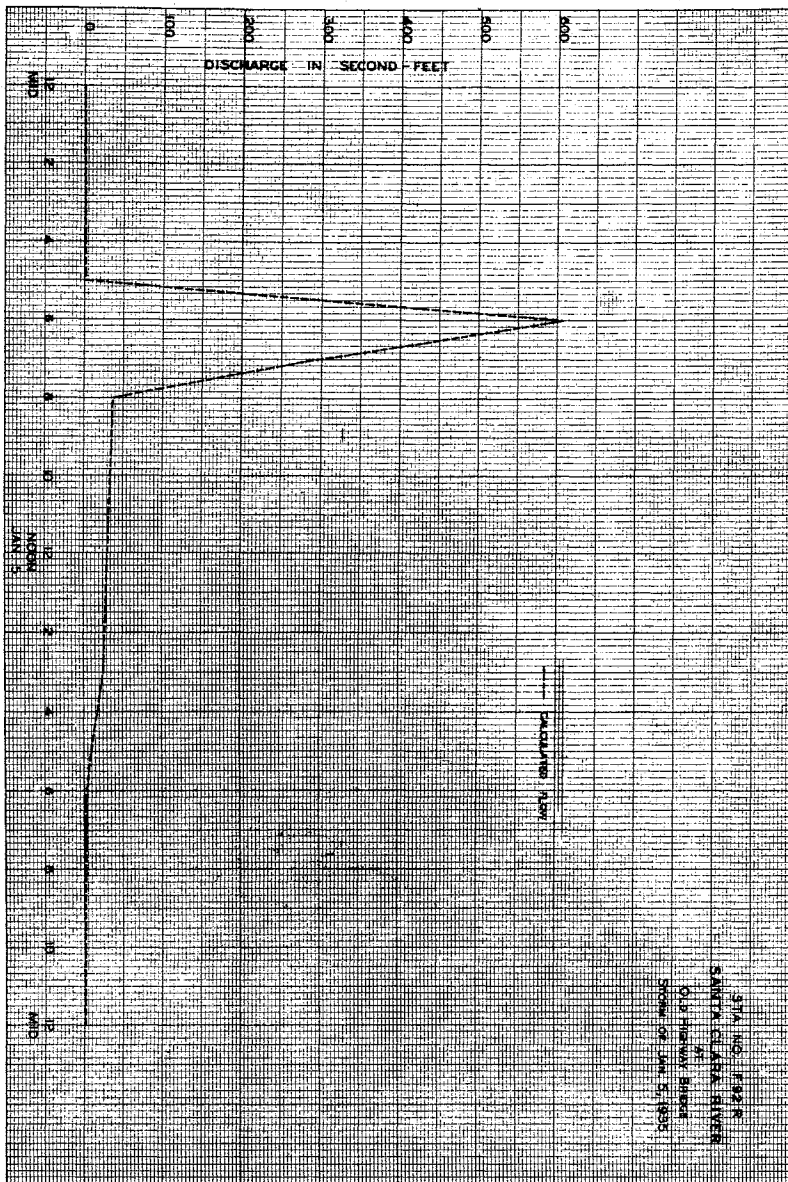
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 92 R

Discharge measurements of SANTA CLARA RIVER

at old highway bridge 4 mi. W. of Saugus during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating Gage	Method	Max. No.	C. H. Change Feet	Begin Time	Hour
1	10-3	Luce	1.0	.06	.33		.02	.6	2			1200A	FC 13
2	11-13	"	1.5	.17	.76		.13	.6	3			1200A	"
3	12-19	Luce-Miller	2.0	.31	.68		.21	.6	4			1200A	"
4	1-17	Luce	2.0	.24	.83		.20	.6	4			1200A	"
5	2-2	Miller-Livingston	19.5	5.19	2.04	13.80	11.	.6	10	0		1200A	FC 13
6	2-3	Miller	2.5	.18	.83	13.80	.15	.6	5	0		1200A	"
7	2-11	Miller-Livingston	15.5	4.05	1.79	13.85	7.3	.6	9	-1.0		1200A	"
8	2-12	Bush-Luce	93.0	116.	6.21	14.19	721.	.6	14	-0.8		1200A	FC 25
9	2-13	Luce-Miller	9.7	2.69	1.93	13.92	5.0	.6	7	0		1200A	FC 13
10	2-14	Luce	47.0	30.9	4.42	14.14	137.	.6	12	0		1200A	"
11	2-16	Miller-Livingston	2 channels			13.85	64.	.6	16	0		1200A	FC 35
12	2-17	Miller	17.5	8.37	3.63	13.93	30.	.6	10	0		1200A	"
13	2-23	Luce-Miller	46.0	27.1	4.16	14.14	113.	.6	11	-0.1		1200A	FC 13
14	2-23	"	2 channels			14.06	32.	.6	12	0		1200A	"
15	2-24	Miller	33.0	14.1	3.13	14.03	44.	.6	12	0		1200A	FC 35
16	2-28	Luce	2 channels			13.99	37.	.6	14	0		1200A	FC 13
17	3-12	"	2 channels			13.97	.40	.6	6	0		1200A	"
18	3-26	"	2 channels			13.98	.40	.6	6	0		1200A	"
19	3-31	Luce-Bush	14.0	3.29	1.83	14.00	6.0	.6	7	0		1200A	"
20	4-1	Livingston	3.5	.66	.60	14.10	.40	.6	4	0		1200A	"
21	4-16	Luce	3.1	.35	.69	14.02	.24	.6	6	0		1200A	"
22	5-8	"	2.2	.48	.35	14.10	.17	.6	4	0		1200A	"
23	5-21	"	2.0	.44	.34	14.09	.15	.6	4	0		1200A	"
24	5-28	"	1.9	.35	.34	14.07	.12	.6	4	0		1200A	"
25	6-11	Luce	1.4	.11	.45		.05	.6	2			1200A	FC 13
26	8-14	"					No Flow					1145A	"



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 92 R

Daily discharge, in second-feet of SANTA CLARA RIVER at old highway bridge 4 mi. W. of Saugus for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	.1	.1	.2	.1	.3	.6	.4	.5	.2	.3	.1	+
2	.1	.1	.2	.1	.3	89	.4	.5	.3	.3	.1	+
3	.1	.1	.2	.1	.3	4.6	.4	.4	.2	.2	.1	+
4	.1	.1	.2	.2	.6	21.0	.4	.4	.2	.2	.1	+
5	.1	.1	.2	50	1.4	1.6	.3	.4	.2	.2	.1	+
6	.1	.1	.2	1.7	1.6	.9	.4	.4	.3	.2	.1	+
7	.1	.1	.2	1.0	.6	12	.4	.4	.3	.2	.1	+
8	+	.1	.7	.2	.3	1.5	17	.4	.3	.2	.1	+
9	+	.1	.3	.5	.3	.3	.7	.4	.2	.2	.1	+
10	+	.1	.3	.2	.3	.3	.7	.4	.2	.2	.1	+
11	+	.1	.3	.2	.3	.3	.7	.4	.2	.2	.1	+
12	+	.2	.3	.2	.3	.3	.7	.4	.2	.2	.1	+
13	.1	.2	39	.2	.3	.4	.8	.4	.3	.2	.1	+
14	.1	.2	61	.2	.3	.4	.6	.4	.3	.2	.1	+
15	.1	1.2	1.0	18	.2	.4	.6	.4	.3	.2	.1	+
16	.1	6.8	.1	.6	.4	.4	.6	.4	.3	.2	.1	+
17	2.0	.3	.6	.4	.2	.4	.6	.2	.3	.1	.1	+
18	.3	.2	.5	.4	.2	.4	.5	.2	.3	.1	.1	+
19	.2	6.5	.4	.4	.2	.4	.7	.2	.2	.1	+	+
20	.1	.2	.2	.2	.2	1.2	.4	.2	.2	.1	+	+
21	.1	.2	.3	.3	10	.4	.6	.2	.2	.1	+	+
22	.1	.2	.3	.3	71	.4	.6	.2	.2	.1	+	+
23	.1	.2	.3	.2	82	.5	.6	.2	.2	.1	+	+
24	.1	.2	.2	.2	37	.5	.5	.2	.2	.1	+	+
25	.1	.2	.2	.2	1.2	.5	.4	.2	.2	.1	5.2	+
26	+	.2	.2	.2	.6	.3	.6	.3	.2	.1	+	+
27	+	.2	.2	.2	.5	.4	.6	.2	.2	.1	+	+
28	+	.2	.2	.3	.3	.4	.6	.3	.2	.1	+	+
29	+	.2	.2	.3	.3	.4	.6	.3	.2	.1	+	+
30	+	.2	.2	.3	.3	.4	.6	.3	.2	.1	+	+
31	.1	.2	.2	.2	.2	.4	.6	.2	.2	.1	+	+
MEAN	4.8	19.2	116.6	78.5	211.2	60.9	35.3	9.8	7.1	4.7	5.0	+

MEAN	.14	.64	3.73	2.61	7.55	1.97	1.11	.32	.24	.16	.16	+
ACCS. FREQ.	8.6	38	222	155	419	121	66	19	14	9.3	9.9	+

Remarks: + indicates discharge 0.05 sec. ft. or less. Year 1936, Max 1.51, Accs. Freq. 1090

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F92R

Daily discharge, in second-feet of SANTA CLARA RIVER at old highway bridge 4 mi. W. of Saugus for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		0.1	0.2	0.3	1.9	2.2	2.6	0.2	0.1	0	0	0
2	+	0.1	0.2	0.3	1.6	1.5	0.4	0.2	0.1	0	0	0
3	+	0.1	0.2	0.3	1.3	8	0.4	0.2	0.1	0	0	0
4	+	0.1	0.2	0.3	1.3	6.5	0.2	0.2	0.1	0	0	0
5	+	0.1	0.2	0.3	1.2	4.8	0.2	0.2	0.1	0	0	0
6	+	0.1	0.2	0.3	1.0	3.8	0.2	0.2	0.1	0	0	0
7	+	0.1	0.2	0.3	1.0	2.5	0.2	0.2	0.1	0	0	0
8	+	0.1	0.2	0.3	1.0	1.9	0.2	0.2	0.1	0	0	0
9	+	0.1	0.2	0.3	8	1.4	0.2	0.2	0.1	0	0	0
10	+	0.1	0.2	0.3	1.2	0.9	0.2	0.2	+	+	0	0
11	+	0.1	0.2	0.3	1.9	0.5	0.2	0.2	+	0	0	0
12	+	0.1	0.2	0.3	9.9	0.4	0.2	0.2	+	0	0	0
13	+	0.1	0.2	0.3	4.8	0.4	0.2	0.2	+	0	0	0
14	+	0.1	0.2	0.3	1.3	0.5	0.2	0.2	+	0	0	0
15	+	0.1	0.2	0.3	4.6	0.5	0.2	0.2	+	0	0	0
16	+	0.1	0.2	0.3	3.1	0.5	0.3	0.2	0	0	0	0
17	+	0.1	0.2	0.3	2.2	0.5	0.4	0.2	0	0	0	0
18	+	0.1	0.2	0.3	2.2	0.5	0.4	0.2	0	0	0	0
19	0.1	0.1	0.2	0.3	4.1	0.4	0.3	0.2	0	0	0	0
20	0.1	0.1	0.2	0.3	8	0.4	0.3	0.2	0	0	0	0
21	0.1	0.1	0.2	0.3	8	0.4	0.3	0.2	0	0	0	0
22	0.1	0.1	0.2	0.3	1.2	0.3	0.3	0.2	0	0	0	0
23	0.1	0.1	0.2	0.3	1.3	0.4	0.3	0.2	0	0	0	0
24	0.1	0.1	0.2	0.3	2.2	0.5	0.2	0.2	0	0	0	0
25	0.1	0.1	0.2	0.3	1.5	0.4	0.3	0.2	0	0	0	0
26	0.1	0.1	0.2	0.3	1.3	0.4	0.3	0.2	0	0	0	0
27	0.1	0.2	0.3	0.3	6.6	0.5	0.2	0.2	0	0	0	0
28	0.1	0.2	0.3	0.3	3.9	1.9	0.2	0.2	0	0	0	0
29	0.1	0.2	0.3	0.3	2.9	4.1	0.2	0.2	0	0	0	0
30	0.1	0.2	0.3	0.3	9.5	4.6	0.2	0.2	0	0	0	0
31	0.1	0.2	0.3	0.3	4.5	4.5	0.2	0.1	0	0	0	0
MEAN	1.3	3.4	18.9	6.6	66.3	89.7	9.8	6.1	0.9	+	0	0

MEAN	0.04	0.11	0.61	0.21	2.29	2.90	0.33	0.20	0.03	0.00	0	0
ACCS. FREQ.	2.6	6.7	37	13	1320	178	19	12	1.8	0.00	0	0

Remarks: + indicates discharge 0.05 second-feet or less. Year 1936, Max 2.19, Accs. Freq. 1590

260

Station F194R
SAWPIT WASH above Arrow Highway

Location

On the West wing wall at the north end of the culvert
at Longdon Avenue, east of Peck Road, Monrovia

Drainage area

Not determined

Channel and control

Channel - sand, gravel and small boulders.
Culvert below station acts as a control.

Discharge measurements

By wading near station

Recorder

Installed February 22, 1932 in a box type house over a
corrugated iron pipe stilling well
Rational 8 day recorder
Recorder removed and station abandoned in September, 1935

Regulation

Flow partially regulated by Sawpit Dam

Diversions

Some water diverted by the City of Monrovia

Records available

February 22, 1932 to September, 1935

Extremes of discharge

1932-33
Maximum 22 second-feet January 19
Minimum no flow most of year

1933-34
Maximum not determined
Minimum no flow most of year

1934-35
Maximum 45 second-feet April 8
Minimum no flow most of year

Accuracy

Poor

Operation

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

F.C.D. Form 104 (Rev. 11-28)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 194 R

Discharge measurements of SAWPIT WASH

at above Arrow Highway during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Depth ft.	Discharge Sec.-ft.	Rather Percent diff.	Method	Mass No.	G. H. change Total	Depth ft.	Meter No.
1	1934 10/17	Cole-Hofmann	14.0	9.71	0.80	1.45	7.8		.6	6	-.54	1250P	FC 11
2	10/17	"	5.0	1.78	1.54	0.75	2.9		.6	5	-.04	110P 912P	"
3	11/16	"	5.6	2.27	1.90	0.82	4.3		.6	7	-.08	918P 107A	"
4	12/15	"	4.0	1.14	1.03	0.45	1.2		.6	4	-.02	117A 1258A	FC 28
5	12/13	"	4.0	1.59	1.58	0.54	1.9		.6	4	-.04	106A 1025A	"
6	12/14 1935	"	4.8	2.51	1.92	0.82	4.4		.6	5	-.18	1027A 750A	"
7	1/5	"	5.0	0.46	0.98	0.28	.45		.6	3	-.04	732A 925P	"
8	1/18	"	5.0	3.21	1.48	1.08	4.8		.6	5	-.16	942P 840A	"
9	3/2	" - Merideth	4.50	1.97	0.88	0.58	1.7		.6	5	-.10	850A 1025A	"
10	3/7	"	4.5	2.70	1.79	0.84	4.8		.6	5	-.12	1025A 452P	"
11	4/8	"	5.5	5.58	1.91	0.96+	6.8		.6	6	+1.7	510P Est.	FC 11
12	4/9	Lindsay				0.40	.50		Est.			750A	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

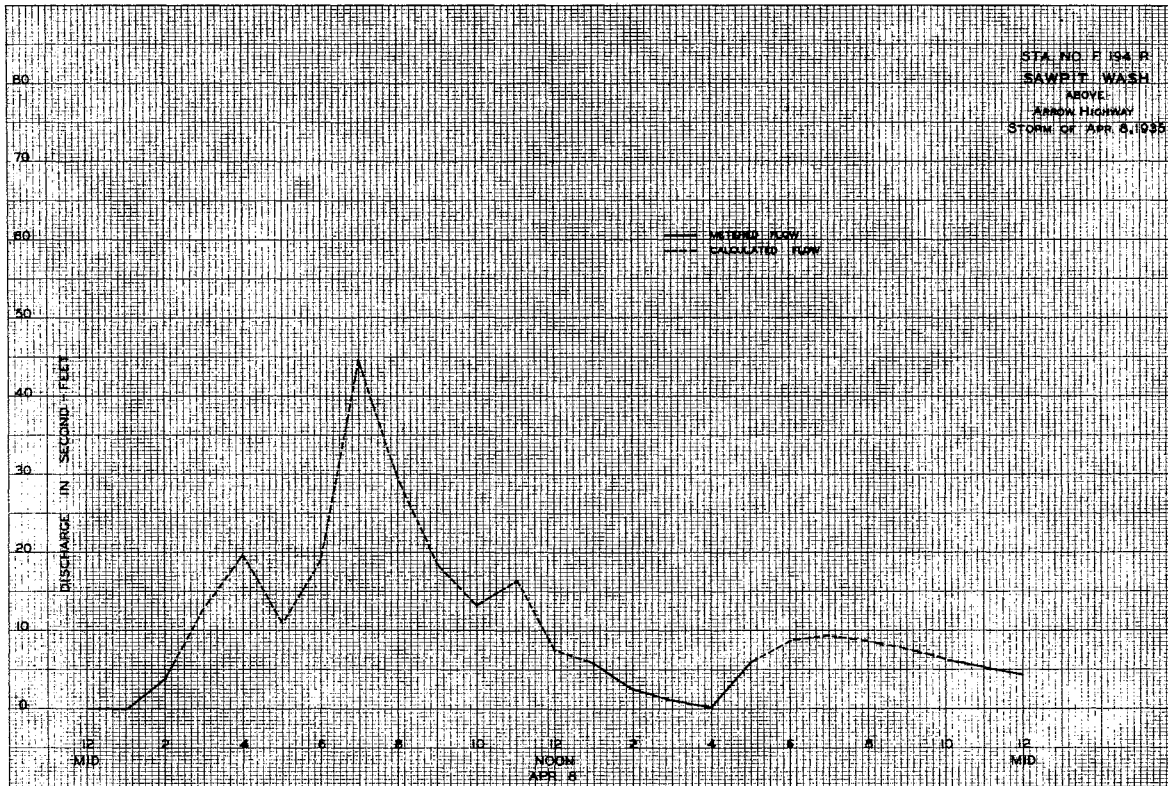
Sta. No. F 194 R
for the year ending September 30, 1935

Day	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
Oct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nov.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dec.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jan.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Feb.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mar.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Apr.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
July	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aug.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sept.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Daily discharge in second-feet of SAWPIT WASH above Arrow Highway

Month	1934	1935	Total
Oct.	0.07	0.02	0.09
Nov.	0.07	0.02	0.09
Dec.	0.07	0.02	0.09
Jan.	0.07	0.02	0.09
Feb.	0.07	0.02	0.09
Mar.	0.07	0.02	0.09
Apr.	0.07	0.02	0.09
May	0.07	0.02	0.09
June	0.07	0.02	0.09
July	0.07	0.02	0.09
Aug.	0.07	0.02	0.09
Sept.	0.07	0.02	0.09
Total	0.70	0.20	0.90

Mean discharge 0.05 sec. ft. or less.
Year Mean
Accum. 50.2



Station F185R
SEFULVEDA CREEK at Charnock Road

Location

On east wing wall at the downstream side of highway bridge about 1200 feet west of Sawtelle Boulevard

Drainage area

25.68 square miles

Channel and control

Channel - adobe and sand
A concrete wall crossing the channel about 20 feet below was partially removed December 11, 1935.

Discharge measurements

At low flow by wading near station.
At high flow from foot bridge 435 feet below the station.

Recorder

Installed September 15, 1932 in a box type house over a corrugated iron pipe stilling well.
Stevens type L 8 day recorder.

Regulations and/or Diversions

Stone Canyon Reservoir

Records available

Discharge measurements only, January 1, 1932 to September 14, 1932.
Recorder records September 15, 1932 to September 30, 1936.

Extremes of discharge

1932-33
Maximum 834 second-feet January 29
Minimum no flow August 2

1933-34
Maximum 1150 second-feet December 31
Minimum no flow at various times during year

1934-35
Maximum 1560 second-feet April 8
Minimum no flow January 8

1935-36
Maximum 1810 second-feet February 12
Minimum no flow various days of year

Accuracy

Poor.
Clock stopped several times.
Several days estimated.

Operation

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 185 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 185 R

Discharge measurements of SEPULVEDA CREEK

Discharge measurements of SEPULVEDA CREEK

at Charnock Road during the year ending September 30, 1955

at Charnock Road during the year ending September 30, 1955

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meter No., G. H. above Total, Page No., Meter No.

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meter No., G. H. above Total, Page No., Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 185 R

Discharge measurements of SEPULVEDA CREEK

at Charnock Road during the year ending September 30, 1956

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Meter No., G. H. above Total, Page No., Meter No.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **7, 185 R**

Discharge measurements of **SEPULVEDA CREEK**

at **Charnook Road** during the year ending September 30, 19**36**

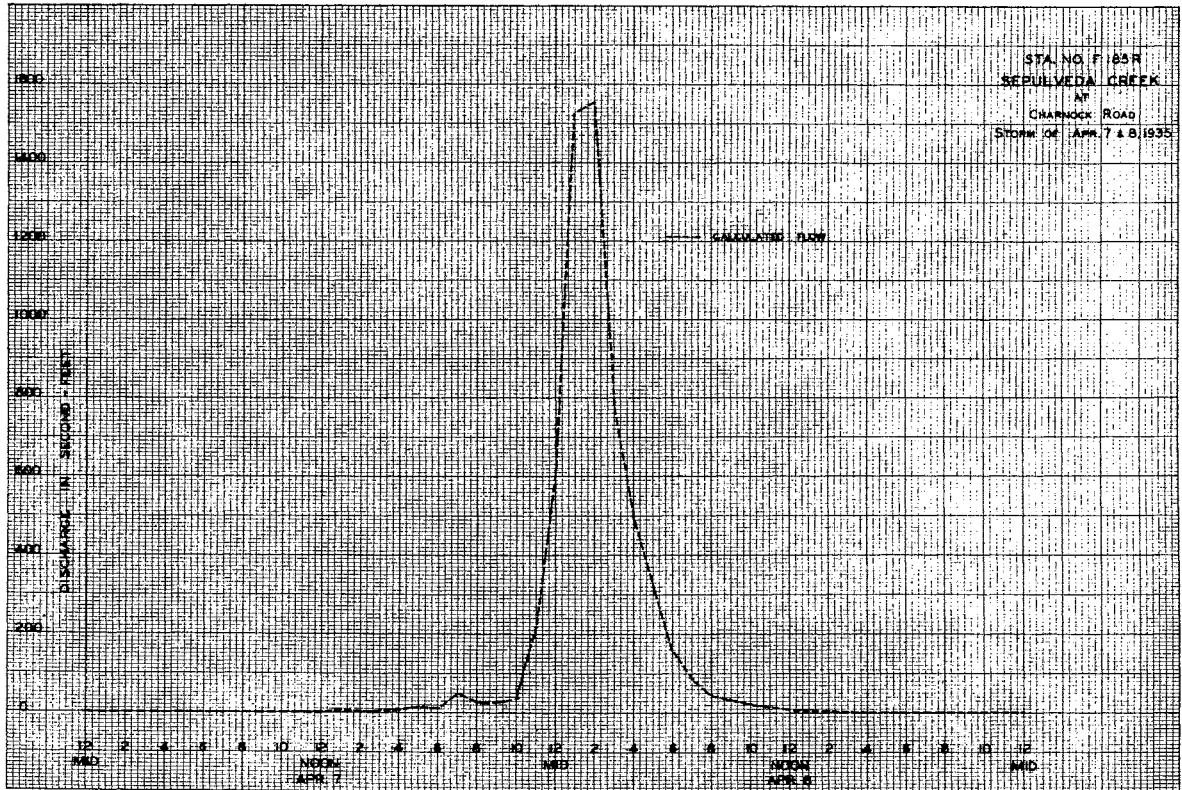
No.	Date	Made by	W/gh Feet	Area of Basin Sq. Ft.	Mean Velocity Ft. Sec.	Cross Section Feet	Discharge S. or N.	Rainfall In.	Wind Direction	Wind Force	Bar. No.	Th. Hum. %	Temp. Air	Temp. Water	Temp. Air-Water Diff.	Wind No.	Water No.
19	1-9	"	7.0	3.82	1.78	3.73	6.8				.6	7	+ .02	140P	"	"	
20	1-16	"	6.0	2.28	1.77	3.62	4.0				.6	4	0	128P	"	"	
21	1-23	"	6.0	2.06	1.72	3.40	3.6				.6	4	0	132P	"	"	
22	1-29	"	5.0	2.84	2.03	3.70	5.8				.6	5	-.03	125P	"	"	
23	1-30	"	2.5	.72	.50	3.28	.36				.6	2	0	120P	"	"	
24	2-1	"	17.0	12.2	1.60	4.08	19.				.6	7	-.17	125P	"	"	
25	2-1	Prickett-Andren	27.0	50.0	5.20	5.70	261.				.6	7	-.20	1205P	FO 22	"	
26	2-1	- Keifer	27.0	41.1	4.20	5.40	173.				.6	7	-.40	1230P	"	"	
27	2-2	"	17.0	10.7	1.30	4.03	14.				.6	6	-.18	1182A	"	"	
28	2-6	"	1.5	.21	.81	3.14	.17				Float	3	0	120P	"	"	
29	2-10	"	4.5	1.62	1.40	3.28	2.3				.6	4	0	408P	"	"	
30	2-11	" - Andren	17.0	16.3	2.11	4.12	35.				.6	9	-.12	1016P	FO 22	"	
31	2-11	"	19.0	21.0	3.17	4.37	67.				.6	9	-.06	1023A	"	"	
32	2-11	"	28.3	59.5	5.42	5.86	323.				.6	7	+.37	1040A	"	"	
33	2-11	"	28.0	74.1	6.48	6.20	480.				.6	7	+.30	1055P	"	"	
34	2-13	" - Keifer	27.0	63.1	5.27	5.85	333.				.6	8	-.30	100P	"	"	
35	2-13	"	13.0	6.44	1.66	3.49	11.				.6	6	-.02	522P	"	"	
36	2-18	Andren	6.5	1.36	.87	3.27	1.2				.6	6	-.03	530P	"	"	
37	2-27	Prickett	5.0	1.27	1.06	3.10	1.3				.6	4	0	406P	"	"	
38	3-5	"	3.5	.56	.73	3.05	.41				.6	3	0	445P	"	"	
39	3-12	"	4.0	1.10	1.11	3.11	.44				Float	4	+.02	120P	"	"	
40	3-19	"	4.5	.61	.89	3.01	.55				"	3	0	310P	"	"	
41	3-24	"	15.0	15.2	2.50	3.72	38.				.6	6	-.16	100P	FO 22	"	
42	3-25	"	2.2	.55	.51	2.70	.28				.6	2	0	135P	"	"	
43	3-26	"	2.8	.74	.77	2.40	.55				.6	3	0	140P	"	"	
44	3-26	" - Andren	32.0	141.	6.4	6.55	966.				.6	8	+.30	245P	"	"	
45	3-30	"	33.0	173.	6.96	7.28	1200.				.6	8	+.30	250P	"	"	
46	3-31	"	2.3	.43	.65	2.30	.28				.6	2	0	940P	"	"	
47	4-23	"	2.5	.44	.66	2.24	.29				.6	3	0	1015P	"	"	
48	4-30	"	2.5	.49	.67	2.24	.33				.6	3	0	1055P	"	"	
49	5-7	Prickett	3.0	.69	.75	2.30	.50				.6	3	0	1152A	FO 22	"	
50	5-14	"	3.0	.84	1.20	2.30	1.0				.6	3	0	1152A	"	"	
51	5-21	"	2.5	.62	.56	2.24	.35				.6	3	0	955A	"	"	
52	5-28	"	3.0	.91	1.19	2.41	1.1				.6	3	0	335P	"	"	
53	6-4	"	6.5	3.07	1.32	3.18	4.0				.6	4	0	340P	"	"	
54	6-18	"	2.5	.52	.79	2.20	.41				.6	2	0	445P	"	"	
55	6-25	"	2.5	.26	.77	2.21	.20				Float	2	0	450P	"	"	
56	7-2	"	2.3	.23	1.04	2.06	.24				"	2	0	127P	"	"	
57	7-9	"	2.5	.65	1.44	2.08	.95				.6	3	0	127P	FO 22	"	
58	7-16	"	2.5	.35	1.29	2.04	.45				Surf.	3	0	125P	"	"	
59	7-22	" - Bonadiman				1.99	.05				Est.			1152A	"	"	
60	8-5	Bonadiman				2.00	.30				Est.			1130A	"	"	
61	8-13	"	3.5	.42	.50	2.04	.21				Surf.	3	0	1114A	FO 9	"	
62	8-20	Prickett	2.5	.55	.96	2.04	.55				.6	3	0	1114A	FO 22	"	
63	8-26	"	2.5	.50	1.02	2.01	.50				Surf.	3	0	445P	"	"	
64	9-11	"				2.01	.02				Est.			245P	"	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.
at **Charnook Road**

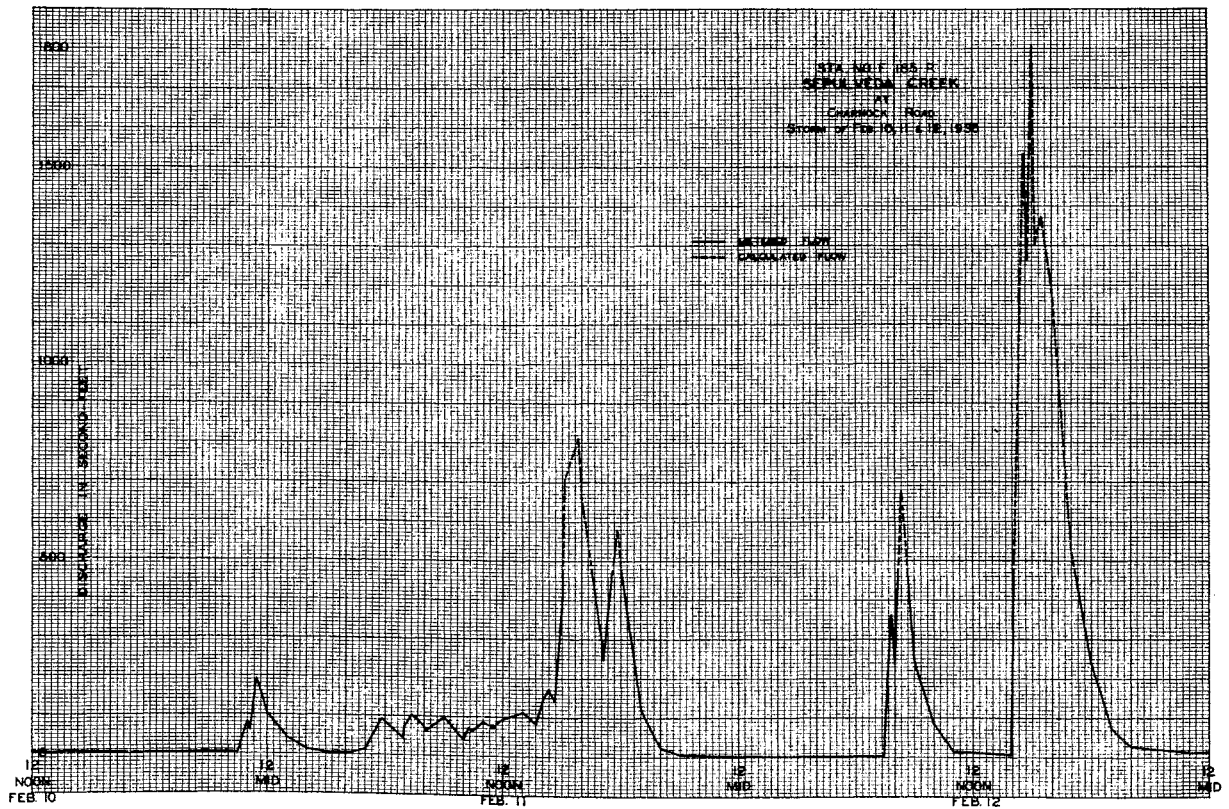
Sta. No. **7, 185 R**
for the year ending September 30, 19**36**

Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge	Day	Discharge
1	0.4	17	0.7	33	0.4	49	0.4	65	0.4	81	0.4	97	0.4	113	0.4	129	0.4	145	0.4
2	0.7	18	0.4	34	0.4	50	0.4	66	0.4	82	0.4	98	0.4	114	0.4	130	0.4	146	0.4
3	0.4	19	0.4	35	0.4	51	0.4	67	0.4	83	0.4	99	0.4	115	0.4	131	0.4	147	0.4
4	0.4	20	0.4	36	0.4	52	0.4	68	0.4	84	0.4	100	0.4	116	0.4	132	0.4	148	0.4
5	0.4	21	0.4	37	0.4	53	0.4	69	0.4	85	0.4	101	0.4	117	0.4	133	0.4	149	0.4
6	0.4	22	0.4	38	0.4	54	0.4	70	0.4	86	0.4	102	0.4	118	0.4	134	0.4	150	0.4
7	0.4	23	0.4	39	0.4	55	0.4	71	0.4	87	0.4	103	0.4	119	0.4	135	0.4	151	0.4
8	0.4	24	0.4	40	0.4	56	0.4	72	0.4	88	0.4	104	0.4	120	0.4	136	0.4	152	0.4
9	0.4	25	0.4	41	0.4	57	0.4	73	0.4	89	0.4	105	0.4	121	0.4	137	0.4	153	0.4
10	0.4	26	0.4	42	0.4	58	0.4	74	0.4	90	0.4	106	0.4	122	0.4	138	0.4	154	0.4
11	0.4	27	0.4	43	0.4	59	0.4	75	0.4	91	0.4	107	0.4	123	0.4	139	0.4	155	0.4
12	0.4	28	0.4	44	0.4	60	0.4	76	0.4	92	0.4	108	0.4	124	0.4	140	0.4	156	0.4
13	0.4	29	0.4	45	0.4	61	0.4	77	0.4	93	0.4	109	0.4	125	0.4	141	0.4	157	0.4
14	0.4	30	0.4	46	0.4	62	0.4	78	0.4	94	0.4	110	0.4	126	0.4	142	0.4	158	0.4
15	0.4	31	0.4	47	0.4	63	0.4	79	0.4	95	0.4	111	0.4	127	0.4	143	0.4	159	0.4
16	0.4	32	0.4	48	0.4	64	0.4	80	0.4	96	0.4	112	0.4	128	0.4	144	0.4	160	0.4
17	0.4	33	0.4	49	0.4	65	0.4	81	0.4	97	0.4	113	0.4	129	0.4	145	0.4	161	0.4
18	0.4	34	0.4	50	0.4	66	0.4	82	0.4	98	0.4	114	0.4	130	0.4	146	0.4	162	0.4
19	0.4	35	0.4	51	0.4	67	0.4	83	0.4	99	0.4	115	0.4	131	0.4	147	0.4	163	0.4
20	0.4	36	0.4	52	0.4	68	0.4	84	0.4	100	0.4	116	0.4	132	0.4	148	0.4	164	0.4
21	0.4	37	0.4	53	0.4	69	0.4	85	0.4	101	0.4	117	0.4	133	0.4	149	0.4	165	0.4
22	0.4	38	0.4	54	0.4	70	0.4	86	0.4	102	0.4	118	0.4	134	0.4	150	0.4	166	0.4
23	0.4	39	0.4	55	0.4	71	0.4	87	0.4	103	0.4	119	0.4	135	0.4	151	0.4	167	0.4
24	0.4	40	0.4	56	0.4	72	0.4	88	0.4	104	0.4	120	0.4	136	0.4	152	0.4	168	0.4
25	0.4	41	0.4	57	0.4	73	0.4	89	0.4	105	0.4	121	0.4	137	0.4	153	0.4	169	0.4
26	0.4	42	0.4	58	0.4	74	0.4	90	0.4	106	0.4	122	0.4	138	0.4	154	0.4	170	0.4
27	0.4	43	0.4	59	0.4	75	0.4	91	0.4	107	0.4	123	0.4	139	0.4	155	0.4	171	0.4
28	0.4	44	0.4	60	0.4	76	0.4	92	0.4	108	0.4	124	0.4	140	0.4	156	0.4	172	0.4
29	0.4	45	0.4	61	0.4	77	0.4	93	0.4	109	0.4	125	0.4	141	0.4	157	0.4	173	0.4
30	0.4	46	0.4	62	0.4	78	0.4	94	0.4	110	0.4	126	0.4	142	0.4	158	0.4	174	0.4
31	0.4	47	0.4	63	0.4	79	0.4	95	0.4	111	0.4	127	0.4	143	0.4	159	0.4	175	0.4
32	0.4	48	0.4	64	0.4	80	0.4	96	0.4	112	0.4	128	0.4	144	0.4	160	0.4	176	0.4
33	0.4	49	0.4	65	0.4	81	0.4	97	0.4	113	0.4	129	0.4	145	0.4	161	0.4	177	0.4
34	0.4	50	0.4	66	0.4	82	0.4	98	0.4	114	0.4	130	0.4	146	0.4	162	0.4	178	0.4
35	0.4	51	0.4	67	0.4	83	0.4	99	0.4	115	0.4	131	0.4	147	0.4	163	0.4	179	0.4
36	0.4	52	0.4	68	0.4	84	0.4	100	0.4	116	0.4	132	0.4	148	0.4	164	0.4	180	0.4
37	0.4	53	0.4	69	0.4	85	0.4	101	0.4	117	0.4	133	0.4	149	0.4	165	0.4	181	0.4
38	0.4	54	0.4	70	0.4	86	0.4	102	0.4	118	0.4	134	0.4	150	0.4	166	0.4	182	0.4
39	0.4	55	0.4	71	0.4	87	0.4	103	0.4	119	0.4								

ROYCE & COMPANY, INC., NEW YORK
111 WEST 40th STREET



ROYCE & COMPANY, INC., NEW YORK
111 WEST 40th STREET



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 44 R**

Station P44R

SYCAMORE LOWER STORM DRAIN at Adams Square

Discharge measurements of SYCAMORE LOWER STORM DRAIN

at Adams Square during the year ending September 30, 1936

Location

At southwest corner of Adams Square and Chevy Chase Drive, Glendale.

Drainage area

6.2 square miles.

Channel and control

Concrete channel 9.8 feet wide at station, by 10 feet deep to bottom of invert.
A concrete control with a 1 foot notch in the center was removed February 25, 1936. The notch was 0.2 foot deep; the bottom of the notch was 0.2 foot above the invert.

Discharge measurements

At low flows by wading.
At high flows from top of lower end of covered portion of drain, about 150 feet below station.

Recorder

Installed December 15, 1927 underground over a concrete well.
Stevens type L 3 day recorder replaced by H.C.F. Continuous recorder April 1, 1936.

Regulation

None.

Diversions

None.

Records available

December 15, 1927 to September 30, 1936.

Extremes of discharge

1927-28
Maximum 34 second-feet February 3
Minimum no flow most of year

1928-29
Maximum 904 second-feet November 14
Minimum no flow most of year

1929-30
Maximum 51 second-feet May 3
Minimum no flow most of year

1930-31
Maximum 212 second-feet February 3
Minimum no flow most of year

1931-32
Maximum 191 second-feet November 27
Minimum no flow most of year

1932-33
Maximum 401 second-feet January 19
Minimum no flow most of year

1933-34
Maximum 1150 second-feet January 1
Minimum no flow at various times during year

1934-35
Maximum 591 second-feet January 5
Minimum no flow part of year

1935-36
Maximum 607 second-feet March 30
Minimum no flow at various times during year.

Accuracy

Poor.
Clock stopped: November 14, 15, 16, 1934;
April 25 to 29, 1935; August 26 to 31, 1935;
October 14, 1935.
Well sanded: November 19 to 22, 1934; July 11 to 18, 1935.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating	Method	Misc. No.	G. H. Change Total	Stage	Mean No.
1	10/17	Bollinger-Carlson	9.0	7.80	7.19	1.25	58.		Float		0		
2	10/18	" "	9.0	2.97	8.99	0.50	18.				.6	7	-0.4
4	5/7	" "	9.0	5.20	9.94	0.75	52.		Float	3	0		
5	5/7	" "	9.0	5.15	9.65	0.72	50.		Float	2	0		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 44 R**

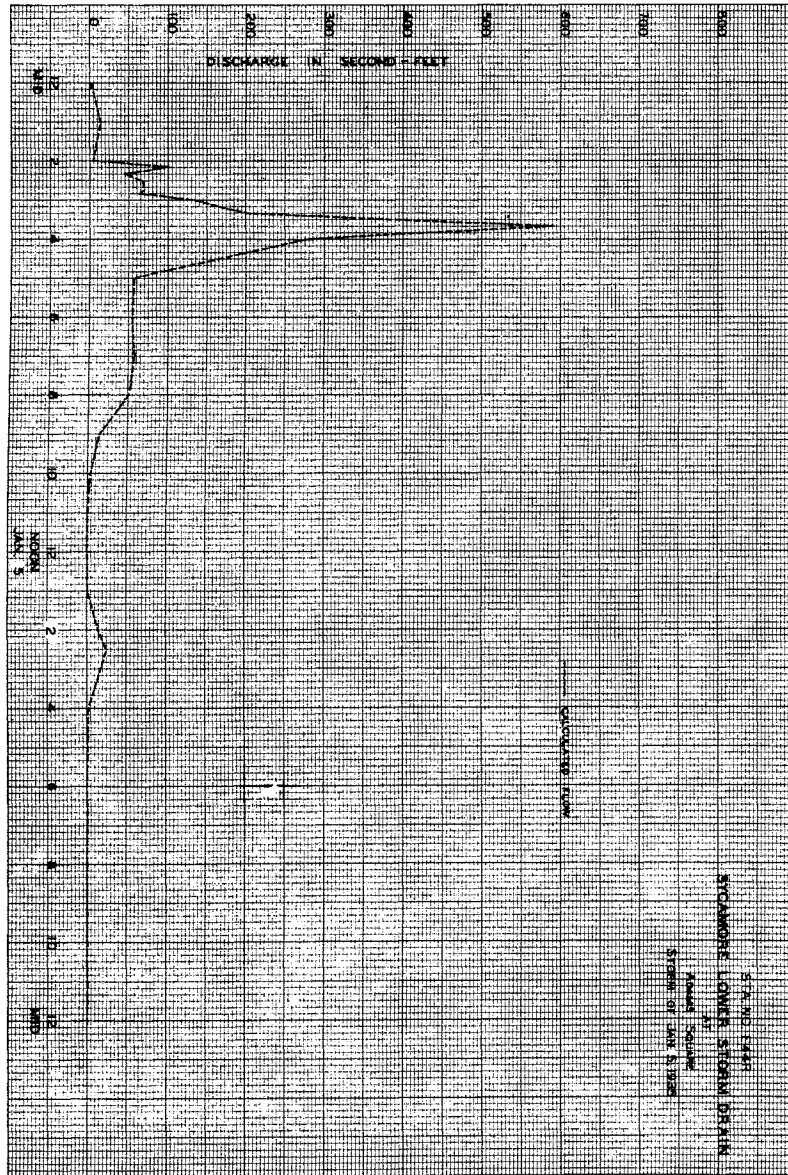
Discharge measurements of SYCAMORE LOWER STORM DRAIN

at Adams Square during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rating	Method	Misc. No.	G. H. Change Total	Stage	Mean No.
1	11-2	Irwin & Ransom	9.0	1.66	1.61	.32	2.7		.6	9	+0.6	450A	FC 31
2	11-2	Ransom & Irwin	9.0	1.79	2.22	.37	4.0		.6	9	-.01	535A	" "
3	11-17	Irwin & Ransom	9.0	2.11	4.26	.47	9.0		.6	10	-.05	547A	" "
4	1-29	" "	9.0	2.01	3.42	.39	7.2		.6	9	-.03	547P	FC 30
5	1-29	" "	9.0	1.90	5.04	.38	9.6		.6	10	+0.2	201P	" "
6	1-29	" "	9.0	1.99	4.09	.40	8.1		.6	10	0	210P	FC 30
7	1-29	" "	9.0	1.78	2.98	.36	5.3		.6	10	-.04	215P	" "
8	1-31	" - Bach	9.0	2.15	4.46	.50	9.6		.6	10	0	225P	" "
9	2-1	" "	9.0	2.86	5.78	.70	16.		.6	6	+1.6	248P	FC 31
10	2-1	" "	9.0	4.03	6.58	.92	26.		.6	6	+1.3	430P	" "
11	2-2	" & Odekirk	9.0	3.52	6.32	.69	22.		.6	10	+0.29	440P	" "
12	2-2	" "	9.0	3.92	8.20	.69	32.		.6	6	-.37	83A	" "
13	2-2	" "	9.0	4.76	9.64	.70	46.		.6	10	-.42	847A	" "
14	2-11	" Ransom	9.0	3.95	6.08	.71	24.		.6	9	+0.4	854A	FC 30
15	2-11	" "	9.0	8.88	9.32	.89	83.		.6	7	+1.0	854P	" "
16	2-11	" "	9.0	8.12	8.68	.82	70.		.6	10	0	854A	FC 31
17	3-30	" "	9.0	7.77	9.31	.80	72.		.6	6	-.01	854P	" "
18	3-30	" - Ransom	9.0	7.65	8.85	.81	68.		.6	10	+0.1	708P	" "
19	3-30	" "	9.0	32.6	16.5	3.73	540.		.6	8	-.55	710P	" "
20	3-30	" "	9.0	22.2	15.0	1.91	333.		.6	7	1.05	722P	" "

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. P 44 R



Daily discharge, in second feet of STOAMORE LOWER STORM DRAIN at Adams Square for the year ending September 30, 19 35

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	+	0.4	0.3	0.3	0.3	0.2	0.1	0.1	+	0
2	0	0	+	.5	.5	27	.5	.5	.1	.1	+	0
3	0	0	+	.3	.5	.7	.5	.5	.1	.1	+	0
4	0	0	+	1.5	11	.6	.2	.5	.1	.1	+	0
5	0	0	+	25	15	.6	.2	.2	.1	.1	+	0
6	0	0	+	1.5	19	.6	.2	.2	.1	.1	+	0
7	0	0	+	1.5	4.0	8	8	.2	.1	.1	+	0
8	0	0	5.5	1.5	12	.7	41	.2	.1	.1	+	0
9	0	0	+	9.5	2.4	.7	5.5	.2	.1	.1	+	0
10	0	0	+	.5	2.4	.7	3.5	.2	.1	.1	+	0
11	0	0	.1	.5	2.4	.7	3.0	.2	.1	.1	+	0
12	0	0	10	.5	1.9	.7	2.4	.2	.1	.1	+	0
13	0	0	65	.5	1.9	.7	1.9	.2	.1	.1	+	0
14	0	0	27	.7	1.2	.7	1.3	.2	.1	.1	+	0
15	0	7.5	.8	19	.8	.7	1.3	.2	.1	.1	+	0
16	0	31	.5	.8	.7	.7	1.3	.2	.1	.1	+	0
17	21	10	.3	.8	.6	.7	.8	.2	.1	.1	+	0
18	25	+	.2	9.5	.4	.6	.8	.2	.1	.1	+	0
19	0	7.5	.1	.7	.3	.8	.8	.2	.1	.1	+	0
20	0	+	.1	.8	.2	.8	.2	.1	.1	.1	+	0
21	0	+	.1	.8	.2	.8	.2	.1	.1	.1	+	0
22	0	+	.1	.5	.3	.6	.8	.2	.1	.1	+	0
23	0	+	.1	.5	.3	6.5	.7	.1	.1	.1	+	0
24	0	+	.1	.5	.3	3.3	.6	.1	.1	.1	+	0
25	0	+	.1	.5	.3	.3	.6	.1	.1	.1	+	0
26	0	+	.1	.5	.3	.5	.5	.1	.1	.1	+	0
27	0	+	1.9	.5	.3	.3	.5	.1	.1	.1	+	0
28	0	+	10	.5	.3	.3	.5	.1	.1	.1	+	0
29	0	+	.5	.5	.5	.3	19	.7	.1	.1	+	0
30	0	+	.5	.5	.5	.3	.7	.1	.1	.1	+	0
31	0	+	.4	.6	.6	.3	.1	.1	.1	.1	+	0

44.0	56.0	125.5	89.8	79.7	69.9	97.1	5.6	3.0	1.4	+	+
MEAN	1.42	1.87	3.98	2.90	2.85	1.92	3.24	.18	.10	.06	+
ACR-FEET	87	111	245	176	158	119	193	11.	6.0	2.8	+

Remark: + indicates discharge. 0.05 sec. ft. or less

YEAR 1935 MEAN 1.53
 PERIOD 1935 ACR-FEET 1110.

