Los Angeles County Flood Control District

HYDRAULIC DEPARTMENT

REPORT TO H. E. HEDGER, CHIEF ENGINEER

BIENNIAL REPORT

ON

HYDROLOGIC DATA

SEASONS 1936-37 and 1937-38

Paul Baumann, Sr. Asst. Chief Engineer
Walter J. Wood, Chief Hydraulic Engineer

June 30, 1939

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LOS ANGELES, CALIFORNIA

H. E. HEDGER
CHIEF ENGINEER

751 S. FIGUEROA ST.
ROOM 410

July 1, 1939

FILE NO. Biennial Report on
SUBJECT Hydrologic Data for
Seasons 1936-37 and
1937-38.

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

Gentlemen:

There is transmitted herewith for your files, the Los Angeles County Flood Control District's Biennial Report on Hydrologic Data for the seasons 1936-37 and 1937-38.

This report includes data collected and compiled by the District's Hydraulic Department on precipitation, evaporation, runoff, dam operation, ground water and conservation. These data are basic for design and operation of flood control and conservation projects. The value of continuing the collection and compilation of this type of data cannot be over-estimated due to its widespread use, not only by the District, but also by numerous public and private agencies.

The District wishes to record its appreciation of the cooperation rendered by the various individuals and organizations who have furnished data and also of services as observers.

Yours truly,

H. E. Hedger

H. E. Hedger, Chief Engineer

Los Angeles County Flood Control District
Hydraulic Department

June 30, 1939

Mr. H. E. Hedger
Chief Engineer
L. A. County Flood Control District
Los Angeles, California

Dear Sir:

We transmit herewith the Biennial Report on Hydrologic Data for the Seasons 1936-37 and '37-'38. This report essentially includes basic data collected and compiled by the Hydraulic Department. Included also are various data furnished by individuals and agencies cooperating with the District. The report as presented is divided into the following sections:

1. Precipitation.
2. Evaporation.
3. Dam Operation.
4. Runoff.
5. Conservation and Ground Water.

Monthly rainfall totals and seasonal totals are presented for 316 stations for 1936-37 and 311 stations for 1937-38.

Records are also available from automatic recording raingages at 64 locations, during the period, from 56 gages.

The comparison of rainfall for various areas in the County based on the ratio of seasonal amount to 66 year normal seasonal rainfall is as follows:

	1936-37	1937-38
1. San Gabriel Mountain Area	147%	161%
2. Valley and Coastal Plain	152%	151%
3. Santa Monica Mountains	145%	159%
4. North of San Gabriel Mountains	136%	137%

The most outstanding event, from a meteorological standpoint, during the period, was the storm which culminated in the flood of March 2, 1938. The maximum recorded daily rainfall amounted to 15.28 inches at Opid's Camp. The storm total at this location amounted to 27.27 inches or 41% of the seasonal amount of 66.65 inches.

Intensities of rainfall were in general lower during the storm of March 2nd than those previously recorded.

The section on Evaporation includes data from 23 stations presented as monthly total depth in inches. As a matter of interest, comparative monthly totals for a few representative stations for the period of record, with mean amounts, have also been shown.

It is of interest to note that total seasonal evaporation in 1937-38 varied from a minimum of 33.56 inches to a maximum of 96.29 inches in the county.

The Dam Operation section consists of tabulations of daily gage height, storage, inflow and outflow for 14 dams for each of the Seasons of 1936-37 and 1937-38, and graphs showing inflow to and outflow from reservoirs during the storm of February 27 to March 3, 1938.

The District now owns and operates 16 dams with a combined original storage capacity of 106,762 acre-feet which control 412 square miles of drainage area. Excluding three dams, which are not storage dams, the original capacity was 106,550 acre-feet as compared with 104,715 acre-feet prior to the March 2nd flood, a loss of 1,835 acre-feet capacity. The combined capacity of the same 13 dams following the March 2nd flood was 94,366 acre-feet, a reduction of 10,349 acre-feet or 9.9% in approximately four days.

It is significant to note that for the maximum day of the March 2nd flood period, the total inflow into 13 reservoirs was 1.22 times the total storage capacity and for the 4 day period the total inflow was 2.10 times the combined storage capacity. The largest volume of inflow in one day occurred at San Gabriel Dam No. 1, amounting to 60,992 acre-feet or 1.14 times the storage capacity to the spillway lip.

The Runoff Section of the report includes descriptions and pertinent data relating to recorder stations, lists of measurements at stations, mean daily runoff tabulation and flood or storm hydrographs. Inasmuch as the March 2nd, flood was the greatest during the period covered by the District's records, a table has been included showing comparisons of the flood peaks on March 2nd, at various stations with those of previous floods, where available.

The District operates 68 recorder stations on the principal stream systems for purposes of (1) Dam operation, (2) Design data, and (3) Conservation data.

This report includes for the first time a section on Conservation and Ground Water. Due to the increasing interest in conservation problems in this region, it was deemed desirable to present, as a part of this report, a synopsis of conservation work done by the District and cooperating agencies and a summary of water table changes in various basins. Figures are also included to show amounts of water conserved by operations of the District in various spreading grounds and channels.

A majority of the basins show definite increases in water table elevations, due to the conservation of water by spreading and deep percolation of rainfall on the valley floor during the biennial period. Ground water fluctuations in various basins may be clearly seen by comparison of the ground water contour maps for the Fall and Spring of each of the Seasons of 1936-37 and 1937-38.

The whole hearted cooperation of many individuals and organizations in furnishing records has been a factor in the completeness of this report. We wish to express our appreciation of their assistance.

Respectfully submitted,

Walter J. Wood.

Walter J. Wood
Chief Hydraulic Engineer

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Department

TABLE OF CONTENTS

PRECIPITATION

	Page
FOREWORD	1
LENGTH OF RECORDS	1
DISTRIBUTION OF GAGES	1
VALUE OF PRECIPITATION	2
To the District	2
To the Other Agencies	2
STATISTICS	2
Table I - Gage Ownership and Type	3
Table II - Seasonal Reports	4
Table III - Active Automatic Raingages	5
SUMMARY	7
Flood of March 2, 1938	7
Comparison of Mountain and Valley Rainfall	7
Table of Comparative Rainfall	7
Comparison by Areas	8
No. of Days of Rainfall, .01 Inch or More	8
Maximum Seasonal Rainfall	8
SUMMARY OF SNOWFALL	9
COOPERATION	10
APPENDIX	
Chart I - Comparison of Mountain and Valley Rainfall	11
Chart II - Mass Curves of Rainfall, March 2, 1938	11
Table IV - Comparison of Storm Rainfall for Flood Periods	12
Table V - Maximum Intensities	12
Table VI - Monthly Summary 1936-37	13
Table VII - Monthly Summary 1937-38	15
Table VIII - Station Locations	18
Map I - Station Locations	21
Map II - Isohyetal, Season 1936-37	22
Map III - Isohyetal, Season 1937-38	23
Map IV - Isohyetal, 66-Year Seasonal Normal	24
Map V - Isoheytal, Storm of Feb. 27, through March 4, 1938	25
Map VI - Isoheytal, 24-Hour Period ending 5P.M. March 2, 1938	26