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. P 44 R

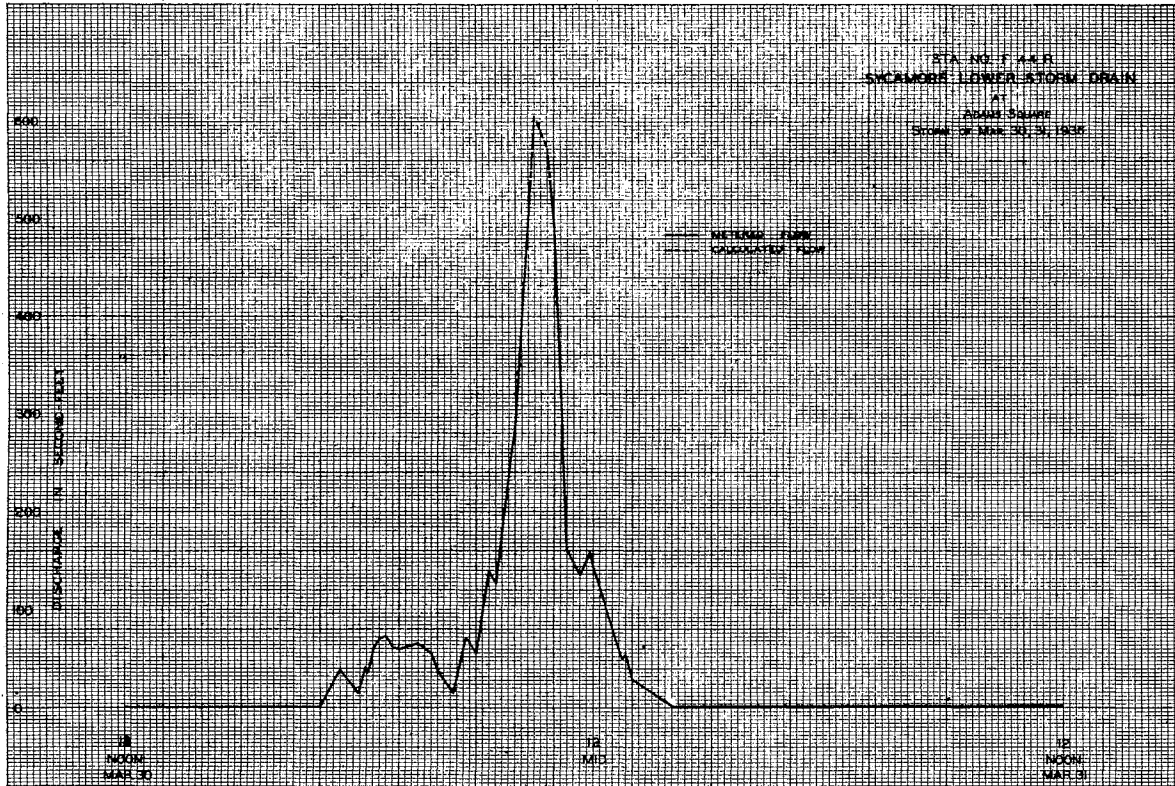
Daily discharge, in second feet of STOAMORE LOWER STORM DRAIN at Adams Square for the year ending September 30, 19 36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	+	+	1.6	1	#	#				
2	0	0.6	+	+	1.9	1	#	#				
3	0	0.1	2.0	+	+	#	1.2	#				
4	0	0.1	1.3	+	+	#	1.4	#				
5	0	0.1	+	+	+	#	#	#				
6	0	+	+	+	+	#	#	#				
7	0	+	+	+	+	#	#	#				
8	0	0	+	+	0.1	#	#	#				
9	0	0.1	+	+	+	#	#	#				
10	0	0.1	+	+	1.8	#	#	#				
11	0	0.1	+	0.3	2.6	#	#	#				
12	0	0.1	+	+	3.1	#	#	#				
13	0	0.1	+	+	5.5	#	#	#				
14	H R	0.1	+	+	17.8	#	#	#				
15	O 1	0.1	+	+	4.9	#	#	#				
16	+	+	+	+	16.7	#	#	#				
17	0	10.2	+	+	10.1	#	#	#				
18	0	0.1	+	+	10.1	#	#	#				
19	+	+	+	+	1.0	#	#	#				
20	+	+	+	+	0.5	#	#	#				
21	+	+	+	+	0.5	#	#	#				
22	+	+	+	+	+	#	#	#				
23	0	+	+	+	2.3	#	#	#				
24	+	+	+	+	0.7	6.2	#	#				
25	+	+	+	+	0.7	#	#	#				
26	0	+	+	+	H R	#	#	#				
27	0	+	+	+	H R	#	#	#				
28	0	0	+	+	#	#	#	#				
29	0	+	H R	2.5	#	#	#	#				
30	0	+	H R	+	4.3	#	#	#				
31	0	+	H R	3.0	5.5	#	#	#				

11.9	5.9										
MEAN	0.40	0.19									
ACR-FEET	24	12									

Remark: + indicates discharge 0.05 second-feet or less.
 # Not computed due to channel being sanded.

YEAR 1936 MEAN 0.40
 PERIOD 1936 ACR-FEET 36



Station F43R
SYCAMORE UPPER STORM DRAIN at Solway St.

Location

On right side of Sycamore Storm Drain, one block south of Chevy Chase Drive, and 90 feet above Solway Street, Glendale.

Drainage area

2.76 square miles.

Channel and control

Concrete channel 8 feet wide by 8 feet deep to bottom of invert. A concrete control with a 1 foot notch in the center was removed March 10, 1936. The notch was 0.2 foot deep; the bottom of the notch was 0.2 foot above the invert.

Discharge measurements

At low flows by wading.
At high flows from bridge 87 feet downstream from station.

Recorder

Installed January 30, 1928 in a concrete house over a concrete stilling well.
Recorder removed April 16, 1932.
Recorder re-installed October 1, 1935.
Rational duplex recorder during the 1935-36 water year.

Regulation

None.

Diversions

None.

Records available

From January 30, 1928 to April 6, 1932 and from October 1, 1935 to September 30, 1936.

Extremes of Discharge

1927-28
Maximum 25 second feet February 3
Minimum no flow most of year

1928-29

Maximum 62 second feet March 10
Minimum no flow most of year

1929-30

Maximum 24 second feet March 14
Minimum no flow most of year

1930-31

Maximum 20 second feet February 4
Minimum no flow most of year

1931-32

Maximum 58 second feet February 9
Minimum no flow at various times during year

1934-35

Maximum not determined
Minimum not determined

1935-36

Maximum 252 second feet March 30
Minimum no flow at various times during year

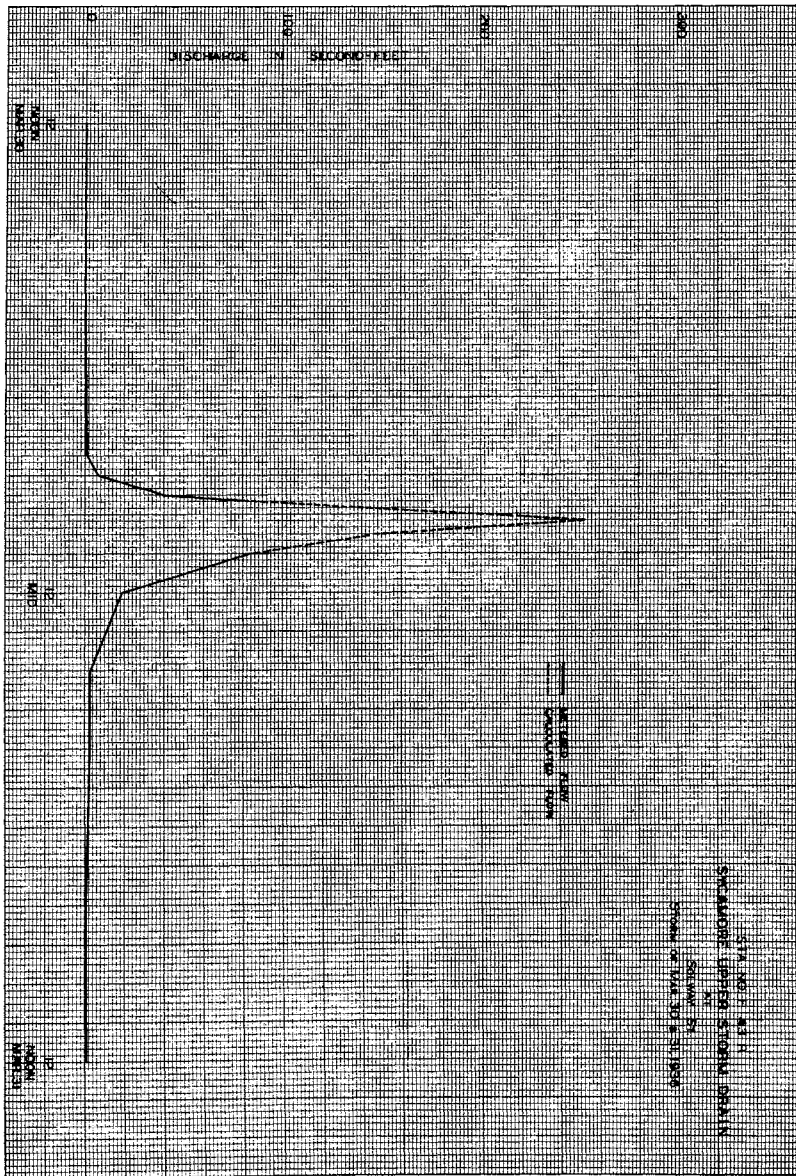
Accuracy

Poor.
Clock stopped: February 7-12, 1936.

Operation

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

REPORT & RECORD NO. H.T. NO. 100511
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 MADE IN U.S.A.



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No.	Date	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
1	3/30	Irwin - Rancho	6.0	1.26	5.55	0.30	7.0	.6	5	+0.3	303	194	31							
2	3/30	"	6.0	2.06	7.42	0.38	15.	.6	8	+1.2	348	31								
3	3/30	Rancho - Irwin	6.0	5.17	9.71	0.77	50.	.6	2	+5.0	958	31								
4	3/30	"	6.0	7.73	10.7	1.10	53.	.6	5	+2.0	353	31								

Discharge measurements of SYCAMORE UPPER STORM DRAIN
 at Solway St.
 during the year ending September 30, 1936

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPARTMENT

Station No. 143R

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPT.

Sta. No. 143R

Daily discharge, in second-feet of SYCAMORE UPPER STORM DRAIN at Solway St. for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+		+	+	4.4	1.0	0.0	0.0				
2	+	0.1	+	+	4.1	1.2	0.0	0.0				
3	+		0.5	+	+	0.5	0.0	0.0				
4	+			+	+	0.5	0.0	0.0				
5	+		+	+	+	0.5	0.0	0.0				
6	+		+	+	+	0.1	0.0	0.0				
7	+		+	+	0.1	0.0	0.0	0.0				
8	+		+	+	0.1	0.0	0.0	0.0				
9	+		+	+	0.1	0.0	0.0	0.0				
10	+		+	+	0.1	0.2	0.0	0.0				
11	+		+	0.5	W R	W R	0.0	0.0				
12	+		+	+	5.1	W R	0.0	0.0				
13	+		+	+	8.0	W R	0.0	0.0				
14	+		+	+	8.2	W R	0.0	0.0				
15	W R		+	+		W R	0.0	0.0				
16	+		+	+	12.1	W R	0.0	0.0				
17	+	2.0	+	+	5.4	W R	0.0	0.0				
18	+		+	+	4.4	W R	0.0	0.0				
19	+		+	+	4.4	W R	0.0	0.0				
20	+		+	+	4.4	W R	0.0	0.0				
21	+		0.1	+	4.4	W R	0.0	0.0				
22	+		0.1	+	6.1	W R	0.0	0.0				
23	+		0.1	+	3.1	W R	0.0	0.0				
24	+		0.1	+	3.1	W R	0.0	0.0				
25	+		0.1	+	1.6	W R	0.0	0.0				
26	+		0.1	+	2.1	W R	0.0	0.0				
27	+		0.1	+	4.4	W R	0.0	0.0				
28	+		0.1	+	2.5	W R	0.0	0.0				
29	0.0		0.1	+	2.0	1.0	0.0	0.0				
30	0.0		0.1	+	0.9	1.2	0.0	0.0				
31	0.0		+	0.5								
		2.1	3.5	1.9			12.2					
MEAN		0.07	0.11	0.06			0.41					
ACRS FEET		4.2	6.9	3.8			25					

Recorder was not operated during the summer months; the discharge did not exceed 0.5 second-feet during this period.

Remarks: + Indicates discharge 0.05 second-feet or less.

YEAR OR PERIOD _____ MEAN _____
 ACRS FEET _____

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 54 R

Station F54R

TOPANGA CREEK at highway bridge 2 mi. above mouth.

Discharge measurements of TOPANGA CREEK

at highway 2 mi. above mouth during the year ending September 30, 1936

Location

On downstream end of west wing wall of highway bridge about 6 miles northwest of Santa Monica

Drainage area

18.0 square miles

Channel and control

Channel - rock and gravel No artificial control

Discharge measurements

At low flow by wading near station. At high flow from cable car 450 feet above station.

Recorder

Installed January 1, 1930 in a box type house over a corrugated iron pipe stilling well. H.C.F. continuous recorder.

Regulation

None

Diversions

None

Records available

January 1, 1930 to September 30, 1936.

Extremes of discharge

1929-30 Maximum 340 second-feet March 14 and 15 Minimum + at various times during year
1930-31 Maximum 386 second-feet February 4 Minimum + at various times during year
1931-32 Maximum 1250 second-feet February 8 Minimum + at various times during year
1932-33 Maximum 1430 second-feet January 19 Minimum + at various times during year
1933-34 Maximum 4510 second-feet December 31 Minimum no flow October 18 and 19
1934-35 Maximum 1200 second-feet January 5 Minimum no flow August 16
1935-36 Maximum 528 second-feet February 22 Minimum + at various times during year

Accuracy

Poor.

Operation

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

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

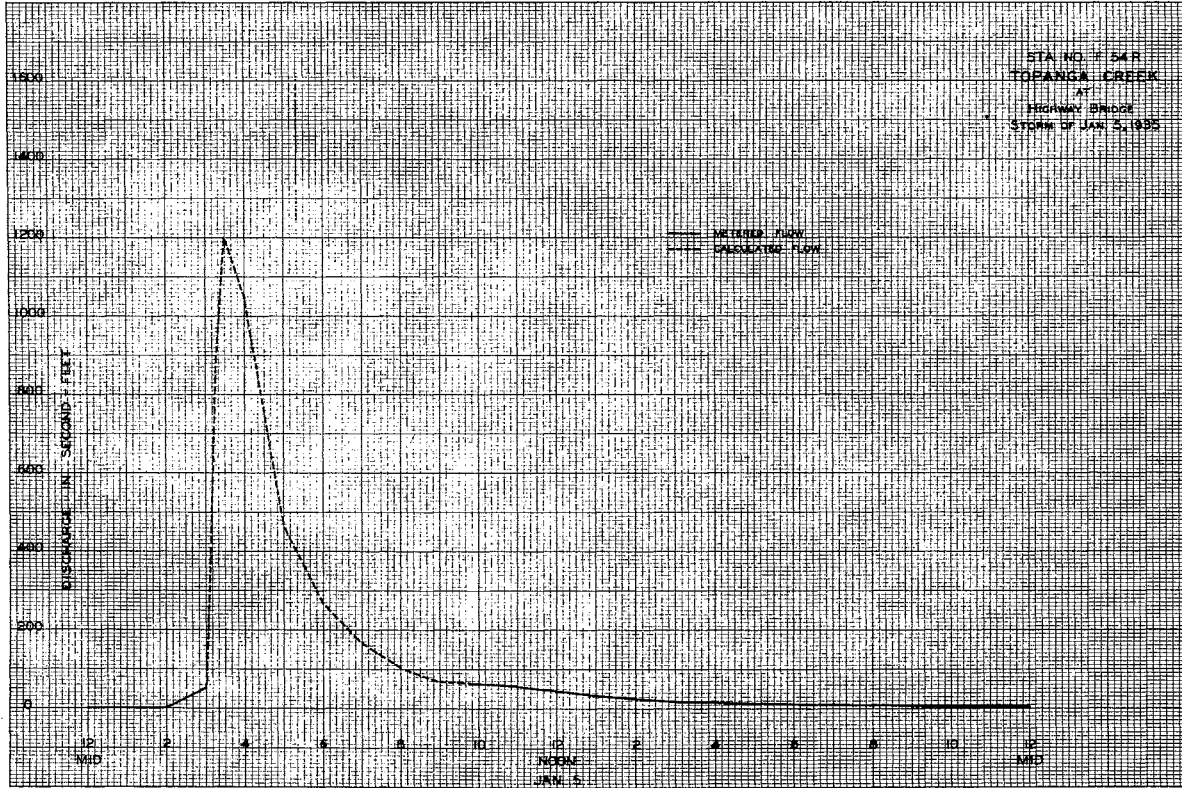
Station No. F 54 R

Discharge measurements of TOPANGA CREEK

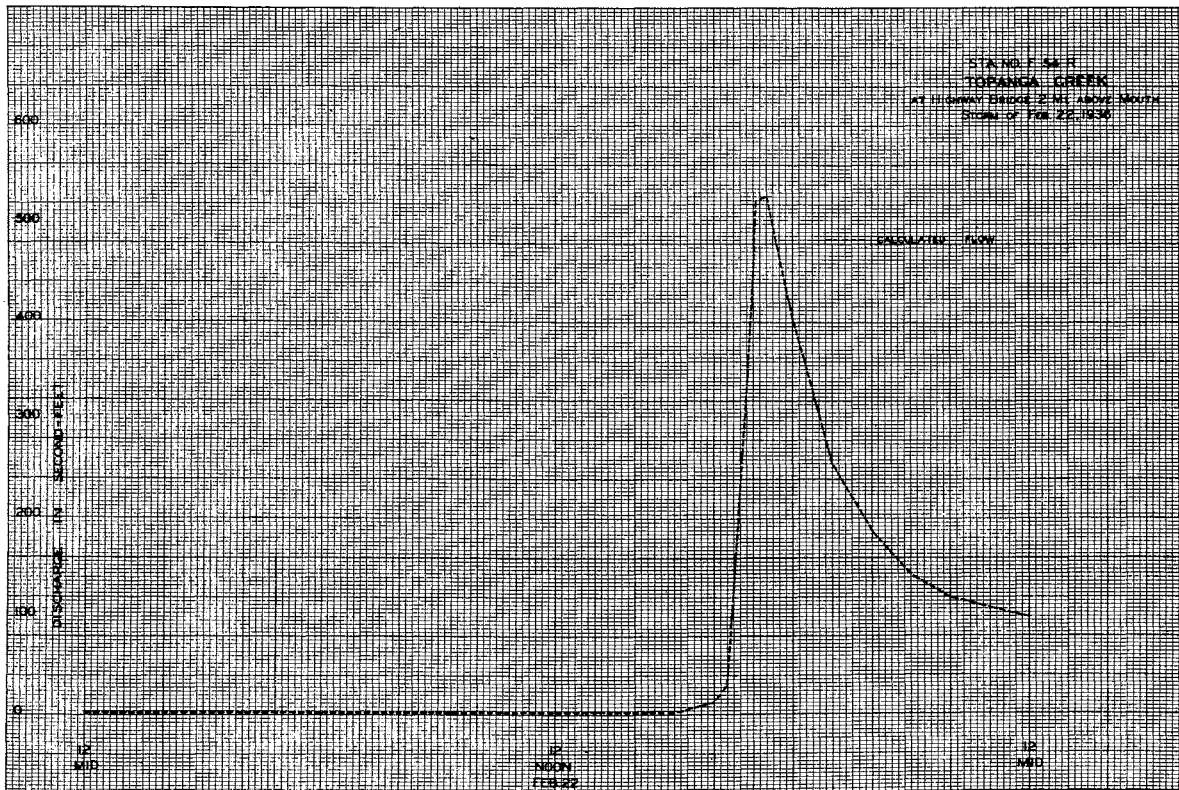
at highway 2 mi. above mouth during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Cfs., Rating, Method, Mean No., G. H. Stage Feet, Depth Feet, Meter No.

EMERY & SHAW CO., INC. 317 B BAY ST. SAN FRANCISCO, CALIF.



EMERY & SHAW CO., INC. 317 B BAY ST. SAN FRANCISCO, CALIF.



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 244 R**

Station **F244R**

VERDUGO CHANNEL at Don Carlos Street

Discharge measurements of **VERDUGO CHANNEL**

at **Don Carlos Street** during the year ending September 30, 19**36**

Location

On the east side of Verdugo Channel opposite the end of Don Carlos Street, Glendale.

Drainage area

18.66 square miles.

Channel and control

Concrete channel 43 feet wide by 9 feet deep to bottom of invert.

Discharge measurements

At low flow by wading near station.
At high flows from foot bridge at station.

Recorder

Installed December 21, 1934 in P. C. Standard type house over a concrete stilling well.
H.C.F. continuous recorder.

Regulation

Flow partially regulated in the 1934-35 water year by Verdugo Debris Basin and in the 1935-36 water year by Verdugo, Pickens, Hill-Beckley and Dunsuir Debris Basins.

Diversions

Several diversions for domestic water supply and irrigation.

Extremes of discharge

December 21, 1934 to September 30, 1936
Maximum 1020 second-feet January 5
Minimum no flow at various times
1935-36
Maximum 289 second-feet February 12
Minimum no flow at various times

Records available

December 21, 1934 to September 30, 1936

Accuracy

Good at low flows.
Poor at high flows due to travelling waves and to large debris content.

Operation

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

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Obs. stage feet	Discharge Sec.-ft.	Rating Error %	Method	Meas. No.	C. H. Check Total	Begin Time	More No.
1	12/15	Irwin - Fuller	15.0	1.94	7.70	.30	15.		Float	1	0	1100A	
2	12/15	Fuller	20.6	4.94	10.00	.48	49.		"	1	0	100P 152P	
3	12/15	"	27.6	8.84	15.90	.64	125.		"	1	0	189P	
4	12/15	"	28.8	9.66	14.20	.67	128.		"	1	0	350P 350P 350P	
5	12/15	"	24.0	5.72	12.40	.56	85.		"	4	0	319A	FO 1
6	12/28	Irwin	19.0	4.52	10.70	.46	48.		"	4	-.05	319A 359A	FO 21
7	12/28	" - Gilmore	14.5	3.33	9.08	.41	20.		"	4	-.02	348A	"
8	12/28	"	19.5	4.88	12.15	.48	59.		"	4	+.01	344A 350A 359A	"
9	12/28	"	19.5	5.25	12.60	.51	67.		"	4	0	308A 309A	"
10	1/5	" - Ransom	20.0	5.10	15.62	.56	85.		"	4	-.06	219A 287A	"
11	1/5	"	26.0	8.74	14.50	.64	125.		"	6	0	235A 307A	"
12	1/5	"	31.0	10.77	15.9	.70	171.		"	4	+.02	316A 307A	"
13	1/15	"	29.5	10.77	14.27	.73	155.		"	6	+.04	215A 219A 224A	"
14	1/15	"	37.5	21.52	18.02	.98	384.		"	7	+.27	227A	"
15	1/15	"	39.0	19.19	19.67	.98	378.		"	8	+.07	258A 246A	"
16	1/15	"	39.0	21.45	18.39	.98	395.		"	7	-.08	256A 310A	"
17	1/15	"	37.0	19.38	20.87	.90	405.		"	6	-.05	316A	FO 4

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F244R**

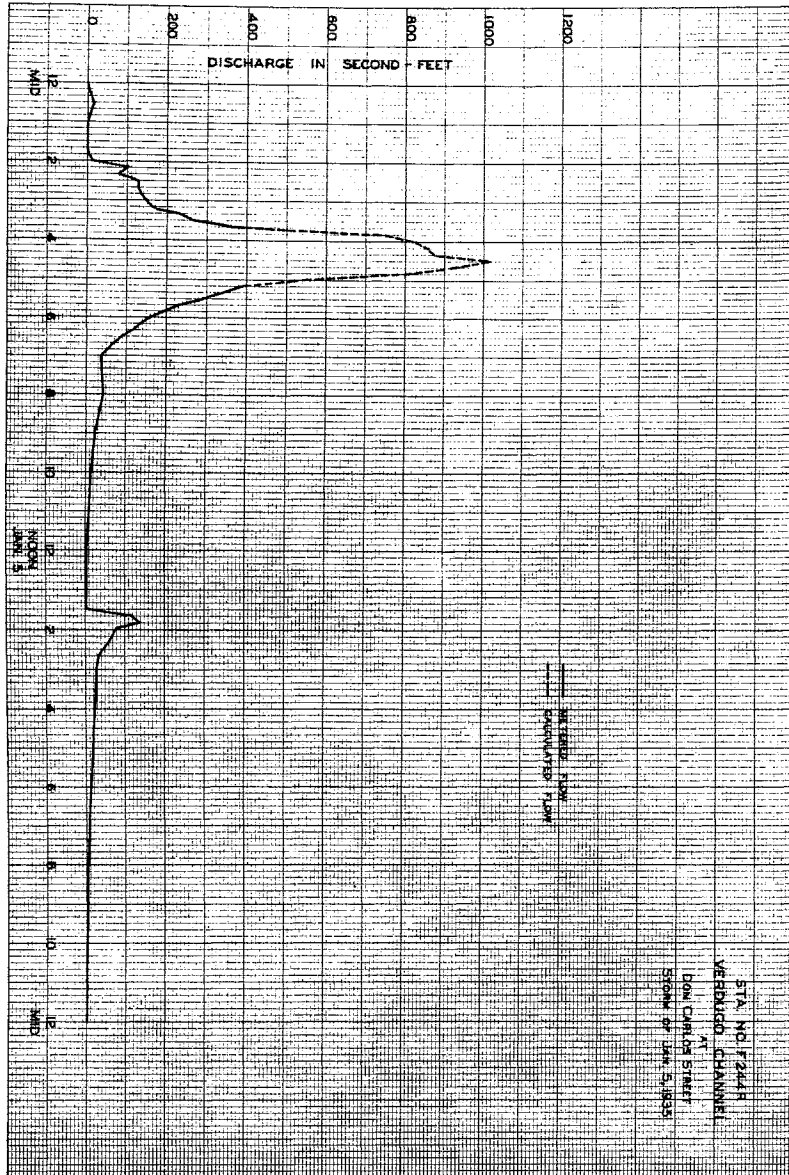
Discharge measurements of **VERDUGO CHANNEL**

at **Don Carlos Street** during the year ending September 30, 19**36**

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Obs. stage feet	Discharge Sec.-ft.	Rating Error %	Method	Meas. No.	C. H. Check Total	Begin Time	More No.
1	2/1	Irwin - Irwin	11.0	2.55	9.29	.50	24.		"	5	-.02	1125A 1138A	FO 31
2	2/2	Irwin - Odekirk	18.0	3.64	11.6	.51	42.		"	6	0	755A 755A 755A	"
3	2/2	"	17.5	3.50	11.4	.50	40.		"	6	-.01	800A	"
4	2/11	Irwin - Ransom	17.5	3.77	11.4	.51	43.		"	6	-.01	356P 303P	FO 30
5	2/12	Ransom - Jones	31.0	13.0	17.8	.88	231.		"	6	+.04	316P	FO 31
6	2/12	"	37.5	14.2	18.5	.90	263.		"	7	0	328P 328P	"
7	2/13	Ransom	10.5	1.95	9.16	.39	18.		"	5	0	430P 440P	FO 30
8	2/14	Ransom - Baustian	24.0	7.86	14.2	.71	111.		"	4	-.02	1000P 1147P	FO 31
9	3/30	Irwin - Ransom	33.2	12.8	18.0	.85	232.		"	8	0	1200P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F244R
for the year ending September 30, 1935



Daily discharge, in second-feet of VERDUGO CHANNEL at Don Carlos Street

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
1				0	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0	0
2				0.2	0.1	1.7	0.2	0.1	0.1	0.1	0	0	0
3				1.4	6	5.5	0.5	0.3	0.1	0.1	0	0	0
4				8.5	13.3	0.3	0.1	0.2	0.1	0.1	0	0	0
5				0.3	2.2	0.3	0.1	0.1	0.1	0.1	0	0	0
6				0.3	0.8	0.4	0.3	1	0.1	0.1	0	0	0
7				0.3	4.4	0.6	0.6	4	0.1	0.1	0	0	0
8				0.3	2.2	0.2	0.2	3.1	0.1	0.1	0	0	0
9				0.4	0.2	0.2	0.2	2.3	0.1	0.1	0	0	0
10				0.3	0.2	0.2	1.5	0.1	0.1	0.1	0	0	0
11				0.4	0.2	0.1	0.8	0.1	0.1	0.1	0	0	0
12				1.4	0.2	0.1	0.3	0.1	0.1	0.1	0	0	0
13				1.2	0.5	0.1	0.1	0.1	0.1	0.1	0	0	0
14				3.4	0.2	0.1	0.3	0.1	0.1	0.1	0	0	0
15				0.2	0.2	0.1	0.4	0.1	0.1	0.1	0	0	0
16				0.3	0.2	0.1	0.3	0.1	0.1	0.1	0	0	0
17				0.2	0.2	0.1	0.1	0.1	0.1	0.1	0	0	0
18				0.2	0.2	0.1	0.1	0.1	0.1	0.1	0	0	0
19				0.2	0.2	0.1	0.1	0.1	0.1	0.1	0	0	0
20				0.2	0.2	0.1	0.1	0.1	0.1	0.1	0	0	0
21				0	0.1	0.2	0.3	0.2	0.1	0.1	0	0	0
22				0.1	0.1	0.1	0.4	0.2	0.1	0.1	0	0	0
23				0.1	0.2	0.1	3.9	0	0.1	0.1	0	0	0
24				0.1	0.1	0.1	0.2	0	0	0	0	0	0
25				0.1	0.2	0.1	0.2	0	0	0	0	0	0
26				0.1	0.1	0.2	0.2	0	0	0	0	0	0
27				0.8	0.5	0.2	0.2	0	0	0	0	0	0
28				14.9	0.8	0	0.1	0.1	0	0	0	0	0
29				0.3	0.3	0.1	0.1	0.3	0	0	0	0	0
30				0.1	0.3	0.1	0.1	0.1	0	0	0	0	0
31				0.1	0.2	0.1	0.1	0.1	0	0	0	0	0
Dec. 21-31				17.0	30.5	34.5	61.1	3.8	1.9	2.7	0	0	0
MEAN				1.55	4.55	1.80	1.11	2.04	0.12	0.06	0.09	0	0
ACR-FEET				34	280	100	68	121	7.5	3.8	5.4	0	0

Remarks: Recorder installed Dec. 21

MEAN on Dec. 21-Sept. 30 1.10
ACR-FEET 620

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F244R
for the year ending September 30, 1936

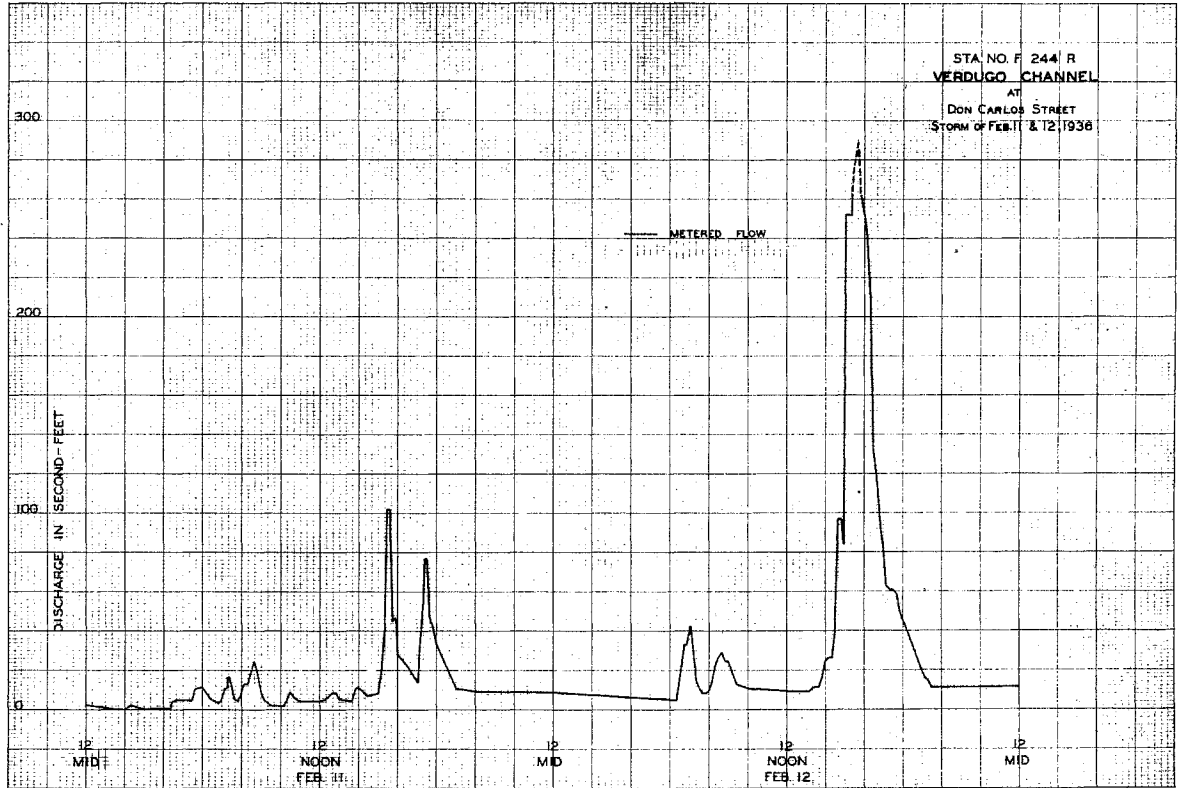
Daily discharge, in second-feet of VERDUGO CHANNEL at Don Carlos Street

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0.1	11.3	0.5	1.2	0	0	0	0	0
2	0.2	0	0.1	0.1	14.2	0.1	0.2	0	0	0	0	0
3	0.1	0.1	0.3	0.1	4.1	0.1	3.6	0	0	0	0	0
4	0.1	0.1	0.2	0.1	2.2	0.1	3.4	0	0	0	0	0
5	0.1	0.1	0.1	0.1	1.0	0.1	0.5	0	0	0	0	0
6	0.1	0.1	0.1	0.1	0.4	0.1	0.4	+	+	0	0	0
7	0.1	0.1	0.1	0.1	0	0.1	0.4	+	+	0	0	0
8	0.1	0.1	0.1	0.1	0	0.1	0.4	+	+	0	0	0
9	0.1	0.1	0.2	0.1	0	+	0.3	+	+	0	0	0
10	0.1	0.1	0.1	0.1	0.5	+	0.3	+	+	0	0	0
11	0.1	0.1	0.1	0.3	11.4	+	0.3	+	+	0	0	0
12	0.1	0.1	0.1	0.1	3.3	+	0.3	+	+	0	0	0
13	0.1	0.1	0.1	0.1	12.3	+	0.3	+	+	0	0	0
14	0.4	0.1	0.1	0.1	14.2	+	0.3	0	0	+	0	0
15	0.1	0.1	0.1	0.1	7.7	+	0.2	0	0	+	0	0
16	0.1	0.1	0.1	0.1	13.3	+	0.2	0	0	+	0	0
17	0.1	0.2	0.1	0.1	7.3	+	0.2	0	0	+	0	0
18	0.1	0.2	0.1	0.1	1.4	+	0.2	0	0	+	0	0
19	0.1	0.1	0.1	0.1	0.5	+	0.2	0	0	+	0	0
20	0.1	0.1	0.1	0.1	0.5	+	0.2	+	+	0	0	0
21	0.1	0.1	0.1	0.1	0.5	+	0.2	+	+	0	0	0
22	0.1	0.1	0.1	0.1	6.1	+	0.2	+	+	0	0	0
23	0.1	0.1	0.1	0.1	13.3	0	0.1	+	+	0	0	0
24	0.1	0.1	0.1	0.1	2.2	0.5	0	+	+	0	0	0
25	0.1	0.1	0.1	0.1	1.0	0.1	0	+	+	0	0	0
26	0.1	0.1	0.1	0.1	0.5	0.1	0	+	+	0	0	0
27	0.1	0.1	0.1	0.1	0.4	0.1	0	+	+	0	0	0
28	0.1	0.1	0.1	0.1	0.4	0.1	0	+	+	0	0	0
29	0.1	0.1	0.1	0.3	0.4	0.1	0	+	+	0	0	0
30	0.2	0.1	0.1	0.1		16.1	0	+	+	0	0	0
31	0.1	0.1	0.4	0.4		15.6	0	+	+	0	0	0
MEAN				3.7	165.8	33.9	14.5	+	+	+	0	0
ACR-FEET				71	329	67	29	+	+	+	0	0

Remarks: + Indicates discharge 0.05 second-feet or less.

MEAN on Dec. 21-Sept. 30 0.64
ACR-FEET 463

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REPORT OF THE U.S. GEOLOGICAL SURVEY
 WATER RESOURCES DIVISION
 WASHINGTON, D. C. 20540

Station #552 R
 VERDUGO CHANNEL at Estelle Ave.

LOS ANGELES COUNTY
 FLOOD CONTROL DISTRICT
 HYDRAULIC DEPARTMENT
 STATION NO. # 252 R

Location

On north side of Verdugo Channel at Estelle Avenue, Glendale.

Channel and control

Concrete channel 27 feet wide by 10 feet deep to bottom of invert.

Drainage area

22.4 square miles.

Discharge measurements

Low flows by wading 3/ feet above station.
 High flows from cable car 37 feet above station.

Recorder

Installed December 2, 1935.
 Horizontal rational recorder.

Regulation

Flow partially regulated in the 1934-35 water year by Verdugo Debris Basin and in the 1935-36 water year by Verdugo, Pickens, Hall-Beckley and Dunsmuir Debris Basins.

Diversions

Several diversions for domestic water supply and irrigation.

Records available

December 2, 1935 to September 30, 1936.

Extremes of discharge

December 2, 1935 to September 30, 1936
 Maximum 1100 second-feet March 30, 1937
 Minimum no flow for several months.

Accuracy

Fair.
 The recorder was not operated during the period of probable no flow from May 29 to Sept. 30.

Operation

Located and constructed by Los Angeles County Flood Control District and operated by Los Angeles County Flood Control District in cooperation with the U. S. Engineer Dept.

DISCHARGE MEASUREMENTS OF VERDUGO CHANNEL

AT Estelle Ave. DURING THE YEAR ENDING SEPTEMBER 30, 1936

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	DEEP. HEIGHT FEET	DISCHARGE SEC. FT.	FALLING RECORD DIFF.	RAIN IN IN.	DEEP. INCHES	% CH. TOTAL	SEEDS PER CUB. FT.	METER NO.
1	1/22	U.S.W.D. #1					0						345P
2	1/29	" #2				.08	0.10						640P
3	1/29	" #3				.06	0.02						1030A 157A
4	2/1	" #4	17.0	2.30	5.34	0.22	12	.6	6	-.01		205A 505A	
5	2/1	" #5	17.5	2.56	5.21	0.22	13	.6	6	+0.1		515A 1030A	
6	2/1	" #6	52.7	14.9	9.30	0.57	139	.6	8	+0.6		1030A 1200N	
7	2/1	" #7	31.0	7.15	7.38	0.44	53	.6	8	-.03		1215P 218P	
8	2/1	" #8	24.0	3.92	6.74	0.30	26	.6	10	-.01		241P 504A	
9	2/2	" #9	52.0	16.9	9.08	0.54	154	.6	8	+1.2		520A 742A	
10	2/2	" #10	33.0	8.34	7.03	0.42	59	.6	10	-.05		800A 937A	
11	2/2	" #11	25.0	4.95	6.61	0.34	33	.6	8	-.04		951A 325P	
12	2/11	" #12	27.0	6.81	7.09	0.44	48	.6	10	+0.2		348P 405P	
13	2/11	" #13	53.0	17.5	6.94	0.60	121	.6	8	-.10		421P 538P	
14	2/11	" #14	34.0	7.20	7.09	0.44	51	.6	5	-.04		649P 250P	
15	2/12	" #15	52.0	19.7	11.05	0.72	218	.6	7	+2.8		314P 1225P	
16	2/13	" #16	13.0	1.88	5.07	0.23	9.5	.6	7	0		1235P	
17	2/13	" #17	12.0	1.72	5.22	0.23	9.0	.6	9	0		1237P 1254P	
18	2/13	" #18	25.5	5.64	6.74	0.38	38	.6	10	+0.4		303P 316P	
19	2/13	" #19	37.0	9.13	6.72	0.44	61	.6	7	-.06		328P 340P	
20	2/13	" #20	19.0	3.56	7.28	0.34	26	.6	6	+0.1		525P 537P	
21	2/14	" #21	51.0	18.8	10.48	0.72	198	.6	6	-.08		926P 545P	
22	2/14	" #22	75.0	31.2	12.53	0.87	391	.6	9	+3.2		1006P 1017P	
23	2/14	U.S.W.D. #23	80.0	44.2	14.23	1.00	628	.6	10	-.17		1031P 304A	
24	2/15	" #24	33.0	7.74	6.82	0.42	53	.6	6	+0.6		320A 540A	
25	2/15	" #25	19.0	3.50	7.25	0.33	25	.6	6	0		552A	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **F252R**

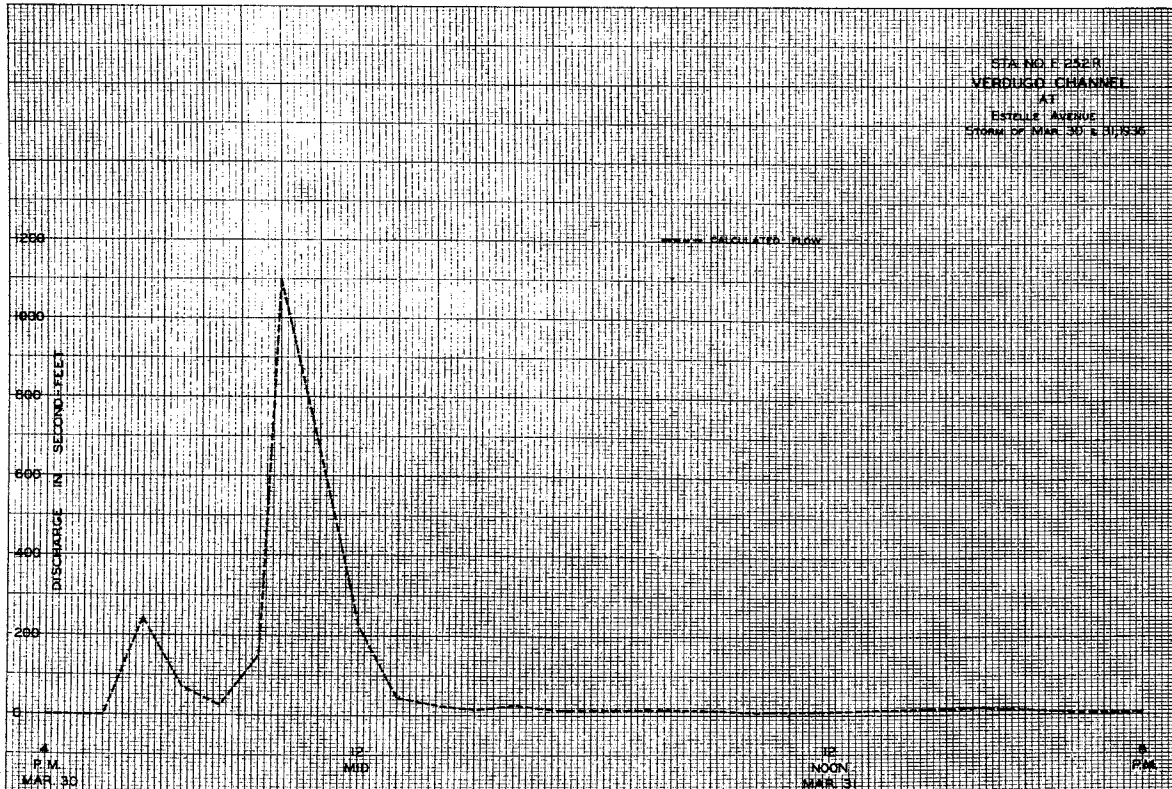
Daily discharge, in second-feet of **VERDUGO CHANNEL at Estelle Ave.** for the year ending September 30, 19**36**

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					30	#	2.7	+	0	0	0	0
2					40	#	1.9	0	0	0	0	0
3					2.7	#	7.7	0	0	0	0	0
4					1.9	#	10.5	0	0	0	0	0
5					1.5	#	1.5	0	0	0	0	0
6					1.1	0	1.3	0	0	0	0	0
7					2.5	0	1.3	0	0	0	0	0
8					1.9	0	1.3	0	0	0	0	0
9					4.9	#	1.3	0	0	0	0	0
10					4.4	#	1.1	0	0	0	0	0
11					106	0	1.1	0	0	0	0	0
12					26	0	0.9	0	0	0	0	0
13					53	0	0.9	0	0	0	0	0
14					#	0	0.8	0	0	0	0	0
15					#	0	0.8	0	0	0	0	0
16					#	0	0.8	0	0	0	0	0
17					#	0	0.8	0	0	0	0	0
18					#	0	0.8	0	0	0	0	0
19					#	0	0.8	0	0	0	0	0
20					#	0	0.8	0	0	0	0	0
21					#	0	0.4	0	0	0	0	0
22					#	0	0.4	0	0	0	0	0
23					#	0	0.4	0	0	0	0	0
24					#	0	0.4	0	0	0	0	0
25					#	0	0.2	0	0	0	0	0
26					#	0	0.2	0	0	0	0	0
27					#	0	0.2	0	0	0	0	0
28					#	0	+	0	0	0	0	0
29					#	0	+	0	0	0	0	0
30				0		10.5	+	0	0	0	0	0
31				0.8		17.7	+	0	0	0	0	0
							41.4	+	0	0	0	0

MEAN							1.38	+	0	0	0	0
ACR. FEET							82	+	0	0	0	0

Remarks: + Indicates discharge 0.05 second-feet or less.
Not computed due to debris in channel.

YEAR OR PERIOD _____ MEAN _____
ACR. FEET _____



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. F 47 R

Station F47R

WALNUT CREEK at Covina Blvd.

Discharge measurements of WALNUT CREEK

at Covina Blvd., during the year ending September 30, 19 35

Location

On downstream end of 1st pier from south side of highway bridge, about 1/2 mile southwest of Baldwin Park. This station is at or near the location of the station operated in 1923 by the State Division of Water Rights.

Drainage area

99 square miles.

Channel and control

Channel - sand and gravel.
No artificial control.

Measurements taken

At low flow by wading.
At high flow from downstream side of highway bridge at the station.

Recorder

Installed December 15, 1926 in a Standard F. C. type house over a corrugated iron pipe stilling well.
National 7 day horizontal recorder.

Regulation

Flow partially regulated by Big Dalton Dam, San Dimas Dam, Puddingstone Diversion, Puddingstone Dam, Live Oak Dam and Thompson Creek Dam.

Diversions

Some water diverted for irrigation at Puddingstone Dam.

Records available

December 15, 1926 to Sept. 30, 1936.
(For records prior to December 15, 1926 see State Division of Water Rights Bulletins.)

Extremes of discharge

1928-29
Maximum 302 second-feet March 10
Minimum no flow most of year
1929-30
Maximum 900 second-feet January 11
Minimum no flow most of year
1930-31
Maximum 123 second-feet February 4
Minimum no flow most of year
1931-32
Maximum 1780 second-feet February 9
Minimum no flow most of year
1932-33
Maximum 748 second-feet January 19
Minimum no flow most of year
1933-34
Maximum 8060 second-feet January 1
Minimum no flow most of year
1934-35
Maximum 2340 second-feet October 17
Minimum no flow most of year
1935-36
Maximum 2450 second-feet February 12
Minimum no flow most of year

Accuracy

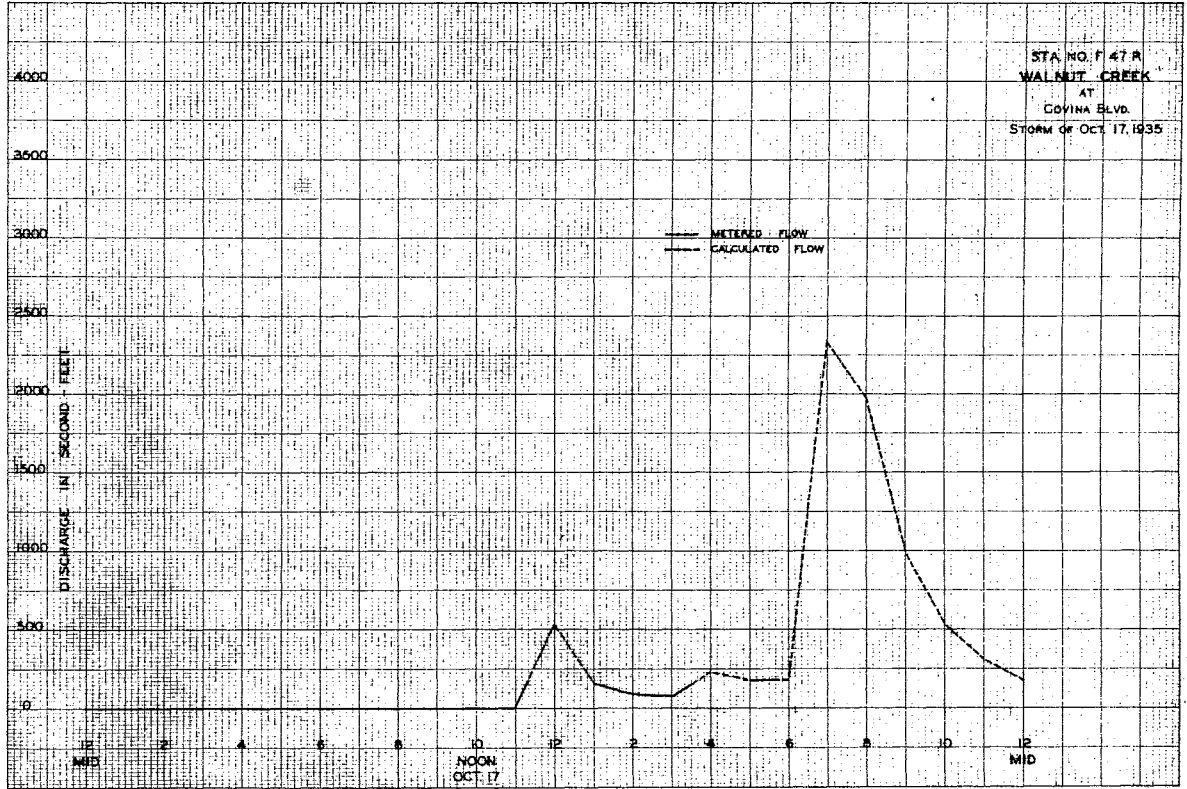
1934-35 poor.
1935-36 fair.
Inlet obstructed: April 12-16, 1935.

Operation

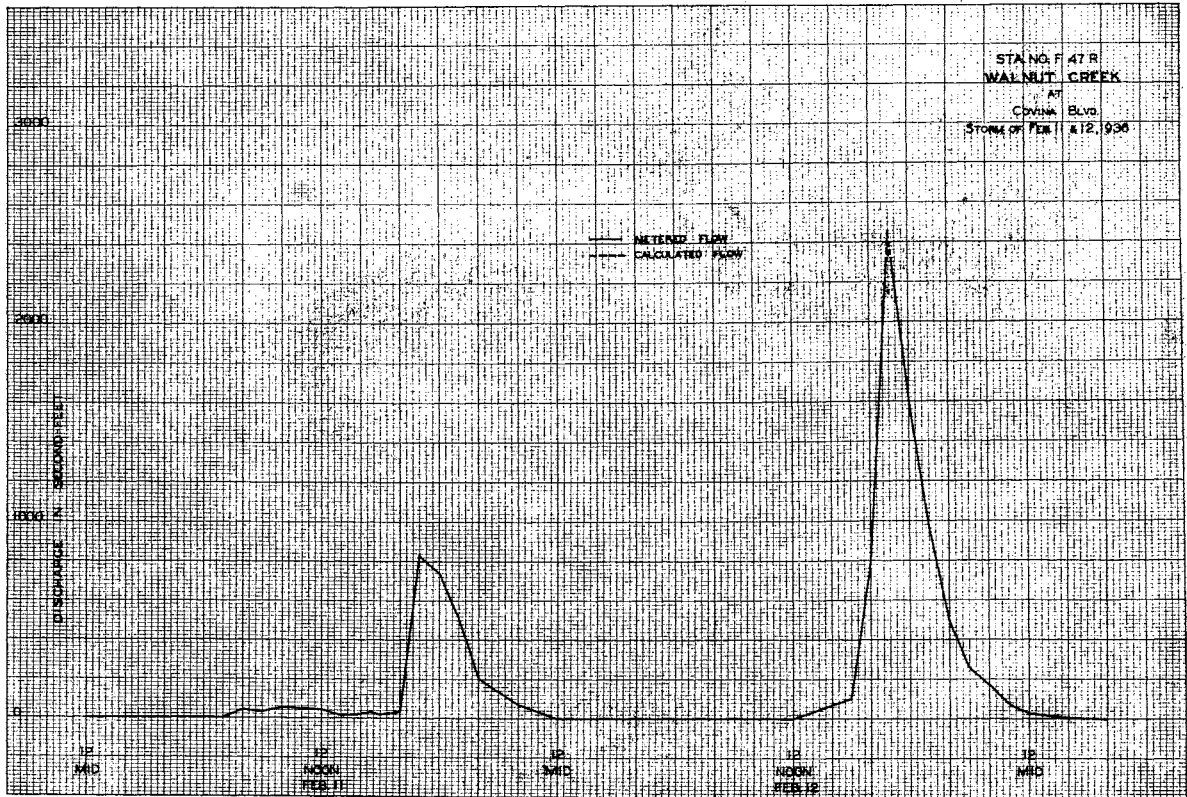
Located, constructed and operated by the Los Angeles County Flood Control District.

No.	Date	Made by	Width feet	Area of section sq. ft.	Mean velocity ft. per sec.	Gage height feet	Discharge sec.-ft.	Rating curve No.	Method	Max. flow No.	U. S. Gage No.	Begin year	End year	Notes
1	10/17	Brewster	80.0	64.1	3.38	3.11	217.		.6	8	-08	1120A	545P	FC 8
2	10/18	" - Boone	32.0	16.86	2.86	2.55	49.		.6	7	-10	1140A	515P	"
3	10/18	" "	84.0	73.78	3.54	2.69	261.		.6	9	-08	800P	515P	"
4	10/19	" "	1.0	.10	.80	2.10	.08		.6	2	0	810P	802P	"
5	11/1	" "	3.0	.61	.98	2.08	.60		.6	3	0	814P	802P	"
6	11/16	" "	6.0	1.18	1.61	2.08	1.9		.6	5	0	1000A	810P	"
7	12/13	" - Boone	22.0	9.65	2.41	2.28	25.		.6	7	0	1005A	810P	"
8	12/13	" "	110.0	128.0	4.33	3.05	556.		.6	11	-10	610P	545P	"
9	12/13	" - Boone	102.0	57.4	2.36	2.54	136.		.6	11	-08	800P	785P	"
10	12/14	" "	54.0	32.68	1.51	2.15	49.		.6	6	+08	1020A	800P	"
11	12/14	" "	56.0	33.50	1.78	2.21	60.		.6	6	-08	800P	440P	"
12	12/17	" "					8.					955A	800P	"
13	12/28	" "	10.0	4.76	1.82	2.07	8.6		.6	5	-02	1035A	800P	FC 8
14	1/5	" "	80.0	40.20	2.78	2.40	112.		.6	9	-04	845A	810P	"
15	1/5	" "	12.0	4.82	3.09	1.90	15.		.6	6	0	1100A	140P	"
16	1/9	" "	1.5	.28	.75	1.56	.21		.6	2	0	142P	1040A	"
17	1/11	" "	4.0	1.20	1.27	1.77	1.6		.6	4	0	1045A	900A	"
18	1/15	" "	48.0	30.08	2.44	2.24	73.		.6	5	-04	905A	1118A	"
19	1/15	" - Boone	20.0	8.36	1.60	1.85	13.		.6	5	-01	1128A	185P	"
20	1/15	" "	8.0	1.70	.94	1.63	1.6		.6	4	-02	120P	515P	"
21	1/21	" "	8.0	2.44	1.43	1.82	3.5		.6	4	0	520P	185P	"
22	2/4	" "	3.0	.45	1.16	1.75	.60		.6	3	0	1250P	800A	"
23	2/5	" "	11.0	6.17	2.94	1.94	18.		.6	6	-02	810A	1018A	"
24	2/5	" "	3.0	.98	1.16	1.70	1.1		.6	3	0	1018A	347P	FC 8
25	2/6	Brewster	1.0	.15	.73	1.62	.11		.6	2	0	845P	485P	"
26	3/2	" "	2.0	.33	.70	1.66	.23		.6	2	0	487P	180P	"
27	3/7	" "	12.0	6.62	2.02	1.95	13.		.6	6	0	180P	855A	"
28	3/24	" "	3.0	.49	1.00	1.70	.49		.6	3	0	900A	810P	"
29	3/28	" "	6.0	1.29	1.27	1.77	1.8		.6	5	0	515P	755A	"
30	4/8	" "	58.0	41.52	2.88	2.27	120.		.6	8	+08	750A	1020A	"
31	4/8	" - Boone	56.0	32.57	2.76	2.14	90.		.6	7	-01	1050A	810P	"
32	4/8	" "	16.0	12.03	3.36	2.08	41.		.6	4	0	215P	425P	"
33	4/8	" "	14.0	9.32	2.42	1.93	25.		.6	4	0	451P	1010A	"
34	4/9	" "	5.0	1.95	1.53	1.78	5.0		.6	5	0	850P	266P	"
35	4/11	" "	10.0	4.02	1.63	1.82	6.6		.6	5	0	246P	246P	"
36	5/16	" "	8.0	1.94	1.06	1.69	2.0		.6	0		250P	250P	"

CHAPMAN & CHAPMAN, INC. ENGINEERS
1000 BAYVIEW BLVD.
SAN FRANCISCO, CALIF.



CHAPMAN & CHAPMAN, INC. ENGINEERS
1000 BAYVIEW BLVD.
SAN FRANCISCO, CALIF.



RIISING WATER AT WHITTIER NARROWS

This is a computed discharge determined weekly, except when there is bank run-off during storms, from discharge measurements by the formula:

$$X = \{ A + B + (C - D) + F + (G - H) \} - (K + L)$$

In which, in general,

- X = the rising water at Whittier Narrows, in second-feet.
- A = the measured discharge at Station F64R, Rio Hondo 1000 ft. above Mission Bridge.
- B = the measured discharge at Station F83R, Rio Hondo Slough at San Gabriel Blvd.
- C = the measured discharge at station F84S, Gate ditch below sluice gate.
- D = the measured, or estimated, discharge from the Gate Ditch Well.
- F = the measured discharge at Station F85S, Standifer Ditch below headgate.
- G = the measured discharge at Station F86S, San Gabriel River below Standifer Ditch.
- H = the measured discharge of San Gabriel River at Durfee Road Crossing.
- K = the measured discharge at Station F66S, Tri-City Outfall Sewer above junction with Rio Hondo.

and, L = measured discharge of Rio Hondo below Confluence with El Monte Sewer.

For the purpose of determining the monthly and yearly run-off, straight line variation in flow between measurements has been assumed.

F. C. New, Foreman

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. _____

Daily discharge, in second-feet of, **RIISING WATER AT WHITTIER NARROWS** for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4	45											
5												
6												
7												
8												
9												
10	44											
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31	43											
Month	1361	1370	1505	1533	1695	1790	1657	1472	1361	1157	1033	1031
Year	2700	2720	2990	3040	3360	3550	3290	2920	2500	2290	2050	2040
Mean	43.9	45.7	48.6	49.5	58.4	57.7	55.2	47.5	42.0	37.3	33.3	34.4
Remarks:												

Yearly Run-off _____
Acres Feet _____ 31450

F. C. New, Foreman

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. _____

Daily discharge, in second-feet of, **RIISING WATER AT WHITTIER NARROWS** for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4	33											
5												
6												
7												
8												
9												
10	32											
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
Month	1084	1163	1312	1367	1266	1442	1656	1632	1411	1264	1162	1201
Year	2650	2810	2800	2710	2490	2880	3060	3240	2800	2510	2290	2280
Mean	35.0	38.8	42.3	44.1	44.2	46.5	51.3	52.6	47.0	40.8	37.2	40.0
Remarks:												

Yearly Run-off _____
Acres Feet _____ 31280

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. ULR

Station ULR

ARROYO SECO near Pasadena, Calif.

Discharge measurements of ARROYO SECO

near Pasadena, Calif. during the year ending September 30, 1935

Location

Water-stage recorder, lat. 34°13'20", long. 118°10'40"
near north line of sec. 31 T. 2 N., R. 12 W., 1 1/2 miles above
mouth of Millard Canyon and 5 1/2 miles northwest of Pasadena.
Altitude, about 1,400 feet.

Drainage area

16.4 square miles.

Records available

December 1910 to September 1936.

Average discharge

21 years (1913-15, 1916-35), 8.57 second-feet.
22 years (1913-15, 1916-36), 8.40 second-feet.

Extremes of discharge

1934-35
Maximum 2000 second-feet Oct. 17
Minimum less than 0.1 second-feet Oct. 1-16.
1935-36
Maximum 706 second-feet Feb. 12.
Minimum less than 0.1 second-feet at numerous times.
1910-36
Maximum about 5630 second-feet February 20, 1914
Minimum practically no flow for several periods
each year.

Remarks

1934-35 - Records poor. Discharge estimated Oct. 1 to
Feb. 10, April 9-15, April 30, June 1 to Sept. 30.
1935-36 - Records fair. Discharge July 6-14, August 1
to Sept. 30 computed on basis of seven discharge measure-
ments and partial gage-height records.

No diversions above station. The station is owned and
operated by the U.S.G.S. Water Resources Branch. The Los
Angeles County Flood Control District cooperates with the
U.S.G.S. to the extent of making meter measurements at
various times.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. ULR

Discharge measurements of ARROYO SECO

near Pasadena, Calif. during the year ending September 30, 1935

No.	Date	Made by	Wt. of Ft.	Area of Bottom Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. ft.	Rating Curve ft.	Mean No.	G. H. stage feet	Regn. Sta.	Meter No.
715	10-4	Lindsay	0.5	0.04	0.50	2.27	0.02	.6	2	-	108P 109P 1055A	FG 21
716	10-10	"	.45	.03	.52	2.27	.02	.6	2	-	1055A	"
717	10-16	H. J. Tompkins	19	5.7	10	3.90	57		2			28131
718	10-19	"	4.5	1.7	3.82	4.32	6.5	.6	5			"
719	10-22	Harold G. Troxell	3.7	.67	2.08		1.4					29567
720	10-23	H. J. Tompkins	1.5	.35	3.71	4.22	1.3					28131
721	10-26	Lindsay	2.8	.31	2.13		.65	.6	5	-	1005A 1010A	FG 21
722	10-26	H. J. Tompkins	1.5	.3	3.00	4.25	.9		2			28131
723	10-31	"	1.3	.26	2.58	4.25	.65		2			"
724	11-1	"	1.5	.38	3.16	4.28	1.2		2			"
725	11-1	Lindsay	3.7	.40	2.33		.95	.6	5	-	1235P 1240P	"
726	11-6	H. J. Tompkins	1.5	.34	2.44	4.40	.85		2			28131
727	11-9	Lindsay	3.0	.31	2.07		.65	.6	4	-	920A 925A	FG 21
728	11-9	H. J. Tompkins	1.3	.26	3.08	4.38	.80		2			28131
729	11-15	Lindsay - Cole	2.8	.29	2.17		.65	.6	5	-	230P 235P	FG 21
730	11-16	H. J. Tompkins	4.5	1.6	5.94	4.57	9.5		4			28131
731	11-18	"	4	.80	4.88	4.44	3.9					"
732	11-19	"	5.3	1.8	5.39	4.50	9.7	.6	6			"
733	11-21	"	2.8	.88	5.00	4.40	4.4	.6	6			"
734	11-22	Lindsay	Two Channels					.6	11		1040A 1055A	FG 21
735	11-23	H. J. Tompkins	3.5	.75	4.67	4.40	3.5	.6	3			28131
736	11-27	"	2.5	.50	4.00	4.35	2.0		4			"
737	11-28	Lindsay	4.0	.51	3.33		1.7		6		900A 905A	FG 21
738	11-30	H. J. Tompkins	2.6	.5	4.40	4.24	2.2					"

No.	Date	Made by	Wt. of Ft.	Area of Bottom Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. ft.	Rating Curve ft.	Mean No.	G. H. stage feet	Regn. Sta.	Meter No.
739	12-6	Lindsay	3.9	.5	2.64		1.3					400P 405P
740	12-8	H. J. Tompkins	7	2.8	6.42	4.70	18					28131
741	12-10	"	3	1.0	6.10	4.53	6.1					"
742	12-13	"	2.3	.23	12.00	4.95	276					"
743	12-16	"	23	7.6	6.58	5.02	50					"
744	12-20	Lindsay	18	2.8	3.97		11					230P 240P
745	12-20	H. J. Tompkins	13	2.7	4.77	4.85	13					28131
746	12-24	"	8.5	2.2	4.55	4.80	10					"
747	12-27	Lindsay	7.5	1.4	3.58		5					1135A 1145A
748	12-28	H. J. Tompkins	22	7.4	7.00	4.92	52					28131
749	1-2	"	5.7	1.6	6.89	4.75	11					"
750	1-4	Lindsay	13	2.3	4.86		11					1145A 1155A
751	1-6	H. J. Tompkins	22	7.7	6.62	5.07	51					28131
752	1-8	"	13	4.5	4.94	30						"
753	1-10	"	20.5	5.5	5.48	30						915A 925A
754	1-10	H. J. Tompkins	19.5	5.6	5.55	4.98	31					28131
755	1-14	"	11	3.4	7.07	5.05	24					"
756	1-15	"	22.5	8.8	6.45	4.95	57					"
757	1-17	Lindsay	70	4.9	5.64		27					115P 130P
758	1-17	H. J. Tompkins	4.4	7.51	5.05	33						"
759	1-19	"	10	4.4	5.69	5.12	25					28131
760	1-22	"	9.8	3.6	5.55	4.40	20					"
761	1-23	Lindsay	11.5	4.1	4.20		17					1150A 1200A
762	1-25	H. J. Tompkins	6	3.4	5.00	3.86	17					28131
763	12-26	H. J. Tompkins	8	3.7	4.05	3.00	15					"
764	12-29	"	9	3.8	3.16	2.82	12					"
765	1-30	Lindsay	6.5	3.4	3.16		11					950A 1000A
766	12-31	H. J. Tompkins	9	3.4	3.24	3.00	11					28131
767	2-5	"	15	6	6.50	3.70	39					"
768	2-7	"	11	6.2	5.00	3.26	31					"
769	2-7	Lindsay	12	6.4	4.07		25					1050A 1100A
770	2-11	H. J. Tompkins	12.5	6.4	2.81	2.80	18					28131
771	2-14	"	12	6.4	3.12	2.76	20					"
772	2-14	Cole-Meredith	11	6.1	2.77	2.76	17					1245P 100P 220P
773	2-20	Lindsay	12	5.2	1.71	2.70	8.8					230P
774	2-23	H. J. Tompkins	11.5	5.1	2.16	2.70	11					28131
775	2-28	"	6.7	3.7	2.36	2.65	8.7					100P 110P
776	2-1	H. J. Tompkins	12	5.3	1.79	2.66	9.5					28131
777	2-2	"	11.5	6.8	4.71	2.92	32					"
778	2-5	R. Stanley Lord	12.5	4.9	2.24	2.70	11					1215
779	2-5	H. J. Tompkins	6.1	3.6	3.06	2.70	11					28131
780	3-6	Lindsay	12	4.7	2.09	2.68	9.8					1145A 1155A
781	3-8	H. J. Tompkins	9.8	5	2.60	2.74	13					28131
782	3-9	R. Stanley Lord	12.5	6	2.17	2.73	13					1215
783	3-11	"	12.5	5.4	2.22	2.70	12					"
784	3-11	H. J. Tompkins	7.5	4.2	2.62	2.70	11					28131
785	3-14	Lindsay	12.3	4.8	2.01	2.67	9.6					1105A 1113A
786	3-16	H. J. Tompkins	6.6	4.1	2.29	2.68	9.4					28131
787	3-21	Cole	8.3	3.5	2.15	2.67	7.5					1050A 1112A
788	3-22	H. J. Tompkins	6.5	3.9	2.28	2.66	8.9					28131
789	3-25	"	12	4.9	2.24	2.66	11					"
790	3-28	Lindsay	12	4.5	1.83	2.66	8.2					1135A 1145A
791	2-30	H. J. Tompkins	6.7	4	2.18	2.64	8.7					28131
792	4-4	Lindsay	12	4.6	1.92	2.67	8.9					1145A 1155A
793	4-4	H. J. Tompkins	6.5	3.9	2.15	2.66	8.4					28131
794	4-9	"	22	11.4	6.27	4.00	69					"

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U. 1 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U. 1 R

Discharge measurements of ARROYO SECO

Discharge measurements of ARROYO SECO

near Pasadena, Calif. during the year ending September 30, 1935

near Pasadena, Calif. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area, Mean, Stage, Discharge, Bridge, Meas., G. H., Regis., Meter, No., Date, Made by, Width, Area, Mean, Stage, Discharge, Bridge, Meas., G. H., Regis., Meter. Contains discharge data for various dates and stations from 1935 to 1936.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 9 R

Station U9R

DALTON CREEK near Glendora

Discharge measurements of DALTON CREEK

near Glendora, Calif., during the year ending September 30, 19 35

Location

Water-stage recorder, lat. 34° 9' 20", long. 117° 49' 50", in center of sec. 21, T. 1 N., R. 9 W., at Glendora Irrigation Co.'s dam a quarter of a mile above mouth and 2 1/2 miles northeast of Glendora. Altitude, about 1,150 feet.

Drainage area

7.5 square miles.

Records available

December 1919 to September 1935.

Average discharge

15 years (1920-35), 1.01 second-feet.
16 years (1920-36), 0.97 second-feet.

Extremes of discharge

1934-35
Maximum 14 second-feet Apr. 8
Minimum no flow during parts of several months
1935-36
Maximum 120 second-feet Feb. 11
Minimum no flow for parts of several months
1919-36
Maximum 660 second-feet February 16, 1927
Minimum no flow several months each year

Remarks

1934-35 - Records good
1935-36 - Records good.

Glendora Irrigation Co. diverts above gage through a 10 inch pipe line. A 12 inch pipe line diverts water just below gage. Storage at flood control dam about 1 mile upstream. Station owned and operated by the U.S.G.S. Water Resources Branch. The Los Angeles County Flood Control District cooperates with the U.S.G.S. to the extent of making meter measurements at various times.

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage (feet)	Discharge (cfs)	Rating (cfs)	Meter No.	Q. M. Gauge Total	Reps. Total	Meter No.
312	2/7	Brewster	4.	1.3	1.22	1.13	1.56		.6	4	0	250P 255P
313	2/12	H. J. Tompkins	4.	.8	.80	1.10	.65					28131
314	2/14	Brewster	2.5	.81	1.22	1.10	1.0		.6	5	0	245P 250P 350P 355P
315	2/20	"	2.5	.67	1.09	1.07	.75		.6	5	0	
316	2/27	F. C. Ebert		.38	.76	1.06	.29		.6	4		27214
317	2/28	Brewster	2.0	.44	.98	1.05	.43		.6	4	0	340P 345P
318	3/7	"	4.0	.90	.80	1.08	.70		.6	4	0	215P 405P
319	3/14	"	2.0	.44	.91	1.05	.40		.6	4	0	410P
320	3/18	R. Stanley Lord	1.9	.47	.77	1.06	.36		.6	4		1215
321	3/21	Brewster	2.0	.63	.98	1.08	.60		.6	4	0	254P 258P 420P
322	3/28	"	2.0	.62	.76	1.04	.47		.6	4	0	425P
323	3/29	H. J. Tompkins	1.8	.36	.95	1.04	.34			2		28131
323a	4/4	Brewster	2.0	.71	.75	1.04	.50		.6	4	0	305P 308P
324	4/8	Brewster-Boone	5.0	2.88	2.99	1.28	8.6		.6	5	0	1110A 1115A
325	4/8	F. C. Ebert	5.3	2.9	2.14	1.28	6.2		.6	11		27214
326	4/9	"	4.5	1.5	1.47	1.18	2.2		.6	8		"
327	4/11	Brewster	4.0	1.0	1.50	1.11	1.5		.6	4	0	320P 325P
328	4/12	H. J. Tompkins	1.9	.75	1.46	1.10	1.1			2		28131
329	4/18	Brewster	4.0	.93	1.00	1.08	.95		.6	4	0	350P 355P 400P
330	4/25	"	3.0	.61	1.03	1.06	.65		.6	5	0	"
331	5/2	H. J. Tompkins	1.8	.65	1.15	1.06	.75		.6	2		28131
332	5/2	Brewster	3.0	.65	.98	1.07	.65		.6	5	0	450P 455P
333	5/8	H. J. Tompkins	1.8	.7	.86	1.06	.6		.6	2		28131
334	5/9	Brewster	3.0	.57	.91	1.06	.5		.6	5	0	430P 435P
335	5/14	R. Stanley Lord	3.6	.76	.76	1.06	.6		.6	7		1215
336	5/16	Brewster	3.0	.88	1.03	1.07	.7		.6	5	0	344P 320P 324P
337	5/23	"	1.0	.31	.39	1.00	.12		.6	2	0	320P 325P
338	5/29	"	1.0	.32	1.09	1.02	.35		.6	2	0	325P
339	6/6	"	1.0	.18	.33	.98	.06		.6	2	0	315P 320P
340	6/13	"	.5	.08	.50	.97	.04		.6	1	0	310P 313P
341	6/20	"	.3	.08	.62	.96	.05		.6	1	0	307P
342	6/27	"	0.5	.09	.44	0.95	0.04		.6	1	0	350P 353P
343	7/3	"	.5	.05	.40	.95	.02		.6	1	0	340P
344	7/11	"	.5	.05	.60	.95	.03		.6	1	0	342P 250P 252P
344A	7/18	"				.94	.01	Est.				310P
344B	7/25	"				.94	.01	Est.				330P
344C	8/1	"				.0						
344D	8/8	"	.5	.09	.67	.98	.06		.6	1	0	340P 342P
344E	8/15	"				.93	.01	Est.				400P
344F	8/22	"				.0						220P
344G	9/12	"				.94	.01	Est.				410P
344H	9/12	"				.0						300P
344I	9/26	"				.94	.01	Est.				400P

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 9 R

Discharge measurements of DALTON CREEK

near Glendora, Calif., during the year ending September 30, 19 35

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage (feet)	Discharge (cfs)	Rating (cfs)	Meter No.	Q. M. Gauge Total	Reps. Total	Meter No.
288	10/18	F. C. Ebert	8.7	1.7	0.71	1.11	1.2		.6	9		27214
289	10/19	Brewster	1.5	.48	.98	1.05	.47		.6	3	0	1130A 1134A 1020A
290	10/26	"	.5	.05	.20	.96	.01		.6	1	0	1022A 1050A 1052A
291	11/2	"	.5	.05	.21	.95	.01		.6	1	0	1220P 1223P
292	11/9	"	.5	.05	.20	.95	.01		.6	1	0	330P 333P
293	11/15	"	.5	.05	.40	.96	.02		.6	1	0	310P 315P 318P
294	11/22	"	1.0	.19	.42	.98	.08		.6	2	0	105P 1250P
295	11/28	"	1.0	.20	.35	.98	.07		.6	2	0	1255P
296	12/6	"	1.5	.09	.44	.97	.04		.6	1	0	340P 342P
297	12/13	Brewster-Boone	2.0	.87	1.16	1.11	1.0		.6	4	0	27214
298	12/14	F. C. Ebert	Mean of 2 meas.		1.34	8.6						
299	12/15	"	7.	2.0	1.00	1.18	2.0		.6	7		"
300	12/19	H. J. Tompkins	2	.6	.92	1.06	.55			2		28131
301	12/20	Brewster	2	.61	.77	1.05	.47		.6	4	0	500P 503P
302	12/27	"	2	.50	.72	1.04	.36		.6	4	0	845A 849A
303	1/3	"	2	.66	.76	1.05	.50		.6	4	0	400P 405P 240P
304	1/5	"	4	1.8	1.17	1.15	2.1		.6	4	0	245P 145P
305	1/10	"	2	.66	1.17	1.07	.75		.6	4	0	149P
306	1/15	F. C. Ebert	3.4	1.1	1.45	1.14	1.6		.6	7		27214
307	1/17	Brewster	5.	.88	.89	1.09	.85		.6	5	0	345P 348P
308	1/24	"	4	.81	1.06	1.08	.85		.6	4	0	420P 425P 400P
309	1/31	"	2	.47	1.09	1.05	.50		.6	4	0	405P
310	2/5	F. C. Ebert	5.2	1.7	1.35	1.17	2.3		.6	9		27214
311	2/6	Brewster	4.	1.3	1.31	1.14	1.7		.6	4	0	430P 435P

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U2R

Station U2R

EATON CREEK near Pasadena, Calif.

Discharge measurements of EATON CREEK

at Pasadena, Calif., during the year ending September 30, 1936.

Location

Water-stage recorder, lat. 34°11'40", long. 118°06'15", in S.E. 1/4 sec. 2, T. 1 N., R. 12 W., at mouth of canyon, just above Mount Wilson toll bridge and 4 miles northeast of Pasadena. Altitude 1,230 feet.

Drainage area

6.5 square miles.

Records available

March 1918 to September 1936.

Average discharge

17 years, 1.98 second-feet.
18 years, 1.94 second-feet.

Extremes of discharge

1934-35
Maximum 274 second-feet April 8
Minimum no flow for several months
1935-36
Maximum 143 second-feet Feb. 12
Minimum no flow for several months
1918-35
Maximum about 1360 second-feet April 7, 1926
Minimum no flow for periods each year

Remarks

1934-35 - Records good.
1935-36 - Records good.

Water diverted above the station by City of Pasadena is not included in tables of daily and monthly discharge; record of diversion furnished by city.

The station is owned and operated by the U.S.G.S. Water Resources Branch. The Los Angeles County Flood Control District cooperates with the U.S.G.S. to the extent of making meter measurements at various times.

Monthly diversion, in acre-feet, from Eaton Creek by City of Pasadena, water years of 1934-35 and 1935-36.

	1934-35	1935-36	1934-35	1935-36
October	25	27	April	234
November	44	37	May	254
December	105	42	June	129
January	234	45	July	77
February	210	146	AUGUST	40
March	212	190	September	24
				14

Totals 1590 925

Discharge measurements of EATON CREEK

at Pasadena, Calif., during the year ending September 30, 1935

No.	Date	Made by	Wash Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Cross Section feet	Discharge Sec. ft.	Rating Stage feet	Method	Min. No.	G. H. Stage Feet	Stage Feet	Remarks
175	2/2	Lindsay & Young	20.0	7.91	4.27	2.12	34						1255P 104P FC 28
176	2/2	H. J. Tompkins	13.	5.3	5.10	1.90	27.						28131
177	2/11	Lindsay & Young	16.5	10.	3.69	2.10	38.						918P 932P FC 28
178	2/12	Gole & Kenniston	17.8	12.	4.93	2.36	60						955P 1020P FC 7
179	2/13	Pasa. Water Dept.				2.03	33						1124A 1135A FC 28
180	2/13	Lindsay & Wall	14.0	7.93	4.55	2.06	36						
181	2/13	Pasa. Water Dept.				2.09	37						
182	2/13	"				2.21	53						
183	2/13	"				2.37	66						
184	2/13	"				2.49	91						
185	2/13	"				2.70	140						
186	2/15	H. J. Tompkins	19.	9.5	3.89	2.10	37				15		28131
187	2/16	R. Stanley Lord	17.	12.	4.08	2.17	49						1215
188	2/17	Pasa. Water Dept.				1.81	16						
189	2/19	"				1.67	8.2						
190	2/20	Lindsay	10.5	4.05	1.61	1.62	6.5						1244P 1259P FC 28
191	2/20	Pasa. Water Dept.				1.61	5.6						
192	2/20	"				1.58	5.8						
193	2/25	H. J. Tompkins	7.5	3.9	1.75	1.64	6.8				8		28131
194	2/26	Pasa. Water Dept.				1.58	4.7						
195	2/26	Lindsay	7.8	2.76	1.60	1.58	4.4						1127A 1134A FC 28
196	2/27	Pasa. Water Dept.				1.50	2.9						
197	2/28	"				1.50	2.7						
198	3/31	R. Stanley Lord	11.5	4.5	4.09	1.81	18.				10		353P 1215
199	4/1	Lindsay	3.0	4.4	1.25	1.25	27						6.5 0 358P FC 28
200	4/4	Lindsay & Wall	10.5	3.77	2.13	1.67	8.0						6.7 0 853A "
201	4/4	R. Stanley Lord	13.6	4.6	1.96		9.0						903A 1215

No.	Date	Made by	Wash Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Cross Section feet	Discharge Sec. ft.	Rating Stage feet	Method	Min. No.	G. H. Stage Feet	Stage Feet	Remarks
153	10/18	Lindsay & Richards	6.5	2.01	1.56	3.1							953A 959A FC 21
154	10/19	H. J. Tompkins	6	1.5	1.07	1.35	1.6						28131
155	11/16	Lindsay & Richards	3.7	.53	.45	1.15	.24						907A 915A FC 21
156	11/19	Lindsay	4.4	.83	1.22	1.30	1.0						1037A 1042A "
157	12/14	H. J. Tompkins	27.	2.2	4.55	2.50	102.						130P 139P 28131
158	12/14	Lindsay & Richards	16.	17.	4.29	2.27	74.						130P 139P FC 21
159	1/5	H. J. Tompkins	10.5	4.9	3.26	1.81	16.						245P 255P 28131
160	1/5	Lindsay & Richards	12.5	4.3	3.48	1.72	15.						325P 330P FC 21
161	1/9	"	6.7	1.8	1.33	1.33	2.4						1025A 1035A "
162	1/10	Lindsay	8.8	3.0	1.87	1.54	5.6						1035A "
163	1/15	H. J. Tompkins	10.	4.2	3.33	1.68	14.						28131
164	1/17	Lindsay	4.0	1.3	1.49	1.27	1.9						1242P 1247P FC 21
165	2/5	Lindsay & Richards	11	5.2	2.92	1.75	15.						953A 1000A "
166	2/6	H. J. Tompkins	12.	5.8	2.76	1.75	16.						28131
167	2/14	Gole & Meredith	3.0	.43	1.23	1.14	.53						130P 142P FC 28
167A	3/14	Lindsay				.89	.05						1145A
167B	3/23	Gole				0							100P
168	4/8	Lindsay	19	10	7.8	2.58	80.						105P 120P FC 21
169	4/11	"	11.5	4.3	1.92	1.62	8.3						1235P 1245P "
170	4/15	R. Stanley Lord	6.2	2.6	1.73	1.44	4.5						1215
171	4/17	H. J. Tompkins	2.5	.6	.83	1.10	.5						28131
172	4/25	Lindsay	2.8	1.1	1.39	1.20	1.6						925A 930A FC 21
173	4/29	H. J. Tompkins	13.	7.7	2.86	1.84	22.						28131
174	5/13	R. Stanley Lord	4.5	.84	.65	1.05	.55						1215

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U 7 R
for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Avg.	Sept.
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	17.7	0.0	156.0	76.9	70.7	8.4	156.5	4.7	0	0	0	0
Max.	0.87	0.06	5.05	2.48	2.55	0.27	5.22	0.15	0	0.01	0	0
Min.	0	0	0	0	0	0	0	0	0	0	0	0
Year	85	5.4	509	165	140	17	510	9.5	0	0	0	0
Accum.												
Year	1935											
Accum.												
Year	1935											
Accum.												

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. UTR
for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Avg.	Sept.
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0	0	0	0	0	0	0	0	0	0	0	0
Max.	0	0	0	0	0	0	0	0	0	0	0	0
Min.	0	0	0	0	0	0	0	0	0	0	0	0
Year	85	5.4	509	165	140	17	510	9.5	0	0	0	0
Accum.												
Year	1935											
Accum.												

F. C. D. Form 104 (10-11-34)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 7 R

Discharge measurements of FISH CREEK
near Duarte, Calif. during the year ending September 30, 1935

Station UTR
FISH CREEK near Duarte, Calif.

Location
Water-stage recorder, lat. 34° 10' 0" long. 117° 55' 25", in S.W. 1/4 S.W. 1/4 sec. 15, T. 1 N., R. 10 W., three-quarters of a mile above mouth of canyon and 3 miles northeast of Duarte.
Altitude, about 1,000 feet.

Drainage area
6.5 miles.

Records available
July to September 1916, July 1917 to September 1936.

Average discharge
18 years (1917-35) 3.33 second-feet. 19 years (1917-36), 3.39 second-feet.

Extremes of discharge
1934-35
Maximum 420 second-feet Apr. 8
Minimum less than 0.1 second-foot in October.
1935-36
Maximum 676 second-feet Feb. 2
Minimum 0.2 second-foot Oct. 10.
1916-36
Maximum about 2180 second-feet April 4, 1925
Minimum no flow during periods in 1919-21, 1924, 1929-30.

Remarks
1934-35 - Records fair. Discharge estimated Oct. 1-16, 19 Nov. 16, 17, Dec. 4-11, Jan. 7, 11-21, 29, 30, Feb. 8-11, 21-27, Apr. 9 to May 10.
1935-36 - Records good. Discharge estimated June 18.
Drainage from tunnel being constructed in this canyon for the Metropolitan Water District was wasted down Fish Creek after Dec. 25.
No diversions or regulation above station.
Station owned and operated by the U.S.G.S. Water Resources Branch. The Los Angeles County Flood Control District cooperates with the U.S.G.S. to the extent of making water measurements at various times.

No.	Date	Made by	Wash Feet	Area of Reach Sq. Ft.	Mean Velocity ft. per sec.	Obs. Stage ft.	Discharge cu. ft.	Rating	Method	Min. No.	0 ft. change	Rating	Notes
883	10/4	Lindsay	0.4	0.04	0.50	2.00	0.02	.6	1	0		517P	FC 21
884	10/5	H. J. Tompkins	.5	.10	.70	2.18	.07	.6	2	0		802A	28131
885	10/10	Lindsay	.9	.30	.60	2.20	.06	.6	2	0		803A	FC 21
886	10/18	Cole - Hofmann	6.2	2.2	2.62	2.80	5.8	.6	8	0		1125A	FC 11
887	10/20	H. J. Tompkins	3.9	1.1	.91	2.48	1.0	.6	5	0		1225P	28131
888	10/25	Lindsay	2.4	.6	.82	2.38	.5	.6	4	0		1228P	FC 21
889	10/29	H. J. Tompkins	2	.45	.78	2.36	.35		4	0			28131
890	11/2	Lindsay	2.6	.6	.95	2.38	.62	.6	4	0		835A	FC 21
891	11/7	H. J. Tompkins	2.5	.7	.71	2.36	.5	.6	5	0		841A	FC 21
892	11/8	Lindsay	2.4	.53	.75	2.34	.4	.6	4	0		250P	FC 21
893	11/15	Lindsay - Cole	2.4	.56	.70	2.37	.39	.6	4	0		300P	FC 21
894	11/15	H. J. Tompkins	1.8	.5	1.00	2.36	.5	.6	3	0		1140A	"
895	11/17	"	3.9	1.7	1.06	2.46	1.8	.6	5	0		1145A	"
896	11/19	Cole - Hofmann	6.1	1.9		2.59	3.3	.6	7	0		855A	FC 28
897	11/20	H. J. Tompkins	3.9	1.5	1.20	2.51	1.8	.6	5	0		905A	FC 28
898	11/23	Lindsay	3.4	.97	1.34	2.44	1.3	.6	5	0			28131
899	11/28	"	3.0	.72	1.06	2.40	.8	.6	6	0		838A	FC 21
900	11/28	H. J. Tompkins	3.2	1.1	.82	2.40	.9	.6	7	0		843A	FC 21
901	12/5	"	3.0	.7	.72	2.40	.55	.6	4	0		138P	FC 21
902	12/6	Lindsay	2.5	.57	1.23	2.39	.7	.6	4	0		144P	FC 21
903	12/11	H. J. Tompkins	3.4	1.1	.77	2.38	.85	.6	5	0		1143A	FC 21
904	12/14	Cole - Hofmann	20	16	4.03	3.52	66	.6	8	0		1147A	FC 21
905	12/14	"	20	16	3.95	3.50	62	.6	8	0			

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 7 R

Discharge measurements of FISH CREEK

xx near Duarte, Calif. during the year ending September 30, 19 35

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 7 R

Discharge measurements of FISH CREEK

xx near Duarte, Calif. during the year ending September 30, 19 35

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage height feet	Discharge Sec. ft.	Rating Point ft.	Method	Meas- ure No.	G. H. Stage Total	Begin End	Meas- ure No.	No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage height feet	Discharge Sec. ft.	Rating Point ft.	Method	Meas- ure No.	G. H. Stage Total	Begin End	Meas- ure No.						
907	11/17	H. J. Tompkins	Two channels		2.54	6.6							28131	954	5/31	Lindsay	5.3	1.8	1.42	2.60	2.5												
908	12/21	Lindsay		3.8	2.0	1.52	2.36	3.0					906A 913A 450P 500P	28131	955	6/3	H. J. Tompkins	5	2	1.30	2.60	2.6											
909	12/27	"		3.7	1.6	1.28	2.29	2.0					"	956	6/6	Lindsay	3.7	1.0	1.36	2.57	1.4												
910	1/3	"		3.6	1.6	1.49	2.32	2.5					912A 917A	957	6/7	H. J. Tompkins	5	1.5	1.20	2.57	1.8												
911	1/3	H. J. Tompkins		3.5	1.7	1.42	2.32	2.4					28131	958	6/14	Lindsay	3.8	1.2	1.38	2.58	1.6												
912	1/5	Cole - Hofmann		14	4.9	4.34	3.49	21					1228P 1243P	959	6/14	H. J. Tompkins	5	1.5	1.20	2.58	1.4												
913	1/7	H. J. Tompkins		9	3.2	2.81	2.88	9					28131	960	6/20	"	5	1.5	1.07	2.58	1.6												
914	1/16	Lindsay		10.5	3.8	2.79	2.84	10					1035A 1045A	961	6/20	Lindsay	3.7	1.0	.96	2.56	.95												
915	1/16	H. J. Tompkins		12.6	3.4	5.00	3.24	17					28131	962	6/26	H. J. Tompkins	5	1.5	1.07	2.56	1.6												
916	1/24	Lindsay		9	2.4	2.34	2.74	5.7					850A 910A	963	6/28	Lindsay	3.7	1.0	1.16	2.56	1.2												
917	1/28	H. J. Tompkins		4.3	2.6	1.42	2.68	3.7					28131	964	7/2	Brewster	4.0	1.5	1.45	2.57	2.2												
918	1/31	Lindsay		5	1.8	2.01	2.66	3.6					905A 915A 300P	965	7/5	H. J. Tompkins	2.0	.6	1.42	2.52	.85												
919	2/6	Cole		13.5	8	3.31	3.05	26					320P	966	7/10	Lindsay	3.6	.82	.97		.80												
920	2/7	H. J. Tompkins		13	6.8	3.24	2.80	22					28131	967	7/12	H. J. Tompkins	1.9	.75	.47	2.52	1.10												
921	2/15	Lindsay		9.5	4.0	2.06	2.72	8.2					842A 852A	968	7/16	"	1.8	.55	.14	2.52	.65												
922	2/15	H. J. Tompkins		10.8	4.3	1.86	2.70	8					28131	969	7/19	Lindsay	3.6	.86	.98	2.53	.85												
923	2/20	"		10.1	4	1.48	2.58	5.9					"	970	7/24	H. J. Tompkins	1.9	.55	.18	2.53	.65												
924	2/28	"		4.1	2.2	1.55	2.54	3.4					"	971	7/25	Lindsay	3.1	.64	.95	2.50	.60												
925	3/1	Lindsay		8	2.2	1.61	2.54	3.6					905A 915A 115P 135P	972	7/31	H. J. Tompkins	1.8	.55	.09	2.50	.6												
925A	3/2	Cole - Meredith											FC 28	973	7/31	Lindsay	1.8	.54	.07	2.48	.58												
926	3/5	R. Stanley Lord		10.1	2.8	1.46	2.59	4.1					1215	974	8/7	Brewster	3.0	.75	.88	2.47	.66												
927	3/7	H. J. Tompkins		7	3.4	2.23	2.66	7.6					28131	975	8/8	H. J. Tompkins	1.9	.55	.91	2.48	.5												
928	3/14	"		4	2.4	1.54	2.54	3.7					"	976	8/14	"	1.9	4.8	.77	2.44	.37												
929	3/14	Lindsay		4.3	1.7	1.87	2.54	3.1					318P 323P	977	8/15	Lindsay	1.9	.56	.96	2.47	.33												
930	3/22	H. J. Tompkins		3.9	1.9	1.53	2.53	2.9					28131	978	8/22	Lindsay	1.0	.28	1.07	2.42	.30												
931	3/26	"		4.1	2.4	1.45	2.54	3.5					"	979	8/22	H. J. Tompkins	1.0	.3	.97	2.42	.29												
932	3/27	Lindsay		4.2	1.8	1.60	2.53	2.9					230P 236P	980	8/27	"	1.0	.36	1.33	2.51	.48												
933	4/3	H. J. Tompkins		3.9	2.2	1.28	2.50	2.8					28131	981	8/28	Lindsay	1.0	.34	1.50	2.50	.51												
934	4/8	Cole		25	23	4.51	3.75	104					340P 400P	982	9/4	"	1.0	.30	1.20	2.46	.36												
935	4/10	H. J. Tompkins		13.5	9.8	2.04	2.94	20					28131	983	9/5	H. J. Tompkins	1	.36	1.30	2.46	.47												
936	4/10	Lindsay		14.2	11	2.14	2.91	23					400P 415P	984	9/11	Lindsay	.9	.27	.94	2.40	.25												
937	4/15	R. Stanley Lord		Mean of two meas.				13					1215	985	9/12	H. J. Tompkins	1	.2	.35	2.30	.07												
938	4/16	H. J. Tompkins		14	2.6	5.78	3.13	15					28131	986	9/19	"	1.0	.3	.97	2.42	.29												
939	4/19	Lindsay		13.5	3.3	2.48	2.78	8.1					720A 730A	987	9/20	Lindsay	.95	.24	.67	2.35	.16												
940	4/19	H. J. Tompkins		11	3.6	2.41	2.76	8.7					28131	988	9/25	"	1.0	.30	1.17	2.45	.35												
941	4/25	"		7.7	2.6	1.77	2.63	4.6					"	989	9/27	H. J. Tompkins	1.0	.3	1.23	2.46	.37												
942	4/26	Lindsay		11	3.7	1.55	2.63	4.9					617A 623A	FC 21																			
943	4/30	H. J. Tompkins		7.5	3.8	2.00	2.63	7.6					28131																				
944	5/3	"		6.7	3.0	1.67	2.64	5.0					"																				
945	5/3	Lindsay		9.0	3.0	1.77	2.66	5.2					615A 625A	FC 21																			
946	5/6	H. J. Tompkins		5.3	2.2	1.77		3.9					28131																				
947	5/10	Lindsay		7.5	2.3	1.70	2.60	3.9					633A 639A	FC 21																			
948	5/10	H. J. Tompkins		5.2	2.1	1.81	2.60	3.8					28131																				
949	5/14	R. Stanley Lord		6.5	2.5	1.84	2.63	4.6					1215																				
950	5/16	Lindsay		5.2	1.9	1.76	2.63	3.3					620A 628A	FC 21																			
951	5/17	H. J. Tompkins		5.5	2.2	1.68	2.62	3.7					28131																				
952	5/23	Lindsay		5.4	1.8	1.55	2.60	2.7					640A 646A	FC 21																			
953	5/23	H. J. Tompkins		5.3	1.6	1.25	2.60	2.0					28131																				

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U7R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U7R

Discharge measurements of FISH CREEK

Discharge measurements of FISH CREEK

IX near Duarte, Calif. during the year ending September 30, 1936

IX near Duarte, Calif. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage, Discharge, Rating, etc. Rows include measurements from 990 to 1038.

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage, Discharge, Rating, etc. Rows include measurements from 1039 to 1076.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U 7 R

Daily discharge in second-feet of FISH CREEK near Duarte, Calif. for the year ending September 30, 1935

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
1			0.6	0.8	2.8	3.2	2.9	6.5	2.6	1.9	0.5	0.5
2	+		0.6	0.8	2.7	3.2	3.2	6	2.6	2.2	1.6	1.5
3	+		0.6	0.8	2.5	3.2	4.4	6	2.2	1.6	1.5	1.5
4	+		0.6	0.8	2.1	6	4.2	4.5	1.9	1.1	1.5	1.5
5	+		0.6	0.8	2.1	61	4.2	3.2	1.9	1.9	1.5	1.5
6	+		0.6	0.8	13	89	3.7	2.9	1.9	1.9	1.5	1.5
7	+		0.6	0.8	10	83	5.5	3.9	1.6	1.9	1.5	1.5
8	+		0.6	0.8	10	80	4.8	3.9	1.6	1.9	1.5	1.5
9	+		0.6	0.8	11	16	4.9	3.9	1.6	1.9	1.5	1.5
10	+		0.6	0.8	11	15	4.4	3.9	1.6	1.9	1.5	1.5
11	+		0.6	0.8	11	15	4.2	20	3.9	1.4	1.9	1.5
12	+		0.6	0.8	11	11	3.9	18	4.2	1.4	1.9	1.5
13	+		0.6	0.8	10	10	3.4	17	4.2	1.4	1.9	1.5
14	+		0.6	0.8	80	10	2.1	16	4.4	1.4	1.9	1.5
15	+		0.6	0.8	14	14	3.1	14	4.2	1.4	1.9	1.5
16	+		0.6	0.8	7	14	2.9	14	3.7	1.4	1.9	1.5
17	16	1.8	6.5	10	7	2.6	12	3.3	1.2	1.7	1.4	1.1
18	8	1.9	6.5	9	7	2.6	10	3.3	1.1	1.7	1.4	1.1
19	3.0	2.0	3.9	11	7	2.6	8.5	2.9	1.1	1.7	1.4	1.1
20		2.0	3.9	12	7	2.6	7	2.6	1.1	1.7	1.4	1.1
21		1.1	3.9	6.5	6	2.9	6	2.2	1.1	1.6	1.2	1.1
22		1.1	3.9	6.5	6	2.9	5	1.9	1.1	1.5	1.2	1.1
23		1.3	3.6	5.5	5	2.9	4.9	2.2	1.1	1.5	1.1	1.1
24		1.3	3.6	5	5	7	4.9	2.2	1.1	1.5	1.1	1.1
25		1.3	3.6	4	4	4.2	4.9	2.2	1.1	1.5	1.1	1.1
26		1.3	3.6	4	4	2.9	4.7	2.2	1.1	1.5	1.1	1.1
27		1.3	3.6	4	4	2.9	4.7	2.2	1.1	1.5	1.1	1.1
28		1.3	3.6	4	4	2.9	4.7	2.2	1.1	1.5	1.1	1.1
29		1.3	3.6	4	4	2.9	4.7	2.2	1.1	1.5	1.1	1.1
30		1.3	3.6	4	4	2.9	4.7	2.2	1.1	1.5	1.1	1.1
31		1.3	3.6	4	4	2.9	4.7	2.2	1.1	1.5	1.1	1.1
Year			189.5	261.3	305.8	112.9	420.6	107.2	45.8	24.8	11.5	7.1
MEAN	1.13	1.07	6.11	8.42	10.9	3.64	14.0	3.46	1.46	0.80	0.37	0.24
Acres-Feet	70	62	376	519	607	224	824	215	87	49	23	14
Remarks	+ indicates discharge less than 0.1 sec. ft.											
Year	1935											
MEAN	4.25											
Acres-Feet	3,080.											

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U 7 R

Daily discharge in second-feet of FISH CREEK near Duarte, Calif. for the year ending September 30, 1936

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
1			0.5	0.5	1.2	5	7	7	2.6	3.2	1.9	1.9
2	0.0	0.0	0.5	0.5	1.1	5.9	9	10	2.6	3.2	1.9	1.9
3	0.0	0.0	0.5	0.5	0.9	5.5	7.5	3.2	2.5	3.0	1.8	1.8
4	0.0	0.0	0.5	0.5	0.9	2.6	7	1.5	2.5	2.2	1.8	1.8
5	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
6	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
7	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
8	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
9	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
10	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
11	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
12	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
13	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
14	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
15	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
16	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
17	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
18	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
19	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
20	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
21	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
22	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
23	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
24	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
25	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
26	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
27	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
28	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
29	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
30	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
31	0.0	0.0	0.5	0.5	0.9	1.5	11	7	2.5	2.2	1.8	1.8
Year			23.7	34.2	77.0	196.5	212.9	92.7	71.7	74.4	61.8	85.1
MEAN	0.44	0.50	0.76	1.10	2.66	6.34	7.10	2.99	2.39	2.40	1.99	2.84
Acres-Feet	27	30	47	68	1530	390	422	184	142	148	123	169
Remarks												
Year	1936											
MEAN	4.52											
Acres-Feet	3280											

Location
 West-stage recorder, 1st. The 1st 50' long, 180 1/4 1/2" in S.W. 1/4 N.W. 1/4 sec. 17 (revised), T. 18 R. 13 S. 7. 800 feet above mouth of canyon and 1/2 mile northeast of Tuljunga. Altitude, about 2,200 feet.

Drainage area
 1.2 square miles.

Records available
 February 1917 to September 1934, and Oct., 1935 to Sep., 1936.

Average discharge
 18 years, 0.11 second-feet.

Extremes of discharge
 1917-34, 1935-36: Maximum stage, 11.0 feet Jan. 1, 1934. (discharge not determined); no flow for periods nearly every year.

Remarks
 Records of daily discharge not sufficiently accurate to warrant publication.
 Station owned and operated by U.S.G.S. Water Resources Branch.