EVAPORATION

	Page
FOREWORD	27
NUMBER OF STATIONS	27
EQUIPMENT	27
VARIATION IN DATA	27
COOPERATION	28
APPENDIX	
Table I - Monthly Summary Season 1936-37	29
Table II - Monthly Summary Season 1937-38	29
Table III - Yearly Summary for Entire Period	30

DAMS

FOREWORD	31
Dams Owned and Operated by the Los Angeles County Flood Control District	31
Debris Basins Maintained by the Los Angeles County Flood Control District	32
PURPOSE	32
Flood Control	32
Conservation	32
RECORDS	32
Dam Data Sheets	32
Storage Corrections	32
Revision and Repair of Outlet Structures	32
Dam Operation Records	33
Method of Determining Inflows and Outflows	33
Allowance for Evaporation and Percolation	33
Hydrographs	33
Flow Retardation and Peak Flow Reduction for March 2, 1938 Flood	33
SUMMARY	33
Total Yearly Inflows	33
Magnitude	33
Conservation Effected	33
Tabulation of Ratio of Yearly Inflow to Reservoir Storage Capacities	33
Flood of March 2, 1938	34
Magnitude	34
Tabulation of Ratio of Max. Day and 4 Day Inflows to Reservoir Storage Capacities	34

DAMS (con't.)

Page

APPENDIX

Dam Data Sheets

Big Dalton 36
Devil's Gate 36
Eaton Wash 36
Live Oak 36
Pacoima 37
Puddingstone 37
Puddingstone Diversion 37
San Dimas 37
San Gabriel #1 38
San Gabriel #2 38
Santa Anita 38
Sawpit 38
Thompson Creek 39
Big Tujunga 39

Dam Operation Records

Big Dalton 40
Devil's Gate 42
Eaton Wash 44
Live Oak 46
Pacoima 48
Puddingstone 50
Puddingstone Diversion 52
San Dimas 54
San Gabriel #1 56
San Gabriel #2 57
Santa Anita 59
Sawpit 61
Thompson Creek 63
Big Tujunga 65

Hydrographs of Inflow and Outflow March 2, 1938 Storm

Big Dalton 67
Devil's Gate 67
Eaton Wash 68
Live Oak 68
Pacoima 69
Puddingstone 69
Puddingstone Diversion 70
San Dimas 70
San Gabriel #1 71
San Gabriel #2 71
Santa Anita 72
Sawpit 72
Thompson Creek 73
Big Tujunga 73

RUNOFF

	Page
FOREWORD	74
Organization of Hydraulic Department	74
History of Records	74
PURPOSE	74
Dam Operation	74
Design	74
Conservation	74
EXTENT AND TYPE OF RECORD	74
Extent of Records	74
Channel Conditions	74
Type of Control Sections	74
Type of Water Stage Recorders	74
RECORDS PRESENTED	75
Recorder Station Records	75
Station Descriptions	75
List of Measurements	75
Mean Daily Runoff Tabulation	75
Hydrographs	75
Staff Gage Station Records	75
Miscellaneous Station Records	75
Percolation Data	75
COOPERATION	76
RESPONSIBILITY	76
Collection of Field Data	76
Compilation of Records	76
RUNOFF SUMMARY	76
Magnitude of Yearly Runoff	76
Flood of March 2, 1938	76
LIMITATIONS	77
Water Stage Record	77
Measurements	77
Publication of Records	77
Mean Daily Runoff	77
Station Locations	77
Hydrographs	77
LEGEND	78
APPENDIX	
Table I - Tabulation of Seasonal Runoff in Acre-feet for 1936-37 and 1937-38	79
Table II - Comparison of Peak Flows	80
Map VII - Location of Gaging Stations	81

APPENDIX (continued)

Recorder Station Data (Arranged Alphabetically)

F.C. No.	Station	Location	Page
F81D-R	ALHAMBRA WASH	250 ft. above Short St.....	82
F38B-R	BALLONA CREEK	at Sawtelle Boulevard	84
F111B-R	BIG TUJUNGA CREEK	above Edison Road	88
F110R	BIG TUJUNGA - FOX CREEK	1/4 mile above mouth	92
F168R	BIG TUJUNGA CREEK	below Big Tujunga Dam #1.....	94
F213R	BIG TUJUNGA CREEK	below submerged dam	98
F20R	BIG TUJUNGA WASH	at Stonehurst Avenue	101
F105R	BIG TUJUNGA - W. WASH	at Magnolia Boulevard	104
F106R	BIG TUJUNGA - E. WASH	at Magnolia Boulevard	106
F2R	BROWNS CANYON WASH	at Devonshire Avenue, Chatsworth	109
F37R	COMPTON CREEK	at Rosecrans Avenue	112
F41&B&C-R	COYOTE CREEK	at Del Amo Street	115
F53R	DUME CREEK	at Roosevelt Highway	117
F104R	EATON WASH	at Sunset Avenue	119
F65R	LITTLE DALTON CREEK	at mouth of canyon	121
L1R	LITTLE ROCK CREEK	2 miles above Little Rock Dam	124
F67B-R	LITTLE SANTA ANITA CREEK	270 ft. below Sierra Madre Dam	126
F19R	LITTLE TUJUNGA CREEK	at Foothill Boulevard	129
F31R	LIVE OAK CREEK	near mouth of canyon	132
F5R	LOS ANGELES RIVER	at Van Nuys Boulevard	134
F124R	LOS ANGELES RIVER	at Vineland Avenue	137
F57&57B-R	LOS ANGELES RIVER	below Dayton Avenue	139
F34&34B-R	LOS ANGELES RIVER	at Firestone Boulevard	144
F180R	LOS ANGELES RIVER	at State St., Long Beach	149
F100R	MAIN SPREADING CANAL & AZUSA DUARTE TUNNEL DIVERSION	at mouth of San Gabriel Canyon	152 &154
F130R	MALIBU CREEK	at Crater Camp	154
F22R	MONROVIA CREEK	200 ft. above junction	157
F195R	MONROVIA STORM DRAIN	near Peck Road	161
F181R	MONTEBELLO STORM DRAIN	at outlet into Rio Hondo at Mines Avenue	163
F118B-R	PACOIMA CREEK	flume below Pacoima Dam	164
F16R	PACOIMA WASH	at Parthenia Street	166
F40R	PUDDINGSTONE CREEK	below Puddingstone Dam	168
F192R	RIO HONDO	at Lower Azusa Road	170
F64&64B-R	RIO HONDO	1000 ft. above Mission br....	174
F45R	RIO HONDO	at Stewart and Gray Road	179
F83R	RIO HONDO SLOUGH	at San Gabriel Boulevard	182
F82B-R	RUBIO WASH	at Broadway	184
F82C-R	RUBIO WASH	at Glendon Way	185
F151R	SAN ANTONIO CREEK	at mouth of canyon	187
F228R	SAN GABRIEL RIVER - W. FORK	3-1/2 miles above San Gabriel Dam #2	191
F227R	SAN GABRIEL RIVER - DEVILS CANYON	2 miles above San Gabriel Dam #2	194

RUNOFF (con't.)

APPENDIX (Continued)

Recorder Station Data (Arranged Alphabetically)

F.C. No.	Station	Location	Page
F209R	SAN GABRIEL RIVER - W. FORK	1/2 mile below San Gabriel Dam #2	196
F99B-R	SAN GABRIEL RIVER - BEAR CREEK	500 ft. above W. Fork.....	202
F98R	SAN GABRIEL RIVER - N. FORK	1 mile above mouth	205
P3&P3B-R	SAN GABRIEL RIVER - W. FORK	2 miles above Forks	208
P4R	SAN GABRIEL RIVER - E. FORK	2 miles above Forks	214
F233R	SAN GABRIEL RIVER	near Roberts Relay Sta.....	222
F28R	SAN GABRIEL RIVER	at Edison Intake	224
F250R	SAN GABRIEL RIVER - AZUSA CONDUIT	at sand box weir	227
F220R	SAN GABRIEL RIVER - AZUSA CONDUIT	at N. Portal #4-B Tunnel ...	228
F190R	SAN GABRIEL RIVER	at Foothill Boulevard	231
F191R	SAN GABRIEL RIVER	at San Bernardino Blvd.....	234
F261R	SAN GABRIEL RIVER	near Elliot Avenue	234
F263R	SAN GABRIEL RIVER	at Beverly Boulevard	236
F63R	SAN GABRIEL RIVER	at Whittier Boulevard	239
F262R	SAN GABRIEL RIVER	at Florence Avenue.....	240
F42R	SAN GABRIEL RIVER	at Spring St., Long Beach ..	241
F48R	SAN JOSE CREEK	at Workman Mill Road	244
F119R	SANTA ANITA CREEK	Parshall flume below Santa Anita Dam	247
F260R	SANTA ANITA CREEK	770 ft. above junction with Little Santa Anita Creek....	249
F260B-R	SANTA ANITA CREEK	at Foothill Blvd.....	251
F193R	SANTA ANITA WASH	below Arrow Highway.....	252
F92R	SANTA CLARA RIVER	at old highway bridge 4 mi. W. of Saugus	254
F185R	SEPULVEDA CREEK	at Charnock Road	257
F44R	SYCAMORE LOWER STORM DRAIN	at Adams Square	259
F54R	TOPANGA CREEK	at highway bridge 2 miles above mouth	261
F252R	VERDUGO CHANNEL	at Estelle Avenue	264
F47R	WALNUT CREEK	at Covina Boulevard	266

U.S.G.S. Recorder Stations

F.C. No.	Station	Location	Page
U1R	ARROYO SECO	near Pasadena	270
U9R	DALTON CREEK	near Glendora	272

RUNOFF (con't.)

APPENDIX (continued)

U.S.G.S. Recorder Stations

F.C. No.	Station	Location	Page
U2R	EATON CREEK	near Pasadena	274
U7R	FISH CREEK	near Duarte	276
U12R	HAINES CREEK	near Tujunga	279
U3R	LITTLE SANTA ANITA CREEK	near Sierra Madre	280
U14R	ROCK CREEK	near Valyermo	281
U6R	ROGERS CREEK	near Azusa	283
U15R	SAN ANTONIO CREEK	near Claremont	285
U10R	SAN DIMAS CREEK	near San Dimas	286
U8R	SAN GABRIEL RIVER	near Azusa	288
U4R	SANTA ANITA CREEK	near Sierra Madre	291
U5R	SAWPIT CREEK	near Monrovia	292

Staff Gage Station Data (Arranged Alphabetically)

F. C. No.	Station	Location	Page
	RISING WATER	Whittier Narrows	294
F116S	ARROYO DITCH	below headgate	296
F166S	BALLONA CREEK	at Jacob St. Culver City ...	297
F87S	BANTA DITCH	at head of pipe line	297
F143S	BIG ROCK CREEK	300 ft. above Pallette Cr...	298
F183S	BIG ROCK CREEK	at Palmdale-Victorville Rd..	298
F84S	CATE DITCH	below sluice gate	298
F141S	ELIZABETH LAKE CREEK	bridge at center cabin site	299
F232S	LOS ANGELES RIVER	¼ mile below Buena Vista St.	299
F196S	PACOIMA CREEK	at Maclay Avenue	299
F197S	PACOIMA WASH	at Arleta Street headworks..	300
F121S	PALLETTE CREEK	1 mile above Big Rock Cr....	300
F122S	PALLETTE CREEK	at Big Rock Creek	300
F238S	RUSTIC CANYON STORM DRAIN	100 ft. above Channel Road..	300
F91S	SAN DIMAS CREEK	above San Dimas Dam	301
F76S	SAN GABRIEL RIVER - W. FORK	above Bear Creek	301
F233S	SAN GABRIEL RIVER	near Roberts Relay Sta.....	302
F86S	SAN GABRIEL RIVER	below Standifer Ditch.....	303
F137B-S	SANTA CLARA RIVER	8 miles W. of Castaic Junc..	303
F55S	SANTA MONICA CANYON	150 ft. below E.Rustic Rd...	304
F85S	STANDIFER DITCH	below headgate	304
F32S	THOMPSON CREEK	¼ mile below Thompson Creek Dam	305
F66S	TRI-CITY OUTFALL SEWER	above Junction with Rio Hondo	305

RUNOFF (con't.)