Station U12R
FISH CREEK near Tuljunga

Discharge measurement of FISH CREEK near Tuljunga, CALIF. during the year ending September 30, 1936

No.	Date	Made by	Width	Height	Area	Velocity	Discharge	Remarks
179	3/5	H. G. McCreary					0.27	0.01
180	3/11	"					.27	.009
181	3/20	"					.28	.007
182	3/25	"					.30	.007
183	4/1	"					.72	.007
184	4/11	"					.30	.008
185	5/1	"					.31	.006
186	5/16	"					.32	.005
187	6/2	"					.31	.005
188	6/17	"					.31	.002

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT
Station No. U 12 R

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U12R

Daily discharge, in second-feet of HAINES CREEK near Tujunga, Calif. for the year ending September 30, 1936

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
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	0.155	0.180	0.155	0.124	4.11	0.627	0.210	0.151	0.090	0	0	0

Max. discharge	0.005	0.006	0.005	0.004	0.142	0.02	0.007	0.005	0.003	0	0	0
Acres Feet	0.31	0.36	0.31	0.25	8.15	1.24	0.42	0.29	0.18	0	0	0

Remarks: * Estimated

Year on - - - - -
Max. 0.016
Acres Feet 11.5

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 3 R

Station U3R

LITTLE SANTA ANITA CREEK near Sierra Madre, Calif.

Discharge measurements of LITTLE SANTA ANITA CREEK

near Sierra Madre, Calif. during the year ending September 30, 1935

Location

Water-stage recorder, lat. 34°11'15", long. 118°0'35", near center of N. 1/4 sec. 9, T. 1 N., R. 11 W., 2 miles northeast of Sierra Madre. Altitude, about 2,200 feet.

Drainage area

1.9 square miles.

Records available

April 1916 to September 1936.

Average discharge

18 years (1916-25, 1926-35), 0.64 second-feet.
19 years (1916-25, 1926-36), 0.63 second-feet.

Extremes of discharge

1934-35

Maximum 130 second-feet April 8
Minimum less than 0.1 second-feet at times during October and September.

1935-36

Maximum 42 second-feet Feb. 12.
Minimum less than 0.1 second-feet at times during October and September

Remarks

1934-35 - Records good.
1935-36 - Records good.

No diversions above station. The station is owned and operated by the U.S.G.S. Water Resources Branch.

No.	Date	Made by	Wgage Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Chegg height feet	Discharge Sq. ft.	Rating Diagram used	Method	Min. gage No.	G. No. above Tread	Begin End	Min. No.
476	10/19	H. J. Tompkins	2.5	0.85	0.40	0.72	0.38			5			28131
477	11/1	"	.8	.24	.29	.60	.07			2			"
478	11/8	"	.8	.16	.50	.56	.08			2			"
479	11/14	"	.8	.20	.65	.56	.13			2			"
480	11/19	"	.8	.32	1.09	.72	.35			2			"
481	11/26	"	.8	.32	.56	.62	.18			2			"
482	12/4	"	.8	.32	.50	.60	.16			2			"
483	12/9	"	.8	.32	.84	.64	.27			2			"
484	12/14	"	5.	2.8	3.40	1.42	9.5			5			"
485	12/21	"	.9	.44	1.48	.80	.65			2			"
486	12/28	"	1.5	.8	1.25	.88	1.0			3			"
487	1/3	"	1.5	.75	.80	.75	.6			2			"
488	1/7	"	3.8	1.2	1.25	.98	1.5			.6	7		"
489	1/12	"	3.4	.8	1.25	.92	1.0			.6	6		"
490	1/16	"	4.	1.3	1.16	1.02	1.5			.6	8		"
491	1/23	"	3.7	.9	1.11	.88	1.0			7			"
492	2/2	"	3.5	.66	.91	.84	.6			.6	7		"
493	2/5	"	4.5	1.9	2.32	1.25	4.4			.6	5		"
494	2/13	"	3.8	1.3	1.31	1.10	1.7			5			"
495	2/22	"	3.5	1.3	1.00	.90	1.3			.6	4		"
496	3/3	"	3.5	1.2	1.00	.92	1.2			4			"
497	3/8	"	3.5	1.2	1.08	.93	1.3			.6	7		"
498	3/20	"	3.5	1.1	.77	.84	.85						"
499	3/25	"	3.3	1.1	.86	.86	.95			.6	7		"

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U 3 R

Discharge measurements of LITTLE SANTA ANITA CREEK

near Sierra Madre, Calif., during the year ending September 30, 1935

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U 3 R

Discharge measurements of LITTLE SANTA ANITA CREEK

near Sierra Madre, Calif., during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area, Mean velocity, Stage, Discharge, Rating, etc. Rows 500-527.

Table with columns: No., Date, Made by, Width, Area, Mean velocity, Stage, Discharge, Rating, etc. Rows 528-561.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Daily discharges in second-feet of LITTLE SANTA ANITA CREEK near Sierra Madre, Calif.
for the year ending September 30, 1935

Sta. No. U14R

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.95	5.9	32.6	39.4	50.0	31.5	70.6	32.0	16.5	9.6	3.8	3.0
2												
3												
4												
5												
6												
7												
8												
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29												
30												
31												
Mean	0.22	0.20	1.05	1.28	1.79	1.02	2.35	1.03	0.55	0.31	0.12	0.10
Peak	14	12	65	79	99	62	140	63	33	19	7.5	6.0

Remarks: Discharge less than 0.1 second-foot on days left blank.

Year 1935
Mean 0.83
Peak 600
Acres Feet 600

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Daily discharges in second-feet of LITTLE SANTA ANITA CREEK near Sierra Madre, Calif.
for the year ending September 30, 1936

Sta. No. U14R

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1											
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												
Mean	0.094	0.11	0.16	0.19	0.32	0.95	0.92	0.47	0.26	0.11	0.047	0.02
Peak	5.8	6.5	9.9	12	191	58	55	29	15	6.9	2.9	1.2

Remarks: Discharge less than 0.1 second-foot on days for which no discharge is given.

Year 1936
Mean 0.543
Peak 393
Acres Feet 393

Station U14R
ROCK CREEK near Valyermo

Location
Water-stage recorder, lat. 34° 25' 10", long. 117° 50' 25", in NE 1/4 sec. 20, T. 4 N., R. 9 W., 1-3/4 miles southeast of Valyermo., Altitude, about 4,050 feet.

Drainage area
23.0 square miles.

Records available
January 1923 to September 1936.

Average discharge
12 years, 11.4 second-feet.
13 years, 11.0 second-feet.

Extremes of discharge
1934-35
Maximum 33.0 second-feet Dec. 14.
Minimum 1.4 second-feet Oct. 10.
1935-36
Maximum 70 second-feet Feb. 23
Minimum 2.0 second-feet July 21 and 22

Remarks
1934-35 - Records fair. Discharge estimated Aug. 27 to Sept. 8.
1935-36 - Records fair. Discharge estimated Feb. 3, 20-22, Feb. 24 to Mar. 4 and May 17-20.
No diversions. Station owned and operated by the U.S.G.S. Water Resources Branch. The Los Angeles County Flood Control District cooperates with the U.S.G.S. to the extent of making meter measurements at various times.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U14R

Discharge measurements of ROCK CREEK

at Valyermo, Calif. for the year ending September 30, 1935

No.	Date	Name	Time	Discharge	Stage	Remarks
312	10/11	K. Fritz Schumacher	8.0	4.1 .41	.74 1.7	.6 8 1/4 946
313	10/14	Luce	8.0	4.7 .42	.74 2.0	.6 8 0 1240P FG 13
314	10/20	"	10.2	8.4 1.15	1.02 9.6	.6 10 600P "
315	11/2	F. C. Ebert	Mean of two meas.	.87	4.3	1/2 27214
316	11/25	Kenneth R. Melin	11.0	6.2 .92	.96 5.7	.6 11 2/15 1185
317	12/6	Luce	10.0	7.5 .79	.93 6.0	.6 9 1110A FG 13
318	12/21	K. Fritz Schumacher	13.0	11.0 2.09	1.36 23.0	.6 13 1/6 946
319	12/24	Luce	12.0	12.0 1.67	1.26 20.0	.6 10 0 585P FG 13
320	1/8	Kenneth R. Melin	19.0	12.0 1.08	1.38 25.0	.6 14 1/6 1185
321	1/9	Luce - Miller	12.6	17.0 2.69	1.56 45.0	.6 10 0 415P FG 13
322	1/15	"	12.5	16.0 2.25	1.48 36.0	.6 9 0 425P "
323	1/26	Kenneth R. Melin	15.5	11.0 1.91	1.32 21.0	.6 14 1/4 1185
324	2/9	"	20.0	23.0 2.74	1.74 63.0	.6 16 1/4 "
325	2/26	"	19.0	14.0 2.07	1.40 29.0	.6 15 1/6 "
326	2/27	Fuller - Luce	11.8	13.0 1.94	1.37 26.0	.6 7 0 450P FG 1
327	3/6	"	12.5	14.0 1.78	1.34 25.0	.6 7 0 410P FG 13
328	3/12	Kenneth R. Melin	17.5	13.0 1.85	1.33 24.0	.6 15 1/4 1185
329	3/26	"	17.0	13.0 1.77	1.34 23.0	.6 14 1/6 "
330	4/2	Luce	12.5	14.0 1.97	1.36 28.0	.6 8 0 615P FG 13
331	4/11	Kenneth R. Melin	19.0	20.0 3.50	1.70 70.0	.6 18 1/5 1185
332	4/24	"	19.5	16.0 2.69	1.56 43.0	.6 17 1/4 "
333	5/2	"	17.5	15.0 2.67	1.52 40.0	.6 16 1/4 "
334	5/15	"	18.0	15.0 2.33	1.51 36.0	.6 17 1/4 "
335	6/1	K. F. Schumacher	12.0	14.0 2.21	1.41 31.0	.6 12 1/6 946

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. ULR

Discharge measurements of ROOK CREEK near Valyermo, Calif. during the year ending September 30, 1936

Table with columns: No., Date, Stage, Area, Discharge, etc. for various dates in 1936.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U 14 R

Discharge measurements of ROOK CREEK near Valyermo, Calif. during the year ending September 30, 1936

Table with columns: No., Date, Stage, Area, Discharge, etc. for various dates in 1936.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT.

Sta. No. ULR

Daily discharge, in second-feet of ROOK CREEK near Valyermo, Calif. for the year ending September 30, 1936

Table showing daily discharge in second-feet for Rook Creek from Oct to Sept 1936.

Summary table with columns: Mean, Accum. Feet, etc. for the year 1936.

Remarks:

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPT.

Sta. No. U 14 R

Daily discharge, in second-feet of ROOK CREEK near Valyermo, Calif. for the year ending September 30, 1936

Table showing daily discharge in second-feet for Rook Creek from Oct to Sept 1936.

Summary table with columns: Mean, Accum. Feet, etc. for the year 1936.

Remarks:

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 6 R

Station U6R

ROGERS CREEK near Azusa, Calif.

Discharge measurements of ROGERS CREEK

Location

Water-stage recorder, lat. 34° 9' 55", long. 117° 54' 20",
in N.W. 1/4 S.W. 1/4 sec. 23, T. 1 N., R. 10 W., half a
mile above mouth of creek and 2 1/2 miles north of Azusa.
Altitude, about 800 feet.

Drainage area

6.4 square miles.

Records available

October 1917 to September 1936. May 1916 to June 1917
discharge measurements only.

Average discharge

18 years, 2.45 second-feet. 19 years, 2.30 second-feet.

Extremes of discharge

1934-35

Maximum 576 second-feet Apr. 8.

Minimum no flow part of year

1935-36

Maximum 520 second-feet Feb. 2.

Minimum no flow part of year.

1917-36

Maximum about 2600 second-feet April 7, 1926

Minimum no flow several months each year

Remarks

1934-35 - Records good.

1935-36 - Records good.

All water diverted above station at times.

Station owned and operated by the U.S.G.S. Water
Resources Branch. The Los Angeles County Flood Control
District cooperates with the U.S.G.S. to the extent of
making meter measurements at various times.

at Azusa, Calif., during the year ending September 30, 1935

No.	Date	Made by	Wash Feet	Area of Basin Sq. Ft.	Mean velocity ft. per sec.	Stage feet above datum	Discharge Sec. Ft.	Rating Factor	Method	Meter No.	G. H. Stage Feet	Stage Feet	Meter No.
612	1/5	Anderson & Linden	17.5	9.4	2.10	2.98	20			.6	10	1230P	FC 6
613	1/9	"	12	6.4	1.34	2.79	8.6			.6	6	520P 530P	
614	1/10	Lindsay	10.3	3.7	1.52	2.70	5.6			.6	10	210P 222P	FC 21 26131
615	1/11	H. J. Tompkins	6.5	3.4	1.68	2.68	5.7			.6	7	1150	
616	1/15	Anderson	11.4	7.1	1.47	2.83	10			.6	7	1205	FC 6
617	1/15	F. C. Ebert	14.8	5.6	1.68	2.82	9.3			.6	15		27214
618	1/16	Lindsay	10	4.09	1.56	2.72	6.4			.6	7	153P 1056P	FC 21
619	1/19	Cole & Hofman	14	5.1	1.26	2.77	6.2			.6	8	1108P	FC 26
620	1/24	Lindsay	9.8	3.1	1.27	2.60	3.9			.6	9	243P 253P	FC 21
621	1/26	R. Stanley Lord	9.5	3.0	1.10	2.57	3.3			.6	9		1215
622	1/30	Lindsay	8.5	2.42	.98	2.50	2.4			.6	7	205P	FC 21
623	2/5	Anderson & Linden	16.3	9.7	2.53	3.12	25			.9	+0.1	1020A 1052A	
624	2/5	"	21.5	8.4	1.50	2.96	13			.6	10	1135A 1155A	FC 6 27214
625	2/5	F. C. Ebert	17	8.7	2.18	3.06	19			.6	17		
626	2/6	"	14	7.2	2.22	2.99	16			.6	15		
627	2/6	Cole	15.5	9.1	1.73	3.00	16			.6	7	150P 202P	FC 28 27214
628	2/16	F. C. Ebert	10.1	4.1	1.10	2.66	4.5			.6	10		
629	2/21	Lindsay	9.5	2.7	1.12	2.55	3.0			.6	7	855A 845A	FC 21
630	2/27	"	8.0	2.2	.98	2.50	2.1			.6	6	340P	"
631	3/2	Anderson & Linden	11.8	5.6	1.10	2.76	6.2			.6	7	1135 1145	FC 6
632	3/2	"	12	5.8	1.04	2.76	6.0			.6	8	1200 1210	
633	3/8	Lindsay	9.3	2.7	1.04	2.56	2.8			.6	7	930A	FC 21
634	3/13	"	9.5	2.5	.85	2.50	2.2			.6	6	144P 150P	"
635	3/18	R. Stanley Lord	6.1	2.0	.95	2.46	1.9			.6	12		1215
636	3/21	H. J. Tompkins	6	2.1	.90	2.42	1.9			.6	6		28131
637	3/21	Lindsay	8.5	2.0	.66	2.42	1.3			.6	6	140P 146P	FC 21
638	3/27	"	8.5	2.0	.70	2.44	1.4			.6	8	820A 830A	"
639	4/3	Lindsay	8.5	2.0	.51	2.40	1.0			.6	7	1040A 1047A	FC 21 27214
640	4/8	F. C. Ebert	28	26	4.73	4.16	123			.6	14		245
641	4/8	Linden & Jungren	24.8	19	3.98	3.79	76			.6	13	140P 146P	FC 6 27214
642	4/9	F. C. Ebert	17	11	3.00	3.26	33			.6	12		
643	4/10	Lindsay	13.7	8.3	2.25	3.07	19			.6	8	1005A 1015A	FC 21 28131
644	4/17	H. J. Tompkins	11	5.9	1.49	2.80	8.8			.6	11		
645	4/19	Lindsay	11.6	4.4	1.42	2.77	6.2			.6	8	810A 820A	FC 21
646	4/26	"	11.5	3.6	1.07	2.62	3.9			.6	7	740A 750A	"
647	5/3	"	9.5	2.2	1.44	2.60	3.2			.6	7	831A 839A	"
648		"	4.7	1.9	1.48	2.55	2.8			.6	5		28131
649	5/10	Lindsay	8.0	1.7	1.35	2.53	2.3			.6	7	815A 825A	FC 21
650	5/16	"	7.3	1.6	1.41	2.50	2.2			.6	7	721A 729A	"
651	5/22	"	6.8	.97	1.33	2.36	1.3			.6	6	300P 310P	"
652	5/29	H. J. Tompkins	2.7	1.1	1.18	2.40	1.3			.6	3		28131
653	5/29	Lindsay	6.7	1.1	1.09	2.38	1.2			.6	6	152P	FC 21
654	5/4	H. J. Tompkins	2.8	1.1	1.09	2.35	1.2			.6	3		28131
655	5/5	Lindsay	5.1	.72	1.00	2.34	.72			.6	5	1245P 100P	FC 21
656	5/13	"	4.5	.46	.87	2.24	.40			.6	5	110P	"
657	5/17	H. J. Tompkins	1.8	.36	.89	2.20	.32			.6	2		28131
658	5/20	Lindsay	1.2	.15	1.07	2.18	.16			.6	2	352P 354P	FC 21 28131
659	5/28	H. J. Tompkins	1.7	.5	.66	2.20	.33			.6	2		
660	7/2	Brewster	4.0	.88	.81	2.25	.71			.6	4	1005A 1010A	FC 21
660A	7/10	Lindsay				2.06	.01					330P	"
661	7/6	H. J. Tompkins	1.7	.42	.74	2.19	.31			.6	2		28131

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 6 R

Discharge measurements of ROGERS CREEK

at Azusa, Calif., during the year ending September 30, 1935

No.	Date	Made by	Wash Feet	Area of Basin Sq. Ft.	Mean velocity ft. per sec.	Stage feet above datum	Discharge Sec. Ft.	Rating Factor	Method	Meter No.	G. H. Stage Feet	Stage Feet	Meter No.
591	10-18	Anderson & Linden	8.1	2.7	1.19	2.52	3.2			.6	6	1130 1140	FC 6 27214
592	10/18	F. C. Ebert	12	4.3	1.68	2.74	7.2			.6	12		
593	10/19	"	6	1.7	.89	2.41	1.5			.6	10		
594	10-24	Lindsay				2.10	.02	Est.				745A	
595	11-1	"	1.0	.09	.78	2.14	.07			.6	2	752A 754A	FC 21
596	11/8	"	.5	.04	.75	2.16	.03			.6	1	950 951	"
597	11/15	Lindsay & Cole	.5	.04	.54	2.12	.02			.6	1	825A	"
598	11/18	Cole & Hofman	6	1.5	.89	2.44	1.4			.6	6	735A 745A	FC 28
599	11/22	Lindsay	2.3	.41	1.05	2.26	.43			.6	4	205P 210P	FC 21
600	11/28	"	2.3	.25	.72	2.20	.18			.6	4	345P 350P	"
601	12/6	"	2.0	.25	.84	2.18	.21			.6	4	840A 845A	"
602	12/13	Anderson & Linden	14	8.2	1.17	2.86	9.7			.6	7	1030A 1045A	FC 6
603	12/13	"	16	9	2.28	3.12	21			.6	9	230P 245P	
604	12/14	"	17	15	2.79	3.40	42			.6	10	950A 1010A	
605	12/14	F. C. Ebert	26	18	3.11		56			.6	13		27214
606	12/15	Cole & Hofman	14	6.2	1.41	2.81	8.7			.6	7	815A 815A	FC 28
607	12/15	Dalton and Ebert	14.1	6.8	1.47	2.82	10			.6	7	1021A 1029A	FC 21
608	12/21	Lindsay	7	1.6	.74	2.40	1.2			.6	7	8150A 8150A	
609	12/28	Lindsay & Richards	9.5	3.8	1.54	2.67	5.8			.6	8	1050A 1100A	"
610	1/3	Lindsay	7	1.8	.69	2.36	1.2			.6	8		"
611			17.5	11	1.73	3.03	19			.6	10		27214

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 6 R

Discharge measurements of ROGERS CREEK

near Azuza, Calif. during the year ending September 30, 19 36

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity Ft. per sec.	Stage Feet	Discharge Sec.-ft.	Rating Profile diff.	Metric	Mean No.	U. S. Gauge Total	Begin End	Meter No.
662	11/21	Lindsay	.6	.08	0.75	2.14	0.06				342P 343P	FC 28	
663	1/3	"	.65	.09	1.00	2.14	.09				910A 912A	"	
664	1/9	"	.5	.11	1.17	2.18	.13				900A 902A	"	
665	1/16	"	.5	.09	1.00	2.16	.09				912A 914A	"	
666	1/23	"	.5	.09	.77	2.16	.07				902A 903A	"	
667	1/30	"				2.10	.02				Est -	815A	-
668	2/1	Linden & Anderson	13.1	7.6	3.87	3.03	22.				325 345	FC 27	
669	2/1	Anderson & Linden	13.1	8.4	2.66	3.01	22.				355 1210	"	
670	2/2	Linden & Anderson	16.8	13.	2.59	3.49	34.				1225 1235	"	
671	2/2	"	16.8	12.	2.81	3.42	33.				1250 150	"	
672	2/2	"	13.4	8.0	2.93	3.17	23.				202	"	
673	2/5	H. J. Tompkins	5.1	1.1		2.36	.9				5	28131	
674	2/6	Lindsay	3.3	.45	1.09	2.30	.49				440P 445P	FC 28	
675	2/11	Linden & Anderson	11.2	3.7	2.19	2.79	8.1				1105 1120	FC 27	
676	2/11	Anderson & Linden	11.7	4.2	2.14	2.80	9.0				1130 1140	"	
677	2/11	Linden & Anderson	16.5	8.3	3.24	3.10	27.				305 305	"	
678	2/11	"	16.5	8.8	3.69	3.19	32.				315 345	"	
679	2/11	"	13.5	9.3	2.95	3.25	28.				400	"	
680	2/12	"	16.5	10.	2.83	3.15	29.				955	"	
681	2/12	Anderson & Linden	16.5	10.	2.82	3.14	29.				950 1005	"	
682	2/12	Anderson	16.	9.7	2.70	3.17	26.				1010 1025	"	
683	2/12	Linden & Anderson	16.	9.2	2.79	3.20	26.				1045	"	
684	2/12	F. C. Ebert	15.4	8.0	3.13	3.15	25.				6	27214	
685	2/13	Linden & Anderson	17.	11.	2.72	3.34	31.				405P 415P	FC 27	
686	2/13	"	17.	11.	2.92	3.35	32.				430P 450P	FC 27	
687	2/14	Anderson & Linden	17.	9.9	2.44	3.07	24.				800P	"	
688	2/15	F. C. Ebert	15.9	6.8	4.26	3.16	29.				6	27214	
689	2/16	Linden & Anderson	25.5	16.	3.41	3.60	53.				1035A 1100A	FC 27	
690	2/16	"	26.	15.	3.47	3.60	52.				1105A 1125A	"	
691	2/16	F. C. Ebert	18.	11.	5.00	3.45	55.				6	27214	
692	2/18	"	15.2	8.1	3.46	3.16	28.				6	"	
693	2/18	Linden & Anderson	24.	10.	2.24	3.12	22.				1140A 1200A	FC 27	
694	2/18	"	22.	8.3	2.53	3.08	21.				100P 125P	"	
695	2/20	Lindsay	13.	4.4	2.22	2.86	9.8				457P 504P	FC 28	
696	2/23	F. C. Ebert	16.8	9.0	3.78	3.22	34.				10	27214	
697	2/26	"	11.5	5.0	2.40	2.88	12.				6	12	
698	2/27	Lindsay	13.	4.2	1.92	2.82	8.1				303P 313P	FC 28	
699	2/29	H. J. Tompkins	10.	4.3	1.68	2.75	7.2				6	28131	
700	3/3	"	10.	3.8	1.48	2.68	5.6					"	
701	3/5	Lindsay	10.5	2.7	1.40	2.62	3.8				300P 310P	FC 28	
702	3/12	"	9.5	1.55	1.09	2.46	1.7				325P 335P	"	
703	3/14	F. C. Ebert	6.5	1.8	1.11	2.48	2.0				6	27214	
704	3/20	H. C. McGreary				2.39	1.2				12	29567	
705	3/26	Lindsay & Wall	9.5	1.6	.94	2.48	1.5				830A 838A	FC 28	
706	3/26	H. C. McGreary				2.47	1.6				13	29567	
707	3/31	F. C. Ebert	10.6	4.0	1.48	2.73	5.9				6	27214	
708	4/2	Lindsay	9.7	2.2	1.04	2.55	2.2				6	212P 219P	FC 28
709	4/4	F. C. Ebert	13.5	6.6	2.58	2.96	17.				14	27214	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 6 R

Discharge measurements of ROGERS CREEK

near Azuza, Calif. during the year ending September 30, 19 36

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity Ft. per sec.	Stage Feet	Discharge Sec.-ft.	Rating Profile diff.	Metric	Mean No.	U. S. Gauge Total	Begin End	Meter No.		
710	4/9	Lindsay	10.0	3.0	1.83	2.69	5.5				6	7	0	638A 648A	FC 28
711	4/10	R. Stanley Lord	9.0	3.3	1.48	2.62	4.0				6	9			1215
712	4/16	Lindsay	9.5	2.2	1.38	2.55	3.0				6	7	0	812A 822A	FC 28
713	4/17	H. C. McGreary				2.51	2.1				9				29567
714	4/23	Lindsay	8.5	1.5	.98	2.47	1.6				6	7	0	246P 255P	FC 28
715	4/24	R. Stanley Lord	7.3	2.0	1.15	2.48	2.3				6	8			1215
716	4/20	Lindsay	7.	1.04	.15	2.54	1.2				6	7	0	417P 424P	FC 28
717	5/1	R. Stanley Lord	4.8	1.3	1.08	2.40	1.4				9				1215
718	5/7	Lindsay	6.8	1.0	1.00	2.38	1.0				6	7	0	132P 139P	FC 28
719	5/8	R. Stanley Lord	4.8	1.0	.84	2.32	.85				6	9			1215
720	5/14	Lindsay	2.8	.37	1.08	2.24	.40				6	5	0	210P 215P	FC 28
720A	5/21	"	2.9	.44	1.11	2.27	.49				6	5	0	250P 256P	"
721	5/15	R. Stanley Lord	4.4	.80	.62	2.27	.50				6	8			1215
722	5/23	"	4.4			2.28	.70								"
723	5/28	"	3.0	.45	1.02	2.28	.46				6	5	0	823A 829A	FC 28
724	5/29	H. C. McGreary				2.23	.41				5				29567
725	6/4	Lindsay	2.8	.29	.79	2.22	.23				6	5	0	837A 843A	FC 28
726	6/11	"	.8	.08	.75	2.12	.06				6	2	-	750A	"
726A	6/19	"				2.09	.02				Est -			730A	-

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **U 6 R**
for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.46	0.35	3.13	5.08	5.92	2.47	11.1	2.25	0.48	0	0	0
Mean	0.015	0.011	0.101	0.162	0.197	0.083	0.358	0.088	0.019	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
Remarks	None											

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. **U 6 R**
for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0
Total	0.46	0.35	3.13	5.08	5.92	2.47	11.1	2.25	0.48	0	0	0
Mean	0.015	0.011	0.101	0.162	0.197	0.083	0.358	0.088	0.019	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	0	0	0	0	0
Remarks	None											

Station U15R
SAN ANTONIO CREEK near Claremont

Location
Water-stage recorder, lat. 34° 12' 50", long. 117° 40' 0", in NW 1/4 SE 1/4 sec. 36, T. 2 N., R. 8 W., at highway bridge half a mile above Southern California Edison Co.'s Sierra power plant and 8 miles northeast of Claremont. Altitude about 3400 feet.

Drainage area
16.9 square miles.

Records available
March 1901 to September 1936.

Average discharge
18 years (1917-35), 7.09 second-feet. Average combined discharge, creek and canal, 18 years (1917-35), 20.2 second-feet. 19 years (1917-36), 6.81 second-feet. Average combined discharge, creek and canal, 19 years (1917-36), 6.81 second-feet. Average combined discharge, creek and canal, 19 years (1917-36), 19.9 second-feet.

Extremes of discharge
1934-35
Maximum 101 second-feet Apr. 8
Minimum less than 0.1 second-foot several days during October.
1935-36
Maximum 58 second-feet Feb. 2
Minimum 0.2 second-foot Sept. 9
1917-36
Maximum 1020 second-feet December 19, 1921
Minimum less than 0.1 second-foot for several days during October 1934.

Remarks
1934-35 - Records good. Discharge estimated Sept. 17-19
1935-36 - Records fair.
See record for Southern California Edison Co.'s canal near Claremont, which diverts water above station. Station owned and operated by the U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. **U 15 R**

DISCHARGE MEASUREMENTS OF **SAN ANTONIO CREEK**
near Claremont, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 1935

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE CFS	BATHYM. FEET	WATER TEMP. DEGREES	WIND DIR.	WIND VELOCITY	NO. OF CHANNELS	DISCH. EST. TOTAL	RAIN INCH.	METER NO.
571	10/4	H. J. Tompkins	0.5	0.16	0.75	2.22	0.12					2			26131
572	10/12	"	.5	.16	.88	2.28	.14								"
573	11/3	"	1.2	.4	1.00	2.42	.4								"
574	11/21	"	.9	.4	2.00	2.50	.8								"
575	12/3	"	.9	.36	1.66	2.60	.6					2			"
576	12/14	F. O. Ebert	18.5	9.9	3.04	3.71	30								27214
577	12/15	"	10.5	4.6	2.17	2.93	10								"
578	12/19	H. J. Tompkins	2.5	1.5	2.00	2.52	3.0								26131
579	1/9	"	4	2	1.85	2.66	3.7								"
580	1/15	F. O. Ebert	9.7	3.9	1.82	2.80	7.1								27214
581	1/18	H. J. Tompkins	4	2.3	1.46	2.58	3.4								26131
582	2/5	F. O. Ebert	21.5	15	3.93	3.56	59								27214
583	2/6	"	24	17	4.24	3.52	72								"
584	2/8	"	24	16	3.25	3.37	52								"
585	2/11	Jerratt Oliver	22	14	3.21	3.29	45								142
586	2/12	Tompkins-Lord	22	14	3.36	3.30	47								26131
587	2/15	F. O. Ebert	22	13	2.78	3.19	36								27214
588	2/21	H. J. Tompkins	12	9.2	2.83	3.02	26								26131
589	2/27	F. O. Ebert	Two Channels			2.91	18								27214
590	3/4	H. J. Tompkins	12	7.1	2.38	2.82	17								26131
591	3/9	"	12	6.4	2.85	2.75	14								"
592	3/15	"	3.5	2.6	2.38	2.64	6.2								"

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

STATION NO. U 15 R

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U15R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

Discharge measurements of SAN ANTONIO CREEK

at Claremont, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 1935

at Claremont, Calif. during the year ending September 30, 1936

Table with columns: NO., DATE, MADE BY, WIDTH FEET, AREA OF SECTION SQ. FT., MEAN VELOCITY FT. PER SEC., GROSS MEANING FEET, DISCHARGE SEC. FT., VELOCITY FEET PER SEC., CORR. COEFF. NO., CORR. DISCHARGE TOTAL, REG. NO., METER NO.

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity Ft. per Sec., Gate Height Feet, Discharge Sec. Ft., Rating Percent, Method, Meter No., G. No. Change Feet, Rain Feet, Meter No.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U 15 R
for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
2	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
3	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
4	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
5	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
6	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
7	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
8	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
9	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
10	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
11	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
12	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
13	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
14	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
15	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
16	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
17	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
18	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
19	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
20	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
21	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
22	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
23	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
24	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
25	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
26	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
27	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
28	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
29	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
30	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
31	0.1	0.4	0.6	1.3	1.5	1.6	1.5	5	6.8	7	1.3	1.0
27.9 16.8 92.8 95.1 89.5 322.5 368 94.2 41.6 28.8												
Mean	0.90	0.56	0.89	3.00	31.3	11.5	31.5	17.5	3.14	1.84	0.93	0.76
Max	55	35	124	185	1,770	710	1,850	1,080	187	82	57	45
Remarks:												

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U 15 R
for the year ending September 30, 1935

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
3	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
4	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
5	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
6	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
7	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
8	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
9	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
10	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
11	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
12	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
13	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
14	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
15	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
16	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
17	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
18	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
19	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
20	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
21	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
22	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
23	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
24	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
25	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
26	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
27	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
28	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
29	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
30	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
31	0.7	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
22.8 24.1 26.8 24.8 237.0 114.5 105.0 37.4 19.5 11.2 9.4												
Mean	0.74	0.80	0.86	0.80	8.17	3.69	3.50	1.21	0.65	0.44	0.36	0.31
Max	45	48	53	49	470	227	208	74	39	27	22	19
Remarks:												

Station U10R
SAN DIMAS CREEK near San Dimas

Location
Water-stage recorder, lat. 34° 8' 45", long. 117° 46' 35"
in S.W. 1/4 N.E. 1/4 sec. 25, T. 1 N., R. 9 W., at mouth
of San Dimas Canyon, 3 miles northeast of San Dimas,
Altitude, about 1,245 feet.

Drainage area
18.3 square miles.

Records available
April to September 1916 (discharge measurements only);
December 1916 to September 1936.

Average discharge
18 years (1917-35), 3.47 second-feet.
19 years (1917-36), 3.41 second-feet.

Extremes of discharge
1934-35
Maximum 300 second-feet Mar. 26
Minimum less than 0.1 second-foot at times during
October and November.
1935-36
Maximum 152 second-feet Apr. 10
Minimum less than 0.1 second-foot at times
1916-36
Maximum 1140 second-feet February 9, 1922
Minimum no flow for several months nearly every year

Remarks
1924-25 - Records good
1925-36 - Records good.
Flood control dam above gage regulates flow. San Dimas
Water Co. diverts just below gage for irrigation. Station
owned and operated by the U.S.G.S. Water Resources Branch.
The Los Angeles County Flood Control District cooperates
with the U.S.G.S. to the extent of making meter measurements
at various times.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U10R

Discharge measurements of SAN DIMAS CREEK
near San Dimas, Calif. during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area Between Gage Feet	Mean Depth Feet	Stage Feet	Discharge C.F.S.	Annual Precip. Inch.	Mo. of Year	Mo. of Year	Mo. of Year	Mo. of Year
746	10/5	Brewster	0.5	0.06	0.33	0.03	0.02	6.2	0	1110A	FC 8	
747	10/11	"	.5	.06	.50	.04	.03	6.1	0	830A	"	
748	10/18	F. C. Ebert	3.9	2.1	.81	.34	1.7	6.8		2721A		
749	10/19	Brewster	1.0	.21	1.06	.10	.21	6.2	0	1205P	FC 8	
750	10/26	"	1.0	.14	.50	.06	.07	6.2	0	1050A	"	
751	11/2	"	1.0	.21	.46	.07	.10	6.2	0	1118A	"	
752	11/9	"	1.0	.17	.53	.07	.09	6.2	0	900A	"	
753	11/15	"	1.0	.21	.57	.07	.12	6.2	0	430P	"	
754	11/23	"	1.0	.23	.78	.08	.18	6.2	0	933A	"	
755	11/28	"	1.0	.20	.70	.07	.14	6.2	0	415P	"	
756	12/6	"	1.0	.19	.89	.08	.17	6.2	0	420P	"	
757	12/13	Brewster - Boone	5	4.2	.94	.50	4.0	6.5	0	250P	"	
758	12/14	F. C. Ebert	12.6	11	1.09	1.39	12.	6.9		2721A		
759	12/21	Brewster	1.0	.30	1.10	.14	.33	6.2	0	1240P	FC 8	
760	12/27	"	1.0	.24	1.12	.12	.27	6.2	0	355P	"	
761	1/4	"	1.0	.36	1.64	.18	.6	6.2	0	115A	"	
762	1/10	"	4.0	3.2	1.17	.52	3.7	6.4	0	800A	"	
763	1/11	H. J. Tompkins	3.5	1.3	3.23	.50	4.2	6.4		115P	"	
764	1/15	F. C. Ebert	9.3	2.4	1.71	.61	4.1	6.9		120P	"	
765	1/15	Brewster - Boone	9.	3.6	1.87	.74	6.6	6.5	0	445P	FC 8	
766	1/17	Brewster	9.	3.5	1.44	.70	5	6.7	0	440P	"	
767	1/18	H. J. Tompkins	7.	2.7	1.93	.64	5.2	6.7		445P	"	
768	1/24	Brewster	9.	7.4	2.50	1.41	19.	6.5	0	530P	FC 8	
769	1/31	"	8.	7.1	1.67	1.27	12.	6.8	0	515P	"	

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U10R

Discharge measurements of SAN DIMAS CREEK

near San Dimas, Calif., during the year ending September 30, 1935.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U10R

Discharge measurements of SAN DIMAS CREEK

near San Dimas, Calif., during the year ending September 30, 1935.

Table with columns: No., Date, Made by, Wash, Area of Spring, Mean velocity, Stage, Discharge, Rating, Meters, G. H., Basin, Meter. Rows 770-826.

Table with columns: No., Date, Made by, Wash, Area of Spring, Mean velocity, Stage, Discharge, Rating, Meters, G. H., Basin, Meter. Rows 827-835.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U10R

Discharge measurements of SAN DIMAS CREEK

near San Dimas, Calif., during the year ending September 30, 1936.

Table with columns: No., Date, Made by, Wash, Area of Spring, Mean velocity, Stage, Discharge, Rating, Meters, G. H., Basin, Meter. Rows 836-876.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. UJ0R

Discharge measurements of SAN DIMAS CREEK

*near San Dimas, Calif. during the year ending September 30, 1956

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Stage Height Feet	Discharge Cfs.	Rating Project No.	Method	Meter No.	G. H. Station Feet	Rain Gage No.	Meter No.
877	3/31	F. G. Ebert	4.2	1.1	1.00	28	1.1		6	7			27214
878	3/31	Brewster	4.0	1.25	.94	26	1.2		6	4	0		115P 120P 915A 920A
879	4/3	"	2.5	.57	1.07	19	.60		6	5	0		"
880	4/9	Lord and Ebert	20	23	4.69	1.93	108		6	10			1215
881	4/9	"	20	22	4.41	1.96	97		6	10			"
882	4/9	"	Mean of 2	meas.	1.72	36							"
883	4/9	"	Mean of 2	meas.	1.80	48			6				"
884	4/9	Lord and Ebert	Mean of 2	meas.	1.90	66							1215
885	4/9	"	Mean of 2	meas.	1.98	84			6				"
886	4/10	Lord and McGreevy	20	33	4.38	2.20	144						"
887	4/10	"	21	32	4.70	2.22	152						"
888	4/10	McGreedy and Lord	22	31	4.39	2.21	136		6	11			"
889	4/10	"	22	34	4.12	2.22	140		6	12			"
890	4/10	Lord and McGreevy	6.5	2.3	1.00	0.42	2.3		6	12			"
891	4/17	Brewster	2.0	.74	.82	.20	.60		6	4	0		930A 935A
892	4/17	H. C. McGreevy				.16	.46			4			29567
893	4/24	Brewster	2.0	.74	.82	.18	.60		6	4	0		915A 920A
894	4/24	R. Stanley Lord	2.0	.69	.78	.18	.55			4			1215
895	5/1	Brewster	2.0	.73	.78	.18	.55		6	4	0		750A 756A
896	5/8	"	6.0	3.30	.81	.42	2.7		6	6	0		810A 820A
897	5/8	R. Stanley Lord	7	3.3	.76	.41	2.5		6	8			1215
898	5/15	Brewster	8	5.6	1.05	.91	6.9		6	8	0		820A 832A
899	5/15	R. Stanley Lord	12	10	.67	.91	6.7		6	12			1215
900	5/22	Brewster	8	5.8	1.03	.90	6.9		6	8	0		745A 755A
901	5/23	R. Stanley Lord	8.5	6.0	1.15	.89	6.9						1215
902	5/28	Brewster	6	2.8	1.24	.49	3.5		6	6	0		400P 410P
903	5/29	H. C. McGreevy				.47	2.8		6	15			29567
904	6/4	Brewster	6	2.8	1.23	.47	3.4		6	6	0		440P 450P 455P
905	6/11	"	6	3.0	1.12	.47	3.4		6	6	0		425P
906	6/17	H. C. McGreevy				.46	2.5		6	14			29567
907	6/18	Brewster	6	2.8	1.08	.46	3.1		6	6	0		415P 420P 430P
907a	6/25	Brewster	6	3.2	1.22	.58	4.0		6	6	0		430P
908	6/29	R. Stanley Lord				.58	3.7						1215
909	7/2	Brewster	6	3.14	1.20	.54	3.8		6	6	0		445P 455P
910	7/7	R. Stanley Lord				.54	3.4						1215
911	7/9	Brewster	6	3.21	1.17	.52	3.8		6	6	0		425P 435P
912	7/15	R. Stanley Lord				.48	2.8		6	11			1215
913	7/16	Brewster	6	3.33	1.27	.58	4.2		6	6	0		425P 435P
914	7/23	"	6	3.32	1.21	.56	4.0		6	6	0		410P
915	7/29	R. Stanley Lord				.51	3.3		6	7			1215
916	7/30	Brewster	5.0	2.72	1.20	.51	3.3		6	5	0		424P 431P
917	8/6	R. Stanley Lord				0.40	2.3		6	12			1215
918	8/6	Brewster	5.0	2.1	.69	.30	1.4		6	5	0		400P 502P 505P
919	8/13	"	1.0	.2	.40	.06	.08		6	2	0		"
920	8/15	R. Stanley Lord				.06	.055		6	1	0		422P
921	8/20	Brewster	.5	.07	.22	.04	.02		6	1	0		428P
921a	8/27	Lindsay				.02	.01		Est.	0			330P
921b	9/3	"				.04	.02		Est.	0			130P
921c	9/10	Brewster				.05	.01		Est.	0			405P
921d	9/17	"				.02	.01		Est.	0			420P
921e	9/24	"				.02	.01		Est.	0			347P
922	9/14	R. Stanley Lord				.07	.05		B-Venturi flume				"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.
SAN DIMAS CREEK near San Dimas, Calif.

Sta. No. UJ0R
for the year ending September 30, 1956

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
1	3	4	4	4	4	4	4	4	4	4	4	4
2	4	4	4	4	4	4	4	4	4	4	4	4
3	4	4	4	4	4	4	4	4	4	4	4	4
4	4	4	4	4	4	4	4	4	4	4	4	4
5	4	4	4	4	4	4	4	4	4	4	4	4
6	4	4	4	4	4	4	4	4	4	4	4	4
7	4	4	4	4	4	4	4	4	4	4	4	4
8	4	4	4	4	4	4	4	4	4	4	4	4
9	4	4	4	4	4	4	4	4	4	4	4	4
10	4	4	4	4	4	4	4	4	4	4	4	4
11	4	4	4	4	4	4	4	4	4	4	4	4
12	4	4	4	4	4	4	4	4	4	4	4	4
13	4	4	4	4	4	4	4	4	4	4	4	4
14	4	4	4	4	4	4	4	4	4	4	4	4
15	4	4	4	4	4	4	4	4	4	4	4	4
16	4	4	4	4	4	4	4	4	4	4	4	4
17	4	4	4	4	4	4	4	4	4	4	4	4
18	4	4	4	4	4	4	4	4	4	4	4	4
19	4	4	4	4	4	4	4	4	4	4	4	4
20	4	4	4	4	4	4	4	4	4	4	4	4
21	4	4	4	4	4	4	4	4	4	4	4	4
22	4	4	4	4	4	4	4	4	4	4	4	4
23	4	4	4	4	4	4	4	4	4	4	4	4
24	4	4	4	4	4	4	4	4	4	4	4	4
25	4	4	4	4	4	4	4	4	4	4	4	4
26	4	4	4	4	4	4	4	4	4	4	4	4
27	4	4	4	4	4	4	4	4	4	4	4	4
28	4	4	4	4	4	4	4	4	4	4	4	4
29	4	4	4	4	4	4	4	4	4	4	4	4
30	4	4	4	4	4	4	4	4	4	4	4	4
31	4	4	4	4	4	4	4	4	4	4	4	4
Mean	0.97	0.11	0.12	0.10	0.10	0.62	4.42	4.59	3.33	3.62	0.573	0.029
Accum. Feet	60	6.5	7.4	6.0	4.72	38	263	282	198	223	35	1.7

Remarks: Discharge less than 0.1 sec.-ft. on days for which no discharge is given.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.
SAN DIMAS CREEK near San Dimas

Sta. No. UJ0R
for the year ending September 30, 1956

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1	1	1	1
Mean	0.25	0.14	0.65	6.04	2.65	1.17	1.64	2.65	5.11	4.45	4.01	5.08
Accum. Feet	15	3.2	41	372	147	72	92	162	354	274	247	339

Remarks: + indicates discharge less than 0.1 sec. ft.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. UBR

Station UBR
SAN GABRIEL RIVER near Azusa, Calif.

Discharge measurements of SAN GABRIEL RIVER

near Azusa, Calif., during the year ending September 30, 1935

Location

Water-stage recorder, lat. 34° 9' 30", long. 117° 54' 5", in N.W. 1/4 sec. 23, T. 1 N., R. 10 W., 1 mile above power house of City of Pasadena, and 2 miles north of Azusa.

Drainage area

214 square miles.

Records available

1894 to September 1936.

Average discharge

39 years (1896 - 1935), 106 second-feet.
40 years (1896 - 1936), 104 second-feet.
Average combined discharge of river and diversions, corrected for storage and evaporation in Morris Reservoir, 41 years (1895-1936), 150 second-feet.

Extremes of discharge

1934-35
Maximum 507 second-feet Feb. 9
Minimum no flow for long periods
1935-36
Maximum 455 second-feet April 10
Minimum no flow for long periods.
1894 - 1936
Maximum approximately 40,000 second-feet January 18, 1916.
Minimum no flow for several months each year.

Remarks

1934-35 - Records good.
During year run-off was completely regulated by releases from Morris Dam of Pasadena Water Department; capacity 32550 acre-feet. Azusa Canal (formerly power canal of Southern California Edison Co.) diverts above high water line of Morris Reservoir at a point about 5 miles above station. Sum of discharge in river at gage, Azusa Canal, storage released to City of Pasadena, reservoir evaporation at Morris Dam, and percolation between Morris Dam and station gives total run-off comparable to combined discharge of San Gabriel River and Southern California Edison Co.'s canal as published (in water supply papers) 1894 - 1935.

1935-36 - Records good.
During year run-off was completely regulated by releases from Morris Reservoir of Pasadena Water Department. Azusa Canal (formerly Southern California Edison Co.'s canal) diverts above high water line of Morris Reservoir at a point about 5 miles above station. Combined discharge of river and diversions, corrected for storage and evaporation in Morris Reservoir and releases from San Gabriel No. 2 Flood Control Reservoir during year ending September 30, 1936, was 53815 acre-feet as computed by City of Pasadena. This run-off is comparable to combined discharge of San Gabriel River and Southern California Edison Co.'s Canal as published (in water supply papers) 1894-1935.

Station owned and operated by the U.S.G.S. Water Resources Branch. The Los Angeles County Flood Control District cooperates with the U.S.G.S. to the extent of making meter measurements at various times.