APPENDIX (continued)

Miscellaneous Measurements

Station	Location	Page
BALLONA CREEK DRAINAGE AREA	at miscellaneous points	307
BIG ROCK CREEK DRAINAGE AREA	at miscellaneous points	307
LAS FLORES CANYON DRAINAGE AREA	at miscellaneous points	307
LITTLE ROCK CREEK DRAINAGE AREA	at miscellaneous points	307
LOS ANGELES RIVER DRAINAGE AREA	at miscellaneous points	307
RIO HONDO DRAINAGE AREA	at miscellaneous points	311
SAN GABRIEL RIVER DRAINAGE AREA	at miscellaneous points	314
SANTA CLARA RIVER DRAINAGE AREA	at miscellaneous points	321
TOPANGA CANYON DRAINAGE AREA	at miscellaneous points	322

Percolation Measurements

Station	Location	Page
BIG DALTON WASH	at miscellaneous points	323
BIG TUJUNGA WASH	at miscellaneous points	323
LITTLE DALTON WASH	at miscellaneous points	324
SAN DIMAS WASH	at miscellaneous points	324

Percolation Summary

Station	Location	Page
BIG DALTON WASH	Set No. 1	324
BIG DALTON WASH	Set No. 2	324
BIG DALTON WASH	Set No. 3	325
BIG TUJUNGA WASH	Set No. 4	325
BIG TUJUNGA WASH	Set No. 5	325
BIG TUJUNGA WASH	Set No. 6	325
BIG TUJUNGA WASH	Set No. 7	325
BIG TUJUNGA WASH	Set No. 8	325
BIG TUJUNGA WASH	Set No. 9	326
BIG TUJUNGA WASH	Set No. 10	326
LITTLE DALTON WASH	Set No. 11	326
LITTLE DALTON WASH	Set No. 12	326
SAN DIMAS WASH	Set No. 13	326

CONSERVATION AND GROUND WATER

	Page
FOREWORD	327
Authorization	327
Scope of Activities	327
WELL MEASUREMENTS	328
GROUND WATER POLUTION	328
SEA WATER INTRUSION	329
GROUND WATER MOVEMENTS	329
GROUND WATER CONTOUR MAPS AND KEY WELL GRAPHS	329
SUMMARY OF WATER TABLE CHANGES	330
San Fernando Valley Basins	330
San Gabriel Valley Basins	330
Coastal Plain Basins	330
Upper Santa Ana Valley Basins	331
OPERATION OF PERMANENT SPREADING GROUNDS	332
Pacoima Spreading Grounds	332
San Antonio Spreading Grounds	332
Big Dalton Spreading Grounds	333
Little Dalton Spreading Grounds	333
Thompson Creek Spreading Grounds	334
San Gabriel River Water Committee Spreading Grounds	334
SCARIFICATION OF CHANNELS AND OPERATION OF TEMPORARY OFF-CHANNEL SPREADING GROUNDS	335
San Gabriel River Spreading Operations	335
Channel Scarifying Methods and Results	336
Peck Road Diversion	336
Santa Fe Diversion	337
Los Angeles Street Diversion	337
Coastal Basin Spreading Grounds	338
CONSERVATION IN CHANNELS BELOW DAMS	338
Big Tujunga Dam	338
Santa Anita Dam	339
Eaton Dam	339
Sawpit Dam	340
Puddingstone Diversion Dam	340
REPORTS	340

CONSERVATION AND GROUND WATER (con't.)

Page

APPENDIX

Map VIII Location of Ground Water Basins, Key Wells and Spreading Grounds 341
Graphs of Key Wells 342
San Fernando Valley Basins 342
Raymond Basin 343
Pomona Basin 343
San Gabriel Canyon Basin 344
Main San Gabriel Basin 344
Coastal Plain Intake Area 346
Coastal Plain Former Artesian Area 346
Maps IX to XII Ground Water of San Fernando Valley 347-350
Maps XIII to XVI Ground Water Maps of San Gabriel Valley 351-354
Maps XVII to XX Ground Water Maps of Coastal Plain 355-358
Map XXI Ground Water Map of San Antonio Basins 359
Graph of Wells in San Antonio Basins 360

PRECIPITATION RECORDS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Department

REPORT ON PRECIPITATION

Seasons of 1936-37 and 1937-38

FOREWORD:

The Los Angeles County Flood Control District has continued the policy followed in previous years of placing raingages throughout the County to obtain more effective distribution, particularly in the mountain areas. Annual inspection of stations and suggestions to observers is directed toward obtaining accurate and complete records. Long time records kept by private parties are obtained when possible and these become a valuable addition to the District's records.

LENGTH OF RECORDS:

The length of records obtained is an important item in collecting data and so the District is continually striving to obtain long time records, and to maintain present locations with reliable observers. New locations are chosen keeping in mind the permanancy of the stations, as well as the desirability of the locality.

The District has continuous records of 112 stations 10 years to 14 years in length, 41 stations 15 years to 24 years, 38 stations 25 years to 49 years and 9 stations 50 years and over, a total of 200 long time stations.

DISTRIBUTION OF GAGES:

The value of data obtained is dependent on the proper distribution of equipment in the mountain and valley areas. The distribution of raingages in the valley area is fairly complete and satisfactory both as to the various drainage areas and stream gaging districts. The distribution in the mountain areas, however, is not as complete, due to the scarcity of observers and accessibility during the winter season. Additional locations are therefore necessary to better coordinate rainfall and runoff.

The District maintained 41 automatic raingages during the 1936-37 period, 26 of which were in the mountains and the remaining 15 in the valley area; and 44 automatic raingages during the 1937-38 period, 26 in the mountains and 18 in the valley area. In connection with each automatic gage, except in one instance, there is also an 8 inch standard United States Weather Bureau specification type of gage as a check. Where automatic and standard gages occur together, the standard gage records only are used in compiling total rainfall for each season. The automatic gages afford the maximum information regarding rainfall as they furnish a continuous graphic record of rainfall occurrence. Automatic gage records are used primarily for intensity purposes and timing of storms.

There are 10 privately owned automatic gages cooperative with the District from which records are received or made available to us on request.

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.

VALUE OF PRECIPITATION DATA:

Some of the many applications of precipitation data as compiled by the District are as follows:

1. Estimates of flood flows for design purposes.
2. Rainfall frequency studies.
3. Comparisons of previous large storms.
4. Relationship of rainfall to runoff and percolation in various drainage areas.
5. Utilization of intensity data in operation of District Dams and Debris Basins.
6. Conservation Studies.

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

1. United States Weather Bureau:
   Daily rainfall and snow records furnished to the United States Weather Bureau at Los Angeles every month, (for 42 cooperative rainfall stations) for publication.
2. United States Engineer Department:
   Daily rainfall and intensity data furnished to the United States Engineers, on all major storms.
3. Division of Water Resources State of California:
   Daily rainfall and snow records furnished to 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 38 cooperative rainfall stations. Considerable data also furnished the Los Angeles Branch of the Division as well.
4. Various:
   Data requested by individuals and agencies.

STATISTICS:

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

I. Gage Ownership and Type

		Type	Number of Gages 1936-37	Total	1937-38	Total
(a)	Flood Control	Std. 8"	151		165	
		Std. 8"*	29		30	
		Auto-Ferg. 9" Cap.	31		31	
		Auto-Ferg. 12" Cap.	9		11	
		Auto-Friez 30" Cap.			1	
		Special Auto.	1		1	
		Can & Glass Grad.	19	240	10	249
(b)	Los Angeles Water Department	Std. 8"	17		16	
		Std. 8"*	1		2	
		Auto.	1	19	1	19
(c)	United States Weather Bureau	Std. 8"	10		12	
		Std. 8"*	6		6	
		Auto.	2	18	2	20
(d)	City of Long Beach	Std. 8"	5		5	
		Std. 8"*	1		1	
		Auto.	1	7	1	7
(e)	City of Beverly Hills	Auto-Ferg. 9" Cap.	1	1	1	1
(f)	Calif. Botanical Gardens	Std. 8"	2	2	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"	4		4	
		Std. 8"*	1	5	1	5
(j)	L. A. County Survey Dept. Storm Drain Division	Auto-Ferg. 9" Cap.	3	3	3	3
(k)	Pomona Valley Prot. Association	Std. 8"	2	2	2	2
(l)	State of Calif. - D.W.R.	Std. 8"	4	4	4	4
(m)	Miscellaneous-Individuals, Companies, Cities, Towns, etc.	Auto.	4		4	
		Std. 8"	46		46	
		Std. 8"*	6		8	
		Std. Type 5"	3		3	
		Std. Type 4"	1			
		Std. Type 3"	14		13	
		Dial Type	1	75	1	75
		Total		384		394
		Std. 8**		-44		-48
		***		- 5		- 5
Total gages from which the District receives records				335		341

* Represents an automatic gage accompanying the standard gage at the same location.
** Represents number of automatic gages deducted from total number of gages to agree with the number of records published.
*** Represents gages located in Long Beach from which records are made available to the District, upon request.

The District owns 73 percent of all the gages from which daily records are received each month. The remainder are privately owned, as shown above, and are made cooperative with the District, i.e., each observer is supplied with all the necessary supplies, and records are sent in each month:

II. Table of Complete Seasonal Reports:

Type	Season 1936-37	Season 1937-38
F. C. Standard Gage with F. C. Auto. Gage	27	29
F. C. Standard Gage only	141	147
F. C. Automatic Gage only	1	1
F. C. Automatic with Private Standard Gage	11	12
F. C. Can and Glass Graduate	16	10
Private Cooperative Standard Gage	109	102
Private Automatic Gage	7	7
Private Automatic and Private Std. Gage	4	3
Total	316	311

The above table shows the number of stations which furnished complete records, or records which could be completed by estimates from adjacent stations for not more than 10 percent of total seasonal amount. This table shows that of the 335 and 341 stations reporting during the seasons of 1936-37 and 1937-38, 94 and 91 percent respectively furnished complete reports. Included in the season 1937-38 are 7 stations established late in the season, and 8 lost or abandoned after the March 2, 1938 storm. Deducting these fifteen stations from the total number of stations available for the season, 96 percent of the balance furnished complete reports.

The following table is a complete list of all the automatic raingages which were active in the seasons 1936-37 and 1937-38, and shows the length of active record.

TABLE III

ACTIVE AUTOMATIC RAIN GAGES

1936-37 and 1937-38

F.C. No.	Name of Station	Size	Watershed	Period of Record
6	Topanga Ranger Station	9"	Topanga Canyon	8-18-30 to date
10	Bel Air	9"	Stone Canyon	1- 4-29 to date
11	Upper Franklin Reservoir	9"	Franklin Canyon	9-29-37 to date
15	Van Nuys Warehouse	9"	L. A. River	8-18-30 to date
21	Brant Ranch	9"	L. A. River	1- 5-29 to 11-13-36
29	Granada	9"	L. A. River	12- 8-27 to 8-17-37
33A-E	Pacoima Dam	9"	Pacoima	9-22-30 to date
47A	Clear Creek	12"	Big Tujunga	11- 2-28 to date
52	Switzers Camp	9"	Arroyo Seco	10-27-37 to date
53A	Sleepy Hollow Ranch	12"	Big Tujunga	6-30-37 to date
53B	Colby Ranch	9"	Big Tujunga	4-19-26 to 6-30-37
54	Loomis Ranch	12"	Big Tujunga	11-24-31 to 7- 1-37
54	Loomis Ranch	9"	Big Tujunga	7- 1-37 to date
57B-E	Opid's Camp	12"	San Gab. W. Fork	12-14-25 to date
60B	Winter Creek	12"	Big Santa Anita	12-10-35 to 10-13-37
60A	Hoegee's Camp	12"	Big Santa Anita	10-11-26 to 12-10-35 10-13-37 to date
65	Sierra Madre	9"	Rio Hondo	12- 9-27 to date
70-E	Dalton #1	9"	San Gabriel	12- 4-26 to date
75B-E	Robert's Relay Station	9"	San Gabriel	12-11-25 to 10-12-37
76B	San Gabriel Dam #1 Camp	9"	San Gabriel	11- 9-37 to 12-22-37
83-E	Big Pines Co. Park	9"	Desert	12-17-25 to date
85D	Camp Baldy Ranger Sta.	12"	San Antonio	11-11-27 to date
92	Pomona College	9"	San Antonio	12- 2-27 to date
150	Monrovia Falls	9"	Sawpit	2- 4-28 to date
158	Tanbark Flats	12"	San Dimas	1-16-29 to date
159	Orchard Camp	9"	Sierra Madre	11-12-28 to 3-19-38
178	Azusa	9"	San Gabriel	1- 1-31 to date
210B	Brand Park	9"	L. A. River	12-27-28 to date
213	Hancock Park	9"	Ballona	1-13-29 to date
228B	Beverly Hills	9"	Ballona Private	10-14-31 to date
235	Henninger Flats	9"	Eaton Canyon	12-30-29 to date
257	Griffith Park Nursery	9"	Ballona	9-19-30 to date
259B	Chatsworth Patrol Sta.	9"	L. A. River	8-17-37 to date
261-E	Acton	9"	Santa Clara	11-27-30 to date
280	Flintridge Fire Sta.	9"	Arroyo Seco	7-26-30 to date
283a	Crystal Lake	12"	San Gabriel N.Fork	11-26-35 to date
289	Laguna Bell	12"	Rio Hondo-Private	10- 6-30 to date
290	Newmark	12"	L. A. River-Private	10-6-30 to date
291	96th St. & Central	12"	L. A. River-Private	10-6-30 to date
303	Cal. Tech.	9"	Alhambra Wash	12-13-30 to date
311a	Sunset Res. Pasadena	9"	Arroyo Seco	10-23-34 to 9-14-38
334-E	San Gab. Dam #2	9"	San Gab. W. Fork	1-14-32 to date
338	Mt. Wilson	12"	Various	3- 9-32 to date
348B	Honor Camp #4	12"	San Gab. E. Fork	4- 8-37 to 5-11-38
348C	Honor Camp #4	12"	San Gab. E. Fork	5-11-38 to date

TABLE III

ACTIVE AUTOMATIC RAIN GAGES (Con't.)