No.	Date	Made by	Waltz Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Open Pipe Feet	Discharge Cu. ft.	Rating Project No.	Method	Max. No. of Floods	G. M. Flood Feet	Begin End	Notes
1041	12/26	"	"	"	"	3.78	505						
1042	1/3	Lindsay	75	91	2.02	3.48	184						1200P 1225P 1108A
1043	1/5	Gole-Hoffman	16	7.6	1.07	2.40	8.1						1120A 120 140
1044	1/5	Anderson-Linden	17	9.5	.83	2.36	7.9						245P 250P
1045	1/8	H. J. Tompkins	72	67	1.50	3.14	100						28131
1046	1/10	Lindsay	2.5	1.2	1.47	2.17	1.6						245P 250P
1047	1/15	F. C. Ebert	7.2	4.7	.94	2.28	4.4						27214
1049	1/16	Lindsay	70	64	1.28	3.03	81						230P 250P
1049	1/21	H. J. Tompkins	74.5	75	1.70	3.28	128						28131
1050	1/24	Lindsay	76	85	1.73	3.39	148						310P 340P
1051	1/26	R. Stanley Lord	77	90	1.87	3.46	168						1215
1052	1/30	H. J. Tompkins	Two channels			3.66	237						28131
1053	2/5	Anderson-Linden	68.5	55	.94	2.92	52						1100A 1120A 1140A
1054	2/9	Gole	140	187	2.97	4.28	496						1220P FC 28
1055	2/11	F. C. Ebert	115	145	2.86	4.08	418						410P 435P
1056	2/14	Lindsay	78	104	3.08	3.88	320						940A 1000A
1057	2/16	H. J. Tompkins	97	105	2.48	3.74	254						28131
1058	2/21	Lindsay	76	104	2.99	3.88	312						940A 1000A
1059	2/26	H. J. Tompkins	102	124	2.91	3.98	362						28131
1060	2/27	F. C. Ebert	118	136	2.53	3.98	343						27214
1061	2/27	Lindsay	97	120	3.01	3.97	362						440P 500P
1062	3/2	Anderson-Linden	73	48	2.08	3.21	99						1245P 120P
1063	3/8	Lindsay	75.5	89	2.37	3.55	210						1000A 1020A
1064	3/13	"	94	102	2.66	3.74	271						1245P 110P
1065	3/14	H. J. Tompkins	102	107	2.83	3.82	281						28131
1066	3/18	R. Stanley Lord	130	139	2.46	3.93	347						215P 235P
1067	3/21	Lindsay	102	125	3.01	3.95	376						FC 21
1068	3/23	H. J. Tompkins	107	127	3.02	4.00	385						28131
1069	3/27	Lindsay	98	107	2.67	3.79	285						920A 940A
1070	4/3	"	72	63	1.48	3.17	93						1100A 1120A
1071	4/8	Linden-Jungren	54	42	.82	2.79	34						FC 4
1072	4/13	H. J. Tompkins	107	141	3.24	4.14	456						28131
1073	4/19	"	97	108	2.69	3.81	291						850A 910A
1074	4/26	Lindsay	98	104	2.67	3.79	283						700A 720A
1075	5/3	"	77	79	2.04	3.43	161						800A
1076	5/3	H. J. Tompkins	75	79	2.16	3.45	171						28131
1077	5/9	Lindsay	99	112	2.74	3.87	308						335P 405P
1078	5/13	R. Stanley Lord	101	115	2.65	3.85	305						1215
1079	5/14	H. J. Tompkins	107	120	2.59	3.84	311						28131
1080	5/16	Lindsay	100	117	2.66	3.88	312						755A 825A
1081	5/22	H. J. Tompkins	73	62	1.27	3.07	79						28131
1082	5/22	Lindsay	72	58	1.24	3.08	72						320P 340P
1083	5/29	"	71	60	1.21	3.09	76						115P 135P
1084	5/29	H. J. Tompkins	74.5	65	1.15	3.08	75						28131
1085	6/4	"	57	42	1.17	2.98	49						"
1086	6/5	Lindsay	70	54	1.07	2.98	57						115P 135P
1087	6/8	H. J. Tompkins	52.5	35	1.03	2.81	36						120P
1088	6/13	Lindsay	56	39	.68	2.74	23						140P
1089	6/14	H. J. Tompkins	53	31	.74	2.73	23						28131
1090	6/20	"	15	12	1.00	2.80	12						FC 21
1091	6/21	Lindsay	51	31	.38	2.61	12						840A 855A
1092	6/26	"	73.5	83	1.94	3.48	182						125P 135P
1093	6/27	"	74.5	94	2.33	3.86	218						815A 840A
1094	6/28	H. J. Tompkins	16	10	.60	2.36	6						28131
1095	7/2	Brewster	4.0	1.8	.89	2.17	1.4						935A 945A
1096	7/8	H. J. Tompkins	12.5	7.2	.43	2.26	3.1						28131
1097	7/9	R. Stanley Lord	74	63	1.19	3.08	75						1215
1098	7/10	Lindsay	71	57	1.49	3.10	85						340P 400P

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. UBR

Discharge measurements of SAN GABRIEL RIVER

near Azusa, Calif., during the year ending September 30, 1935

No.	Date	Made by	Waltz Feet	Area of Section Sq. ft.	Mean velocity ft. per sec.	Open Pipe Feet	Discharge Cu. ft.	Rating Project No.	Method	Max. No. of Floods	G. M. Flood Feet	Begin End	Notes
1027	10/20	F. C. Ebert	69	73	1.58	3.22	115						27214
1028	10/23	Pasadena Water Dept				3.28	144						
1029	10/24	"				3.28	185						
1030	10/24	"				3.28	133						
1031	10/28	"				3.28	137						
1031	10/28	Gole-Hoffman				3.28	121						1210P
1032	10/23		66.5	78	1.76	3.30	138						1225P 930A 955A
1033	10/25	Lindsay	16.5	6.0	1.40	2.20	2.4						820A 828A
1034	12/18	H. J. Tompkins	67.5	81	1.87	3.40	151						28131
1035	12/19	Pasadena Water Dept				3.40	158						
1036	12/21	"				3.50	188						
1037	12/24	H. J. Tompkins	115	120	2.34	3.72	281						28131
1038	12/24	Pasadena Water Dept				3.72	255						
1039	12/24	"				3.78	308						
1040	12/26	"				3.78	302						

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U8R

Discharge measurements of SAN GABRIEL RIVER

near Azusa, Calif. during the year ending September 30, 1956

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity in Feet per Sec.	Stage Feet	Depth Feet	Rating Feet	Method	Mean Discharge CFS	High Water Feet	Notes
1099	10/14	Lindsay	56.5	38	0.72	2.72	38	6.12	0	350P 415P	FC 21	
1100	10/14	J. J. Tompkins	87	47	.85	2.79	40	6.12	0	415P 430P	28131	
1101	10/17	Lindsay	58	39	.83	2.78	32	6.11	0	415P	FC 21	
1102	10/16	H. J. Tompkins	72	46	.78	2.76	36				28131	
1103	10/24	"	72	48	.86	2.80	41	6.12	0		"	
1104	10/24	Lindsay	57	41	.86	2.80	35	6.12	0	340P 400P	FC 21	
1105	10/31	"	44	21	.46	2.46	9.6	6.11	.01	150P 205P	"	
1106	2/2	Anderson			2.12		.65			235 340	FC 27	
1106A	2/11											
1106B	2/12	Linden-Anderson								0		
1107	2/16	Linden-Anderson				2.28	3.4		8	0	1200N 1210P	FC 27
1108	2/17	Lindsay	71	56	1.29	3.08	72	6.11	0	443P 503P	FC 28	
1109	2/18	F. C. Ebert	46	27	1.41	2.78	38	6.15	0	155 215	27214	
1110	2/18	Linden-Anderson				2.75	39			0		
1111	2/18	"				2.78	39			0		
1112	2/20	Lindsay	72	85	1.80	3.18	98	6	0	220P 235P	FC 28	
1113	2/26	F. C. Ebert	73	64	1.31	3.14	84	2.8	21	6		
1114	2/27	Lindsay	72	66	1.48	3.22	98	6.12	0	330P 345P	FC 28	
1115	2/29	H. J. Tompkins	76		3.42	1.66	16	4.8	16	2		28131
1116	3/2	R. Stanley Lord	77	86	1.98	3.44	168	2.8	20	6		1215
1117	3/5	Lindsay	78	84	2.07	3.46	173	6.13	0	325P 340P	FC 28	
1118	3/11	F. C. Ebert	87.5	85	2.21	3.53	188	2.8	27	6		2722.4
1119	3/12	Lindsay	27	80	1.77	3.42	143	6.13	.05	355P 415P	FC 28	
1120	3/18	"	74.5	66	1.53	3.18	101	6		630A 649A	"	
1121	3/18	Lindsay-Fuller	75.5	86	2.10	3.52	181	6	.05	758A 817A	FC 28	
1122	3/19	"	105	130	3.90	4.02	376	6	.01	853A 925A	"	
1123	3/20	H. C. McCreery				3.57	194	2.8	24	6		29567
1124	3/26	Lindsay-Wall	76	89	2.17	3.56	190	6.14	0	905A 925A	FC 28	
1125	3/26	H. C. McCreery				3.57	204	6.24				29567
1126	3/31	F. C. Ebert	39	24	0.67	2.57	18	1.3				27214
1127	4/2	Lindsay	76	76	1.71	3.33	130	6	0	333P 358P	FC 28	
1128	4/4	R. Stanley Lord	18	11	.74	2.40	8.4	6.9				1215
1129	4/9	Lindsay	76	87	2.22	3.54	195	6.13	0	708A 728A	FC 28	
1130	4/10	Lord and McCreery	82	91	2.24	3.56	201	2.8	23	6		1215
1131	4/16	Lindsay	76	85	1.91	3.53	189	6.13	0	840A 903A	FC 28	
1132	4/17	H. C. McCreery				3.00	60	6.19				29567
1133	4/23	Lindsay	68	45	.96	2.85	43	6	0	315P 330P	FC 28	
1134	4/24	R. Stanley Lord	66	46	.85	2.85	44	2.8	20	6		1215
1135	4/30	Lindsay	71	63	1.52	3.16	96	6.15	0	315P 355P	FC 28	
1136	5/1	R. Stanley Lord	65			3.14	85	6.20				1215
1137	5/7	Lindsay	47.5	29	.36	2.45	10	6	0	802P 217P	FC 28	
1138	5/8	R. Stanley Lord	45	26	.36	2.44	9.4	6.14				1215
1139	5/14	Lindsay				2.17	25			235P		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Station No. U. B. R.
for the year ending September 30, 1956

F. C. D. Form 104

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Station No. U8R
for the year ending September 30, 1956

F. C. D. Form 104

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	161	253	256	102	178	72	2.8	0	0
2	0	0	0	181	253	256	102	178	72	2.8	0	0
3	0	0	0	178	257	161	92	170	52	2.9	0	0
4	0	0	0	187	187	160	92	216	51	2.2	0	0
5	0	0	0	18	52	181	74	243	61	2.8	0	0
6	0	0	0	18	52	181	74	243	61	2.8	0	0
7	0	0	0	83	106	513	86	250	48	2.5	0	0
8	0	0	0	89	106	504	75	289	36	2.1	0	0
9	0	0	0	449	246	5.6	215	315	35	7.9	0	0
10	0	0	0	26	456	260	5.2	209	31	5.6	0	0
11	0	0	0	116	482	583	829	513	51	1.1	0	0
12	0	0	0	116	482	583	829	513	51	1.1	0	0
13	0	0	0	111	342	275	460	305	23	1.6	0	0
14	0	0	0	107	217	285	412	309	23	1.6	0	0
15	0	0	0	107	217	285	412	309	23	1.6	0	0
16	0	0	0	282	217	285	412	309	23	1.6	0	0
17	0	0	0	109	246	329	508	315	24	0	0	0
18	0	0	0	109	246	329	508	315	24	0	0	0
19	0	0	0	168	267	238	501	317	20	0	0	0
20	0	0	0	168	267	238	501	317	20	0	0	0
21	0	0	0	116	157	246	293	186	15	0	0	0
22	0	0	0	116	157	246	293	186	15	0	0	0
23	0	0	0	186	127	313	324	86	14	0	0	0
24	0	0	0	186	127	313	324	86	14	0	0	0
25	0	0	0	287	128	547	524	79	16	0	0	0
26	0	0	0	287	128	547	524	79	16	0	0	0
27	0	0	0	286	146	363	516	79	19	0	0	0
28	0	0	0	285	156	358	59	285	67	0	0	0
29	0	0	0	292	176	363	185	285	77	188	0	0
30	0	0	0	292	176	363	185	285	77	188	0	0
31	0	0	0	180	189	367	315	285	76	217	0	0
32	0	0	0	180	189	367	315	285	76	217	0	0
33	0	0	0	190	198	569	225	74	13.0	0	0	0
34	0	0	0	190	198	569	225	74	13.0	0	0	0
35	0	0	0	207	229	105	254	243	2.2	0	0	0
36	0	0	0	207	229	105	254	243	2.2	0	0	0
37	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
38	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
39	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
40	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
41	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
42	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
43	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
44	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
45	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
46	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
47	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
48	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
49	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
50	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
51	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
52	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
53	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
54	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
55	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
56	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
57	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
58	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
59	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
60	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
61	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
62	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
63	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
64	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
65	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
66	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
67	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
68	0	0	0	3060	3565	7946	6624.7	6524.7	1251.2	241.5	0	0
69												

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 4 R

Station U4R

SANTA ANITA CREEK near Sierra Madre, Calif.

Discharge measurements of SANTA ANITA CREEK

Location

Water-stage recorder, lat. 34° 11' 30", long. 118° 1' 0",
in S.W. 1/4 N.E. 1/4 sec. 10, T. 1 N., R. 11 W., at head
of Hamitz Mills, 4 miles northeast of Sierra Madre.
Altitude, about 1,400 feet.

Drainage area

10.8 square miles.

Records available

July 1916 to September 1936

Average discharge

19 years, 4.40 second-feet.
20 years, 4.40 second-feet.

Extremes of discharge

1934-35
Maximum 630 second-feet April 8
Minimum 0.1 second-feet Oct. 1-3
1935-36
Maximum 349 second-feet Feb. 12
Minimum 0.2 second-feet at numerous times
1916-36
Maximum about 1400 second-feet April 7, 1926
Minimum practically no flow August 18 to
September 14, 1929

Remarks

1934-35 - Records good except those for period
Jan. 8 to Feb. 10, which are fair, and estimates for
which were based on 12 discharge measurements made
during period, and records from adjacent stations.
1935-36 - Records good. Discharge interpolated
Dec. 15-17.

No diversions above station. Station owned and
operated by the U. S. G. S. Water Resources Branch.

at Sierra Madre, Calif. during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage Feet	Discharge Sec. Ft.	Rating Point No.	Method	Mean area No.	G. M. Rating No.	Begin End	Mean No.
603	1/24	H. J. Tompkins	10.2	5.6	1.43	1.51	8			.6	10		28131
604	1/29	"	10.	5.	1.26	1.44	6.3			.6	10		"
605	1/31	"	10.	5.3	1.06	1.43	5.6			.6	10		"
606	2/4	"	10.	5.8	1.24	1.50	7.2			.6	11		"
607	2/6	"	11.5	12.	2.50	1.95	30.			.6	11		"
608	2/8	"	11.	11.	2.00	1.88	22.						"
609	2/11	"	14.	9.5	1.68	1.44	16				13		"
610	2/13	"	13.	8.5	1.51	1.39	13.			.6	13		"
611	2/19	"	10.8	7.2	1.31	1.28	9.4			.6	11		"
612	2/25	"	10.6	6.4	1.00	1.20	6.4			.6	11		"
613	2/27	"	8.5	3.6	1.78	1.17	6.4			.6	9		"
614	2/2	"	8.6	4.8	2.29	1.30	11.			.6	8		"
615	2/5	"	9.	4.2	1.65	1.18	6.9			.6	10		"
616	2/7	"	9.2	5.5	1.98	1.27	11.			.6	10		"
617	2/11	"	8.4	4.8	1.69	1.17	8.1			.6	10		"
618	2/18	"	8.5	3.5	1.54	1.10	5.4			.6	9		"
619	2/24	"	8.3	4.6	1.70	1.15	7.8			.6	8		"
620	4/1	"	8.5	3.4	1.47	1.10	5.			.6	8		"
621	4/8	"	31.	26.	6.00		156.			.6	7		"
622	4/8	"	28.	21.	5.15	2.75	108.			.6	10		"
623	4/12	"	18.5	12.	1.92	1.83	23.						"
624	4/15	"	17.5	7.5	2.40	1.69	18.			.6	9		"
625	4/20	"	13.5	7.	2.00	1.53	14.			.6	12		"
626	4/26	"	6.3	4.3	2.32	1.41	10.			.6	6		"
627	4/30	H. J. Tompkins	6.2	5.3	2.06	1.44	11.			.6	6		28131
628	5/4	"	6.1	4.6	1.92	1.32	8.8			.6	6		"
629	5/10	"	6.1	4.3	1.82	1.32	7.8			.6	6		"
630	5/13	R. Stanley Lord	6.7	4.9	1.79	1.30	8.8			.6	8		1215
631	5/16	H. J. Tompkins	6.2	4.2	1.83	1.30	7.7			.6	6		28131
632	5/23	"	6.2	3.7	1.70	1.24	6.3			.6	6		"
633	5/31	R. Stanley Lord	7.3	3.6	1.47	1.21	5.3			.6	8		1215
634	6/5	H. J. Tompkins	5.8	2.9	1.62	1.18	4.7			.6	6		28131
635	6/11	"	5.6	2.8	1.50	1.13	4.2			.6	6		"
636	6/18	"	2.8	2.	2.10	1.12	4.2			.6	3		"
637	6/25	"	2.8	1.8	1.78	1.08	3.2			.6	6		"
638	7/2	"	2.9	1.9	2.06	1.10	3.9			.6	6		"
639	7/9	"	2.9	1.4	1.86	1.04	2.6			.6	3		"
640	7/15	"	2.9	1.4	1.43	.98	2.0				3		"
641	7/23	"	2.9	1.4	1.36	.96	1.9						"
642	7/30	"	2.9	1.4	1.22	.92	1.7			.6	3		"
643	8/6	"	2.9	1.4	1.14	.90	1.6			.6	3		"
644	8/13	"	2.9	1.4	.93	.88	1.3			.6	3		"
645	8/17	"	2.9	1.4	.93	.89	1.3			.6	3		"
646	8/20	"	2.	1.0	1.00	.86	1.0			.6	2		"
647	8/24	"	2.	1.0	1.00	.84	1.0				2		"
648	8/26	"	2.	1.0	1.10	.86	1.1				2		"
649	9/3	"	2.	1.0	1.10	.83	1.1			.6	2		"
650	9/10	"			Mean of 2 gages	.80	.95			.6			"
651	9/17	H. J. Tompkins	2.	1.0	.85	.80	.85				2		28131
652	9/24	"	2.	1.0	.90	.80	.9				2		"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 4 R

Discharge measurements of SANTA ANITA CREEK

at Sierra Madre, Calif. during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage Feet	Discharge Sec. Ft.	Rating Point No.	Method	Mean area No.	G. M. Rating No.	Begin End	Mean No.
579	10/2	H. J. Tompkins	1.1	0.22	0.73	0.64	0.16						28131
580	10/5	"	1.1	.28	.64	.66	.16						"
581	10/9	"	1.1	.28	.61	.66	.17						"
582	10/16	"	1.1	.28	.57	.68	.17						"
583	10/20	"	3.	1.5	1.20	1.07	1.8						"
584	10/25	"	3.	1.9	.89	.87	.8						"
585	10/30	"	3.	1.2	.67	.89	.8			.6	3		"
586	12/4	"	3.	1.2	1.00	1.09	1.2			.6	6		"
587	11/6	"	3.2	1.3	.46	.88	.6						"
588	11/13	"	3.	1.2	.58	.94	.7			.6	3		"
589	11/17	"	3.	1.5	1.07	1.10	1.6				3		"
590	11/20	"	3.	1.5	1.47	1.16	2.2			.6	3		"
591	11/27	"	3.	1.2	1.08	1.06	1.3			.6	3		"
592	12/11	"	3.	1.2	1.17	1.06	1.4			.6	3		"
593	12/15	"	12.5	9.9	2.12	1.78	21.				12		"
594	12/21	"	7.1	2.8	1.32	1.39	3.7			.6	7		"
595	12/26	"	7.	2.2	1.09	1.32	2.4			.6	7		"
596	1/2	"	5.5	2.8	1.36	1.35	3.8			.6	6		"
597	1/6	"	10.	6.2	2.10	1.72	13.				10		"
598	1/10	"	10.	6.3	1.91	1.69	12.				10		"
599	1/14	"	10.3	6.5	1.51	1.55	8.3			.6	11		"
600	1/15	"	10.	6.6	2.79	1.90	24.			.6	12		"
601	1/17	"	9.7	7.1	1.55	1.66	11.			.6	10		"
602	1/19	"	10.	6.8	1.76	1.65	13.			.6	10		"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 4 R

Discharge measurement of SANTA ANITA CREEK
near Sierra Madre, Calif.

during the year ending September 30, 1956

Table with columns: No, Date, Made by, Total Area, etc. Lists measurement data for Santa Anita Creek from 1953 to 1956.

F. C. D. Form No.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U4R

SANTA ANITA CREEK near Sierra Madre, Calif.

for the year ending September 30, 1956

Daily discharge table for Santa Anita Creek, 1956. Columns: Day, Oct., Nov., Dec., Jan., Feb., Mar., Apr., May, June, July, Aug., Sept.

Summary table for 1956 with columns: Mean, Accum. Part, Remarks, Year, Mean, Accum. Part.

F. C. D. Form No.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U 4 R

SANTA ANITA CREEK near Sierra Madre

for the year ending September 30, 1955

Daily discharge table for Santa Anita Creek, 1955. Columns: Day, Oct., Nov., Dec., Jan., Feb., Mar., Apr., May, June, July, Aug., Sept.

Summary table for 1955 with columns: Mean, Accum. Part, Remarks, Year, Mean, Accum. Part.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U 5 R

Station 58R

SAVIT CREEK near Monrovia, Calif.

Discharge measurements of SAVIT CREEK

near Monrovia, Calif. during the year ending September 30, 1935

Location

Water-stage recorder, lat. 34° 10' 20", long. 117° 59' 25", in N.W. 1/4 S.W. 1/4 sec. 13 T. 1 N., R 11 W., 0.2 mile below junction of two main branches and 2 miles north of Monrovia.

Drainage area

5.3 square miles at old location, three-eighths of a mile upstream.

Records available

November 1916 to September 1936.

Average discharge

18 years (1917-35), 0.94 second-feet. Average combined discharge, creek and Monrovia pipe line, 18 years (1917-35), 2.14 second-feet. 19 years (1917-36), 0.93 second-feet. Average combined discharge of creek and Monrovia pipe line, 19 years (1917-36), 2.12 second-feet.

Extremes of discharge

1934-35 Maximum 145 second-feet April 8 Minimum no flow several months during year

1935-36 Maximum 202 second-feet Feb. 12 Minimum no flow for several months

1916-36 Maximum about 2000 second-feet April 7, 1926, estimated from flow of Rogers Creek Minimum no flow for several months each year

Remarks

1934-35 - Records good. Discharge estimated Dec. 5-7, Jan. 1-4, Apr. 5, 6, 12-23, Apr. 29 to May 8, May 29 to June 17.

1935-36 - Records fair.

Regulation at flood control dam above gage and diversions by city of Monrovia. See record for Monrovia pipe line near Monrovia, Calif.

Owned and operated by the U.S.G.S. Water Resources Branch. The Los Angeles County Flood Control District cooperates with the U.S.G.S. to the extent of making meter measurements at various times.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. U 5 R

Discharge measurements of SAVIT CREEK

near Monrovia, Calif. during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height Feet, Discharge CFS, Method, Meter No., G. H. Gage Feet, Begin End, Meter No. This table contains detailed discharge measurement records for Savit Creek from 1935 to 1936.

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height Feet, Discharge CFS, Method, Meter No., G. H. Gage Feet, Begin End, Meter No. This table contains detailed discharge measurement records for Savit Creek from 1934 to 1935.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. U 5 R

Discharge measurements of SANPIT CREEK

at Monrovia, Calif. during the year ending September 30, 1956

No.	Date	Made by	Wain Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Stage Height feet	Discharge in CFS	Rating	Method	Area of Basin Sq. Miles	42 No. of days	Rating	Mean No.
305	10/31	Lindsay	1.0	0.30	0.70	0.32	0.21				6	2	0
306	12/29	Lindsay & Young	2.7	.74	1.08	.55	.8				6	5	0
307	2/2	"	10	1.4	2.08	1.05	3.8				6	5	0
308	2/2	F. C. Ebert	7	1.5	2.26	.90	3.4				6	7	
309	2/6	Lindsay	2.5	.18	1.50		.26				6	4	
310	2/10	R. Stanley Lord	7	7.0	4.00	1.70	28				6	7	
311	2/10	"	6.4	1.2	1.21	.88	2.3				6	6	
312	2/10	"	5	1.2	.79	.77	.95				6	5	
313	2/10	Lord and McGreery	.9	.15	1.40		.21				6	6	
314	2/11	Lindsay	7.0	.41	1.48	.84	1.2				6	6	
315	2/11	Lindsay & Young	11.5	3.10	5.05	1.16	8.4				6	6	
316	2/12	Lindsay & Wall	12.5	1.94	4.12	1.34	3.0				5	7	
317	2/12	F. C. Ebert	13.3	6.3	6.35	1.85	40				6	7	
318	2/12	Cole & Kenniston	12.0	2.7	3.81	1.63	10				6	6	
319	2/13	Lindsay & Wall	11	1.4	5.06	1.81					6	6	
320	2/13	F. C. Ebert	12	3.5	4.29	1.50	15				6	12	
321	2/14	Lindsay & Wall	14	4.3	4.14	1.35	18				6	8	02
322	2/15	Cole & Kenniston	12.5	4.3	3.21	1.66	17				6	6	
323	2/15	F. C. Ebert	12.2	4.3	3.72	1.42	16				6	12	
324	2/16	Cole - Cole	13.5	5.2	5.97	1.80	31				6	5	.04
325	2/17	F. C. Ebert	11	3.4	2.53	1.15	8.6				6	10	
326	2/18	Cole	12	2.5	3.61	1.36	9.2				6	6	
327	2/20	Lindsay	10.5	3.2	1.90	1.02	6.1				6	7	0
328	2/21	H. J. Tompkins	9	2.6	1.62	.89	4.2				9		
329	2/23	Cole & Cole	12.5	4.0	3.07	2.32	12				6	6	.01
330	2/23	F. C. Ebert	12	5.7	3.16	1.39	18				6		
331	2/25	H. J. Tompkins	9	3.2	1.72	.94	5.5				6	8	
332	2/27	Lindsay	6.0	1.13	0.98	0.80	1.1				6	6	0
333	2/28	Lord and McGreery				.97	1.4				6		
334	3/3	R. Stanley Lord	6	1.6	1.19	.78	1.2				6	10	
335	3/4	H. J. Tompkins	6	1.5	1.07	.74	1.6				6		
336	3/5	Lindsay	5.8	1.2	1.18	.73	1.5				6	6	0
337	3/12	"	5.3	.87	.92	.66	.8				6	6	0
338	3/19	"	4.5	.52	.86	.66	.45				6	5	.02
339	3/21	R. Stanley Lord	3.2	.64	.89	.64	.55				6		
340	3/26	H. C. McGreery				.69	.65				7		
341	3/26	Lindsay & Wall	3.0	.67	.84	.68	.55				6	4	0
342	3/31	F. C. Ebert	7.6	2.3	1.39	.83	3.2				6	15	
343	3/31	Cole	10.2	3.2	1.94	1.16	6.2				6	6	.12
344	4/2	Lindsay	6.2	1.2	1.23	.74	1.4				6	7	0
345	4/4	Lindsay & Wall	12	3.9	2.21	1.14	8.7				6	7	0
346	4/4	F. C. Ebert	11	3.5	2.00	1.11	7.0				6		
347	4/9	Lindsay	8	1.4	2.00	.91	2.9				6	7	0
348	4/11	R. Stanley Lord	4.8	1.3	1.54	.87	2.0				6	9	
349	4/23	Lindsay	6	1.1	1.10	.87	1.2				6	6	0
350	4/24	R. Stanley Lord	4.9	1.1	1.27	.87	1.4				6	10	
351	4/30	Lindsay	6	1.2	1.03	.85	1.2				6	7	0
352	5/1	R. Stanley Lord	Mean of two meas.			.83	.82				6		
353	5/7	Lindsay	4.0	.77	.91	.80	.70				6	7	0
354	5/8	R. Stanley Lord	3	.68	1.09	.82	.73				6	6	
355	5/14	Lindsay	4.9	.94	.90	.83	.85				6	6	0
356	6/11	"	16.0	2.64	1.97	1.09	5.2				6	8	.02
357	6/19	"	1.7	.18	1.11	.71	.20				6	3	.02
358	6/25	"	1.6	.20	1.00	.74	.20				6	3	0
359	7/1	Brewster	1.0	.16	1.06	.80	.17				6	2	0
360	7/8	"	.8	.14	1.07	.90	.15				6	2	0
360A	7/16	Lindsay				.77	.03				Est.		
360B	7/23	"				.78	.02				Est.		
360C	7/30	"				.76	.01				Est.		

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.
near Monrovia, Calif.

Sta. No. U 5 R
for the year ending September 30, 1956

Daily discharge in second-feet of SANPIT CREEK

Day	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		
Sept.																																	
Aug.																																	
July																																	
June																																	
May																																	
Apr.																																	
Mar.																																	
Feb.																																	
Jan.																																	
Dec.																																	
Nov.																																	
Oct.																																	
Year																																	
Mean																																	
Max																																	
Min																																	
Remarks																																	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.
near Monrovia, Calif.

Sta. No. U 5 R
for the year ending September 30, 1956

Daily discharge in second-feet of SANPIT CREEK

Day	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		
Sept.																																	
Aug.																																	
July																																	
June																																	
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Dec.																																	
Nov.																																	
Oct.																																	
Year																																	
Mean																																	
Max																																	
Min																																	
Remarks																																	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. **F 116 S**

Discharge measurements of **ARROYO DIZON**

FC below headgate during the year ending September 30, 19**35**.

No.	Date	Made by	Width Feet	Area of Section Sq.-ft.	Mean velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating Curve diff.	Meas. app. No.	G. H. Change Total	Begin Gage No.	Meter No.
1	10/4	Brewster					0				1220F	-
2	10/10	"	2.2	.71	.55	.46	.39		6	3	0	1150A 1156A FC 8
3	10/25	"					0					1230F -
4	11/1	"					0					100F -
5	11/8	"					0					100F -
6	11/15	"					0					1030A -
7	11/22	"					0					100F -
8	11/28	"					0					1250F -
9	12/6	"					0					1230F -
10	12/18	"					0					1020A -
11	12/20	"					0					150F -
12	12/27	"					0					1245F -
13	1/3	"					0					100F -
14	1/9	"					0					1210F -
15	1/17	"					0					100F -
16	1/24	"					0					200F -
17	1/31	"					0					130F -
18	2/7	"					0					1230F -
19	2/14	"					0					1230F -
20	2/20	"					0					120F -
21	2/28	"	4.0	1.53	.92	.34	1.4		.6	4	0	1205F 1205F FC 8
22	3/7	"					0					1130F -
23	3/14	"	1.5	.33	1.12	.22	.37		.6	3	0	1140A 1145A FC 8
24	3/21	"	3.0	1.23	1.04	.25	1.5		.6	3	0	1150A 1155A "
25	3/28	Brewster	3.0	.91	.97	.20	.90		.6	3	0	1140A 1145A FC 8
26	4/4	"	3.0	.94	.82	.16	.75		.6	3	0	1115A 1120A "
27	4/11	"					0					1140A 1205F -
28	4/18	"	7.5	3.64	1.21	.49	4.4		.6	3	0	1215F FC 8
29	4/25	"	7.5	5.95	2.30	.85	14.		.6	4	0	1230F 1240F "
30	5/2	"					0					100F 1230F -
31	5/9	"	7.5	11.53	1.95	1.70	22.		.6	4	0	1240F FC 8
32	5/16	"	7.5	10.96	1.97	1.58	22.		.6	4	0	1140A 1150A "
33	5/23	"	7.5	5.68	2.06	.86	12.		.6	4	0	1155A 1160A "
34	5/29	"	7.5	5.54	1.86	.85	10.		.6	4	0	1140A 1150A "
35	6/6	"	7.5	5.12	1.50	.78	7.7		.6	4	0	1150A 1160A "
36	6/13	"	7.5	5.04	1.46	.80	7.4		.6	4	0	1140A 1150A "
37	6/20	"	7.5	4.95	.96	.78	4.7		.6	4	0	1140A 1150A "
38	6/27	"	7.5	4.15	.88	.68	5.7		.6	4	0	1130A 1140A "
39	7/3	"	7.5	4.93	.98	.80	4.9		.6	4	0	1146A 1155A "
40	7/11	"	7.5	4.08	1.16	.72	4.8		.6	4	0	1141A 1150A "
41	7/18	"	7.5	4.24	1.08	.74	4.5		.6	4	0	1140A 1155A "
42	7/25	"	7.5	4.42	1.21	.76	5.3		.6	4	0	1145A 1230F "
43	8/1	"	7.5	3.50	.99	.68	3.5		.6	4	0	1240F 1150A "
44	8/8	"	7.5	3.59	1.27	.72	4.5		.6	4	0	1155A 1160A 1145A "
45	8/15	"	7.5	3.59	1.25	.72	4.4		.6	4	0	1155A 1140A "
46	8/22	"	7.5	3.67	1.20	.72	4.8		.6	4	0	1150A 1155F "
47	8/29	Lindsey	7.0	3.57	1.13	.72	4.2		.6	7	0	1225F FC 21
48	9/5	"	7.1	5.11	1.19	.75	3.7		.6	7	0	1200F 1210F "
49	9/12	Brewster	7.5	3.47	1.25	.78	4.4		.6	4	0	1155A FC 8
50	9/19	"	7.5	3.82	1.17	.76	4.3		.6	4	0	1155A 1210F "
51	9/26	"	7.5	3.80	1.21	.78	4.6		.6	4	0	1220F "

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F1168

Discharge measurements of ARROYO DITCH below headgate during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height Feet, Discharge Sec. Ft., Rating Percent, Method, Meter No., Gage No., Depth Ft., Meter No. Includes data for measurements 1 through 46.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 99 9

Discharge measurements of ARROYO SECO at Avenue 26 during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height Feet, Discharge Sec. Ft., Rating Percent, Method, Meter No., Gage No., Depth Ft., Meter No. Includes data for measurement 1.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 163 9

Discharge measurements of ARROYO SECO - MILLARD CREEK 1/2 mi. above Devils Gate Dam during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height Feet, Discharge Sec. Ft., Rating Percent, Method, Meter No., Gage No., Depth Ft., Meter No. Includes data for measurements 1, 2, and 3.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 157 9

Discharge measurements of ARROYO SEQUIS at Roosevelt Hwy during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height Feet, Discharge Sec. Ft., Rating Percent, Method, Meter No., Gage No., Depth Ft., Meter No. Includes data for measurements 1 through 10.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 166 3

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 166 8

Discharge measurements of BALLONA CREEK

Discharge measurements of BALLONA CREEK

at Jacob St. during the year ending September 30, 19 36

at Jacob St. during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mean rise, G. M. change, Begin time, Meter No. Contains 55 rows of data for station F 166 3.

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mean rise, G. M. change, Begin time, Meter No. Contains 55 rows of data for station F 166 8.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 87 B

Discharge measurements of BANTA DITCH at head of pipe line during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height Feet, Discharge Cfs., Rating, Meas. No., G. H. Chart Total, Begin Date, Meter No. Rows 1-50.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 87 B

Discharge measurements of BANTA DITCH at head of pipe line during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height Feet, Discharge Cfs., Rating, Meas. No., G. H. Chart Total, Begin Date, Meter No. Rows 1-50.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 143 B

Discharge measurements of BIG ROCK CREEK

at 300 ft. above Palette Creek during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Program diff., Method, Meas. No., G. H. change Total, Begin Time, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F143B

Discharge measurements of BIG ROCK CREEK

at 300 ft. above Palette Creek during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Program diff., Method, Meas. No., G. H. change Total, Begin Time, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 175 B

Discharge measurements of BIG TUJUNGA - BREAKNECK CREEK

at 0.6 mi. above mouth during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Program diff., Method, Meas. No., G. H. change Total, Begin Time, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 175 B

Discharge measurements of BIG TUJUNGA - CLEAR CREEK

at above mouth during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Program diff., Method, Meas. No., G. H. change Total, Begin Time, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 10 P

Discharge measurements of BIG TUJUNGA CREEK

Parshall flume 800 ft. below Big Tujunga Dam #1 during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Program diff., Method, Meas. No., G. H. change Total, Begin Time, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 10 P

Discharge measurements of BIG TUJUNGA CREEK Parshall flume

at 800 ft. below Big Tujunga Dam #1 during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Program diff., Method, Meas. No., G. H. change Total, Begin Time, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F175B

Discharge measurements of BIG TUJUNGA - MAPLE CREEK

at mouth during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Program diff., Method, Meas. No., G. H. change Total, Begin Time, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 149 B

Discharge measurements of BIG TUJUNGA - TRAIL CANYON CREEK

at above mouth during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Program diff., Method, Meas. No., G. H. change Total, Begin Time, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 155 S

Discharge measurements of BIG TUJUNGA WASH at Foothill Blvd. during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Depth feet, Discharge Sec.-ft., Rating Project G.F., Method, Mass. cont. No., G. H. charge Total, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F155B

Discharge measurements of BIG TUJUNGA WASH at Foothill Blvd. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Depth feet, Discharge Sec.-ft., Rating Project G.F., Method, Mass. cont. No., G. H. charge Total, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F798

Discharge measurements of BROWNS CULCH at junction with San Gabriel River during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Depth feet, Discharge Sec.-ft., Rating Project G.F., Method, Mass. cont. No., G. H. charge Total, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 140 S

Discharge measurements of OASTAIC CREEK at highway bridge near Elizabeth Lake Canyon during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Depth feet, Discharge Sec.-ft., Rating Project G.F., Method, Mass. cont. No., G. H. charge Total, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 108 S

Discharge measurements of OASTAIC CREEK at 1 1/2 miles West of Oastaic Jct. during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Depth feet, Discharge Sec.-ft., Rating Project G.F., Method, Mass. cont. No., G. H. charge Total, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 84 S

Discharge measurements of GATE DITCH at Below Headgate during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Depth feet, Discharge Sec.-ft., Rating Project G.F., Method, Mass. cont. No., G. H. charge Total, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F648

Discharge measurements of CATE DITCH at below headgate during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height Feet, Discharge Sec. Ft., Rating Percent, Method, Meas. No., G. No. Change Total, Regn. No., Meas. No. Contains 51 rows of discharge data for Cate Ditch.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 849

Discharge measurements of CERRITOS SLOUGH at Anaheim Blvd. (Long Beach Storm Drain) during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height Feet, Discharge Sec. Ft., Rating Percent, Method, Meas. No., G. No. Change Total, Regn. No., Meas. No. Contains 18 rows of discharge data for Cerritos Slough.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F618

Discharge measurements of COLD CREEK at Crater Camp during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height Feet, Discharge Sec. Ft., Rating Percent, Method, Meas. No., G. No. Change Total, Regn. No., Meas. No. Contains 1 row of discharge data for Cold Creek.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F2568

Discharge measurements of CORRAL CREEK at Roosevelt Highway during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height Feet, Discharge Sec. Ft., Rating Percent, Method, Meas. No., G. No. Change Total, Regn. No., Meas. No. Contains 9 rows of discharge data for Corral Creek.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 141 S

Discharge measurements of ELIZABETH LAKE CREEK

at bridge at Center Cabin Site during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent, Method, Mean gage No., G. H. above Total Feet, Begin Time, Meter No. Data includes measurements from 1934 to 1935 by various individuals like Luos, Miller, Livingstone.

Discharge measurements of ELIZABETH LAKE CREEK

at bridge at Center Cabin Site during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent, Method, Mean gage No., G. H. above Total Feet, Begin Time, Meter No. Data includes measurements from 1936 to 1937 by Luos.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 165 S

Discharge measurements of EL MONTE AVE. STORM DRAIN

at below Lower Avenue Road during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent, Method, Mean gage No., G. H. above Total Feet, Begin Time, Meter No. Data includes measurements from 1936 to 1937 by Cole - Hofmann.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F132S

Discharge measurements of GAVIN CANYON CREEK

at Weldon Cr. Hwy. 1000 ft. below Towaloy Cr. during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent, Method, Mean gage No., G. H. above Total Feet, Begin Time, Meter No. Data includes measurements from 1935 to 1936 by Luos - Miller.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F259S

Discharge measurements of LOS ALITOS CREEK

at Roosevelt Highway during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent, Method, Mean gage No., G. H. above Total Feet, Begin Time, Meter No. Data includes measurement from 1936 by Carlson - Redican.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 232 S

Discharge measurements of LOS ANGELES RIVER

at 1/4 mi. below Buena Vista St. during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent, Method, Mean gage No., G. H. above Total Feet, Begin Time, Meter No. Data includes measurements from 1934 to 1936 by Hollinger, Merideth, and Erickett.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 232 B

Discharge measurements of LOS ANGELES RIVER

at 1/4 mi. below Buena Vista St. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Bridge, Mean velocity, Stage, Discharge, Rating, etc. Rows 1-46.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 255 B

Discharge measurements of LOS ANGELES RIVER

at Niagara St. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Bridge, Mean velocity, Stage, Discharge, Rating, etc. Rows 1-46.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 196 B

Discharge measurements of PACOIMA CREEK

at Mealey Ave. during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height Feet, Discharge Sec.-ft., Rating, Method, Mean gage No., G. H. Change Total, Begin and End, Meter No. Contains 18 rows of data.

B - Staff gage installed in May 1936 on South Abutment

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 196 B

Discharge measurements of PACOIMA CREEK

at Mealey Ave. during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height Feet, Discharge Sec.-ft., Rating, Method, Mean gage No., G. H. Change Total, Begin and End, Meter No. Contains 3 rows of data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F197B

Discharge measurements of PACOIMA WASH

at Arletta St. during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height Feet, Discharge Sec.-ft., Rating, Method, Mean gage No., G. H. Change Total, Begin and End, Meter No. Contains 3 rows of data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F197B

Discharge measurements of PACOIMA WASH

at Arletta St. during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height Feet, Discharge Sec.-ft., Rating, Method, Mean gage No., G. H. Change Total, Begin and End, Meter No. Contains 23 rows of data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 197 B

Discharge measurements of PALLETTE CREEK

at Big Rock Creek during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height Feet, Discharge Sec.-ft., Rating, Method, Mean gage No., G. H. Change Total, Begin and End, Meter No. Contains 11 rows of data.

Discharge measurements of PALLETTE CREEK

at Big Rock Creek during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height Feet, Discharge Sec.-ft., Rating, Method, Mean gage No., G. H. Change Total, Begin and End, Meter No. Contains 12 rows of data.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 248 S

Discharge measurements of RIO HONDO

100 ft. above Arrow Highway during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, Mean area, G. H. change, Begin, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 248 S

Discharge measurements of RIO HONDO

100 ft. above Arrow Highway during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, Mean area, G. H. change, Begin, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 238 S

Discharge measurements of RUSTIC CANYON STORM DRAIN

100 ft. above Channel Road during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, Mean area, G. H. change, Begin, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 258 S

Discharge measurements of RUSTIC CANYON STORM DRAIN

100 ft. above Channel Road during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, Mean area, G. H. change, Begin, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 238 S

Discharge measurements of RUSTIC CANYON STORM DRAIN

100 ft. above Channel Road during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage height, Discharge, Rating, Method, Mean area, G. H. change, Begin, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F918

Discharge measurements of SAN DIMAS CREEK

at above San Dimas Dam during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mean No., G. H. Change, Begin, Meter No. Data rows include measurements from 10/26 to 8/15.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F918

Discharge measurements of SAN DIMAS CREEK

at above San Dimas Dam during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mean No., G. H. Change, Begin, Meter No. Data rows include measurements from 2/20 to 3/13.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F918

Discharge measurements of SAN DIMAS CREEK

at above San Dimas Dam during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mean No., G. H. Change, Begin, Meter No. Data rows include measurements from 3/19 to 7/26.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 847 S

Discharge measurements of SAN GABRIEL RIVER

at Arrow Highway during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mean No., G. H. Change, Begin, Meter No. Data rows include measurements from 2/21 to 6/27.

Discharge measurements of SAN GABRIEL RIVER

at Arrow Highway during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gate height, Discharge, Rating, Method, Mean No., G. H. Change, Begin, Meter No. Data rows include measurements from 3/11 to 4/21.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 86 3

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F66 8

Discharge measurements of SAN GABRIEL RIVER below Standifer Ditch during the year ending September 30, 1955

Discharge measurements of SAN GABRIEL RIVER Below Standifer Ditch during the year ending September 30, 1956

Table with columns for No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gage height feet, Discharge Sec.-ft., Rating, Method, Meter No., G. H. change, and Meter No. for two years of data (1955 and 1956).

Sta. 100-A

AZUSA-DUARTE TUNNEL DIVERSION below headgate at weir.

LIST OF DISCHARGES AT VARIOUS TIMES

Date	Time	Gage height	Discharges sec.-ft.	How determined	Observer
1934					
10/23	10:55A	1.61	79.	Discharge curve	Lindsay
10/25	-	.22	2.6	By addition	"
12/21	11:25A	1.60	71.	By subtraction	"
1935					
1/3	12:40P	1.58	77.	By subtraction	"
1/16	3:00P	1.36	63.	By subtraction	"
1/24	3:45P	1.47	68.	Discharge curve	"
2/14	4:50P	.85	27.	"	"
2/21	10:15A	1.23	51.	"	"
2/27	5:15P	1.45	67.	"	"
3/8	10:50A	1.36	60.	"	"
3/13	11:25P	1.41	68.	"	"
3/21	2:40P	1.25	52.	"	"
3/27	9:50A	1.41	64.	"	"
4/3	11:25A	.93	31.	"	"
5/9	4:15P	1.35	59.	"	"
5/16	8:40A	1.56	75.	"	"
5/22	4:00P	1.50	70.	By subtraction	"
5/29	2:05P	1.50	73.	"	"
6/5	1:50P	1.26	56.	"	"
6/13	1:55P	.91	23.	Current meter meas.	"
6/21	7:05A	.61	12.	"	"
6/26	1:10P	1.59	80.	Discharge curve	"
6/27	6:25A	1.35	75.	"	"
7/10	4:10P	1.57	84.	By subtraction	"

Sta. 100-B

OLD DUARTE DITCH below headgate.

LIST OF DISCHARGES AT VARIOUS TIMES

Date	Time	Gage height	Discharges sec.-ft.	How determined	Observer
1934					
10/23	10:02A 11:10A	1.61	.15.	Current meter meas.	Lindsay-Cornick
10/25	9:02A 9:07A	.21	.60	"	Lindsay
12/21	12:45P 12:51P	1.60	12.	"	"
1935					
1/3	1:20P 1:30P	1.58	14.	"	"
1/16	3:00P	1.36	13.	Discharge curve	"
1/24	3:45P	1.47	14.	"	"
1/30	3:50P	1.50	15.	"	"
2/14	4:50P	.85	5.8	"	"
2/21	10:25A	1.23	11.	"	"
2/28	4:10P	1.45	14.	"	"
3/7	8:50A	.94	6.9	"	"
3/13	1:25P	1.41	14.	"	"
3/27	9:50A	1.41	14.	"	"
4/3	11:25A	.93	6.8	"	"
5/9	-	1.35	13.	"	"
5/16	8:40A	1.56	16.	"	"
5/23	9:20A	1.50	15.	"	"
5/29	2:00P	1.52	15.	"	"
6/6	1:50P	1.25	11.	"	"
7/10	4:10P	1.57	16.	"	"

Sta. 100-B

OLD DUARTE DITCH below headgate.

LIST OF DISCHARGES AT VARIOUS TIMES

Date	Time	Gage height	Discharges sec.-ft.	How determined	Observer
1935					
10/14	4:45P	1.04	1.1	Estimated	Lindsay
1936					
2/20	5:12P	1.58	16.	Discharge curve	"
2/27	3:58P 4:04P	1.61	13.	Current meter meas.	"
3/5	4:00P	1.64	14.	Discharge curve	"
3/12	4:30P	1.63	13.	"	"
4/23	3:53P 4:00P	1.21	8.4	Current meter meas.	"
5/7	2:25P	0.51	1.8	Current meter meas.	"

Sta. 100-C

PIPE LINE FROM AZUSA P. H. TO SO. PART OF AZUSA waste at stand pipe diversion (So. of dairy corral) to government test basin.

LIST OF DISCHARGES AT VARIOUS TIMES

Date	Time	Gage height	Discharge sec.-ft.	How determined	Observer
1934					
10/25	9:50A		1.8	Discharge Curve	Lindsay
11/15	9:20A		0.25	"	"
11/22	3:00P		0.70	"	"
12/6	9:45A		0.80	"	"
1935					
1/10	4:00P		1.5	Estimated	"
1/16	3:35P		4.4	Discharge Curve	"
1/24	4:45P		2.6	"	"
1/30	4:15P		1.6	"	"
2/7	3:30P		0.75	Estimated	"
2/14	5:15P		7.6	Discharge Curve	"
2/21	8:00A		2.6	"	"
2/28	4:15P		2.5	"	"
3/7	9:00A		2.0	"	"
3/13	2:25P		0.48	"	"
3/21	2:55P		1.4	"	"
3/27	11:15A		1.2	"	"
4/3	11:50A		0.25	"	"
4/10	11:00A		1.8	"	"
4/19	9:55A		1.0	"	"
4/26	8:25A		0.90	"	"
5/3	9:25A		1.0	"	"
5/9	4:30P		1.4	"	"
5/16	9:15A		1.2	"	"
5/23	9:25A		1.2	"	"
5/29			0.35	"	"
6/5	2:00P		0.50	"	"

Sta. 100-D

PIPE LINE FROM AZUSA P.H. TO SO. PART OF AZUSA.

Outflow from stand pipe 100' So. of Sierra Madre Ave. and about 300' West of Canyon Road.

LIST OF DISCHARGES AT VARIOUS TIMES

Date	Time	Gage height	Discharge sec.-ft.	How determined	Observer
1934					
10/25	10:00A - 10:20A	-	5.3	Current meter meas.	Lindsay
11/8	10:45A - 11:05A	-	2.6	" " "	"
11/15	10:05A - 10:15A	-	2.7	" " "	Lindsay-Cole
11/22	3:15P - 3:35P	-	4.8	" " "	Lindsay
11/28	4:20P -	-	3.0	Discharge Curve	"
12/6	9:40A - 1:00A	-	3.4	Current meter meas.	"
1935					
1/3	3:10P - 3:15P	-	0.47	Current meter meas.	"
1/10	4:10P -	-	3.7	Discharge Curve	"
1/16	3:40P -	-	2.6	"	"
1/24	4:50P -	-	2.4	"	"
1/30	4:20P -	-	3.0	"	"
2/7	4:00P -	-	0.40	Estimated	"
2/21	11:50A -	-	3.2	Discharge Curve	"
2/28	4:30P -	-	3.2	"	"
3/7	8:30A -	-	1.3	"	"
3/13	2:40P -	-	2.2	"	"
3/21	3:00P -	-	2.1	"	"
3/27	11:10A -	-	2.1	"	"
4/3	11:55A -	-	2.2	"	"
4/10	-	-	1.2	"	"
5/9	4:35P -	-	2.8	"	"
5/16	9:30A -	-	1.0	"	"
5/23	-	-	1.9	"	"
5/29	4:00P -	-	1.7	"	"
6/5	2:00P -	-	1.6	"	"

Sta. 100-D

PIPE LINE FROM AZUSA P.H. TO SO. PART OF AZUSA

Outflow from stand-pipe 100' So. of Sierra Madre Ave. and about 300' West of Canyon Road.

LIST OF DISCHARGES AT VARIOUS TIMES

Date	Time	Gage height	Discharges sec.-ft.	How determined	Observer
1936					
2/20	6:10P	0.28	2.6	Discharge curve	Lindsay
2/27	4:50P	0.12	0.60	" " "	"
3/5	4:45P	0.14	0.80	" " "	"
3/12	5:20P	0.14	0.90	" " "	"

Sta. 100-E

OLD EDISON WASTE DITCH below main spreading canal.

LIST OF DISCHARGES AT VARIOUS TIMES

Date	Time	Gage height	Discharge sec.-ft.	How determined	Observer
1934					
10/23	11:45A - 11:47A	-	1.1	Current meter meas.	Lindsay
1935					
1/3	2:35P - 2:40P	-	3.8	" " "	"
1/10	3:30P -	-	0.40	Estimated	"
1/16	3:30P -	-	1.0	"	"
1/24	4:30P -	-	0.50	"	"
1/30	3:55P -	-	0.50	"	"
2/28	4:05P -	-	0.50	"	"
3/7	8:55P -	-	0.30	"	"
3/13	2:20P -	-	0.30	"	"
3/21	2:50P -	-	1.0	"	"
3/27	11:00A -	-	0.50	"	"
4/26	8:20A -	-	0.40	"	"
5/3	9:20A -	-	0.40	"	"
5/9	4:20P -	-	0.50	"	"
5/16	-	-	0.40	"	"
5/23	9:20A -	-	0.50	"	"
5/29	2:15P -	-	0.30	"	"
6/5	1:55P -	-	0.40	"	"

Sta. 100-F

DIVERSION FROM DUARTE DITCH below confluence of

Duarte ditch and old Duarte ditch.