F.C. No.	Name of Station	Size	Watershed	Period of Record
352	Lechuza Patrol Sta.	9"	Arroyo Sequis and Trancas	11-28-34 to date
356	Diamond Bar Ranch #2	9"	San Jose Creek	3-30-38 to date
365	Sister Elsie Peak	9"	Big Tujunga, etc.	1- 7-33 to 10-29-36
367	Upper Haines Canyon	9"	Big Tujunga	1-13-33 to date
373	Brigg's Terrace	9"	Verdugo	11-21-33 to date
376	Little Rock	Spcl	Juniper Hills	5-10-34 to 11-21-38
380	El Sereno	9"	L. A. River	11- 5-34 to date
400	Pasadena	9"	Rio Hondo-Private	10-15-33 to 9-16-38
402B	State Prison Camp #35	12"	Big Tujunga & W. Fork-San Gab.	11- 8-37 to date
415	Signal Hill City Hall	9"	Ocean	3-15-37 to date
418	Pickens Canyon	9"	Verdugo	10- 6-36 to date
419	Mt. Gleason	30"	Pacoima	9-21-37 to date
425	San Gab. Dam #1	9"	San Gabriel	10-12-37 to 11- 9-37
425	San Gab. Dam #1	12"	San Gabriel	11- 9-37 to date
433	Altadena Co. Forestry Pk	9"	Arroyo Seco	9-14-38 to date
508	Arroyo Seco Rgr. Station	9"	Arroyo Seco	10-23-34 to 10-27-37
577	U.S.W.B. - L. A.	12"	L. A. River-Private	2-19-97 to date
X-1	Saddle Peak Fire Area	9"	Topanga Canyon	11-13-36 to 9-29-37
X-2	Rossmoyne Fire Area	9"	Verdugo	12-22-37 to 5-24-38

The District also has records of 27 automatic gages at stations which are now inactive. These records are available in our files.

NOTE: All 9" and 12" gages are Fergusson Recording Rain and Snow Gages. The 30" gage is a Friez Special which records both rain and snow. The U.S.W.B. gage at Los Angeles is a Friez Tipping Bucket Gage. The special gage was constructed by the District using a Stevens L. Water Stage Recorder.

SUMMARY OF SEASONAL PRECIPITATION:

I. Flood of March 2, 1938:

The outstanding storm during the seasons 1936-37 and 1937-38 occurred between February 27, 1938 and March 3, 1938, causing a flood on March 2, 1938.

The total rainfall during the storm varied from seven inches near the ocean at Long Beach to a maximum of thrity inches on the face of the San Gabriel mountains and decreased to about four inches in the desert near Lancaster. As far as records are available, this storm total about equalled the rainfall during the storm of December, 1922, and exceeded all other storms during known flood periods for which records are available (See Table IV). As an average, the maximum day's rainfall had a probable recurrence frequency of sixty-five years.

The rainfall intensities for time periods less than two hours were smaller than might be expected for a storm of this magnitude and have been exceeded during lesser storms. The longer time periods, however, registered intensities which have not in general been exceeded in previous storms of record. This fact coupled with the already saturated condition due to two days of fairly heavy rain, caused a flood on March 2, with a toll of known dead of 113 persons and an estimated damage amounting to forty-five million dollars.

II. Comparison of Mountain and Valley Rainfall:

Los Angeles County as a whole received the same amount of rainfall in the season 1936-37 as in 1937-38 i.e., 151 percent of the 66 year normal seasonal rainfall.

The distribution of monthly rainfall for the season 1936-37 was fairly general throughout the season both in the valley and mountain areas. The heaviest monthly rainfall occurred in the following order, December, February, March and October.

The season 1937-38 differed considerably from the preceeding season in that practically no rain fell during October and November while approximately 75 percent of the entire seasonal rainfall occurred in two months, February and March. This condition was primarily due to the heavy storm of February 27 and 28 and March 1, 2 and 3, 1938, a storm which caused one of the largest floods in the history of Southern California. Both the valley and mountain areas received similar distribution throughout the whole season.

(a) Table of Comparative Rainfall

For a comparison with the record of the Los Angeles station which reflects typically the valley type of rainfall, the following table is added to show some long time stations in the mountains, foothill and coastal areas:

Station	Elev.	Yr. of Record	66 Yr. Normal Inches	1936 1937 Inches	% of Normal	1937 1938 Inches	% of Normal
Los Angeles (USWB)	417	66	15.45	22.35	145	23.44	152
Opid's Camp	4350	21	42.15	57.66	137	66.65	158
Hoegee's Camp	2750	13	44.59	59.29	133	67.16	151
Colby's Ranch	2950	41	30.89	39.48	128	41.14	133
Mount Wilson	5850	34	31.69	53.21	168	58.89	186
Mouth of San Antonio Cn.	2500	34	26.95	41.94	156	43.54	162
Pasadena	865	66	19.94	30.96	155	32.04	161
Long Beach	30	44	13.08	19.06	146	16.96	130

(b) Comparison of Precipitation by Areas

The following table compares precipitation by areas using averages of a number of stations. Stations used are identical with those used in similar tables in previous reports:

Section	No. of Sta. Used	Ave.66 Yr. Normal Inches	Season 1936-37 Ave.Amt. Inches	Season 1936-37 %66 Yr. Normal	Season 1937-38 Ave.Amt. Inches	Season 1937-38 %66 Yr. Normal
San Gabriel Mts.	18	29.78	43.84	147	47.91	161
Valley (and Coastal Plain)	24	17.35	26.37	152	26.12	151
Santa Monica Mts.	14	19.91	28.84	145	31.72	159
Desert Side - Area No. of San Gabriel Mountains	8	14.79	20.13	136	20.23	137

(c) Number of Days Rainfall .01 Inch or More

Another comparison of mountain and valley areas is had in the number of days in which .01 inch or more occurred. The following stations are representative of each area:

	1936-37	1937-38
Los Angeles (USWB)	43 days	47 days
Opid's Camp	47 days	53 days

(d) Graph showing comparison of daily rainfall amounts for mountain and valley areas, (See Chart I)

(e) Maximum Rainfall

The following table presents maximum rainfall amounts in Los Angeles County for the period of this report, (using the standard gage readings).

Station	Season 1936-37 Max. Seasonal	Max. Day	Date	Season 1937-38 Max. Seasonal	Max. Day	Date
Valley Forge	62.89					
Winter Creek		5.58	2-14-37			
Hoegee's Camp				67.16		
Opid's Camp					15.28* 5 P.M.	3-2-38
Kelly's Kamp***	65.57			81.66	17.55** 5 P.M.	3-2-38

* 5 P.M. reading is interpolated from automatic gage.
** 5 P.M. reading is interpolated from automatic gage. at Camp Baldy.
*** Adjacent to County - San Antonio Canyon.

(f) Comparison of Storm Rainfall During Known Flood Periods for Selected Stations (See Table IV)

(g) Comparative Maximum Rainfall Intensities

The following table shows a comparison of maximum intensities for nine representative stations in the District during the Seasons 1936-37, 1937-38. The March 2, 1938 storm intensities and maximum intensities for period of record are also included for comparison (See Table V).

(h) Mass Curves of Rainfall - March, 1938 Flood (See Chart II)

III. SUMMARY OF SNOWFALL:

Snowfall at five high mountain points is shown as follows:

Sta. No.	Location	Elev.	Season 1936-37 Amt. in Inches	Season 1937-38 Amt. in Inches
82	Table Mountain	7500 ft.	106	90
83	Big Pines Rec. Camp	6860 ft.	197	91
283a	Crystal Lake-E. Pine	5740 ft.	142	40
308	Kelly's Kamp	8300 ft.	152 Inc.	107
419	Mt. Gleason (Santa Clara Ridge)	5450 ft.	(Not installed)	7

It is of interest to note that the snow pack at certain points in the San Gabriel Mountains has averaged 40 percent water content based on spring measurements of recent years.

COOPERATION (of Rainfall Observers):

Rainfall observers have freely cooperated with the District in the collection of these data, as attested by the fact that 27 percent of all gages are privately owned, and the remaining District owned gages are, with few exceptions, operated by private individuals without compensation. Yet, 95 percent of all records sent in are complete for the season.

Personal contact with the various observers on our annual inspection trips has indicated an ever increasing interest in rainfall. This is fortunate for the District as an interested observer tends to keep more accurate records and is more prompt in reporting.

Cooperation from various agencies, having one to a number of stations in the County, has made it possible for the District to obtain a considerable number of records with a minimum of time spent.