LIST OF DISCHARGES AT VARIOUS TIMES

Date	Time	Gage height	Discharge sec.-ft.	How determined	Observer
1934					
12/6	9:25A - 9:35A	-	9.1	Current meter meas.	Lindsay
12/21	1:00P - 1:06P	-	24.	" " "	"
1935					
1/10	3:50P - 4:00P	-	8.5	" " "	"

F. C. D. Form 12-18 (11-35)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 127 S

Discharge measurements of SANTA CLARA RIVER

xx 1 mi. W. of Castaic Junction during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rainfall Percent	Metho.	Meas. No.	G. H. change Total	Begin End	Meter No.
1	6/7	Luce	15.0	9.44	1.94	18.	.6	18	-	1140A	1150A	FC 13	
2	7/5	"	13.3	8.85	1.79	16.	.6	10	-	805A	810A	"	
3	7/28	"	14.0	9.32	1.97	18.	.6	9	-	1150A	1030A	"	
4	9/12	"	13.2	8.30	2.37	20.	.6	10	-	1045A	1035A	"	
5	9/26	"	13.0	7.84	2.19	16.	.6	9	-	1045A	1045A	"	

Discharge measurements of SANTA CLARA RIVER

new 1 mi. W. of Castaic Junction during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Rainfall Percent	Metho.	Meas. No.	G. H. change Total	Begin End	Meter No.
1	11/7	Luce - Luce	13.0	11.8	1.79	21.	.6	8	-	850A	1000A	FC 13	
2	12/19	Luce - Miller	8.0	6.58	2.18	19.	.6	8	-	205P	212P	"	
3	1/17	Luce	16.0	11.2	1.96	22.	.6	10	-	1200B	1210P	"	
4	2/28	"	14.8	21.8	2.73	59.	.6	10	-	205P	215P	"	
5	3/12	"	19.0	12.7	1.70	22.	.6	9	-	235P	245P	"	
6	3/26	"	19.0	11.6	1.73	20.	.6	9	-	1000A	1010A	"	
7	5/8	"	7.6	6.62	2.72	18.	.6	8	-	940A	930A	"	
8	5/21	"	12.2	7.54	2.11	16.	.6	8	-	115A	1125A	"	
9	5/28	"	12.5	7.30	2.18	16.	.6	8	-	320P	330P	"	
10	6/11	"	11.9	6.42	1.60	10.	.6	8	-	1025A	1035A	"	
11	7/15	"	12.1	6.11	1.71	10.	.6	9	-	1010A	1025A	"	
12	8/14	"	10.5	6.14	1.64	10.	.6	8	-	945A	945A	"	
13	9/11	"	10.0	6.10	1.61	9.8	.6	8	-	945A	830A	"	

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 55 S

Discharge measurements of SANTA MONICA CANYON

near 160 ft. below Channel Lane during the year ending September 30, 19 25

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent diff., Method, Mean area No., G. H. change Total, Begin time, Meter No. Rows include measurements by Prickett, Kooh, Collings, Garman, etc.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 55 S

Discharge measurements of SANTA MONICA CANYON

near 160 ft. below Channel Lane during the year ending September 30, 19 25

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent diff., Method, Mean area No., G. H. change Total, Begin time, Meter No. Rows include measurements by Prickett, Garman, Bonadiman, etc.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 55 S

Discharge measurements of SANTA MONICA CANYON

near 150' below Channel Lane during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent diff., Method, Mean area No., G. H. change Total, Begin time, Meter No. Rows include measurements by Prickett, Andren-Keifer, Bonadiman, etc.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 125 S

Discharge measurements of SANTIAGO CREEK

near 500 ft. above Little Rock Creek during the year ending September 30, 19 25

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent diff., Method, Mean area No., G. H. change Total, Begin time, Meter No. Rows include measurements by Luce - Miller, Fuller, etc.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F 125 S

Discharge measurements of SANTIAGO CREEK

near 500' above Little Rock Creek during the year ending September 30, 19 36

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Gate height feet, Discharge Sec.-ft., Rating Percent diff., Method, Mean area No., G. H. change Total, Begin time, Meter No. Row includes measurement by Luce.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P2575

Discharge measurements of SOLSTICE CREEK at Roosevelt Highway during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Point, Method, Mean No., G. H. Change, Depth Feet, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 85 S

Discharge measurements of STANDIFER DITCH below headgate during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Point, Method, Mean No., G. H. Change, Depth Feet, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. P 85 S

Discharge measurements of STANDIFER DITCH below headgate during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Point, Method, Mean No., G. H. Change, Depth Feet, Meter No.

Discharge measurements of STANDIFER DITCH below headgate during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Point, Method, Mean No., G. H. Change, Depth Feet, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 2558

Discharge measurements of STANDFEE DITCH

at below headgate during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft per sec, Stage Height Feet, Discharge Sec. Ft., Rating Project, Meas. No., G. H. Change From, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 2558

Discharge measurements of TRANOAS CREEK

at Roosevelt Highway during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft per sec, Stage Height Feet, Discharge Sec. Ft., Rating Project, Meas. No., G. H. Change From, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 2663

Discharge measurements of TRI-CITY OUTFALL SEWER

at above junction with Rio Hondo during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft per sec, Stage Height Feet, Discharge Sec. Ft., Rating Project, Meas. No., G. H. Change From, Begin End, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. F66S

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. M180

Discharge measurements of TRI - CITY OUTFALL SEWER at above junction with Rio Hondo during the year ending September 30, 1936

Discharge measurements in BIG ROCK CREEK DRAINAGE AREA at miscellaneous points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Percent, Method, Mean Temp. No., G. H. Change Feet, Elevation Feet, Meter No.

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Percent, Method, Mean Temp. No., G. H. Change Feet, Elevation Feet, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. M180

Discharge measurements of in BIG TUJUNGA DRAINAGE AREA at miscellaneous points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage height feet, Discharge Sec.-ft., Rating Percent, Method, Mean Temp. No., G. H. Change Feet, Elevation Feet, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 1190

Discharge measurements of BIG TUJUNGA CREEK

at above Big Tujunga Dam #1 during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height Feet, Discharge Sec. Ft., Rating Percent diff., Method, Meas. No., G. H. Gauge Total, Rain End, Misc. No. Rows include measurements for Big Tujunga Creek at various points like above Big Tujunga Dam #1, below Fox Creek, and Big Tujunga - Yagouan Creek.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 1190

Discharge measurements of LOS ANGELES RIVER DRAINAGE AREA

at Miscellaneous points during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gate Height Feet, Discharge Sec. Ft., Rating Percent diff., Method, Meas. No., G. H. Gauge Total, Rain End, Misc. No. Rows include measurements for Big Tujunga Wash at Mouth of Canyon, Los Angeles River 700 ft. below Boena Vista St., Los Angeles River outflow from Little Gallery in Upper Griffith Park, and various points in the Los Angeles River drainage area.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. Miss.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. Miss.

Discharge measurements at RIO HONDO DRAINAGE AREA

Discharge measurements at RIO HONDO DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

at miscellaneous points during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating	Method	Max. No.	G. H. Chart Total	Begin Meter No.	No.	Date	Made by	Width Feet	Area of Section Sq.-ft.	Mean Velocity ft. per sec.	Gate height feet	Discharge Sec.-ft.	Rating	Method	Max. No.	G. H. Chart Total	Begin Meter No.
RIO HONDO - SURFACE FLOW INTO RIO HONDO from West $\frac{1}{2}$ mi. below Rush Avenue.													RIO HONDO near Rush Avenue												
1935													1934												
1	1/9	Brewster & Boone	6.0	2.14	1.43	-	3.1	.6	3	-	950A 955A	FC 8	1	10/4	Brewster	1.8	.52	1.17	-	.60	.6	3	-	915A 919A 915A 920A	FC 8
													2	10/10	"	1.8	.38	1.26	-	.48	.6	3	-	900A 905A 845A	"
													3	10/25	"	2.4	.77	1.26	-	.95	.6	3	-	845A 848A 925A	"
													4	11/1	"	2.0	.62	1.12	-	.60	.6	2	-	920A 120A	"
													5	11/8	"	2.4	.67	.96	-	.65	.6	3	-	125A 845A 850A 925A	"
RIO HONDO - DIVERSION FROM RIO HONDO by pump on East side, $\frac{1}{2}$ mi. above Mission Bridge.													6 11/15 " "												
1935													7 11/22 " "												
													8	11/28	"	1.5	.51	1.08	-	.55	.6	3	-	925A 929A 920A	"
1	8/15	Brewster	2.0	1.12	.80	-	.90	.6	4	-	945A 950A	FC 8	9	12/6	"	1.5	.42	1.10	-	.46	.6	3	-	924A 948A 945A	"
SANTA ANITA CREEK - OAKWOOD SYNDICATE DIVERSION CANAL from Santa Anita Creek at Headgate.													10 12/20 " "												
1934													11 12/27 " "												
													12	1/3	"	6.	1.96	.57	-	1.1	.6	3	-	1000A 920A 925A 940A	"
1	10/26	R. Lindsay	2.9	1.92	.81	-	1.6	.6	4	-	1000A 1005A 1140A 1145A 250P	FO 21	13	1/9	"	8.	2.86	1.17	-	3.3	.6	4	-	945A 945A 955A 920A	"
2	11/1	"	2.9	1.61	.63	-	1.0	.6	3	-	255P	"	14	1/17	"	20.	6.38	1.14	-	7.3	.6	7	-	940A 920A	"
3	12/6	"	3.3	1.74	.61	-	1.1	.6	4	-	255P	"	15	1/24	"	29.	13.55	1.35	-	18.	.6	10	-	940A 920A 900A	"
4	12/11	"				.13	.31	Weir	-	-	415P	-	16	1/31	"	24.	9.92	1.38	-	14.	.6	5	-	905A 905A 910A	"
5	12/27	"					1.4	"	-	-	145P	-	17	2/7	"	10.	3.52	1.59	-	5.6	.6	5	-	905A 905A 915A 905A 910A 920A	"
													18	2/14	"	15.	5.76	1.96	-	11.	.6	5	-	915A 905A 910A 920A	"
													19	2/20	"	8	1.62	1.17	-	1.9	.6	4	-	940A 915A 925A	"
SANTA ANITA CREEK below Oakwood Syndicate Diversion.													20 2/28 " "												
1934													21 3/14 " "												
1	11/1	R. Lindsay					3.8	Comp.	-	-	1145P	-	22	3/21	"	14.	13.02	.83	-	37.	.6	7	-	850A 900A	"
2	12/11	"					4.1	"	-	-	415P	-	23	3/28	Brewster	20.	10.18	2.54	-	26.	.6	5	-	910A 920A 910A 915A 900A	FC 8
RIO HONDO at Peak Road													24 4/4 " "												
1935													25 4/11 " "												
1	6/27	R. Lindsay	17.5	7.47	.59	-	4.4	.6	5	-	1100A 1110A	FO 21	26	4/18	"	8.	1.72	1.21	-	2.1	.6	4	-	910A 910A 925A 905A	"
													27	4/25	"	61.	22.66	1.98	-	45.	.6	8	-	915A 905A 915A 910A 855A	"
													28	5/2	"	8.	1.82	.92	-	1.7	.6	4	-	915A 915A 855A	"
													29	5/9	"	61.	13.94	1.97	-	28.	.6	7	-	910A 855A	"
EATON CREEK above Pasadena Diversion Tunnel													30 5/16 " "												
1935													31 5/23 " "												
1	4/11	R. Lindsay	10.6	5.45	2.52	-	14.	.6	11	-	1245P 130P	FO 21	32	5/29	"	3.	.49	1.08	-	.55	.6	3	-	900A 904A 900A	"
													33	6/6	"	4.	.70	.84	-	.60	.6	4	-	905A 900A 905A 850A 855A	"
													34	6/13	"	2.	.45	1.04	-	.47	.6	3	-	900A 905A 845A 850A	"
													35	6/20	"	3.	.39	.85	-	.38	.6	3	-	905A 845A 850A 900A	"
													36	6/27	"	3.	.40	1.00	-	.40	.6	3	-	905A 845A 850A 900A	"
RIO HONDO at Garvey Avenue													37 7/3 " "												
1934													38 7/11 " "												
1	12/20	Brewster & Boone	15.	5.69	1.23	-	7.0	.6	8	-	905A 915A	FC 8	39	7/18	"	3.	.66	1.17	-	.75	.6	3	-	900A 845A 850A 855A	"
													40	7/25	"	2.1	.58	1.32	-	.75	.6	3	-	850A 855A 859A 910A	"
													41	8/1	"	1.5	.40	1.30	-	.50	.6	3	-	915A 915A 920A 850A	"
													42	8/8	"	2.4	.63	1.16	-	.75	.6	3	-	915A 915A 920A 850A	"
													43	8/15	"	4.0	.72	.96	-	.70	.6	4	-	855A	"
													43A	8/29	R. Lindsay	-	-	-	-	.60	Est.	-	-	910A	"
													43B	9/5	R. Lindsay	-	-	-	-	.60	Est.	-	-	845A 852A	"
													44	9/12	"	3.0	.45	1.09	-	.45	.6	3	-	857A 852A 857A	FC 8
													45	9/19	"	3.0	.61	1.00	-	.60	.6	3	-	850A 850A	"
													46	9/26	"	1.8	.80	1.38	-	.70	.6	3	-	855A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. Miso.

Discharge measurements in SAN GABRIEL RIVER DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

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	Meas. No.	G. H. Gauge Total	Begin End	Meter No.
SAN GABRIEL RIVER - OVERFLOW AT LOMAN DYKE from San Gabriel Spreading Grounds													
1934 at 11th St.													
1	12/21	R. Lindsay	2.5	.68	.70	-.27	.6	4	-	445P	FC 21		
2	12/28	"	-	-	-	2.0	Est.	-	-	1000A	-		
5	1/5	"	3.8	1.05	2.32	-.24	.6	4	-	335P	FC 21		
4	1/7	"	-	-	-	2.0	Est.	-	-	800A	-		
5	1/10	"	4.	1.63	1.49	-.24	.6	5	-	435P	FC 21		
6	1/16	"	-	-	-	2.5	Est.	-	-	400P	-		
7	1/24	"	-	-	-	2.2	"	-	-	500P	-		
8	1/25	"	-	-	-	3.0	"	-	-	1000A	-		
9	1/29	"	-	-	-	.80	"	-	-	1100A	-		
10	2/7	"	-	-	-	2.5	"	-	-	405P	-		
11	3/15	"	4 channels	-	-	7.8	.6	10	-	235P	FC 21		
12	3/27	"	3 channels	-	-	6.5	.6	10	-	1120A	-		
San Gabriel River - Devils Canyon at mouth													
1	1934 11/2	Waddicor	4.0	.93	.29	0.27	.6	6	-	1100A	FC 26		
2	1935 1/10	"	10.5	9.12	3.07	25.	.6	6	-	340P	"		
3	3/6	"	7.5	5.79	1.76	10.	.6	5	-	250P	"		
4	4/11	"	11.0	10.0	2.63	26.	.6	7	-	515P	"		
5	4/27	"	10.0	8.11	1.24	10.	.6	7	-	270P	"		
6	4/28	"	10.0	8.06	1.22	9.9	.6	7	-	242P	"		
7	4/29	"	10.0	7.97	1.16	9.3	.6	7	-	1140A	"		
8	4/30	Ash	15.4	10.3	1.26	13.	.6	8	-	1230P	"		
9	6/7	Waddicor	2.0	.20	.55	0.11	.6	2	-	1245P	FC 26		
10	6/12	"	2.0	.20	.60	0.12	.6	2	-	871A	"		
11	6/14	"	2.0	.20	.55	0.11	.6	2	-	730A	"		
12	6/19	"	1.0	.10	.60	0.06	.6	2	-	1234P	"		
San Gabriel River - West Fork below San Gabriel Dam #2 (leakage)													
1	1934 12/16	Waddicor	3.2	2.62	.43	1.1	.6	4	-	1030A	FC 26		
San Gabriel River - W. Fork-outlet tunnel, San Gabriel Dam #2 (leakage)													
1	1935 4/28	Harrison				0.17				130P			
2	6/9	Waddicor				0.17				1230P			
3	6/27	Turner				0.03				1030A			

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. Miso.

Discharge measurements in SAN GABRIEL RIVER DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

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	Meas. No.	G. H. Gauge Total	Begin End	Meter No.
SAN GABRIEL RIVER - W. FORK 2 1/2 miles above North Fork.													
1934													
1	10/2	Waddicor	4.0	.73	.26	2.50	.26	.6	6	-	1806P		1216P FC 6
SAN GABRIEL RIVER - EAST FORK 1/4 mi. above Camp Bonita													
1935													
1	2/20	Reber	32.0	31.7	3.68	-	114.	.6	7	-	230P		245P FC 12
SAN GABRIEL RIVER - EAST FORK - CATTLE CANYON CREEK, 1/4 mi. above junction with San Gabriel River - East Fork.													
1935													
1	2/20	Reber	10.6	8.31	3.02	-	25.	.6	7	-	215P		226P FC 12
SAN GABRIEL RIVER - EAST FORK - HORSE CANYON CREEK, 200 ft. above junction with San Gabriel River - East Fork.													
1935													
1	1/29	Reber	4.5	.64	1.72	-	.95	Float 9	-	-	130P		135P
SAN GABRIEL RIVER - EAST FORK - ROBERTS (or Williams) CANYON CREEK, 100 ft. above junction with San Gabriel River - East Fork.													
1935													
1	1/29	Reber	2.9	.52	.65	-	.34	Float 6	-	-	230P		240P
San Gabriel River below San Gabriel Dam #1													
1934													
1	10/3	Waddicor				0.05		Flume					905A
2	10/6	Turner				0.04		Flume					
3	1/29	"	37.3	56.2	2.22	125.	.6	17	-	920A			945A FC 23
4	2/15	Patterson-Boling	75.0	94.9	2.78	264.	.6	11	-	1130A			1122A FC 22
5	2/21	Patterson-Reber	47.0	75.2	2.31	174.	.6	13	-	1100A			1116A
6	2/27	Patterson-Tscharnner	44.5	65.8	1.74	114.	.6	12	-	815P			833P FC 23
7	3/5	Tscharnner-Boling	47.0	59.4	1.43	85.	.6	14	-	1105A			1125A
8	3/15	Patterson-Tscharnner	44.5	63.4	1.78	113.	.6	11	-	1034A			1050A FC 22
9	3/21	Reber-Tscharnner	46.4	59.5	1.47	88.	.6	13	-	1010A			1030A FC 23
10	4/23	Patterson-Reber	61.5	78.5	2.43	191.	.6	15	-	1115A			1138A FC 37
11	4/26	Reber - Boling	60.5	74.9	2.25	168.	.6	15	-	1121A			1210P FC 23
12	5/3	Patterson	41.0	66.6	2.29	152.	.6	13	-	1153A			1219P FC 37
13	5/6	Reber	62.0	65.0	2.08	135.	.6	15	-	985A			1000A FC 23
14	6/17	"	28.0	16.8	1.28	21.	.6	10	-	730A			745A FC 12
15	6/17	"	35.0	24.1	2.14	52.	.6	12	-	944A			1004A
16	6/17	"	35.0	22.0	1.68	37.	.6	12	-	308P			327P
17	6/17	"	26.0	12.1	.86	10.	.6	9	-	822P			837P
18	6/18	"	27.0	14.8	1.16	17.	.6	10	-	755A			755A
19	6/18	"	35.0	21.5	1.58	34.	.6	11	-	845A			845A
20	6/18	Reber - Turner	28.0	15.2	1.08	16.	.6	10	-	905A			1130A

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. Miss.

Discharge measurements of SAN GABRIEL RIVER - AZUSA CONDUIT

at above sand box during the year ending September 30, 1935 (see meter notes for explanation of gage heights and for additional gage readings)

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gage Height Feet, Discharge Cfs., Rating Factor, Meas. No., G. H. change Total, Gage No., Meter No. Contains 50 rows of data for San Gabriel River - Azusa Conduit.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. Miss.

Discharge measurements of SAN GABRIEL RIVER - AZUSA CONDUIT

at above sand box during the year ending September 30, 1935 (see meter notes for explanation of gage heights and for additional gage readings)

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Gage Height Feet, Discharge Cfs., Rating Factor, Meas. No., G. H. change Total, Gage No., Meter No. Contains 50 rows of data for San Gabriel River - Azusa Conduit, including various gage readings and flow measurements.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. Misc.

Discharge measurements of SAN GABRIEL RIVER DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. Misc.

Discharge measurements of SAN GABRIEL RIVER DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gage height, Discharge, Rating, Method, Meter No. Entries include SAN GABRIEL RIVER - EAST FORK - CAPE HORN CANYON CREEK, SAN GABRIEL RIVER - EAST FORK - GRAVEYARD CANYON CREEK, SAN GABRIEL RIVER - EAST FORK - SUSANNA CREEK, SAN GABRIEL RIVER below Azusa - Duarte Tunnel Diversion, SAN GABRIEL RIVER - AZUSA-DUARTE TUNNEL DIVERSION, SAN GABRIEL RIVER - EASTSIDE WATER CO. DIVERSION DITCH, SAN GABRIEL RIVER - EDISON WASTE DITCH into San Gabriel River, SAN Gabriel River - Azusa Conduit at Morris Dam.

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gage height, Discharge, Rating, Method, Meter No. Entries include FISH CREEK at mouth, SAN GABRIEL RIVER - DUARTE DIVERSION DITCH, SAN GABRIEL RIVER - WASTE DITCH from Duarte Ditch to San Gabriel River, SAN GABRIEL RIVER - INFLOW TO FISH CANYON SPREADING GROUNDS, FISH CREEK - RISING WATER AT LOMAN DIKE, FISH CREEK above junction with San Gabriel River.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. M160.

Discharge measurements 10 SAN GABRIEL RIVER DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. M189.

Discharge measurements 12 SANTA CLARA RIVER DRAINAGE AREA

at various points during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. Ft.	Rating Factor d/c	Method	Meter No.	C. H. Total	Begin Date	Meter No.
SAN GABRIEL RIVER 3100 ft. below Durfee Road													
1	12/20 1935	Brewster				0							
2	1/17	"	4.	.70	1.43	-	1.0	-	.5	4	-	1120A 1125A	FC 8
SAN GABRIEL RIVER - GATE DIVERSION DITCH at heading.													
1	5/2 1935	Brewster	9.	4.29	1.27		5.5	-	.6	6	-	1055A 1101A	FC 8
SAN GABRIEL RIVER - GATE DIVERSION DITCH waste to San Gabriel River at sluice gate													
1	5/2 1935	Brewster	5.0	6.32	1.05	-	6.7	-	.6	5	-	1155A 1205P	FC 8
SAN GABRIEL RIVER at Syphon Road													
1	12/20 1934	Brewster - Boone	16.	3.94	.88	-	3.5	-	.6	8	-	1202P 1210P	FC 8
SAN GABRIEL RIVER at Garvey Ave.													
1	5/27 1935	H. Lindsay	15.	4.33	1.34	-	5.8	-	.5	7	-	1150A 1200N	FC 21
SAN GABRIEL RIVER at Durfee Road													
1	12/20 1935	Brewster				0							
2	1/24	"	10.	2.74	1.18	-	3.2	-	.6	5	-	1155A 1110A	FC 8
3	1/31	"	18.	4.23	1.34	-	5.7	-	.6	6	-	1040L 1050A	"
4	2/14	"	17.	8.05	2.20	-	18.	-	.6	6	-	1040A 1050A	"
5	2/20	"	32.	8.88	1.47	-	15.	-	.6	8	-	1050A 1050A	"
6	3/14	"	11.	2.06	1.18	-	2.3	-	.6	5	-	1055A 1050A	"
7	3/21	"	14.	2.88	.98	-	2.8	-	.6	7	-	1040A 1125A	"
8	4/11	"	4.	.93	.96	-	.90	-	.6	4	-	1130A 1040A	"
9	4/18	"	24.	11.132	1.2	-	24.	-	.6	5	-	1120A 1130A	"
10	4/25	"	66.	13.40	1.14	-	15.	-	.6	9	-	1050A 1050A	"
11	5/8	"	35.	12.21	1.22	-	15.	-	.6	9	-	1045A 1015A	"
12	5/9	"	43.	12.04	1.40	-	17.	-	.6	8	-	1020A 1015A	"
13	5/15	"	18.	6.40	1.54	-	12.	-	.6	5	-	1030A	"
SAN JOSE CREEK, 1 mi. above Workmen Mill Road													
1	2/7 1935	Brewster	6.0	1.79	1.61	-	2.9	-	.6	5	-	215P 220P	FC 8

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec. Ft.	Rating Factor d/c	Method	Meter No.	C. H. Total	Begin Date	Meter No.
SANTA CLARA RIVER - near Lang, Calif.													
1	1935 1/10	Luce - Miller	3.4	.76	1.00		0.75		.6	4		1020A 1025A	FC 13
SANTA CLARA RIVER - NATURAL CHANNEL near Lang, Calif.													
1	1934 10/4	Luce	2.6	.34	.71		0.28		.6	5		215A 220A	FC 13
2	9/12	"	2.0	.22	.64		0.14		.6	3		205P	"
SANTA CLARA RIVER - DIVERSION DITCH near Lang, Calif.													
1	10/4	Luce	2.1	1.17	.40		0.48		.6	4		210A 215A	FC 13
2	6/7	"	2.7	1.04	.84		0.90		.6	5		210P 150P	"
3	9/12	"	2.8	1.30	.68		0.90		.6	5		155P	"
SANTA CLARA RIVER 1 mile above Lang													
1	6/8 1935	Luce	4.	1.08	1.29	-	1.4	-	.6	5	-	930A 935A	FC 13
SANTA CLARA RIVER near Lang.													
1	6/7 1935	Luce	3.	.27	.70	-	.19	-	.6	4	-	225A 230A	FC 13
SANTA CLARA RIVER near Los Angeles County Line.													
1	9/20 1934	Luce	12.5	6.45	2.36	-	15.	-	.6	11	-	1120A 1130A	FC 13
2	10/4	"	12.5	6.74	2.27	-	15.	-	.6	10	-	940A 940A	"
3	11/20	"	13.0	7.77	2.77	-	22.	-	.6	8	-	940A 400P	"
4	12/7	"	13.0	7.37	2.82	-	21.	-	.6	9	-	410P	"
5	12/26 1935	"	10.5	8.03	3.14	-	25.	-	.6	10	-	300P	"
6	1/10	Luce - Miller	21.4	15.68	2.54	-	40.	-	.6	10	-	310P 1240P	"
7	1/15	"	24.5	14.67	2.51	-	37.	-	.6	11	-	1250P 1255P	"
8	1/31	" - Livingstone	16.2	11.51	1.94	-	22.	-	.6	10	-	215P	"
9	2/8	"	16.4	11.91	2.12	-	25.	-	.6	11	-	410P	"
10	2/14	" - Miller	17.0	11.55	2.17	-	25.	-	.6	11	-	420P 405P	"
11	2/20	"	17.0	10.07	2.03	-	20.	-	.6	9	-	415P	"
12	2/28	"	15.6	12.43	1.90	-	25.	-	.6	10	-	1110A 1120A	"
13	3/12	Luce	16.0	11.82	1.87	-	22.	-	.6	9	-	420P 1020A	FC 13
14	3/29	"	16.0	11.39	1.88	-	21.	-	.6	9	-	1040A 950A	"
15	4/19	"	13.0	10.71	2.39	-	25.	-	.6	8	-	1000A 210P	"
16	5/9	"	15.5	9.80	1.92	-	19.	-	.6	9	-	220P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. Misc.

Discharge measurements of MISCELLANEOUS SINGLE MEASUREMENTS

at ~~xxxx~~ during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Gage Height feet	Discharge Sec. ft.	Rating Program diff.	Method	Mean stage No.	G. H. Stage Total	Begin End	Meas. No.
		<u>BALLONA CREEK 100 ft. above La Cienega Storm Drain</u>											
1	10/17	Prickett	4.8	2.01	.96	-	1.9	.6	4	-	310P 320P	FC 20	
		<u>BALLONA CREEK 50 ft. below mouth of La Cienega Storm Drain</u>											
1	10/17	Prickett	7.0	1.73	.83	-	1.4	.6	6	-	315P 323P	FC 20	
		<u>BALLONA CREEK 75 ft. below Slauson-Adams Storm Drain</u>											
1	10/17	Prickett	8.0	4.21	1.64	-	6.9	.6	6	-	345P 354P	FC 20	
		<u>ENCINAL CANYON at Roosevelt Hwy. N. side of culvert.</u>											
1	2/14	Carlson-Redlean	6.0	2.4	9.71	.4	20	Float	1	-	1020P	-	
		<u>KENTER CANYON STORM DRAIN 200 ft. above Ocean Ave. in Santa Monica.</u>											
1	2/11	Prickett, Keifer, Andrew					109	Est.			445P		
		<u>LE CHUZA CANYON at Roosevelt Hwy. N. side of culvert.</u>											
1	2/14	Carlson-Redlean	5.0	1.75	10.5	.35	18	-	1	-	1035P	FC 12	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. Misc.

Discharge measurements of BIG ROCK CREEK DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Gage Height feet	Discharge Sec. ft.	Rating Program diff.	Method	Mean stage No.	G. H. Stage Total	Begin End	Meas. No.
		<u>BIG ROCK CREEK - DEVILS PUNCH BOWL CREEK 100 ft. above junction with Big Rock Creek.</u>											
1	2/16	Luca	9.0	1.74	2.83	-	4.9	.6	6	-	545P 550P	FC 13	
		<u>LITTLE ROCK CREEK FLUME 1/4 mi. below Little Rock Dam</u>											
1	2/13	Luca-Miller	7.9	9.32	3.13	-	29	.6	7	-	1010A 1020A	FC 13	
		<u>PALLETTE CREEK below Weimers Diversion</u>											
1	10/18	Luca	3.5	.55	.94	-	0.50	.6	4	-	1105A 1110A 340P	FC 35	
2	11/30	"	3.6	.47	1.11	-	0.50	.6	6	-	345P	FC 13	
3	3/13	"	2.5	.37	1.16	-	0.43	.6	4	-	345P 350P	"	
4	7/18	"	2.6	.24	.83	-	0.20	.6	4	-	640A 643A	"	
5	8/8	"	1.3	.09	.78	-	0.07	.6	2	-	1247P 1250P	"	

Discharge measurements of PALLETTE CREEK

at 1 mi. above Big Rock Creek during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Gage Height feet	Discharge Sec. ft.	Rating Program diff.	Method	Mean stage No.	G. H. Stage Total	Begin End	Meas. No.
1	10/12	Luca	3.8	.45	2.67	-	1.2	.6	6	-	1055A 1100A	FC 35	
2	11/30	"	3.4	.69	1.59	-	1.1	.6	7	-	335P 340P	FC 13	
3	3/13	"	3.7	.58	1.36	-	0.80	.6	6	-	338P 343P	"	
4	6/12	"	3.6	.43	1.05	-	0.45	.6	4	-	240P 243P	"	
5	7/18	"	3.1	.52	1.42	-	0.75	.6	5	-	630A 635A	"	
6	8/8	"	3.4	.71	.94	-	0.70	.6	6	-	1240P 1245P	"	
7	9/18	"	3.5	.70	.91	-	0.65	.6	4	-	440P 445P	"	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. MISC.

Discharge measurements of LOS ANGELES RIVER DRAINAGE AREA

at Miscellaneous Points during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean Velocity ft. per sec.	Gage Height feet	Discharge Sec. ft.	Rating Program diff.	Method	Mean stage No.	G. H. Stage Total	Begin End	Meas. No.
		<u>BIG TUJUNGA WASH at San Fernando Road</u>											
1	10-18	Irwin	10.0	7.65	1.30	-	12.	-	6	-	1030A 1045A	FC 31	
		<u>LOS ANGELES RIVER 1/4 mi. above Balboa St.</u>											
1	2-24	Bollinger	12.5	6.39	.87	-	5.5	.6	10	-	1145A 1200A	FC 6	
		<u>LOS ANGELES RIVER 600 ft. below Buena Vista St.</u>											
1	2-20	Bollinger					1.98				Parshall Flume	1015A	
2	2-27	"					1.35				"	1015A	
3	3-19	"					1.25				"	1240P	
4	4-2	"					1.20				"	240P	
5	4-9	"					1.14				"	140P	
6	4-17	Bollinger					1.15				"	1045A	
		<u>LOS ANGELES RIVER at Hyperion Bridge</u>											
1	9-24	Bollinger									1.1 Cipolletti Weir	1020A	
		<u>LOS ANGELES RIVER near Dallas St.</u>											
1	9-24	Bollinger									0.65 Cipolletti Weir	1000A	
		<u>LOS ANGELES RIVER at end of Arnold St.</u>											
1	9-24	Bollinger									0.75 Cipolletti Weir	940A	
		<u>ARROYO SECO - DEVILS GATE DAM LEAKAGE below tunnel outlet</u>											
1	3-20	Lindsay	1.2	.07	.42	-	0.03	.6	2	-	1150A 1152A	FC 28	
		<u>ARROYO SECO - DEVILS GATE DAM OUTFLOW</u>											
1	6-30	Irwin	13.0	4.73	1.52	-	7.2	.6	11	-	1150A 1205P 1216P	FC 31	
2	6-30	"	10.0	3.00	1.22	-	3.7	.6	10	-	1232P 148P	"	
3	6-30	"	15.0	6.50	1.78	-	12.	.6	7	-	156P	"	
4	6-30	"	18.0	9.44	2.31	-	22.	.6	10	-	158P 213P	FC 31	
5	6-30	"	16.0	9.14	2.70	-	25.	.6	15	-	335P 359P	"	
		<u>ARROYO SECO below Devils Gate Dam (leakage)</u>											
3/20	Lindsay	1.2	.07	.42	-	0.03	.6	2	-	-	1150A 1152A	FC 28	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. M190

Discharge measurements in LOS ANGELES RIVER DRAINAGE AREA

Discharge measurements in LOS ANGELES RIVER DRAINAGE AREA

at Miscellaneous Points during the year ending September 30, 1936

at Miscellaneous Points during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Cross Section Feet	Discharge Sec. Ft.	Rating Parameter	Meas. No.	G. H. change Feet	Regr. End	Meas. No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Cross Section Feet	Discharge Sec. Ft.	Rating Parameter	Meas. No.	G. H. change Feet	Regr. End	Meas. No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Cross Section Feet	Discharge Sec. Ft.	Rating Parameter	Meas. No.	G. H. change Feet	Regr. End	Meas. No.
<u>ARROYO SECO at Pasadena Recorder Sta. - mouth of canyon</u>												<u>BIG TUJUNGA CREEK above Big Tujunga Dam #1</u>																								
1	12-29	Lindsay-Young	15.0	2.22	1.90	1.20	4.2				422P 430P 125P 113P	FO 28	1	4-16	Turner	13.0	4.64	1.59	-	7.4	.6	10	-	1000A 1010A 1100A	FO 5											
2	2-2	"	29.0	16.2	7.42	2.29	121.				1105P 1121P 1154A	"	2	4-23	"	12.7	3.99	1.38	-	5.5	.6	10	-	1216P 1220P	FO 31											
3	2-12	Cole-Kenniston	28.0	24.0	6.45	-	155.				1207P 825A 835A	FO 7	3	7-2	Irwin	1.5	.09	.89	-	0.08	.6	2	-	115P 116P	FO 31											
4	2-13	Lindsay-Wall	20.5	10.2	5.37	2.28	85.				1207P 825A 835A	FO 28	4	7-30	Turner	1.0	.08	1.38	-	0.11				Float 3												
5	4-4	"	16.7	5.66	4.45	1.97	25.				835A	"	5	8-13	"	1.2	.11	.55	-	0.06				3												
													6	8-27	"	1.0	.06	.50	-	0.03				2												
<u>PACIFICA WASH above headworks at spreading grounds</u>												<u>MONTI VISTA WATER CO. DIVERSION at Big Tujunga Cr.</u>																								
1	4-8	Irwin	14.1	7.85	2.99	8.70	24.				456P 505P 540P 446P	FO 13	1	10-9	Turner	3.6	.87	1.03	-	0.90	.6	5	-	312P 317P	FO 23											
2	4-8	"	14.0	7.86	3.24	8.70	25.				555P 446P	"	1	10-3	J. Luce	25.0	14.1	1.80	-	25.	.6	10	-	300P 310P	FO 13											
3	4-9	Luce-Irwin	14.1	7.10	1.93	8.61	14.				555P 825A 835A	"	2	10-10	"	26.0	13.3	1.72	-	23.	.6	11	-	945A 955A	"											
4	4-15	Luce	14.2	8.61	2.38	8.76	21.				825A 835A	"	3	10-18	Irwin	28.0	12.5	1.68	-	21.	.6	8	-	905A 920A	FO 31											
5	4-17	Turner	13.7	8.64	2.64	8.74	23.				620P 635P 1045A	FO 5	4	10-24	J. Luce	26.0	13.2	1.56	-	21.	.6	11	-	610A 620A	FO 13											
6	4-24	Luce	14.3	8.21	2.39	8.67	20.				1055A 1000A	FO 13	5	10-31	"	25.0	10.0	1.43	-	14.	.6	9	-	310P 320P	"											
7	5-4	Turner-Miller	14.4	11.0	3.06	8.90	34.				1015A	FO 5	6	11-7	J. Luce-M. Luce	23.5	7.08	1.06	-	7.5	.6	9	-	1285P 1215P	"											
													7	11-13	"	20.0	4.89	.85	-	4.2	.6	8	-	300P 310P	"											
													8	11-21	J. Luce	21.0	4.62	.96	-	4.4	.6	8	-	1025A 1035A	"											
													9	11-27	J. Luce-M. Luce	20.8	4.54	.71	-	3.2	.6	7	-	1205P 1215P	"											
													10	12-5	J. Luce	4.5	2.12	1.00	-	2.1	.6	6	-	1045A 1050A	"											
													11	7-24	"	8.6	3.21	1.66	-	5.3	.6	8	-	1145A 1155A	"											
<u>FALL CREEK at Big Tujunga Creek</u>												<u>BIG TUJUNGA WASH-DIVERSION DITCH from Big Tujunga Wash above Stonhurst Ave.</u>																								
1	11-27	Turner	1.5	.12	.33	-	0.04				Float 3 1123A 1128A	-	1	10-30	J. Luce	2.8	1.51	1.67	-	2.5	.6	4	-	1030A 1035A	FO 13											
<u>BIG TUJUNGA CREEK below Fox Creek</u>												<u>BIG TUJUNGA WASH - HANSON DIVERSION above Stonhurst Ave.</u>																								
1	11-27	Turner	3.5	.81	2.02	-	1.6				Float 5 1010A 1015A	-	2	10-16	Irwin					0																
2	2-19	Odekirk	17.0	11.1	3.10	-	34.				1105A 1121A 205P	FO 5	3A	11-7	J. Luce	2.2	.50	.92	-	0.55	.6	3	-	130P 135P	FO 13											
3	2-24	"	18.4	12.2	3.64	-	44.				225P	"	4	11-27	"	2.0	.30	.83	-	0.25	.6	4	-	345P	"											
4	2-27	"	18.7	8.97	2.89	-	27.				1210P 1230P	FO 19	5	12-5	"	2.6	.92	1.11	-	1.0	.6	5	-	100P 105P	"											
5	3-5	"	13.3	5.06	2.34	-	12.				1215P 232P	"				2.5	.48	1.06	-	0.50	.6	3	-	1255P 160P	"											
6	3-12	"	6.4	3.51	2.55	-	9.0				1058A 1018A	"	<u>BIG TUJUNGA WASH - 300 ft. below San Fernando Road</u>																							
7	3-18	Odekirk	7.30	3.22	2.05	-	6.6				915A 850A 855A 908A	FO 19	1	11-21	J. Luce	2.5	.87	1.16	-	1.0	.6	5	-	1120A 1125A	FO 13											
8	3-26	"	7.70	3.56	1.89	-	6.7				1005A 1015A	"																								
9	3-31	Odekirk-Turner	19.0	10.4	3.01	-	31.				940A 1000A 1035A	"																								
10	4-2	Odekirk	11.4	5.32	2.13	-	11.				1035A	"																								
11	4-9	"	11.4	5.88	2.03	-	12.				1055A	"																								
12	4-23	Turner	11.0	3.92	1.42	-	5.6				1015A 1027A 1050A	FO 5	1	10-3	J. Luce	6.8	4.32	2.41	-	10.	.6	7	-	410P 420P	FO 13											
13	4-30	"	11.0	3.50	1.22	-	4.3				1100A 1100A 905A	"	2	10-4	"	7.0	4.63	2.62	-	12.	.6	7	-	725A 730A	"											
14	5-7	Odekirk	6.0	3.10	1.20	-	3.7				915A 1025A 1035A	FO 19	3	10-30	"	6.9	4.78	2.49	-	12.	.6	7	-	1117A 650A	"											
15	5-14	Turner	5.5	2.44	.92	-	2.2				1015A 1025A	FO 5	4	10-24	"	8.5	5.62	2.65	-	15.	.6	7	-	700A	"											
16	5-21	"	5.5	2.47	.83	-	2.1				1025A 1050A	"	5	10-31	"	7.5	4.02	1.91	-	7.7	.6	7	-	415P 425P	"											
17	5-28	"	5.5	2.32	.81	-	1.9				1056A	"	6	11-7	"	5.2	1.41	1.10	-	1.6	.6	5	-	150P	"											
18	6-4	Irwin	5.0	1.37	1.28	-	1.8				1130A 1145A	FO 30	7	11-13	"	4.0	.96	.52	-	0.50	.6	4	-	420P 425P	"											
19	9-10	Turner					0				900A	"	8	11-21	"	5.3	.95	.67	-	0.65	.6	5	-	1245P 1250P	"											
													9	11-27	J. Luce-M. Luce	5.0	.91	.70	-	0.65	.6	5	-	180P 135P	"											

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. M189

Discharge measurements of RIO HONDO DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage, Discharge, Rating, Measured, Measured, G. M. Gauge, Rating, Meter No. Rows include measurements at Santa Fe Crossing, Big Santa Anita Creek, Peck Road Diversion, El Monte Sewer, Eaton Wash, Rio Hondo Slough, Rio Hondo near Rush Avenue, and Rio Hondo 100 ft. below Garvey Avenue.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. M189

Discharge measurements of RIO HONDO DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Stage, Discharge, Rating, Measured, Measured, G. M. Gauge, Rating, Meter No. Rows include measurements at Rio Hondo near Rush Avenue, Rio Hondo 500 ft. above Garvey Avenue, Rio Hondo at Garvey Avenue, and Rio Hondo 500 ft. below Garvey Avenue.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. 1182

In SAN GABRIEL RIVER DRAINAGE AREA

Discharge measurements at Miscellaneous Points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Open height feet, Proportion of full, Rating from gage, Method, Gage No., U. S. gauge, Rating, Meter No. Entries include SAN GABRIEL RIVER - W. FORK at Valley Forge Lodge, SAN GABRIEL RIVER - W. FORK below Dam No. 2, SAN GABRIEL RIVER - W. FORK side canyons between San Gabriel Dam No. 2 and Sta. 251, SAN GABRIEL OUTLET TUNNEL - DAM NO. 1 at Lower end of Diversion, SAN GABRIEL RIVER - BROWNS GULCH Near Dam No. 1, SAN GABRIEL RIVER - NORTH QUARRY CREEK at S. end of Azusa Sandbox.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. Misc.

In SAN GABRIEL RIVER DRAINAGE AREA

Discharge measurements at Miscellaneous Points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Open height feet, Proportion of full, Rating from gage, Method, Gage No., U. S. gauge, Rating, Meter No. Entries include SAN GABRIEL RIVER - NORTH QUARRY CREEK 50 ft. S. of Azusa Sandbox, AZUSA CONDUIT LEAKAGE 4/10 mi. S. of Sandbox, SAN GABRIEL RIVER - SOUTH QUARRY 1/4 mi. below Dam No. 1, SAN GABRIEL RIVER - SOUTH QUARRY CREEK DIVERSION 3/10 mi. below San Gabriel Dam No. 1, SAN GABRIEL CANYON SPRING 4/10 mi. below Dam No. 1, SAN GABRIEL RIVER 1/2 mi. below Dam No. 1, SAN GABRIEL RIVER 3/4 mi. below Dam No. 1.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. Misc.

Discharge measurements of in SAN GABRIEL RIVER DRAINAGE AREA

at Miscellaneous Points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Stage Height Feet, Discharge Sec. ft., Stage Height Feet, Mean Depth Feet, C. H. change Feet, Right Bank Feet, Meter No. Includes entries for SAN GABRIEL RIVER Below Azusa-Duarte Tunnel Diversion, FISH CREEK, SANTA FE DIVERSION, SAN GABRIEL RIVER - SANTA FE DIVERSION at Santa Fe crossing, POWER LINE DIVERSION, SAN GABRIEL RIVER - POWERLINE DIVERSION near Arrow Hwy., SAN GABRIEL RIVER - SECOND STREAM FROM EAST SIDE near Arrow Hwy., SAN GABRIEL RIVER - SANTA FE DIVERSION near Arrow Hwy., SAN GABRIEL RIVER at Lower Azusa Road.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. Misc.

Discharge measurements of in SAN GABRIEL RIVER DRAINAGE AREA

at Miscellaneous Points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean Velocity ft. per sec., Stage Height Feet, Discharge Sec. ft., Stage Height Feet, Mean Depth Feet, C. H. change Feet, Right Bank Feet, Meter No. Includes entries for LOWER AZUSA ROAD DIVERSION at San Gabriel River, SAN GABRIEL RIVER - SANTA FE DIVERSION at Lower Azusa Rd., INTAKE TO POND ABOVE GARVEY AVE. at San Gabriel River, RETURN TO SAN GABRIEL RIVER at Garvey Ave., INFLOW TO POND BELOW GARVEY AVE. at San Gabriel River, SAN GABRIEL RIVER at Durfee Road, SAN GABRIEL RIVER 900 ft. below Durfee Road.

PERCOLATION DATA

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percolation measurements of SAJON WASH

at various points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gauge height, Discharge, Set, Method, Mean, G. H., G. H., Meter, No. Contains data for various points like 200 ft. below Foothill Blvd., 25 ft. below San Pasqual, etc.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percolation measurements of BIG DALTON CREEK

at miscellaneous points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gauge height, Discharge, Set, Method, Mean, G. H., G. H., Meter, No. Contains data for Big Dalton Creek at various locations like Ben Lomond Ave., Citrus Ave., etc.

Rising Water

measurements of BIG TUJUNGA WASH

at 25 ft. above junction with Los Angeles River at Lankershim Blvd. during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gauge height, Discharge, Set, Method, Mean, G. H., G. H., Meter, No. Contains data for Prickett-Bollinger.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percolation measurements of LITTLE DALTON CREEK

at various points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gauge height, Discharge, Set, Method, Mean, G. H., G. H., Meter, No. Contains data for Little Dalton Creek at various points like Lorraine Avenue, Ben Lomond Ave., etc.

Rising Water

measurements of LOS ANGELES RIVER

at miscellaneous points during the year ending September 30, 1936

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gauge height, Discharge, Set, Method, Mean, G. H., G. H., Meter, No. Contains data for Los Angeles River at various points like 300 ft. above Whitsett St., 100 ft. below Colfax Ave., etc.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. _____

Percolation

measurements in RIO HONDO DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Set. Point No.	Method	Mean Area No.	G. H. Change Total	Begin Time of Day	Meter No.
RIO HONDO in vicinity of S.F.R.R. (0+00)													
H 1	10/22						29.4	3					
H 2	2/13	(sketch: see mess. E 3 to E 16)					-	3					
H 3	2/13						6.15	46					
H 4	2/13						4.75	46					
H 5	2/13						3.59	46					
H 6	2/13						2.13	46					
H 7	2/13						1.08	46					
H 8	2/13						0.53	46					
H 9	2/13						0.26	46					
H 10	2/13						0.18	46					
H 11	2/13						0	46					
H 12	2/13						1.24	46					
H 13	2/13						0.68	46					
H 14	2/13						0.42	46					
H 15	2/13						0.30	46					
H 16	2/13						0.04	46					
RIO HONDO at Sta. 7+00													
H 17	12/26		46.0	53.80	2.80		178.3	25		14		1105A	
H 18	12/27		47.0	57.80	2.52		171.0	30		15		1115A	
RIO HONDO at Sta. 47+00													
H 19	10/22		24.0	18.00	1.28		23.1	3		6		357P 406P	
RIO HONDO at Sta. 50+00													
H 20	12/26						170.7	25				1220P	
H 21	12/27		58.5	54.36	2.43		156.2	30		17		120P	
RIO HONDO at Sta. 55+00													
H 22	12/18						46.1	7				1100A 1105A	
H 23	12/19		33.0	32.34	2.32		75.0	13		10		145P	
H 24	12/20		37.0	35.40	2.21		73.9	19		9		1220P	
H 25	12/21		37.0	35.52	2.25		80.0	21		9			
RIO HONDO above split at Sta. 59+00													
H 26	10/24		2				21.5	5				1007A 1022A 1050A 1055A	
							.72	5					
RIO HONDO at Arrow Highway													
H 43	2/19												420P 510P 1137A 130P FC 21
H 44	4/17												
RIO HONDO at Stations 90+00, 92+00 and 93+00													
H 27	10/22		4				20.3	5				450P 524P 930A 950A FC 21	
H 28	10/24		"				21.2	5					
H 29	12/18		"				44.6	7					
H 30	12/19		"				74.1	13					
H 31	12/20		"				70.2	19				155P 210P 210P	1002A 1022A
H 32	12/21		"				75.3	21					
H 33	12/26		"				152.9	25				235P 220P	240P 252P
H 34	12/27		"				137.8	30					

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. _____

Percolation

measurements in RIO HONDO DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Set. Point No.	Method	Mean Area No.	G. H. Change Total	Begin Time of Day	Meter No.	
RIO HONDO above split (122+00)														
H 35			28.0	31.12	1.97		61.3	29					852A 917A	
RIO HONDO - E. BRANCH flow to W. Branch (126+00)														
			12.0	8.16	1.64		13.4	29					935A 945A	
RIO HONDO to San Gabriel River at Sta. 126+00														
H 36	10/24		12.0	10.98	1.18		12.6	5 6					1145A	
RIO HONDO at Stations 125+00, 130+00 & 135+00.														
H 37	12/18								2	channels			45.1	7
H 38	12/19								"				68.2	13
H 39	12/20								"				74.2	19
H 40	12/21								4	channels			64.1	21
RIO HONDO at Stations 125+00, 130+00 and 135+00.														
H 41	12/26									5	channels		153.0	25
H 42	12/27									2	channels		121.1	30
RIO HONDO - MAIN STREAM at Sta. 125+00														
H 42A	12/20												27.1	18
													6.55	18
														6
														1105A
RIO HONDO ABOVE ARROW HIGHWAY at Sta. 125+00														
H 42B	12/20												37.2	18
													8.08	18
														6
														420P
														500P
RIO HONDO MAIN BRANCH at Sta. 125+00														
H 42C	12/21												35.2	22
													7.65	22
														7
														935A
RIO HONDO - MAIN STREAM at Sta. 125+00														
H 42D	12/21												31.0	22
														10
														210P
RIO HONDO above split at Sta. 125+00														
H 42E	12/21												7.48	22
														6
														250P
RIO HONDO at Arrow Highway														
H 43	2/19												115.8	40
H 44	4/17												152.1	44
														420P 510P 1137A 130P FC 21
RIO HONDO at Sta. 140+00														
H 45	12/27						39.0	22.25	2.62				85.2	59
														10
														955A 1015A
RIO HONDO at Sta. 142+00, 500' above Arrow Highway														
H 46	12/18						21.0	15.12	1.41				21.2	9
														10
														1002A 1022A
RIO HONDO at Sta. 142														
H 47	12/18						21.0	15.34	1.34				17.9	9
														8
														240P 252P

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percolation measurements ~~206~~ in RIO HONDO DRAINAGE AREA at miscellaneous points during the year ending September 30, 19 35

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percolation measurements ~~206~~ in RIO HONDO DRAINAGE AREA at miscellaneous points during the year ending September 30, 19 35

Table with columns: No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height feet, Discharge Sec.-ft., Set gage No., Method, C. H. change Total, Begin time, Meter No., No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height feet, Discharge Sec.-ft., Set gage No., Method, Meter No., No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height feet, Discharge Sec.-ft., Set gage No., Method, Meter No., No., Date, Made by, Width Feet, Area of Section Sq. Ft., Mean velocity ft. per sec., Stage Height feet, Discharge Sec.-ft., Set gage No., Method, Meter No.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percolation measurements ~~XX~~ in RIO HONDO DRAINAGE AREA at miscellaneous points during the year ending September 30, 1935

Percolation measurements ~~XX~~ in RIO HONDO DRAINAGE AREA at miscellaneous points during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gage height, Discharge, etc. Rows include measurements at Peck Road (220+00) and various points above Peck Road.

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Gage height, Discharge, etc. Rows include measurements at Valley Blvd. and various points above Valley Blvd.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percolation measurements in RIO HONDO DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Crest height, Discharge, Set Back, Method, Mass, G. H., Begin, Meter. Rows include measurements at Whittier Blvd. and Mines Ave.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percolation measurements in RIO HONDO DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Crest height, Discharge, Set Back, Method, Mass, G. H., Begin, Meter. Rows include measurements at Mines Ave., Montebello Storm Drain, and Telegraph Road.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percolation measurements in SAN ANTONIO DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Crest height, Discharge, Set Back, Method, Mass, G. H., Begin, Meter. Rows include measurements at SAN ANTONIO MAIN WASH, SAN ANTONIO CREEK, and SAN ANTONIO SPREADING AREA.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percolation measurements in SAN DIMAS CREEK

at miscellaneous points during the year ending September 30, 1935

Table with columns: No., Date, Made by, Width, Area of Section, Mean velocity, Crest height, Discharge, Set Back, Method, Mass, G. H., Begin, Meter. Rows include measurements at SAN DIMAS CREEK 100 ft. below U.S.G.S. Station, Puddingstone Diversion Dam, and various points along the creek.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. _____

Percolation
Measurements in SAN GABRIEL DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

Percolation measurements in SAN GABRIEL DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1935

No.	Date	Made by	Width Feet	Area of Section Sq. Ft.	Mean velocity ft. per sec.	Gage height feet	Discharge Sec.-ft.	Set down ft.	Meas. No.	G. H. change Total	Begin Date	Meas. No.	Set down ft.	Begin Date
SAN GABRIEL RIVER at split 1000 ft. above Arrow Highway														
G 26	12/19		27.0	13.83	1.73		24.0	8				7		945A
G 27	12/19		28.0	14.80	1.65		24.4	8				12		146E 830A 840A 1230E
G 28	12/19		2 channels				27.2	11				11		840A 1230E
G 29	12/19		"	"	"		27.0	15				10		1242E
G 30	12/19		"	"	"		26.1	15				10		440E
G 31	12/25		"	"	"		46.5	24				12		830A
G 32	12/25		"	"	"		46.1	27				11		1216E
G 33	12/25		"	"	"		46.5	27				11		420E
SAN GABRIEL RIVER in vicinity of Arrow Highway														
G 34	3/19	Hofmann	4 channels				1.55	115.3	40	.6	24	-		324E 415E 1005A
G 35	4/17		"	"	"		1.51	114.5	44		30	-		1105A FC 21
SAN GABRIEL RIVER at N. W. Line														
G 36	12/18		14.0	12.94	1.62		20.9	8				7		1030A
G 37	12/19		16.0	15.00	1.60		24.0	11				8		945A 150E 200E
G 38	12/19		16.0	15.00	1.58		23.7	15				8		945A
G 39	12/26		15.0	20.08	2.09		41.9	24				7		130E
G 40	12/26		15.0	19.85	2.15		42.6	27				7		130E
SAN GABRIEL RIVER at Sta. 391+00														
G 41	12/20		24.0	16.06	1.22		19.5	18				8		100E
G 42	12/21		27.5	18.39	1.42		26.1	22				10		1040A
SAN GABRIEL RIVER at Sta. 102+00														
G 9	10/23		27.0	18.19	2.13		35.7	3				7		1205E 1211E 400E 415E
G 10	10/23		24.5	18.68	2.22		41.6	1				6		128E 134E
SAN GABRIEL RIVER above P. E. Bridge (153+00)														
G 11	10/22		22.0	17.15	1.83		31.4	1				7		515E 525E 110E 118E
G 12	10/23		22.0	17.16	1.76		30.2	3				6		110E 118E
G 13	12/18		37.0	40.08	1.22		48.9	7				11		950A
G 14	12/19		42.0	45.70	1.64		75.0	13				13		950A
G 15	12/20		70.0	40.09	1.67		66.8	19				13		1230E
G 16	12/21		71.0	49.58	1.82		90.5	21				14		1035A
G 17	12/19		37.0	40.08	1.22		48.9	7				11		950A
G 18	12/19		42.0	45.70	1.64		75.0	13				13		950A
G 19	12/20		70.0	40.09	1.67		66.8	19				13		1230E
G 20	12/21		71.0	49.58	1.82		90.5	21				14		1035A
G 21	12/19		37.0	40.08	1.22		48.9	7				11		950A
G 22	12/19		42.0	45.70	1.64		75.0	13				13		950A
G 23	12/20		70.0	40.09	1.67		66.8	19				13		1230E
G 24	12/21		71.0	49.58	1.82		90.5	21				14		1035A
G 25	12/19		37.0	40.08	1.22		48.9	7				11		950A
G 26	12/19		42.0	45.70	1.64		75.0	13				13		950A
G 27	12/20		70.0	40.09	1.67		66.8	19				13		1230E
G 28	12/21		71.0	49.58	1.82		90.5	21				14		1035A
SAN GABRIEL RIVER 100' below S.F.R.R. (210+00)														
G 17	12/25		10.0	3.55	.81		2.88	25				7		1040A FC 21
G 18	12/27		10.0	3.42	.75		2.55	30				6		1200E
SAN GABRIEL RIVER at R.R. Bridge (209+00)														
G 19	12/27		6.2	.95	.95		.90	31				5		310E 320E
G 20	4/16	Bonadiman	29.0	14.84	1.56		.80	23.1	43			16	0	815A 825A 905A
G 21	4/16	"	29.5	14.85	1.46		.80	21.6	43			16	-.01	925A 1210E
G 22	4/16	"	30.0	14.09	1.33		.78	18.8	43			15	0	1227E
G 23	4/16	"	30.0	14.08	1.30		.76	18.4	43			15	-.01	140E 300E 300E
G 24	4/16	"	30.0	12.96	1.19		.76	15.4	43			15	-.01	327E 425E
G 25	4/16	"	29.5	11.75	1.25		.74	14.7	43			12	0	440E
G 26	8/19		38.0	29.92	2.34		0.38	69.9	37			10	0	455E 505E 530E
G 27	8/19		38.0	29.76	2.44		0.38	72.7	37			10	+.01	545E
G 28	8/19		42.5	39.21	2.62		0.42	102.8	40			13	-.01	720A 746A
G 29	8/19		42.5	40.04	2.49		0.42	99.8	40			13	0	810A 829A 845A
G 30	8/19		42.5	38.88	2.53		0.42	98.3	40			13	0	907A 920A
G 31	8/19		42.5	39.57	2.58		0.42	102.2	40			14	+.01	951A

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT HYDRAULIC DEPARTMENT

Station No. _____

Percollation measurements in SAN GABRIEL DRAINAGE AREA

Percollation measurements in SAN GABRIEL DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1955

at miscellaneous points during the year ending September 30, 1955

Table with columns: No., Date, Made by, Width, Area, Mean velocity, Gate height, Discharge, Manning's n, Slope, G. Ht. change, Begin time, Meter No., No., Date, Made by, Width, Area, Mean velocity, Gate height, Discharge, Manning's n, Slope, G. Ht. change, End time, Meter No. Rows include measurements for SAN GABRIEL RIVER at various locations like Lower Arroyo Road, Valley Blvd, Sta. 565+00, Elliot Ave, Durfee Road, Standifer Heading, and Garvey Ave.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. _____

Percolation

measurements in SAN GABRIEL DRAINAGE AREA

at miscellaneous points during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq.-ft.	Mean velocity ft. per sec.	Stage Height Feet	Discharge Sec.-ft.	Rating Curve No.	Method	Mass No.	C. H. change Total	Begin Time M.P.	End Time M.P.	Meter No.
SAN GABRIEL RIVER at Santa Heading														
G 147	10/22		24.0	12.40	1.42		17.6	2		18		255P 205P		
SAN GABRIEL RIVER vicinity of Beverly Blvd.														
G 148	10/22		2	channel		12.6	2			13		230P 240P		
G 149	12/27		39.0	9.97	1.18		11.8	31		11		1110A 1137A		
G 150	2/26		2	channel		19.8	47			16		1157A 1245P		
G 151	2/26		27.0	14.92	1.47		21.9	47		12		100P 400P		
G 152	2/26		29.0	15.72	1.22		20.1	47		12		416P 420P		
G 152	2/26		29.0	16.24	1.42		22.2	47		10		420P 710A		
G 154	4/16		57.0	24.60	1.94	1.28	67.0	43		15	+0.1	735A 810A		
G 155	4/16		57.0	23.12	1.95	1.30	64.6	43		16	+0.1	835A 950A		
G 156	4/16		57.0	21.80	1.92	1.30	61.0	43		14	0	1010A 1110A		
G 157	4/16		57.0	25.80	1.78	1.31	65.9	43		15	0	1135A 1210P		
G 158	4/16		57.0	22.82	1.83	1.32	60.1	43		15	0	1255P 215P		
G 159	4/16		57.0	22.72	1.82	1.32	61.6	43		14	0	235P 255P		
G 160	4/16		57.0	22.47	1.71	1.34	55.7	43		13	0	416P 525P		
G 161	4/16		57.0	22.82	1.74	1.32	50.3	43		13	0	546P		
SAN GABRIEL RIVER at Dunlap Crossing														
G 162	10/22					0		2				415P 200P		
G 163	12/27		18.5	4.14	.96	3.96	31			7		212P 731A		
G 164	2/26		13.0	3.24	.98	0.74	3.27	47		7	0	745A 844A		
G 166	2/26		10.0	3.40	1.17	0.73	3.98	47		5	0	852A 957A		
G 166	2/26		10.0	3.16	1.24	0.73	3.93	47		5	-	1003A 1057A		
G 167	2/26		10.0	3.08	1.18	0.72	3.63	47		5	-	1102A 1187A		
G 168	2/26		10.0	3.08	1.11	0.70	3.43	47		5	-	1203P 1257P		
G 169	2/26		10.0	3.00	1.05	0.68	3.15	47		5	-	102P 157P		
G 170	2/26		10.0	2.60	.84	0.66	2.19	47		5	-	203P 257P		
G 171	2/26		10.0	2.52	.77	0.65	1.93	47		5	-	205P 357P		
G 172	2/26		10.0	2.24	.78	-	1.74	47		5		403P 457P		
G 173	2/26		10.0	2.14	.72	0.64	1.53	47		5	-	503P 1006A		
G 174	4/16		35.5	21.09	2.02	-0.54	42.5	43		13		1027A		
SAN GABRIEL RIVER 500 ft. below Dunlap Crossing														
G 175	4/16	Bonadiman	38.5	20.79	1.88	-0.51	39.2	43		14	+0.1	1055A 1140A		
G 176	4/16		38.5	20.37	1.87	-0.53	36.1	43		14	-0.2	347P 405P		
SAN GABRIEL RIVER at Center St.														
G 177	12/27	Luce & Luce	7.5	2.61	1.15		3.02	31		8		240P 245P	FO 13	
G 178	2/26					0		47				700A		

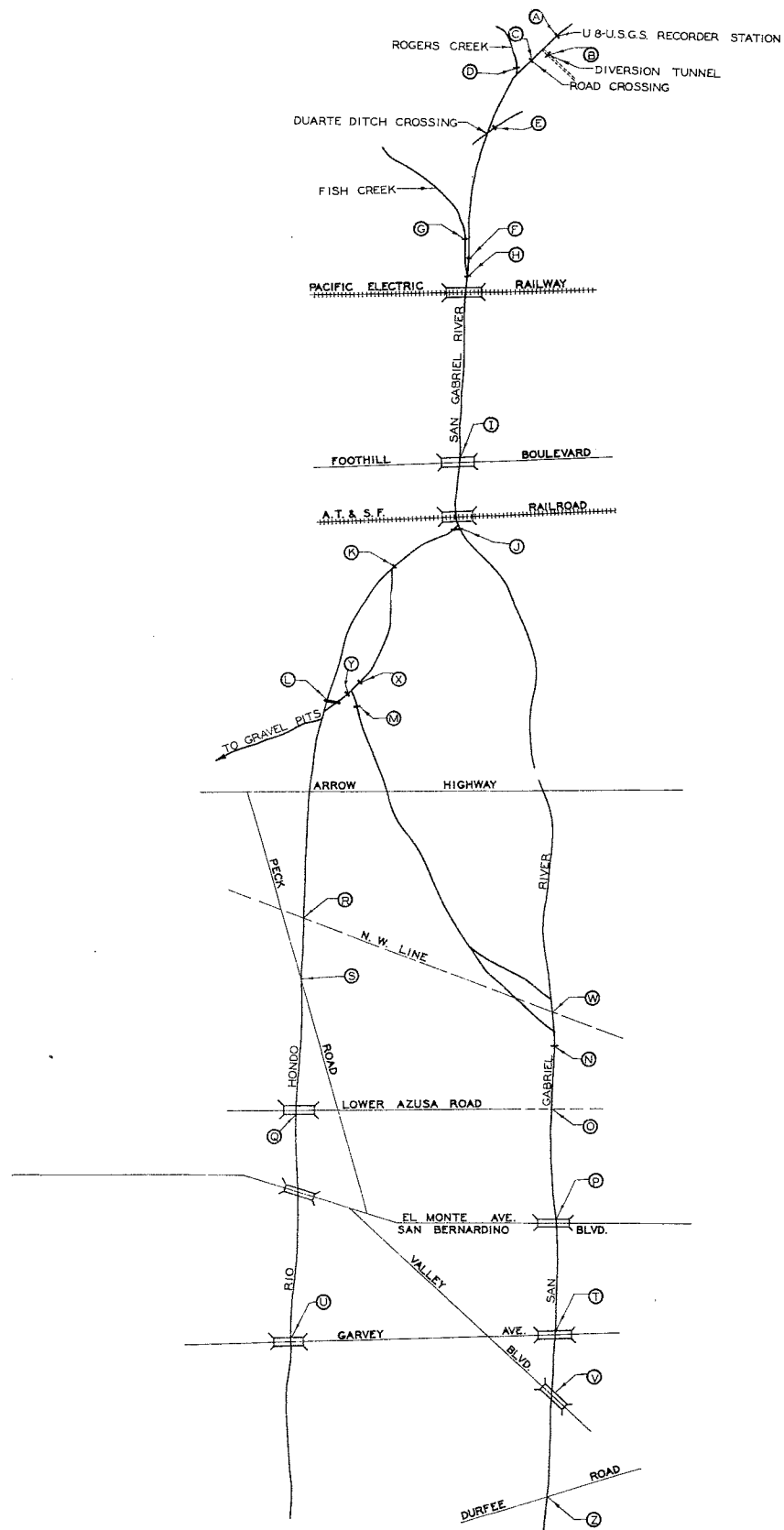
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Station No. _____

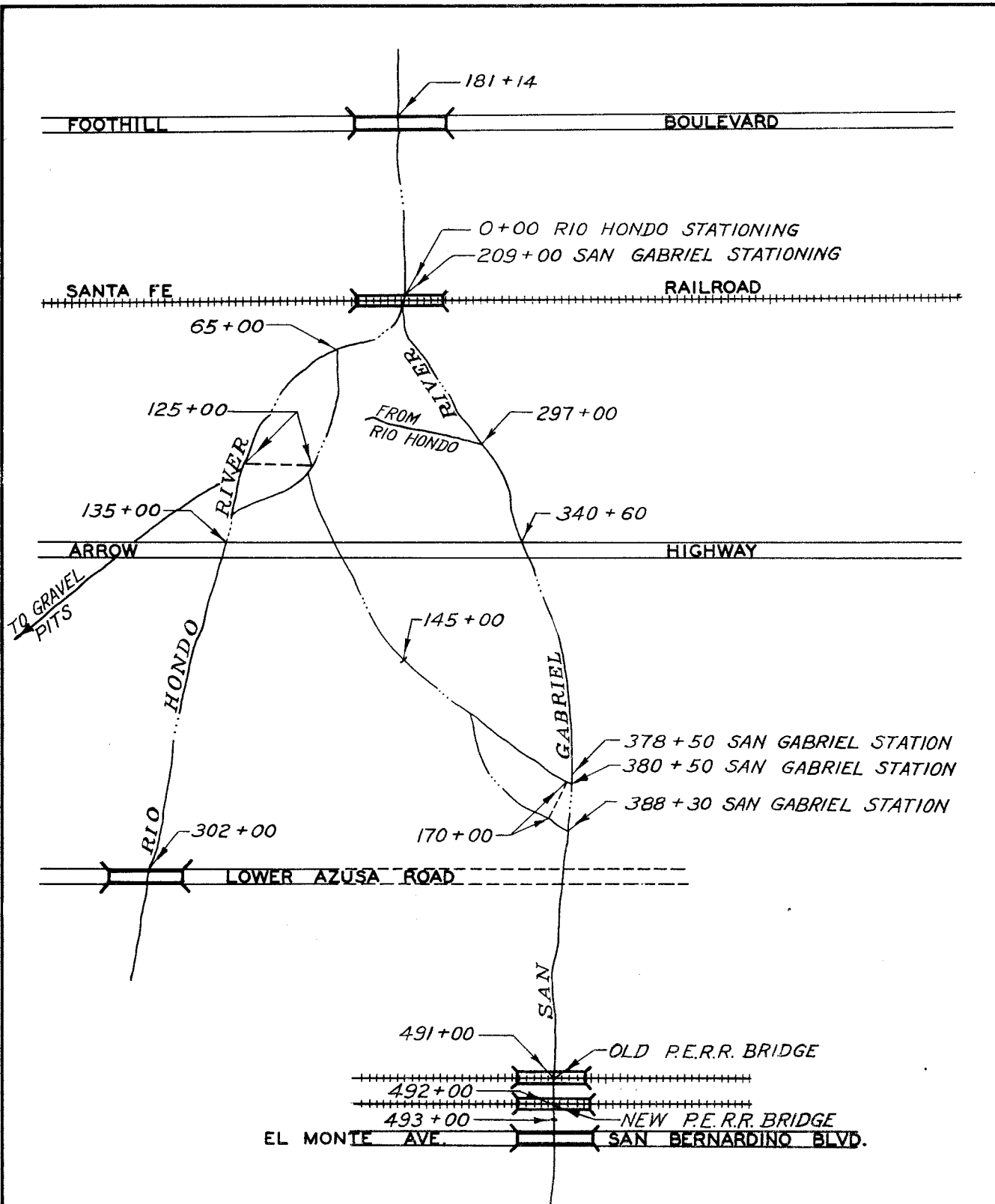
Percolation measurements of SANTA ANITA WASH

at various points during the year ending September 30, 1936

No.	Date	Made by	Width Feet	Area of Section Sq.-ft.	Mean velocity ft. per sec.	Stage Height Feet	Discharge Sec.-ft.	Rating Curve No.	Method	Mass No.	C. H. Change Total	Begin Time M.P.	End Time M.P.	Meter No.
155 ft. above north end of improved channel, Sta. 121+85														
N 1	2/25	Lindsay	18.0	8.17	2.16		15.			9				950A 1000A FO 28
50 ft. above Foothill Blvd. Sta. 148+00														
N 2	2/25	Lindsay	11.8	7.49	2.30		17.			7				1050A 1100A FO 28
140 ft. above Colorado Blvd. Sta. 167+50														
N 3	2/25	Lindsay	16.0	5.30	2.77		15.			9				1145A 1155A FO 28
286 ft. below north side of Huntington Dr. Bridge, Sta. 194+90														
N 4	2/25	Lindsay	14.5	2.96	2.12		6.3			9				1250P 100P FO 28
165 ft. below Duarte Road, Sta. 230+90														
N 5	2/25	Lindsay	9.5	1.01	1.21		1.2			6				210P 220P FO 28
250 ft. below Walnut Avenue, Sta. 267+90														
N 6	2/25	Lindsay					0							300P
155 ft. above north end of improved channel, Sta. 121+85														
N 7	2/25	Lindsay	17.7	8.78	1.99		17.			9				330P 340P FO 28



SKETCH OF
 RIO HONDO & SAN GABRIEL RIVER
 SHOWING LETTERED POINTS REFERRED TO IN 1934-35 PERCOLATION SETS



SKETCH OF
 RIO HONDO & SAN GABRIEL RIVER
 SHOWING STATIONING REFERRED TO IN 1934-35 PERCOLATION SETS

349

PERCOLATION MEASUREMENTS

SET NO. 4

October 24, 1934

BIG DALTON CREEK

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in per Ac. Wetted Area	Remarks
9:00A	Ben Lomond Ave.			L1	5.77	3400	24.0	1.87	1.60	.86	
9:45A	Citrus Ave.			L2	4.17	3000	15.6	1.07	1.16	1.08	
10:10A	Cerritos Ave.			L3	3.01	3000	17.5	1.21	1.34	1.11	
10:35A	Azusa Ave.			L4	1.67	6000	9.0	1.24	1.02	.82	
11:15A	Above Junction with Little Dalton.			L5	.65						
11:20A	Below Junction with Little Dalton			L6	3.97	7800	15.6	2.79	2.15	.77	
12:25P	Covina Blvd. - Baldwin Park			L7	1.82	11000	14.5	3.66	1.64	.45	
1:30P	Junction with Walnut Creek			L8	.18						

PERCOLATION MEASUREMENTS

SET NO. 2

February 19, 1936

LITTLE DALTON

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in per Ac. Wetted Area	Remarks
9:42A	Mouth of Canyon Recorder Sta. F65R			F1	3.19				.46		
10:45A	Lorraine Ave.			F2	2.73				1.80		
11:55A	Ben Lomond Ave. 500 ft. above Azusa Avenue			F3	.93				0		

PERCOLATION MEASUREMENTS

SET NO. 4

February 25, 1936

LITTLE DALTON

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in per Ac. Wetted Area	Remarks
9:48A	Mouth of Canyon Recorder Sta. F65R			F3	4.39				.55		
10:35A	Lorraine Ave.			F4	3.84				1.91		
11:35A	Grand Ave.			F5	1.93				1.27		
12:55A	Azusa Ave			F6	.66				.28		
2:10P	Vincent Ave. Junction with Big Dalton			F6	.38						

PERCOLATION MEASUREMENTS

SET NO. 41

April 10, 1936

BIG DALTON CREEK

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in per Ac. Wetted Area	Remarks
3:00P	Foothill Blvd.			L9	.69	5300	3.7	.45	.69	1.53	
4:30P	End of percolation 5300 ft. below Foothill Blvd.				0						

RIISING WATER

PERCOLATION MEASUREMENTS

SET NO. 45

July 31, 1936

LOS ANGELES RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in per Ac. Wetted Area	Gain per Mile	Remarks
10:40A	Van Nuys Blvd. Br. Rec. Sta. F24R			F3	.67	2.84			.66		.28	
11:15A	300' above Whitsett St. Bridge			A1	1.33	1.34			1.71		1.28	
11:40A	150' below Colfax Ave.			A2	3.04	1.08			.03		.027	
1:06P	Vineyard Ave. Br. Rec. Sta. F124R			F6	3.07	.61			1.90		3.11	
1:46P	Lankershim Blvd. Bridge			A3	4.97							
2:00P	E. Branch E. Tuj. Wash 25' above Junc. with L.A. Riv. at Lankershim Blvd			F1	.97							
					5.94*	1.18			2.55		2.16	
2:25P	400' above Dark Canyon Road			A4	8.49	.50			2.37		4.74	
3:00P	Opposite Calif. St. near old L.A. 1 st Staff Co. Sta. L.A. Riv.			A5	10.86	1.00			4.20		4.20	
3:30P	1 mi. below Buena Vista St.			40	15.06							

* Combined total.

PERCOLATION MEASUREMENTS

SET NO. 1

February 18, 1936

DALTON WASH

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in per Ac. Wetted Area	Remarks
2:31P	200 ft. below Foothill Blvd.			E1	13.80				.55		Muddy water
2:50P	75 ft. below San Pasqual			E2	13.25				gain .82		Muddy water
3:05P	50 ft. above Huntington Drive			E3	15.07				3.35		" "
3:25P	S. P. R.R. Bridge			E4	11.69				.96		" "
3:42P	75 ft. above Duarte Road			E5	10.73				1.28		" "
4:00P	Longdon			E6	9.45				4.01		" "
4:13P	Las Tunas			E7	5.44				1.11		" "
4:26P	Rosemead Avenue			E8	4.33				2.03		" "
4:44P	Lower Azusa Road			E9	2.30				.39		" "
4:55P	50 ft. below Sunset Recorder Station F104R			24	1.91				gain .04		" "
5:12P	Valley			F10	1.95				gain .26		" "
5:24P	175 ft. below P. E. R. R.			F11	2.21						" "

PERCOLATION MEASUREMENTS

SET NO. 5
October 24, 1934

RIO HONDO

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
10:30A			59+00	886	21.58						Air, Ground & Water
10:55A			59+00		22.30						
			90+00		14.88	2800			-1.13		71° 74° 59°
9:45A	1st Channel		92+00		1.99						
9:20A	2nd "	East	92+00		.98						
9:40A	3rd "	to	92+00		5.43						
9:50A	4th "	West	92+00		21.17						
11:45A	Outflow to San Gab. M		126+00		12.65	4000			-2.56		78° 68°
			122+00		4.66						
			122+00		1.32						
			122+00		18.31						
	1st Channel West to 2nd "	East	122+00		4.66						
			122+00		1.32						
			122+00		5.98						
			169+00	871	1.67	2600			-4.51		
			186+50		0	1850			-1.67		

PERCOLATION MEASUREMENTS

SET NO. 12
December 19, 1934

RIO HONDO

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
8:35A	600' above Arrow Highway		142+00	848	39.92	4000	73.69	6.77	4.37	.64	43°
10:02A	Channel 1(E.) N.	R	182+00		4.05						47°
9:43A	" 2)to W.	R	182+00	892	26.21						47°
10:16A	" 3)W.)Line	R	182+00		5.29						49°
					25.55	3500	89.51	7.19	6.30	.89	53°
11:14A	Channel 1(N.)to Peak	S	217+00		26.80						54°
	" 2)S.) Rd.	S	217+00	8101	2.45						
					29.25	8000	56.62	10.40	11.01	1.06	
1:00P	300' above Lower Azusa Rd. Recorder Sta. F192R	Q	297+00	8	18.24						60°
	Lower Azusa Road		302+00		-						

PERCOLATION MEASUREMENTS

SET NO. 51
December 18, 1934

RIO HONDO

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
9:06A	500 ft. above Lower Azusa Road	Q	297+00	5A	5.87						
10:45A	Valley Blvd.		370+00	814	3.33	7300	25.9	4.35	2.54	0.54	
11:10A	P. R. Bridge		369+00	816	1.87	1900	16.8	0.73	1.46	2.0	
11:50A	500 ft. above Lower Azusa Road	Q	297+00	6B	4.23						

PERCOLATION MEASUREMENTS

SET NO. 52
December 19, 1934

RIO HONDO

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
8:47A	500 ft. above Lower Azusa Road	Q	297+00	7A	16.94						
9:56A	Valley Blvd.		370+00	7B	17.24	7300	38.8	6.50	0.30		
10:31A	500 ft. above Lower Azusa Road	Q	297+00	70	22.19						

PERCOLATION MEASUREMENTS

SET NO. 9
December 18, 1934

RIO HONDO

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
10:05A	600' above Arrow Highway		142+00	846	21.17	4000	58.06	5.53	5.20	.60	49°
11:25A	Channel 1(E.)N.	R	182+00		1.30						52°
11:00A	" 2)to W.	R	182+00	891	14.24						52°
11:40A	" 3)West)Line	R	182+00		2.43						54°
					17.37	2800	68.55	5.98	5.52	.59	
12:45P	Channel 1(N.)to Peak	S	220+00	8102	14.01						60°
12:35P	" 2)to Rd.	S	220+00		.07						60°
	" 3)So)	S	220+00		.37						
					14.45	7700	41.57	7.35	9.08	1.24	
2:00P	Lower Azusa Road Rec. Sta. F192R	Q	297+00	7	5.37						62°
2:40P	600' above Arrow Highway		142+00	847	17.86						60°

PERCOLATION MEASUREMENTS

SET NO. 53
December 19, 1934

RIO HONDO

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
1:06P	500 ft. above Lower Azusa Road	Q	297+00	8	18.24						
2:36P	R. R. Bridge		352+00		12.90	5500	46.1	5.43	5.34	0.92	
3:00P	Valley Blvd.		372+00		13.73	2000	28.9	1.33	-0.83		gain
3:15P	500 ft. above Lower Azusa Road	Q	297+00	60	17.09						

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PERCOLATION MEASUREMENTS

SET NO. 16

December 19, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
2:00P	Above Arrow Hwy.		142+00	H-49	37.38	4000	73.69	6.77	4.88	.72	
3:45P	Channel 1) No. 1) H. R		182+00	H-93	4.69						
	" 2) to W. R		182+00	H-93	24.08						
	" 3) So. Line R		182+00		3.72						
					32.50	5500	89.51	7.19	8.95	1.24	
4:50P	Channel 1) No. 1) Peak (to Rd. S		217+00	H-108	21.76						
	" 2) So. S		217+00		1.79						
					23.55	8000	66.68	10.40	7.55	.73	Discharge from Station Rating
5:30P	300' above Lower Asusa Road		297+00		16.0						
	Lower Asusa Road		302+00		-						

PERCOLATION MEASUREMENTS

SET NO. 55

December 21, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
9:20A			142+00	H54	43.69						
10:12A	H.W. Line-Channel #2 R		182+00	H97	33.71						- 2.65 gain Channels numbered from East to West.
10:29A	" " " #3 R		182+00	H98	7.44						
10:44A	" " " #1 R		182+00	H99	5.19						
	Total at H.W. Line				46.34						
11:10A	Peak Rd. Channel #1 S		217+00	H106	33.83						9.08 Channels numbered from North to South.
11:24A	" " " #2 S		217+00	H107	3.43						
	Total at Peak Rd.				37.26						
11:52A	Above Lower Asusa Road		297+00	12	25.23						12.03
12:27P	Valley Blvd.		-----	H146	22.43						2.80
11:17P	Garvey Ave.		-----	H166	10.75						11.68

PERCOLATION MEASUREMENTS

SET NO. 54

December 20, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
8:37A			142+00	H50	29.90						
9:30A			142+00	H51	33.54						
10:00A			142+00	H52	27.80						
	Mean Discharge				30.35						
10:45A	H.W. Line-Channel #2 R		182+00	H94	24.30						- 2.01 gain Channels numbered from East to West.
11:02A	" " " #1 R		182+00	H95	3.65						
11:20A	" " " #3 R		182+00	H96	4.41						
	Total at H.W. Line				32.36						
11:52A	Peak Rd. Channel #1 S		217+00	H104	27.50						3.26 Channels numbered from North to South.
12:07P	" " " #2 S		217+00	H105	1.60						
	Total at Peak Road				29.10						
12:32P	Lower Asusa Road		297+00	11	16.99						12.11
1:06P	Valley Blvd.		-----	H145	11.04						5.91
1:50P	200 Ft. below Garvey Ave.		-----	H154	3.84						7.20

PERCOLATION MEASUREMENTS

SET NO. 23

December 21, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
1:50P			142+00	H 55	46.91						62°
2:56P	Recorder Sta. Rio Hondo at Lower Asusa Road		297+00	13	28.65						23.26 66°
3:26P	Below Garvey Ave.		-----	H167	7.42						67°

PERCOLATION MEASUREMENTS

SET NO. 25

December 26, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
9:16A	Channel 1) East		142+00	H56	100.01						
9:40A	" " 2) to				1.44						
9:52A	" " 3) West				1.94						
10:04A	Flow to Gravel Pits					4000	89.75	8.24	19.45	2.36	Flow to gravel pits not included in total.
	Total				103.39						
11:10A	Chan. 1) East) North R		182+00	H-100	15.22						
	" 2) to West R		182+00		57.73						
	" 3) West) Line R		182+00		12.93						
	Total				85.88						
12:27P	Branch 1) North to S		H-106		59.20	3500	113.18	9.09	13.28	1.46	
12:50P	" 2) South S				11.46						
	Peak Road. Total S		217+00		70.66						
2:16P	Lower Asusa Road		297+00	17	40.07						8000 91.63 16.81 30.69 1.82
2:02P	Channel 1) East		142+00	H-57	84.20						
	" 2) to				1.28						
	" 3) West				1.88						
	Flow to Gravel Pits			H-58							

PERCOLATION MEASUREMENTS

SET NO. 20

December 20, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
2:19P			142+00	H-53	55.39						60°
3:00P	Rec. Sta. Rio Hondo at Lower Asusa Rd.		297+00	10	11.06						64°
3:50P	200' below Garvey Avenue		-----	H166	2.55						62°

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PERCOLATION MEASUREMENTS

SET NO. 57
December 26, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in per Ac. Wetted Area	Remarks
10:55A	500 ft. above Lower Azusa Road	Q	297+00	15	36.75				6.20		
11:55A	500 ft. above P. E. Bridge		352+00	H16	44.95	5500	50.9	6.42	0.75		
12:40P	Valley Blvd.		372+00	H14	45.70	2000	46.5	2.13			
1:35P	500 ft. above Lower Azusa Road	Q	297+00	16	43.85						

PERCOLATION MEASUREMENTS

SET NO. 56
December 26, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in per Ac. Wetted Area	Remarks
4:30P	500 ft. above Lower Azusa Road	Q	297+00	14	36.21				5.35		
4:55P	Valley Blvd.		-----	H14	30.83						

PERCOLATION MEASUREMENTS

SET NO. 59
December 27, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in per Ac. Wetted Area	Remarks
9:35A	Inflow from East		142+00	H-9	13.39						
10:05A	Channel #1		140+00	H45	8.20						
10:22A	Channel #2		142+00	H50	1.47						
10:36A	Channel #3		142+00	H51	2.40						
10:48A	Channel #4		142+00	H52	4.37						
	Total at Sta. 142+00				162.46				56.63		Channels are numbered from East to West. To gravel pits
11:22A	500 ft. above Lower Azusa Road	Q	297+00	18	45.83				1.72		gain
1:10P	Valley Blvd. Ch. #1		-----	H19	46.30						Channels numbered from East to West.
1:22P	" " Ch. #2		-----	H19	1.25						
	Total at Valley Blvd.				47.55				8.19		
1:59P	Garvey Ave.	U	-----	H16	39.36						

PERCOLATION MEASUREMENTS

SET NO. 58
December 27, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in per Ac. Wetted Area	Remarks
2:25P	Lower Azusa Road	Q	297+00	19	36.36				1.19		
3:22P	Valley Blvd.		-----	H50	35.19						

PERCOLATION MEASUREMENTS

Set No. 35
January 31, 1935

RIO HONDO

Accumulated run-off at following points:

800 ft. above Peak Road
500 ft. above Lower Azusa Road

Meas. No.	Station	Temperature Fahrenheit			Time	Gage Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acres Ft.	Accumulated Acre Feet	Remarks
		Time	Water	Air							
H 109	800 ft. above Peak Road	10:30A	55°		10:37A	0.69+	60.89	59.42	7.53	7.53	
H 110		10:45A	56°		12:09P	0.69	57.96	53.24	9.09	16.62	
H 111		12:00N	61°		2:13P	0.65+	46.53	48.10	6.49	23.11	
H 112		12:20P	63°		3:51P	0.64	47.68				
	500 ft. above Lower Azusa Road	2:05P	67½°								
		2:23P	68½°								
		3:43P	66°								
		4:00P	66°								
		11:24A	60°		11:22A	0.70	18.56	19.01	2.36	2.36	
		12:53P	67°		12:52P	0.71	19.47	16.16	2.47	4.83	
		2:44P	70½°		2:43P	0.68	12.86	14.16	2.12	6.95	
		4:30P	67½°		4:32P	0.64	15.44				
		NOTE: - No areas were taken. Channel had been plowed Jan. 29-30, 1935.									

PERCOLATION MEASUREMENTS

Set No. 36
February 1, 1935

RIO HONDO

Accumulated run-off at following points:

945 ft. above Peak Road
500 ft. above Lower Azusa Road

Meas. No.	Station	Temperature Fahrenheit			Time	Gage Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acres Ft.	Accumulated Acre Feet	Remarks	
		Time	Water	Air								
H 113	945 ft. above Peak Road	7:32A	46°	49°	7:32A	0.69	66.8	62.8	6.02	5.02		
H 114		8:30A	48°	56°	8:30A	0.69+	58.7	51.9	4.01	9.03		
H 115		9:17A	51°	62°	9:17A	0.69+	55.1	60.6	3.67	12.70		
H 116		10:01A	54°	65°	10:01A	0.69	56.0	60.3	4.82	17.52		
H 117		10:59A	58°	74°	10:59A	0.69	64.6	61.4	4.90	22.42		
H 118		11:57A	63°	80°	11:57A	0.69	58.3	59.4	5.55	27.97		
H 119		1:05P	65°	86°	1:05P	0.69	60.6					
34 E			7:31A	45°		7:27A	0.73	26.8	29.8	1.77	1.77	
34 F			8:06A	45½°		8:10A	0.74	32.9	30.6	3.38	5.15	
34 G			8:55A	48°		9:14A	0.74	28.2	28.2	1.70	6.85	
34 H		500 ft. above Lower Azusa Road Recorder Sta. F192A	9:55A	52°		10:00A	0.76	28.1	27.8	1.91	8.76	
34 I	10:43A		56½°		10:50A	0.76+	27.4	22.8	1.98	10.74		
34 J	11:43A		62°		11:53A	0.75	18.2	21.0	2.28	13.02		
34 K	1:03P		67°		1:12P	0.73	22.7	21.7	1.58	14.60		
34 L		1:56P	69½°		2:05P	0.70	19.7	15.1	0.66	15.26		
34 M		2:33P	70°		2:37P	0.61	10.4	6.6	0.25	15.51		
34 N		3:02P	70½°		3:05P	0.45+	2.7					
		NOTE: - Channel has been plowed. No areas were taken - Water was being diverted into furrows.										

PERCOLATION MEASUREMENTS

RIO HONDO

Set No. 46

February 2, 1935

Accumulated run-off at following points:

1145 ft. above Peek Road
500 ft. above Lower Azusa Road
Valley Blvd. - Station 367+50

Meas. No.	Station	Temperature Fahrenheit			Time	Gage Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acres Ft.	Accumulated Acres Feet	Remarks
		Time	Wet	Air							
H 120	1145 ft. above Peek Road	7:31A	48°	54°	7:31A	0.70	66.56	66.69	3.31	3.31	
H 121		8:07A	48°	58°	8:07A	0.70	66.83	68.54	3.59	6.90	
H 122		8:45A	50°	64°	8:45A	0.69	70.25	71.18	4.12	11.02	
H 123		9:27A	51°	65°	9:27A	0.69	72.10	72.01	3.37	14.39	
H 124		10:01A	53°	67°	10:01A	0.69	71.92	71.43	3.15	17.54	
H 125		10:33A	55°	77°	10:33A	0.69	70.95	69.47	2.97	20.51	
H 126		11:04A	58°	80°	11:04A	0.68	68.00	68.05	3.47	23.98	
H 127		11:41A	62°	85°	11:41A	0.68	68.11	68.12	5.07	29.05	
H 128		12:35P	63°	86°	12:35P	0.68	69.05	68.13	5.35	34.40	
H 129		1:32P	63°	78°	1:32P	0.69	67.20	67.67	5.41	39.81	
H 130		2:30P	62°	78°	2:30P	0.68	68.14	67.53	5.39	45.20	
H 131		3:28P	60°	74°	3:28P	0.68	66.93	66.86	5.62	50.82	
H 132		4:29P	58°	70°	4:29P	0.68	66.79	67.38	4.36	55.16	
H 133	5:16P	57°	64°	5:16P	0.68	67.98					
35	500 ft. above Lower Azusa Road	7:22A	47°	-	7:25A	0.76	24.30	25.17	1.49	1.49	
36		8:03A	48°	-	8:09A	0.76	26.04	27.30	1.96	3.45	
37		8:52A	49°	-	9:01A	0.76	28.55	28.59	1.94	5.39	
38		9:50A	50°	-	9:56A	0.76	28.63	24.52	1.69	7.08	
39		10:40A	54°	-	10:46A	0.76	26.41	24.01	1.59	8.67	
40		11:27A	57°	-	11:34A	0.74	21.62	23.59	3.22	11.89	
41		1:07P	63°	-	1:13P	0.75	25.55	26.43	2.00	13.89	
42		2:00P	63°	-	2:06P	0.74	27.32	25.83	1.85	15.74	
43		2:50P	63°	-	3:00P	0.74	24.34	23.87	2.24	17.98	
44		3:55P	61°	-	4:06P	0.75	23.41	25.56	2.01	19.99	
45		5:00P	60°	-	5:05P	0.75	27.72				
H 142	Valley Blvd. Sta. 367+50	---	---	---	1:25P	1.00	21.17	21.26	0.64	0.64	
H 143		1:47P	63°	-	1:47P	1.01	21.34	20.42	1.94	2.58	
H 151		3:06P	63°	-	2:56P	1.05	19.51	20.20	1.31	3.89	
H 152		3:37P	63°	-	3:43P	1.01	20.90	20.54	1.53	5.42	
H 153		4:29P	61°	-	4:37P	1.01	20.19	20.28	1.68	7.10	
H 154		5:29P	59°	-	5:37P	1.00	20.38				
Note:		Area Rio Hondo from 1145 ft. above Peek Road to 500 ft. above Lower Azusa Road is 15.90 Ac. Area Rio Hondo from 500 ft. above Lower Azusa Road to Valley Blvd. Sta. 367+50 is 13.55 Ac. Total 29.45 Ac.									

PERCOLATION MEASUREMENTS

RIO HONDO

Set No. 50

February 11, 1935

Accumulated run-off at following points:

1145 ft. above Peek Road
Lower Azusa Road
Valley Blvd.

Meas. No.	Station	Temperature Fahrenheit			Time	Gage Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acres Ft.	Accumulated Acres Feet	Remarks	
		Time	Wet	Air								
H 134	1145 ft. above Peek Road	10:47A	56°	-	10:47A	1.11	157.74	160.39	11.71	11.71		
H 135		11:40A	58°	-	11:40A	1.11	163.03	158.78	12.46	24.17		
H 136		12:37P	59°	65°	12:37P	1.10	154.49	159.11	13.15	37.32		
H 137		1:37P	57°	-	1:37P	1.10	163.73	167.42	12.66	50.00		
H 138		2:32P	57°	-	2:32P	1.12	171.12	165.44	13.68	63.68		
H 139		3:32P	57°	63°	3:32P	1.12	159.85	164.73	13.61	77.29		
H 140		4:32P	55°	-	4:32P	1.11	169.61	163.49	12.84	90.13		
H 141		5:29P	54°	-	5:29P	1.14	157.36					
49		Lower Azusa Road	10:53A	57°	-	10:53A	0.40	112.48	111.16	7.28	7.28	
50			12:00N	60°	-	11:40A	0.40	109.84	106.56	13.21	20.49	
51	1:00P		60°	-	1:10P	0.39	103.28	106.02	8.49	28.98		
52	2:00P		60°	-	2:08P	0.38	108.77	106.65	10.30	38.88		
53	3:10P		60°	-	3:18P	0.40	104.53	107.42	13.32	52.20		
54	4:48P		58°	-	4:48P	0.37	110.32					
H 155	Valley Blvd.		11:47A	57°	-	11:33A	0.27	97.62	95.53	6.58	6.58	
H 156		12:10P	58°	-	11:23A	0.27	93.44	92.29	14.36	20.94		
H 157		1:16P	59°	-	1:16P	0.26	91.07	92.00	7.73	28.67		
H 158		2:17P	59°	-	2:17P	0.29	92.93	89.06	6.87	35.54		
H 159		3:13P	58°	-	3:13P	0.26	85.20	84.86	6.54	42.08		
H 160		4:09P	58°	-	4:09P	0.27	84.58					

Note: The area between 1145 ft. above Peek road and Lower Azusa Road is 19.34 Ac.
The area between Lower Azusa Road and Valley Blvd. is 15.15 Ac.

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PERCOLATION MEASUREMENTS

Set No. 46
February 13, 1935

RIO HONDO

Accumulated run-off at following points:
400 ft. above Beverly Blvd.
Mines Avenue
Santa Fe Railroad Bridge

Meas. No.	Station	Temperature Fahrenheit		Time	Page Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acre Ft.	Accumulated Acre Feet	Remarks
		Time	Wet Air							
H 169	400 ft. above Beverly Blvd.	8:30A	52° 54°	8:30A	0.82	46.84	46.60	3.96	3.96	
H 170		9:32A	54° -	9:32A	0.81	46.35	47.04	3.69	7.67	
H 171		10:29A	55° -	10:29A	0.80	47.73	49.11	4.06	11.73	
H 172		11:29A	56° 74°	11:29A	0.81	50.49	53.59	4.72	16.45	
H 173		12:33P	61° 74°	12:33P	0.84	56.70	56.94	4.39	20.84	
H 174		1:29P	63° 74°	1:29P	0.85	57.18	54.32	4.49	25.33	
H 175		2:29P	65° -	2:29P	0.84	51.45	51.11	4.22	29.55	
H 176		3:29P	65° 73°	3:29P	0.84	50.78	48.77	4.03	33.58	
H 177		4:29P	64° 68°	4:29P	0.82	46.76				
H 189		Mines Avenue	9:30A	52° -	9:30A	0.69	19.00	18.22	0.75	0.75
H 190	10:00A		53° -	10:00A	0.68	17.45	15.43	0.96	1.71	
H 191	10:40A		57° -	10:40A	0.64	13.42	14.25	1.02	2.73	
H 192	11:29A		59° -	11:37A	0.65	15.08	16.20	1.29	4.02	
H 193	12:30P		61° -	12:35P	0.67	17.33	19.47	0.96	4.98	
H 194	1:08P		62° -	1:11P	0.70	21.62	20.64	0.82	5.80	
H 195	1:33P		65° -	1:40P	0.71	19.66	19.54	1.48	7.28	
H 196	2:30P		65° -	2:35P	0.69	19.42	17.74	1.47	8.75	
H 197	3:30P		67° -	3:36P	0.68	16.07	14.88	1.06	9.81	
H 198	4:22P		65° -	4:28P	0.66	13.65	14.42	0.73	10.54	
H 199	5:00P	63° -	5:05P	0.65	15.15					
H 3	Santa Fe Railroad Bridge	8:21A	47° -	8:21A	0.18	6.15	5.45	0.37	0.37	
H 4		9:10A	50° 54°	9:10A	0.15	4.75	4.17	0.16	0.53	
H 5		9:37A	52° 56°	9:37A	0.13	3.59	2.86	0.14	0.67	
H 6		10:14A	55° 58°	10:14A	0.09	2.13	1.60	0.09	0.76	
H 7		10:55A	57° 59°	10:55A	0.05	1.08	0.80	0.04	0.80	
H 8		11:30A	59° 59°	11:30A		0.53	0.40	0.02	0.82	
H 9		11:58A	60° 60°	11:58A	-0.04	0.26	0.19	0.01	0.83	
H 10		---	---	12:20P	---	0.12	0.06	0	0.83	
H 11		---	---	12:30P	---	0	0	0	0.83	
H 11		---	---	2:58P	---	0	0	0.03	0.86	
H 12		3:30P	66° 62°	3:30P	0.10	1.24	0.96	0.07	0.93	
H 13		4:21P	64° 56°	4:21P	0.09	0.68	0.55	0.03	0.96	
H 14		4:57P	62° 54°	4:57P	0.07	0.42	0.36	0.02	0.98	
H 15		5:28P	60° -	5:28P	0.04	0.30	0.17	0.01	0.99	
H 16		5:58P	58° -	5:58P	-0.02	0.04				

Note: Area measurements for this set were taken between 8:00AM and 1:10PM.
Area Rio Hondo from 400 ft. above Beverly Blvd. to Mines Avenue is 11.12 Ac.
Area Rio Hondo from Mines Avenue to Santa Fe Railroad Bridge is 6.28 Ac.
Total 17.40 Ac.

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PERCOLATION MEASUREMENTS

Set No. 42
April 15, 1935

RIO HONDO

Accumulated run-off at following points:

Rio Hondo 564 ft. above Whittier Blvd.
Rio Hondo 400' above Montebello Storm Drain
Rio Hondo at Telegraph Road.

Meas. No.	Station	Temperature Fahrenheit		Time	Page Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acre Ft.	Accumulated Acre Feet	Remarks
		Time	Wet Air							
H 179	Rio Hondo-564' above Whittier Blvd.	7:20A	57° 65°	7:27A	1.62	100.9	103.0	8.23	8.23	
H 180		8:16A	59° -	8:26A	1.60	106.1	101.8	7.97	16.20	
H 181		9:15A	61° -	9:22A	1.62	98.0	98.2	5.14	21.34	
H 182		10:50A	66° -	11:00A	1.64	98.4	107.7	11.13	32.47	
H 183		12:05A	72° -	12:16P	1.68	117.0	107.1	5.16	37.63	
H 184		12:40P	74° -	12:50P	1.68	97.3	96.3	9.96	47.58	
H 185		1:55P	77° -	2:05P	1.68	95.4	101.8	9.09	56.67	
H 186		3:00P	75° -	3:10P	1.66	107.7	111.2	9.95	66.62	
H 187		4:05P	75° -	4:15P	1.64	114.7	108.4	15.68	82.30	
H 188		5:50P	-	6:00P	1.63	102.2				
H 200	Rio Hondo-400' above Montebello Storm Drain			10:22A		71.2				These are Spot Measurements taken above Montebello Storm Drain and are not used in computations.
H 201				3:40P		79.5				
H 202	Rio Hondo at Telegraph Road	7:00A	68° -	7:13A	0.69	41.6	40.4	3.34	3.34	
H 203		8:02A	60° -	8:13A	0.66	39.2	34.4	2.76	6.09	
H 204		9:00A	63° -	9:11A	0.66	29.7	31.2	2.49	8.58	
H 205		9:57A	67° -	10:09A	0.65	32.7	31.6	2.70	11.28	
H 206		11:00A	70° -	11:11A	0.65	30.5	28.2	3.65	14.93	
H 207		12:30P	77° -	12:45P	0.66	25.9	28.4	2.42	17.35	
H 208		1:35P	80° -	1:47P	0.67	30.9	32.5	2.51	19.86	
H 209		2:30P	80° -	2:43P	0.70	34.1	34.4	2.75	22.61	
H 210		3:30P	78° -	3:41P	0.72	34.7	32.3	3.29	25.90	
H 211		4:55P	75° -	4:55P	0.70	29.9	32.3	1.78	27.68	
H 212	5:25P	72° -	5:35P	0.68	34.7					

NOTE: Length of reach 15,560 ft.
Area 37.5 acres.

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PERCOLATION MEASUREMENTS

SET NO. 59

SAN ANTONIO - MAIN WASH

March 5, 1936

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
12:00A	Main Wash below Upper Diversion			3 1	6.89	5600	11.9	1.58	1.68	1.10	
12:10P	Main Wash at Diversion #2			3 2	5.81	7000	13.0	2.09	3.60	1.72	
1:30P	Main Wash at Base Mine Ave.			3 5	1.61	4100	7.4	.70	1.61	2.50	
2:15P	End of Percolation Main wash 4100 ft. below Base Line.				.00						

PERCOLATION MEASUREMENTS

SET NO. 55

SAN DIMAS WASH

January 29, 1936

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
12:25P	1/2 mi. above Grand Ave.			0 3	11.04	7800	10.1	1.67	3.35	1.94	
1:15P	Citrus Ave. Inflow from pipe line = 0.25			0 4	7.71 7.96	6000	15.2	1.82	6.90	2.79	Part of Channel Flowed.
3:00P	Asuska Ave.			0 5	1.06	5400	5.1	.88	1.06	2.79	
4:00P	End of Percolation 5400 ft. below Asuska Ave.				.00						

PERCOLATION MEASUREMENTS

SET NO. 58

SAN ANTONIO SPRADING AREA

March 6, 1936

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
9:00A	Lateral "A1" at Heading			34	9.57	4500	9.2	.95	1.68	1.98	
10:05A	Lateral "A1" at W. A1 Heading			35	7.69	6000	20.6	2.84	7.69	2.71	
11:40A	End of Percolation				.00						
12:30P	Lateral "B1" at Heading			36	3.67	2700	27.1	1.68	3.67	2.18	
1:48P	End of Percolation Lateral "B1" 2700 ft. below Heading				.00						

PERCOLATION MEASUREMENTS

SET NO. 54

SAN DIMAS WASH

January 30, 1936

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
2:00P	100' below Fuddingstone Diversion D.			0 7	5.87	4100	15.2	1.43	5.91	2.73	
2:40P	Artesia Ave.			0 8	1.96	2900	6.8	.61	.40	.66	
3:05P	San Dimas Ave.			0 9	1.56	4500	6.3	.65	.91	1.40	
3:55P	Asuska Ave.			0 10	.65	4800	5.1	.56	.57	1.02	
4:10P	Gravel Pit			0 11	.08						

PERCOLATION MEASUREMENTS

SET NO. 52

SAN DIMAS WASH

January 29, 1936

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
8:30A	Mouth of San Dimas Canyon			0 1	11.95	4800	12.8	1.41	2.75	1.95	
9:45A	Above Lake at Fuddingstone Div. Dam 7.64			0 2	9.20						
	Loss to Gravel Pit 1.86			0 6							

PERCOLATION MEASUREMENTS

SET NO. 1
October 22, 1934

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
12:10P	U.S.G.S. Recorder Station US	A	0+00		121.21						
12:30P	Outflow to tunnel diversion	B	9+00	G1			80.7	3.71			Record incomplete
1:05P	Road Crossing	C	20+00	G2	52.44						
1:30P	Inflow from Rogers Creek	D	33+00	G6	No Inflow	3000	51.3	3.53	6.38	1.81	
2:15P	Point 1000' above where river leaves mts.		50+00	G5	46.06						
	Inflow-Duarte Ditch crossing	E	60+00		Est. 1.0	2550	64.6	3.78	3.46	0.92	
3:15P			75+50	G7	42.60						
						2650	51.9	3.16	1.05	0.33	
4:00P			102+00	G10	41.55						
						5100	68.6	8.03	10.15	1.26	
5:15P	200' above P.E.R.R. bridge	F	168+00	G11	31.40						

PERCOLATION MEASUREMENTS

SET NO. 3
October 22, 1934

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
9:40A	U.S.G.S. Recorder Station US	A	0+00		188.47						
	Outflow to tunnel diversion	B	9+00		79.22	2000	81.4	3.74	12.57	3.36	
9:30A	Road Crossing	C	20+00	G3	46.68						
	Inflow from Rogers Creek	D	33+00		No Inflow	3000	51.8	3.57	2.20	.62	
10:25A	Point 1000' above where river leaves mts.		50+00	G4	44.48						
						2550	59.3	3.47	2.65	.76	
11:20A			75+50	G8	41.83						
						2650	54.5	3.31	3.13	.95	
12:02P			102+00	G9	38.70						
						5100	70.2	8.22	8.65	1.04	
1:10P	200' above P.E.R.R. bridge		168+00	G12	30.15						
						3100	62.6	4.46	.81	.18	
2:00P	300' below Foot-hill Blvd. Recorder Sta. #190R.	I	184+00		5	29.34					Gain
3:00P	Santa Fe R.R.Br.	J	209+00	H1	29.37						
			0+00			4700	56.6	6.11	6.23	1.02	
4:00P	Rio Hondo		47+00	H19	23.14						
						4500	77.4	7.99	2.82	.35	
(5:16P	1st Channel) East		90+00								
(5:00P	2nd ") to		93+00	H27	14.74						
(5:10P	3rd ")		93+00								
(4:50P	4th ") West		92+00								
					2.52						
					20.32						

PERCOLATION MEASUREMENTS

SET NO. 2
October 22, 1934

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
2:30P	At Standifer Ditch Heading			G137	22.63	1400	Est. 40	Est. 1.29	4.99	Est. 3.87	
2:55P	At Santa Ditch Heading			G147	17.64	2200	Est. 30	Est. 1.52	5.06	Est. 3.33	
3:20P	450' North of Beverly Blvd.			G148	12.68	3900	Est. 30	Est. 2.69	8.97	Est. 3.34	
4:00P	150' North of Whittier Blvd. Recorder Sta. #68R			5A	3.61	4000	Est. 26	Est. 2.30	3.61	Est. 1.57	
4:15P	At Dunlap Crossing Road			G162	0						
	Note: Gage at Whittier Blvd.				2.86 at 1:50 PM						
					2.86 at 4:05 PM						

PERCOLATION MEASUREMENTS

SET NO. 6
October 24, 1934

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
11:45A	Rio Hondo	M	126+00	H-36	12.61	6800	31.4	4.90	-2.87	.59	Temp. Air 75° W. 68°
1:30P	San Gabriel R.	N	194+00	G-43	9.74	3200	37.9	2.78	-2.49	.90	" 77° 74°
2:00P	Lower Amasa Road	O	226+00	G-100	7.25	4700	34.7	3.74	-4.44	1.19	" 88° 75°
2:40P	El Monte Blvd. (Recorder Sta. #191R)	P	273+00		2.81	2400	16.6	.91	-2.81	3.09	
			297+00		0						

PERCOLATION MEASUREMENTS

SET NO. 8

December 18, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
9:45A	At Split-1000' above Arrow Highway	M	0+00	G-26	23.95	5000	28.2	3.24	3.04	.94	48°
10:50A	500' below N.W. Line	W	50+00	G-36	80.91	6000	32.4	4.46	1.79	.40	50°
11:50A	500' below Lower Azusa Road	O	110+00	G-101	19.18	4500	37.7	3.89	1.64	.42	53°
12:50P	El Monte Ave. Recorder Sta. F191R	P	165+00	8	17.48			11.59	6.47	Mean .59	56°
1:45P	At Split-1000' above Arrow Highway	M	0+00	G-27	24.38						58°

PERCOLATION MEASUREMENTS

SET NO. 14

December 19, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
11:05A	El Monte Ave. Recorder Sta. F191R	P	495+00	10	16.92	7000	26.7	4.29	13.53	3.15	54°
11:55A	Valley Blvd.	V	565+00	G-112	3.39						61°
12:27P	El Monte Blvd. Recorder Sta. F191R	P	495+00	12	16.67						59°

PERCOLATION MEASUREMENTS

SET NO. 10

December 18, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
12:35P	El Monte Ave. Recorder Sta. F191R	P	495+00	7	9.93	4400	23.16	2.34	4.94	2.11	56°
1:25P	Garvey Avenue	T	539+00	G108	4.99	2850	11.5	.75	3.02	4.03	58°
1:55P	Valley Blvd.	V	567+50	G112	1.97						57°
2:20P	El Monte Ave. Recorder Sta. F191R	P	495+00	9	10.92						55°

PERCOLATION MEASUREMENTS

SET NO. 15

December 19, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
12:30P	At Split-1000' above Arrow Hwy.	M	G-29	26.96	5000	32.4	3.72	-3.24	.871		55°
1:50P	N. W. Line	W	G-38	23.72	6000	34.0	4.68	-2.32	.60		58°
3:05P	Lower Azusa Road	O	G-105	21.39	4500	43.1	4.45	-2.08	.476		57°
3:50P	El Monte Ave. Recorder Sta. F191R	P	14	19.31							57°
4:40P	1000' above Arrow Highway	M	G-30	26.10							55°

PERCOLATION MEASUREMENTS

SET NO. 11

December 19, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
8:30A	At Split-1000' above Arrow Hwy.	M		G-28	27.22	5000	32.9	3.78	3.26	.862	44°
9:45A	500' below N.W. Line	W		G-37	23.96	6000	34.1	4.70	2.35	.600	46°
11:00A	500' below Lower Azusa Road	O		G102	21.61	4500	43.2	4.46	2.26	.51	52°
11:55A	El Monte Ave. Recorder Sta. F191R	P		11	19.35						54°
12:30P	At Split-1000' above Arrow Hwy.	M		G-29	26.96						55°

PERCOLATION MEASUREMENTS

SET NO. 17

December 19, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
3:47P	El Monte Ave. Recorder Sta. F191R	P	495+00	13	13.13	4000	30.5	2.8	9.66	3.45	57°
4:10P	Garvey Avenue	T	535+00	G109	3.47	3000	11.3	0.78	2.01	2.58	59°
4:30P	Valley Blvd.	V	565+00	G114	1.46						58°
4:45P	El Monte Ave. Recorder Sta. F191R	P	495+00	15	10.97						57°

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PERCOLATION MEASUREMENTS

SET NO. 18

December 20, 1954

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
0:30A	Rio Hondo	X	125+00	H-2A	27.10						
1:05A	Rio Hondo	Y	125+00	H-2A	6.55						
	Flow to San Gab. R. by subtraction X - Y	M			20.55						
1:00P	San Gab. Riv.		391+00	G-41	19.65				-0.92		
1:45P	Lower Anusa Road	O	449+00	G104	16.20				-3.25		
2:20P	El Monte Ave. Rec. Sta. F191R	F	495+00	17	17.70				+1.40		
3:00P	Garvey Avenue	T	539+00	G110	1.61				-15.89		
5:25P	Valley Blvd.	V	565+00	G115	0.34				-1.47		
3:40P	1900' below Valley Blvd.				0.00				-0.34		
4:45P	Rio Hondo	X	125+00	H-2B	27.17						
4:20P	Rio Hondo	Y	125+00	H-2B	8.08						

PERCOLATION MEASUREMENTS

SET NO. 19

December 20, 1954

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
11:00A	500' above Foothill Blvd. Rec. Sta. F190R	I		16	66.79						58°
12:30P	Santa Fe R.R. Br.	J	209+00	G-15	66.82				+0.02		58°
1:45P	Rio Hondo		55+00	H-24	75.88				+7.06		61°
3:10P	Channel 1) West		92+00		88.92				-5.64		60°
	" 2) to		92+00	H-21	4.18						59°
	" 3) East		92+00		6.72						59°
	" 4)		92+00		20.48						59°
	Total				70.24						
4:25P	Rio Hondo W. Channel	I	120+00	H-39	26.20				+5.91		60°
	Rio Hondo E. Channel	X	125+00		27.95						55°
	Total				74.15						
5:40P	500' below Foothill Blvd. - San Gab. R. Rec. Sta. F190R	I		17	91.71						58°

PERCOLATION MEASUREMENTS

SET NO. 21

December 21, 1954

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
9:15A	500' below Foothill Blvd. Rec. Sta. F190R	I	184+00	18	85.39						50°
10:35A	Santa Fe R.R. Br. Rio Hondo	J	209+00	G16	90.65				+5.14		52°
12:30P	Rio Hondo		55+00	H104	79.97				-10.56		58°
1:55P	Channel 1) West		92+00		28.25				-4.66		61°
2:15P	" 2) to		92+00	H41	3.68						62°
	" 3) East		92+00		5.52						62°
	" 4)		92+00		27.76						62°
	Total		92+00		75.29						
4:00P	Channel 1) West		120+00		1.20				11.22		62°
	" 2) to		120+00	H114	24.16						62°
	" 3) East	X	125+00		28.71						62°
	Total				54.07						
5:05P	500' below Foothill Blvd. Rec. Sta. F190R	I	184+00	19	81.65						54°

PERCOLATION MEASUREMENTS

SET NO. 24

December 25, 1954

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
8:20A	1000' above Arrow Highway		G-31		46.53						45°
9:45A	500' below N.W. Line		G-39		41.94	5000	28.5	4.42	4.59	1.04	44°
10:40A	500' below Lower Anusa Road	O	G-106		36.50	6000	28.6	5.31	3.64	0.68	52°
11:48A	El Monte Avenue Rec. Sta. F191R	P		19	32.47	4500	40.67	4.20	5.85	1.59	54°

PERCOLATION MEASUREMENTS

SET NO. 27

December 26, 1954

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
12:15P	Outflow to San Gab. R. approx. 1000' above Arrow Hwy.	M	0+00	G-32	46.10	5000	27.5	4.20	-3.50	.81	54°
1:20P	N. W. Line		50+00	G-40	42.60	6500	28.0	5.67	-4.98	.88	57°
2:20P	500' below Lower Anusa Road	O	115+00	G107	27.62	4000	29.5	3.62	-5.26	1.48	58°
3:20P	El Monte Ave. Rec. Sta. F191R	P	155+00	21	22.26						58°
4:20P	Outflow to San Gab. R. approx. 1000' above Arrow Highway	M	0+00	G-33	45.45						55°

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PERCOLATION MEASUREMENTS

SET NO. 28
December 26, 1954

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks	Temp.
2:00P	El Monte Ave. Recorder Sta. F191R	P	495+00	20	29.26	7000	42.6	6.85	25.65	3.78	60°	
3:30P			665+00	11	3.58						61°	
3:50P	El Monte Ave. Rec. Sta. F191R	P	495+00	22	31.95						58°	

PERCOLATION MEASUREMENTS

SET NO. 29
December 27, 1954

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks	Temp.
9:45A	San Gab. R. 500' below Foothill Rec. Sta. F190R	I	184+00	25	182.57							60°
11:15A	Rio Hondo 700' below S.F.R.R. at Split	J	0+00	118	170.98						Near Santa Fe Bridge	61°
12:00N	San Gab. 100' below Total	J	809+00		2.55							58°
11:15A	Rio Hondo 700' below Split		7+00	118	170.98							63°
1:20P	Rio Hondo		50+00	221	156.16							58°
2:20P	Rio Hondo Ch. 1 West		92+00		58.51							54°
	" " " 2 to		92+00		7.31							58°
	" " " 3 to		92+00		10.79							58°
	" " " 4 East		92+00		56.54							58°
	Total				137.75							
4:00P	" " #1 East	I	125+00		42.48							58°
4:10P	" " #2 to		130+00		70.81							58°
10:50A	" " #3 #4 West		142+00		6.77							
	Total				121.05							
5:45P	San Gab. R. 500' below Foothill Blvd. Rec. Sta. F190R	I	184+00	22	186.75							58°

PERCOLATION MEASUREMENTS

SET NO. 29
December 27, 1954

SAN GABRIEL RIVER

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks	Temp.
8:52A	Rio Hondo above Split.	X	125+00	235	61.28							49°
9:55A	Flow to Rio Hondo below Split.	L	125+00		13.29							50°
	Flow to San Gab. River (East branch San Gabriel River evidently dry.)	M	125+00		47.89							
11:55A	San Gabriel River 50' below El Monte Ave. Rec. Sta. F191R	P	495+00	23	30.95							55°
12:30P	San Gabriel River at Valley Blvd.	V	565+00	118	4.61							55°
2:37P	San Gabriel River at Durfee road Crossing.	Z		136	1.25							56°

PERCOLATION MEASUREMENTS

SET NO. 31
Dec. 27, 1954

SAN GABRIEL RIVER - From Standifer Heading to 2690' below A.T. & S.F.R.R. Bridge

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks	Temperature of Water
11:05A	Standifer Heading		0+00	135	32.48							61°
11:10A	500' below Beverly Blvd. Rec. Sta. F68R		48+65	145	11.79	4855	74.54	8.24	-20.69	2.48		62°
12:40P	500' below Whittier Blvd.		82+20	112	5.64	5400	28.65	2.25	- 1.68	.75		64°
2:00P	500' below Dunlap Crossing		117+20	165	3.96	5750	18.85	1.19	- .94	.79		64°
2:40P	Center Street Crossing		154+70	177	3.02	3770	16.76	1.45	- 2.12	1.45		62°
3:10P	A.T. & S.F.R.R. Crossing		192+40	19	.90	2690	12.0	.74	- .90	1.22		61°
4:50P	2690' below A.T. & S.F.R.R. Bridge		219+20		0							
4:50P	Standifer Heading				29.40				16.81	32.48	1.75	

Note: Recorder chart at Whittier Blvd. shows uniform flow from 8 am to 4 pm 12/27/54. Slight drop after 4 pm.

PERCOLATION MEASUREMENTS

Set No. 49

February 18, 1935

SAN GABRIEL RIVER

Accumulated run-off at following points:

1500 ft. above Lower Azusa Road
El Monte Ave. (San Bernardino Blvd.)
Elliot Ave.

Meas No.	Station	Temperature Fahrenheit			Time	Gage Ht.	Meas. Disch. Sec.Ft.	Mean S.F.	Acre Ft.	Accumulated Acre Feet	Remarks	
		Time	Water	Air								
G 44	1500 ft. above Lower Azusa Road	8:12A	49°	64°	8:12A	0.28	60.18	57.69	4.77	4.77		
G 45		9:12A	52°	-	9:12A	0.27	55.21	56.78	4.59	9.46		
G 46		10:12A	55°	78°	10:12A	0.27	58.35	56.16	4.64	14.10		
G 47		11:12A	59°	79°	11:12A	0.26	53.97	53.48	4.42	18.52		
G 48		12:12P	62½	81°	12:12P	0.26	52.99	55.68	4.60	23.12		
G 49		1:12P	65°	85°	1:12P	0.28	58.36	58.49	4.83	27.95		
G 50		2:12P	66°	-	2:12P	0.28	58.62	57.12	4.72	32.67		
G 51		3:12P	66°	-	3:12P	0.27	55.62	52.38	4.33	37.00		
G 52		4:12P	65°	-	4:12P	0.26	49.15	50.36	4.16	41.16		
G 53		5:12P	62½	80°	5:12P	0.26	51.57					
46		El Monte Ave. (San Bernardino Blvd.)	8:30A	51°	-	8:15A	2.33	34.54	35.16	2.76	2.76	
47			9:00A	50½	-	9:12A	2.34	35.77	33.87	2.80	5.56	2 channels Gage readings taken on the main channel.
48			10:00A	61½	-	10:12A	2.34	31.97	30.74	2.63	8.19	
49			11:04A	65°	-	11:14A	2.34	29.52				
50	12:03P		67½	-	12:16P	2.34	35.52	34.00	2.90	13.87		
51	1:10P		70°	-	1:18P	2.34	32.49	33.39	2.48	16.35		
52	2:00P		70°	-	2:12P	2.35	34.29	31.50	2.52	18.87		
53	3:00P		70°	-	3:10P	2.34	28.71	28.79	1.98	20.85		
54	4:00P		69°	-	4:00P	2.32	28.87	30.93	3.07	23.92		
55	5:00P		66°	-	5:12P	2.32	32.99					
G 125	Elliot Avenue	8:38A	50°	61°	8:38A	0.76	8.60	8.40	0.67	0.67		
G 126		9:36A	53°	65°	9:36A	0.76	8.21	7.68	0.59	1.26		
G 127		10:32A	62°	68°	10:32A	0.76	7.16	6.40	0.51	1.77		
G 128		11:30A	69°	68°	11:30A	0.74	5.64	5.40	0.42	2.19		
G 129		12:27P	74½	72°	12:27P	0.70	5.16	4.23	0.36	2.55		
G 130		1:29P	77½	74°	1:29P	0.62	3.30	2.82	0.22	2.77		
G 131		2:27P	78½	79°	2:27P	0.57	2.34	2.57	0.20	2.97		
G 132		3:25P	76°	-	3:25P	0.62	2.80	2.13	0.20	3.17		
G 133		4:32P	71°	-	4:32P	0.57	1.47	1.21	0.09	3.26		
G 134		5:27P	65°	-	5:27P	--	0.96	0.92	0.04	3.30		
G 135	5:57P	62½	-	5:57P	--	0.88						

Note: 1500 ft. above Lower Azusa Road to El Monte Ave. is 10.46 Ac.
El Monte Avenue to Elliot Avenue is 8.57 Ac.

PERCOLATION MEASUREMENTS

Set No. 47

February 26, 1935

SAN GABRIEL RIVER

Accumulated run-off at following points:

Standifer Heading
500 ft. above Beverly Blvd.
200 ft. above Beverly Blvd.
Whittier Blvd.
Dunlop Road Crossing

Meas No.	Station	Temperature Fahrenheit			Time	Gage Ht.	Meas. Disch. Sec.Ft.	Mean S.F.	Acre Ft.	Accumulated Acre Feet	Remarks	
		Time	Water	Air								
G 140	Standifer Heading	8:15A	57°	50°	8:02A	0.34	25.60	25.88	2.32	2.32		
G 141		9:07A	59°	-	9:07A	0.34	26.16	26.30	2.72	5.04		
G 142		10:35A	62½	-	10:22A	0.34	26.44	26.51	2.23	7.27		
G 143		11:35A	65°	-	11:23A	0.34	26.58	25.79	3.44	10.71		
G 144		1:10P	68°	-	1:00P	0.35	25.00	25.93	2.32	13.03		
G 145		2:10P	68°	-	2:05P	0.35	26.87	26.01	3.76	16.79		
G 146		4:05P	63°	-	3:50P	0.36	25.15					
G 152		500 ft. above Beverly Blvd.	4:16P	65°	-	4:08P	-	20.11	21.72	0.66	0.66	
G 153			4:20P	66°	-	4:30P	-	23.32				
G 150		200 ft. above Beverly Blvd.	11:52A	70°	-	11:44A	-	19.78	20.83	1.98	1.98	
G 151			1:00P	75°	-	12:53P	-	21.87				
46		Whittier Blvd.	8:03A	46°	-	8:07A	0.51	11.64	12.09	1.40	1.40	
47			9:25A	55°	-	9:31A	0.52	12.55	12.39	0.70	2.10	
48			10:05A	60°	-	10:12A	0.52	12.22	13.01	0.70	2.80	
49	10:42A		65°	-	10:51A	0.52	13.81	13.04	2.93	5.73		
50	1:25P		77°	-	1:33P	0.54	12.28	12.94	1.09	6.82		
51	2:25P		77°	-	2:34P	0.54	13.60	12.50	0.83	7.65		
52	3:15P		73°	-	3:22P	0.55	11.41					
G 164	200 ft. below Dunlop Road Crossing	---	---	---	7:40A	0.74	3.27	3.62	0.34	0.34		
G 165		8:52A	43°	-	8:48A	0.73	3.98	3.95	0.39	0.73		
G 166		9:55A	53°	-	10:00A	0.73	3.93	3.78	0.31	1.04		
G 167		10:55A	62°	-	11:00A	0.72	3.63	3.53	0.29	1.33		
G 168		11:55A	70°	-	12:00N	0.70	3.43	3.29	0.27	1.60		
G 169		12:55P	74°	-	1:00P	0.68	3.15	2.67	0.22	1.82		
G 170		1:55P	76°	-	2:00P	0.66	2.19	2.06	0.17	1.99		
G 171		2:55P	71°	-	3:00P	0.65	1.93	1.83	0.15	2.14		
G 172		3:55P	-	-	4:00P	-	1.74	1.63	0.13	2.27		
G 173		4:55P	62°	-	5:00P	0.64	1.53					
Note:	Area San Gabriel from Standifer Heading to 500 ft. above Beverly Blvd. is 7.44 Ac. Area San Gabriel from 500 ft. above Beverly Blvd. to 200 ft. above Beverly Blvd. is 0.51 Ac. Area San Gabriel from 200 ft. above Beverly Blvd. to Whittier Blvd. is 4.21 Ac. Area San Gabriel from Whittier Blvd. to Dunlop Road Crossing is 3.63 Ac. Total 15.79 Ac.											

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PERCOLATION MEASUREMENTS

Set No. 60
March 20, 1935

San Gabriel River

Accumulated run-off at following points:

1500 ft. above Lower Azusa Road
El Monte Avenue
Valley Blvd.

Meas. No.	Station	Temperature Fahrenheit		Time	Gage Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acre Ft.	Accumulated Acre Feet	Remarks	
		Time	Wet Air								
0 82	1500 ft. above Lower Azusa Road	7:37A	45 1/2	-	7:37A	1.12	98.76	97.85	11.46	11.46	
0 83		9:02A	50°	-	9:02A	1.12	96.94	93.58	6.70	18.16	
0 84		9:54A	53 1/2	-	9:54A	1.08	90.22	89.21	8.97	27.13	
0 85		11:07A	57 1/2	-	11:07A	1.07	88.21	93.53	7.08	34.21	
0 86		12:02P	61°	-	12:02P	1.12	98.86	97.90	10.11	44.32	
0 87		1:17P	63°	-	1:17P	1.12	96.94	96.90	10.68	55.00	
0 88		2:37P	64 1/2	-	2:37P	1.11	96.85	97.39	10.06	65.06	
0 89		3:52P	63°	-	3:52P	1.11	97.93	93.19	6.16	71.22	
0 90		4:40P	61°	-	4:40P	1.06	88.46	82.88	1.83	73.05	
0 91		4:56P	60°	-	4:56P	1.01	77.30	70.63	1.46	74.51	
0 92		5:11P	60°	-	5:11P	0.95	63.97				
74 A		El Monte Avenue	7:55A	46 1/2	-	7:55A	-	61.33	59.23	8.87	8.87
74 B	9:46A		53 1/2	-	9:46A	-	57.13	55.65	10.92	19.79	
74 C	12:15P		63°	-	12:15P	-	54.17	54.38	5.39	25.18	River in 3 channels
74 D	-		-	-	1:31P	-	54.60	54.51	4.80	29.98	
74 E	3:00P		68°	-	3:20P	-	54.43	52.65	4.50	34.48	
74 F	4:15P		65°	-	4:25P	-	50.87	50.00	2.82	37.30	
74 G	4:45P		63 1/2	-	4:45P	-	49.12				
74 G	5:00P		-	-	5:00P	-	-				
0 119	Valley Blvd.				7:37A	0.83	4.34	4.90	.32	.32	
0 120					8:25A	0.82	5.45	5.08	.24	.56	
0 121					9:00A	0.79	4.72	4.30	.36	.92	
0 122					10:00A	0.77	3.87	3.04	.25	1.17	
0 123					11:00A	0.74	2.20	2.12	.15	1.32	
0 124					11:51A	0.61	.045	.02	+	1.32	
0 124					12:00M		0				

Note: Area from 1500 ft. above Lower Azusa Road to El Monte Ave. 4.45 Ac.
Area from El Monte Ave. to Valley Blvd. 8.2 Ac.
Large percentage of variation with variation of flow.

PERCOLATION MEASUREMENTS

Set No. 43
April 16, 1935

San Gabriel River

Accumulated run-off at following points:

600 ft. below Beverly Blvd.
400 ft. below Whittier Blvd.
500 ft. below Dunlop Crossing
300 ft. below Santa Fe R. R. Bridge
Telegraph Road

Meas. No.	Station	Temperature Fahrenheit		Time	Gage Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acre Ft.	Accumulated Acre Feet	Remarks	
		Time	Wet Air								
0 154	600 ft. below Beverly Blvd.	7:10A	58 1/2	-	7:23A	1.28	66.9	65.7	5.43	5.43	
0 155		8:10A	59°	-	8:23A	1.29	64.6	62.8	8.39	13.82	
0 156		9:50A	62 1/2	-	10:00A	1.30	61.0	62.4	7.13	20.95	
0 157		11:10A	66 1/2	-	11:23A	1.31	63.9	61.9	5.12	26.07	
0 158		12:10P	68°	-	12:23P	1.32	60.0	60.8	10.22	36.29	
0 159		2:15P	72 1/2	-	2:25P	1.33	61.6	58.6	8.07	44.36	
0 160		3:55P	70°	-	4:05P	1.34	55.7	53.0	6.57	50.93	
0 161		5:25P	66 1/2	-	5:35P	1.32	50.3				
64 A		400 ft. below Whittier Blvd. Recorder Sta. F63R	9:00A	62°	-	9:15A	4.07	46.10	46.1	15.24	15.24
64 B			12:55P	71°	-	1:15P	4.08	46.1	46.8	13.67	28.91
64 C	4:30P		71°	-	4:47P	4.06	47.5				
0 174	500 ft. below Dunlop Crossing	10:06A	73°	-	10:16A	0.53	42.5	40.8	2.59	2.59	
0 175		10:55A	70°	-	11:02A	0.51	39.1	38.6	15.63	18.22	
0 176		3:47P	73°	-	3:56P	0.53	38.1				
0 20	300 ft. below Santa Fe R.R. Bridge	8:15A	57°	-	8:27A	0.80	23.1	22.3	1.47	1.47	
0 21		9:05A	60 1/2	-	9:15A	0.79	21.6	20.2	5.09	6.56	
0 22		12:10P	73°	-	12:18P	0.78	18.8	18.5	2.34	8.90	
0 23		1:40P	74°	-	1:50P	0.76	18.3	16.8	2.87	11.77	
0 24		3:00P	77°	-	3:14P	0.75	15.4	15.0	2.56	14.33	
0 25		4:25P	-	-	4:32P	0.74	14.7				
31		6:40A	55°	-	6:50A	5.46	11.3	10.6	5.43	5.43	
32	12:45P	76°	-	1:02P	5.46	10.0	8.2	3.11	8.54		
33	5:30P	69°	-	5:37P	5.41	6.4					
Note:	Area San Gabriel from 600 ft. below Beverly Blvd. to 400 ft. below Whittier Blvd. is 6.6 Ac. Area San Gabriel from 400 ft. below Whittier Blvd. to 500 ft. below Dunlop Crossing is 9.2 Ac. Area San Gabriel from 500 ft. below Dunlop Crossing to 300 ft. below Santa Fe R. R. B. is 13.1 Ac. Area San Gabriel from 300 ft. below Santa Fe R. R. B. to Telegraph Road is 7.5 Ac. Total 36.4 Ac.										

RIO HONDO
SAN GABRIEL RIVER

PERCOLATION MEASUREMENTS

SET NO. 7
December 18, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
9:00A	300' below Foothill Blvd. Recorder Sta. F190R	I	184+00	10	55.42	2500	49.9	2.86	6.55	2.29	
10:00A	Santa Fe R.R. Rio Hondo	J	209+00	G15	48.87						Poor Meas. Section San Gab. dry below this point
			0+00								
11:00A	Rio Hondo		55+00	E22	46.08	5500	66.6	8.40	2.79	.352	
12:00H	Rio Hondo - 4 Channels		92+00	E29	44.60	3700	87.9	7.45	1.48	.199	
								7.05	1.48	+.07	
1:40P	Channel 1) East to 2) West		125+00	E27	21.80	3800	80.8				
			120+00		25.28						
					45.08						
2:50 to 3:02P	Foothill Blvd. Recorder Sta. F190R			11	70.81						

RIO HONDO and
SAN GABRIEL RIVER

PERCOLATION MEASUREMENTS

SET NO. 22
December 21, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
9:35A	Rio Hondo	X	125+00	H20	35.23						52°
8:55A	Rio Hondo	Y	125+00		7.55						
	Flow to San Gab. R.	M			27.58						
	By Subtraction										
			391+00	G-42	26.10						
11:45A	Lower Arusa Road	O	449+00	G105	19.53						55°
											-1.48
											-5.57
12:20P	El Monte Blvd. Rec. Sta. F19R	P	495+00	18	19.25						62°
12:55P	Garvey Avenue	T	559+00	G111	3.90						68°
											-1.85
1:50P	Valley Blvd.	V	556+00	G116	2.07						71°
3:10P	Rio Hondo	X	125+00	H22D	31.03						63°
	Rio Hondo	Y	125+00		7.48						
	Flow in San Gab. R.	M			23.55						
	By Subtraction										

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SAN GABRIEL RIVER
and RIO HONDO

PERCOLATION MEASUREMENTS

SET NO. 13
December 19, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
9:00A	300' below Foothill Blvd. Rec. Sta. F190R	I	184+00	E2	81.08	2500		3.40	5.97	1.76	
10:00A	Santa Fe R.R. Bridge Rio Hondo	J	209+00	G14	75.05	5500		9.41	0.04	0.00	Poor measuring section. San Gab. Riv. dry - 209+00
			0+00								
11:05A	Rio Hondo		55+00	E25	75.01	3700		8.62	.91	.10	
12:00H	Rio Hondo		92+00	E30	74.10	4500		8.55	5.85	.68	
1:50P	Rio Hondo		(125+00)	E28	68.25						
			(155+00)								
	W. Channel - Rio Hondo		92+00		39.99	4200		4.98	3.74	.75	
	W. Channel - Rio Hondo		185+00		35.25						
	E. Channel - Rio Hondo		90+00		34.11	2500		5.8	2.11	.55	
	E. Channel - Rio Hondo		125+00		32.00						
4:10P	San Gab. - Foothill Blvd. Rec. Sta. F190R	I	184+00	E3	69.08						

SAN GABRIEL RIVER
and RIO HONDO

PERCOLATION MEASUREMENTS

SET NO. 25
December 26, 1934

Time	Description	Point	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in Reach in Sec. Ft.	Loss in Sec. Ft. per Ac. Wetted Area	Remarks
8:35A	San Gabriel River 300' below Foothill Blvd. Recorder Sta. F190R	I	184+00	20	189.88						49°
	San Gab. R. at Split below Split	J	209+00								
	Rio Hondo at Split	J	0+00								
10:40A	San Gab. R. 100' below Split	J	G-17	2.88							52°
11:05A	Rio Hondo - 700' below Split	J	7+00	H-17	178.34						52°
	Total				181.22						8.61
11:05A	Rio Hondo - 700' below Split	J	7+00	H-17	178.34						52°
12:20P	Rio Hondo		50+00	H-20	170.72						54°
2:10P	Rio " Channel 1) West		92+00		66.40						56°
	Rio " " 2) West		92+00		8.48						57°
2:25P	Rio " " 3) West		92+00	H-33	12.72						57°
2:35P	Rio " " 4) West		90+00		55.23						57°
	Total				152.83						17.84
3:25P	R. Hondo Ch. 1) East	I	125+00	H-41	55.65						57°
3:50P	" " 2) West	L	130+00		34.31						56°
	" " 3) West	L	130+00		1.94						56°
4:05P	" " 4) West	L	130+00		3.16						56°
	Total				153.04						Gain .16
4:40P	San Gab. R. 300' below Foothill Blvd. Rec. Sta. F190R	I	184+00	E1	197.84						52°

PERCOLATION MEASUREMENTS

RIO HONDO & SAN GABRIEL RIVER

Set No. 57
February 19, 1955

Accumulated run-off at following points:

San Gabriel River at Foothill Blvd.
Rio Hondo - 1500' above N.W. Line
San Gabriel River - 1500' above Lower Arusa Road

Gage No.	Station	Temperature Fahrenheit		Time	Gage Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acre Ft.	Accumulated Acre Feet	Remarks	
		Time	Wind								
	San Gabriel River at Foothill Blvd. (I)			8:00A		227.9	227.9	18.85	18.85		
				9:00A		227.9	227.0	18.76	37.59		
				10:00A		226.0	226.0	18.68	56.27		
				11:00A		226.0	225.0	18.60	74.87	Discharges have been picked from Recorder Record at Recorder Sta. F-190R. See measurements made at recorder station F190R No. s. 50A, 50B.	
				12:00M		224.0	224.0	18.51	93.38		
				1:00P		224.0	223.1	18.44	111.92		
				2:00P		223.2	221.2	18.28	130.10		
				3:00P		220.5	220.2	18.20	148.30		
				4:00P		220.5	220.5	18.20	166.50		
				5:00P		220.5					
H 72	Rio Hondo - 1500' above N.W. Line	8:25A	51° 65°	8:17A	0.58	80.7	79.8	6.60	6.60		
H 65		9:25A	55° 69°	9:17A	0.58	79.0	77.5	6.40	13.00		
H 74		10:25A	56° 76°	10:17A	0.57	76.1	75.0	6.20	19.20		
H 76		11:25A	60° 83°	11:17A	0.57	73.8	74.4	6.15	25.35		
H 76		12:25P	65° 81°	12:17P	0.57	75.1	74.4	6.15	31.50		
H 77		1:25P	65° 81°	1:17P	0.57	75.7	65.5	5.25	36.75		
H 78		2:25P	66°	2:18P	0.49	57.5	55.8	1.31	38.04		
H 79		3:25P	66°	3:18P	0.47	54.2	52.7	5.29	41.31		
H 80		4:25P	66° 79°	4:17P	0.46	31.2	50.2	4.12	45.46		
H 81		5:25P	65° 76°	5:17P	0.45	49.5	49.4	4.02	49.54		
G 54	San Gabriel River 1500' above Lower Arusa Road.	7:55A	50°	8:00A	0.52	57.4	56.2	2.22	2.22		
G 55		8:50A	51°	8:56A	0.52	59.0	60.2	4.89	7.11		
G 56		9:50A	53°	9:58A	0.52	61.5	58.7	2.67	10.44		
G 57		10:02A	56°	10:08A	0.51	56.1	55.6	2.23	12.27		
G 58		10:40A	57°	10:46A	0.51	55.1	55.8	2.44	14.71		
G 59		11:17A	60°	11:17A	0.50	55.5	57.0	6.91	21.62		
G 60		12:41P	65°	12:48P	0.29	58.4	55.6	1.46	23.08		
G 61		1:04P	63°	1:04P	0.20	52.8	54.3	2.22	25.30		
G 62		1:50P	66°	1:52P	0.29	55.8	56.3	5.92	30.55		
G 63		2:20P	67°	2:22P	0.22	56.8	65.0	5.52	36.95		
G 64	3:00P	64°	3:02P	0.37	75.5	71.8	5.07	37.00			
G 65	3:50P	66°	3:52P	0.32	70.4	72.4	5.22	42.22			
G 66	4:25P	65°	4:30P	0.57	74.4	72.2	2.92	45.25			
G 67	4:55P	65°	5:00P	0.52	69.9	71.5	2.65	48.89			
G 68	5:50P	61°	5:57P	0.22	72.7						
NOTE: Combined area, Rio Hondo and San Gabriel, 66.5 acres.											

PERCOLATION MEASUREMENTS

SAN GABRIEL RIVER & RIO HONDO

Set No. 40
March 19, 1955

Accumulated run-off at following points:

San Gabriel River at Foothill Blvd.
San Gabriel River at Arrow Highway
Rio Hondo at Arrow Highway
Rio Hondo 1500' above N.W. Line
San Gabriel River 1500' above Lower Arusa Road.

Gage No.	Station	Temperature Fahrenheit		Time	Gage Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acre Ft.	Accumulated Acre Feet	Remarks	
		Time	Wind								
	San Gabriel River at Foothill Blvd.			8:00A		271.2	271.2	22.4	22.4	# Discharges are taken from Recorder Record at Recorder Station F190R	
				9:00A		271.2	271.2	22.4	44.8		
				10:00A		271.2	271.2	22.4	67.2		
				11:00A		271.2	271.2	22.4	89.6		
				12:00M		271.2	271.2	22.4	112.0		
				1:00P		271.2	279.4	25.1	137.1		
				2:00P		267.6	267.6	25.8	162.9		
				3:00P		267.6	281.4	25.2	188.1		
				4:00P		275.5	275.5	22.8	204.9		
				5:00P		275.5					
G 54	San Gabriel River Arrow Highway			5:54P	1.55	3.49 0.75 1.50 1.09.52				Gage Height is for West Channel only - Channels listed from East to West.	
H 43	Rio Hondo - Arrow Highway			4:50P	0.22	102.82 1.65 6.11				Channels listed from East to West. G. H. taken from East channel only.	
H 85	Rio Hondo 1500' above N. W. Line	7:50A	50°	7:50A	1.42	102.48	101.91	8.42			
H 84		8:50A	52½°	8:50A	1.42	101.24	100.52	14.10	22.52		
H 85		10:12A	55°	10:12A	1.42	99.32	97.54	11.80	34.32		
H 86		11:40A	55½°	11:40A	1.41	95.56	95.01	11.90	46.22		
H 87		1:10P	61½°	1:10P	1.41	96.66	101.79	16.82	65.04		
H 88		3:10P	56½°	3:10P	1.45	106.92	111.64	2.84	66.88		
H 89		3:52P	56°	3:52P	1.46	116.22	110.44	12.69	80.58		
H 90		5:02P	54°	5:02P	1.45	104.45					
G 69		San Gabriel River 1500' above Lower Arusa Road	7:50A	50°	7:52A	0.42	102.81	101.22	5.72	5.72	
G 70			8:10A	51°	8:12A	0.42	99.22	99.04	5.05	10.77	
G 71	8:45A		52°	8:50A	0.42	98.22	100.22	6.07	16.84		
G 72	9:30A		52½°	9:40A	0.42	102.20	102.22	8.07	24.91		
G 73	10:30A		55½°	10:37A	0.42	105.21	100.52	7.65	32.54		
G 74	11:25A		56°	11:52A	0.42	97.86	99.66	10.43	42.97		
G 75	12:40P		59°	12:42P	0.42	101.50	100.42	5.67	48.64		
G 76	1:20P		60°	1:22P	0.41	99.29	99.94	7.16	55.81		
G 77	2:12P		59°	2:12P	0.41	100.49	101.47	5.02	60.84		
G 78	2:50P		58°	2:52P	0.42	102.45	105.24	5.01	65.85		
G 79	3:20P	58°	3:22P	0.43	105.43	104.52	7.20	73.05			
G 80	4:12P	57½°	4:22P	0.44	105.70	102.29	4.25	77.30			
G 81	4:42P	56°	4:52P	0.42	102.09						
NOTE: Combined area Rio Hondo and San Gabriel from Foothill Blvd. to Arrow Highway 52.6 Ac Area Rio Hondo from Arrow Highway to a point 1500 ft. above N.W. Line 6.5 Ac Area San Gabriel from Arrow Highway to a point 1500 ft. above Lower Arusa R at 9.6 Ac Total: 76.7 Ac											

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PERCOLATION MEASUREMENTS

SAN GABRIEL RIVER & RIO HONDO

Set No. 44
April 17, 1935

Accumulated run-off at following points:

San Gabriel River at Foothill Blvd.
Combined San Gabriel River at Arrow Highway and Rio Hondo at Arrow Highway
Combined San Gabriel River 1500 Ft. above Lower Azusa Road and Rio Hondo at Sta. 167+00

Meas No.	Station	Temperature Fahrenheit		Time	Gage Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acre Ft.	Accumulated Acre Feet	Remarks
		Time	Wet Air							
	San Gabriel River at Foothill Blvd.			8:00A		351.5*				
				9:00A		351.5*	351.5	29.0	29.0	
				10:00A		351.5*	351.5	29.0	58.0	
				11:00A		351.5*	351.5	29.0	87.0	
				12:00M		351.5*	351.5	29.0	116.0	#Discharges at Foothill Blvd. taken from recorder record of Station #190R.
				1:00P		349.2*	350.4	29.0	145.0	
				2:00P		347.0*	348.1	28.8	173.8	
				3:00P		347.0*	347.0	28.7	202.5	See meas. Nos. 56A and 56B.
				4:00P		347.0*	347.0	28.7	231.2	
				5:00P		347.0*	347.0	28.7	259.9	
G 35	San Gabriel River at Arrow Highway			10:33A	1.51	9.30 5.58 2.69 96.92				Four Channels-listed in order from East to West. Gage reading only on West channel.
H 44	Rio Hondo at Arrow Highway			12:29P	0.98	3.80 141.78 6.47 0.42 2.66 6.93				Four channels-listed in order from East to West. Gage reading only on channel 2 West.
G 93		7:30A	53°	7:30A	0.60	4.93 75.55 22.63	101.8	22.4	22.4	Three channels listed from East to West. Gage reading only on middle channel.
G 94	San Gabriel River 1500 Ft. above Lower Azusa Road.	9:40A	56°	10:10A	0.59	4.56 72.42 22.41		12.3	34.7	
G 95		11:15A	65°	11:40A	0.58	4.53 72.76 21.94		12.7	47.4	
G 96		12:47P	72°	1:12P	0.59	4.46 75.83 20.89		10.4	57.8	
G 97		2:07P	73°	2:30P	0.56	3.88 67.98 20.58		14.5	72.3	
G 98		4:00P	71°	4:25P	0.57	3.96 67.18 18.94		7.1	79.4	
G 99		5:00P	67°	5:20P	0.57	4.44 71.47 20.46				

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PERCOLATION MEASUREMENTS

SAN GABRIEL RIVER & RIO HONDO

Set No. 44
April 17, 1935

Accumulated run-off at following points:

San Gabriel River at Foothill Blvd.
Combined San Gabriel River at Arrow Highway and Rio Hondo at Arrow Highway
Combined San Gabriel River 1500 ft. above Lower Azusa Road and Rio Hondo at Sta. 167+00

Meas No.	Station	Temperature Fahrenheit		Time	Gage Ht.	Meas. Disch. Sec. Ft.	Mean S.F.	Acre Ft.	Accumulated Acre Feet	Remarks
		Time	Wet Air							
H 63				8:05A	0.57	2.39 2.39 134.06 5.00*	148.2	16.7	16.7	Four channels-listed from East to West. Gage reading only on the #3 channel from East.
H 64				9:27A	0.56	2.70 3.36 141.19 5.00*	148.2	24.5	41.2	#Channel #4 from East is assumed to have maintained a flow of approx. 5 second-feet based on a measurement taken at 5:20P.
H 65	Rio Hondo-Station 167+00 Approximately 2200 ft. below Arrow Highway			11:27A	0.56	2.66 2.70 133.92 5.00*	139.2	21.7	62.9	
H 66				1:20P	0.55	2.42 2.70 125.12 5.00*	139.7	13.4	76.3	
H 67				2:30P	0.55	2.59 2.52 134.10 5.00*		25.1	101.4	
H 68				4:40P	0.55	2.07 2.15 127.43 5.00*	135.8	12.5	113.9	
H 70				5:47P	0.55	1.92 2.24 125.58 5.26				
H 69										
<p>Note: Combined area, San Gabriel and Rio Hondo, from Foothill Blvd. to Arrow Highway is 63.2 Ac. Combined area San Gabriel from Arrow Highway to a point 1500 ft. above Lower Azusa Road and Rio Hondo from Arrow Highway to Percolation station 167+00 is 25.3 Ac. Total 88.5 Ac.</p>										

PERCOLATION MEASUREMENTS

SANTA ANITA WASH

SET NO. 3
February 25, 1936

Time	Description	Station	Meas. No.	Disch. in Sec. Ft.	Length of Reach in Ft.	Mean Width of Reach in Ft.	Area in Acres	Loss in		Remarks
								Sec. Ft.	Wetted Area	
9:55A	155 ft. above N. end of improved channel	121+85	N1	17.78	2615	24.24	1.46	.52	.36	
10:55A	50 ft. above Foothill Blvd.	146+00	N2	17.26	1950	20.54	.92	2.56	2.80	
11:50A	140 ft. above Colorado	167+50	N3	14.68	2740	36.99	2.33	8.36	3.59	
12:55P	285 ft. below Huntington Drive Bridge	194+90	N4	6.32	3600	21.33	1.76	5.10	2.90	
2:15P	165 ft. below Duarte Road	230+90	N5	1.22	3700	10.14	.86	1.22	1.42	
3:00P	250 ft. below Walnut Dr.	267+90	N6	0.						
3:35P	155 ft. above North end of improved channel	121+85	N7	17.43						