CHART I

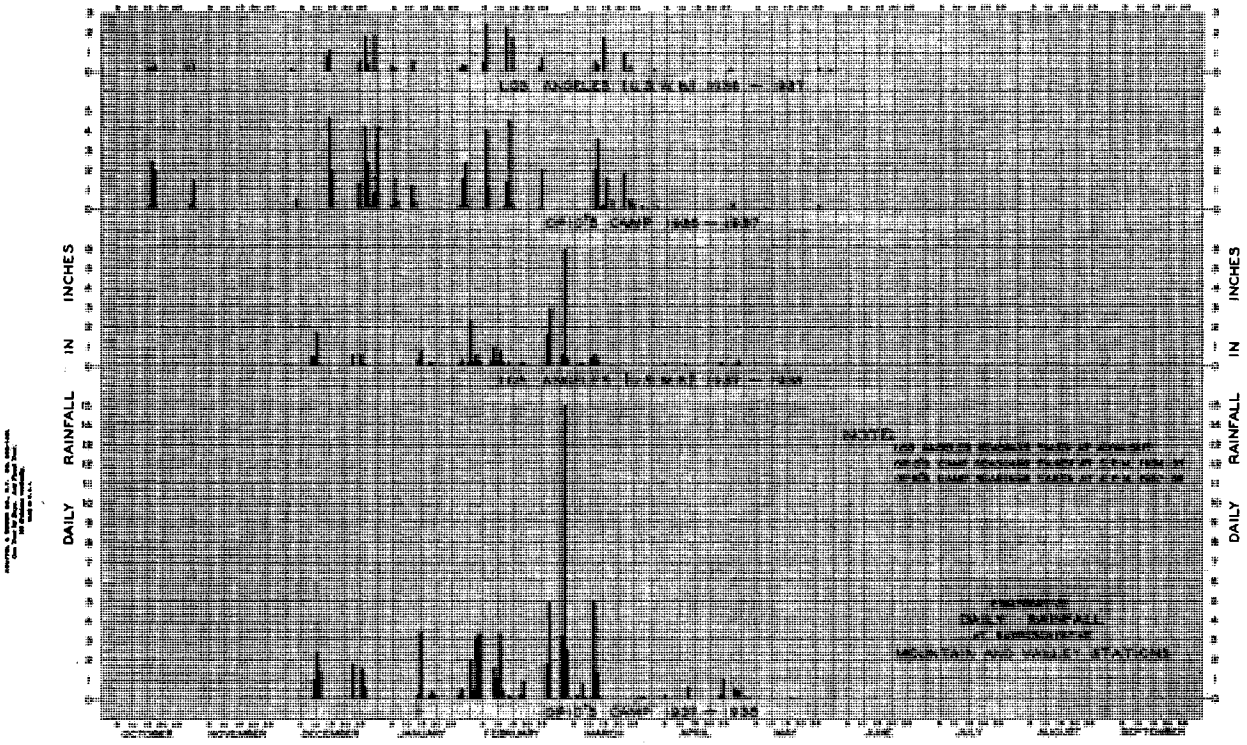


CHART II

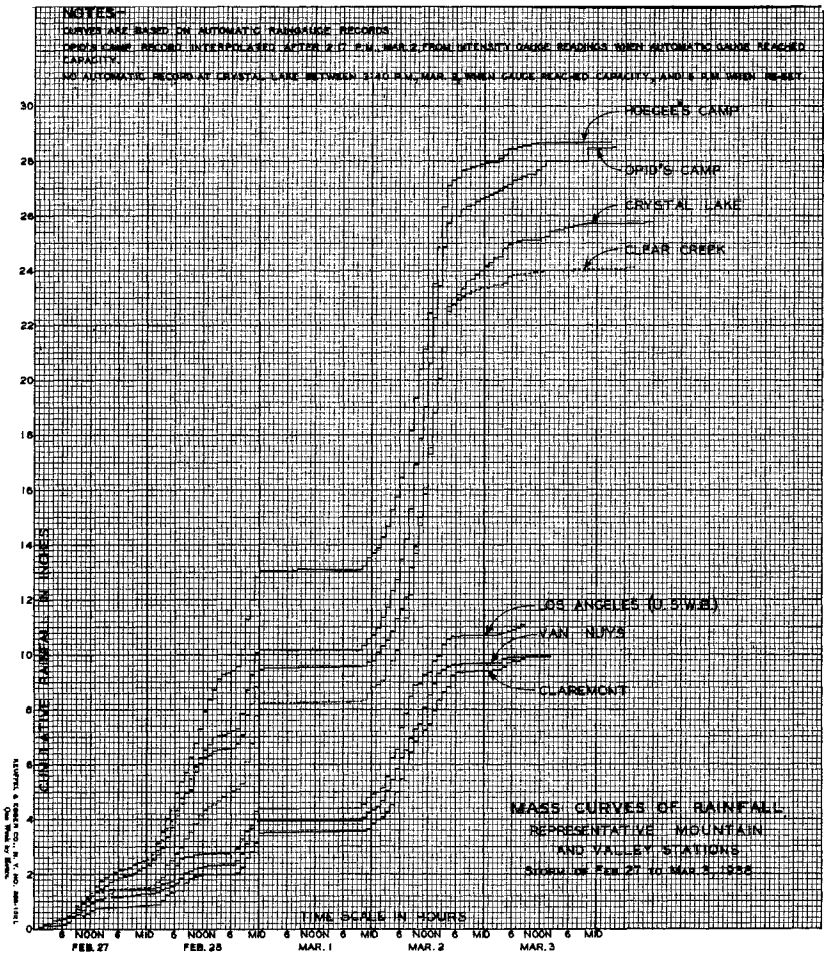


TABLE IV.

COMPARISON OF STORM RAINFALL DURING KNOWN FLOOD PERIODS FOR SELECTED STATIONS

Sta. No.	Station		2/27-3/4/38	12/29-1/2/34	2/12-16/'27	4/4-8/26	12/17-23 '21	1/14-19 '16	2/18-21 '14	12/22-26 '89	2/14-18 '84
577	L. A. U.S.W.B.	Max. day	5.88	4.86	2.40	2.74	2.12	4.16	4.26	2.72	2.18
		Storm total	11.06	8.27	6.38	7.34	5.72	6.90	7.04	7.05	5.70
594	Newhall	Max. day	5.38	5.55	3.63	3.11	6.02	Missing	2.87	-	-
		Storm total	10.75	8.21	9.79	8.25	13.45		9.02	-	-
185	Glendora	Max. day	6.70	8.20	5.42	5.77	3.50	5.80	6.75	4.05	3.25
		Storm total	13.72	16.24	11.09	10.20	9.23	14.02	13.05	8.07	10.23
224	Long Beach	Max. day	3.70	2.32	3.17	3.09	1.81	1.38	1.24	-	-
		Storm total	7.29	3.94	5.14	4.85	3.98	4.95	3.24	-	-
53	Colby's Rch.	Max. day	10.95	8.01	7.24	8.26	Missing	Missing	Missing	-	-
		Storm total	18.81	11.64	16.28	23.21	29.00	18.50	22.50	-	-
75	San Gabriel	Max. day	9.90(Daml)	7.62	8.15	6.60	15.46	Missing	7.55	-	-
	Intake	Storm Tot.(Daml)	19.82	13.31	16.30	13.01	25.08	Missing	14.24	inc.-	-
590	Mt. Wilson	Max. day	12.57	9.40	5.89	6.80	11.00	6.38	6.38	7.93	-
		Storm total	26.23	15.48	14.46	14.62	23.03	13.40	19.40	13.86	-
587	Mo. San Antonio	Max. day	7.96	5.04	7.23	4.68	4.18	-	-	-	-
		Storm total	16.84	9.79	11.43	9.81	14.06	-	-	-	-
57	Opid's Camp	Max. day	15.28	9.10	7.89	12.52	Missing	-	-	-	-
		Storm total	27.27	17.93	19.39	24.16	29.60 inc.	-	-	-	-
Average percentage values of 1938 storm		Max. day	100	80	68	68	78	62	65	56	43
		Storm total	100	71	74	74	95	76	79	58	63

NOTE: - Maximum values for each station are underscored.
Maximum day values are as recorded by observer.

TABLE V.

COMPARATIVE MAXIMUM RAINFALL INTENSITIES IN INCHES

		5 min.	10 min.	15 min.	30 min.	60 min.	120 min.	300 min.	24 hrs.	Storm
Sta. No. 577										
Los Angeles	Amt.	.20	.25	.29	.43	.63	.97	1.62	1.96	3.96
(USWB) 1936-37	Date	12-30-36	12-30-36	12-30-36	12-30-36	3-15-37	3-15-37	3-15-37	12-27,28-36	2-13,14-37
	Amt.	.21	.33	.43	.66	.90	1.44	3.06	6.28	6.66
1937-38	Date	12-17-37 2-28-38	2-28-38	2-28-38	3-2-38	3-2-38	3-2-38	3-2-38	3-1,2-38	3-1,2-38
Max. of Record	Amt.	.42	.65	.70	1.14	1.51	1.99	3.06	7.36	8.27
	Date	1-14-08	2-18-14	2-18-14	2-18-14	2-18-14	2-18-14	3-2-38	12-31-33 1-1-34	12-31-33 1-1-34
Sta. No. 15										
Van Nuys Whse.	Amt.	.14	.18	.22	.39	.62	1.17	1.96	2.48	2.73
1936-37	Date	12-27-36	12-27-36	12-27-36	12-27-36	12-27-36	12-27-36	12-27-36	12-27,28-36	12-27,28-36
	Amt.	.13	.22	.32	.47	.79	1.07	2.05	5.64	5.95
1937-38	Date	3-2-38	3-2-38	3-2-38	2-28-38	3-2-38	3-2-38	3-2-38	3-1,2-38	3-1,2,3-38
Max. of Record	Amt.	.24	.31		.55	.82	1.27		6.94	7.85
	Date	2-24-31	2-3-31		1-5-35	2-3-31	2-3-31		12-31-33 1-1-34	12-30,31-33 1-1-34
Sta. No. 178										
Azusa-Griffith	Amt.	.14	.21	.24	.44	.56	.84	1.46	3.64	3.70
1936-37	Date	12-30,31 -36	3-22-37	3-22-37	10-29-36	10-29-36	2-6-37	12-30,31 -36	2-5,6-37 6.10	2-5,6-37
	Amt.	.31	.44	.53	.72	.92	1.38	2.58	3-1,2,-38	6.77
1937-38	Date	2-28-38	2-28-38	2-28-38	2-28-38	2-28-3-1 -38	3-2-38	3-2-38		2-1,2,3-38
Max. of Record	Amt.	.31	.44		.77	1.10	1.73		8.27	12.02
	Date	2-28-38	2-28-38		10-17-34	10-17-34	12-31-33 1-1-34		12-31-33 1-1-34	12-31-33 1-1-34

TABLE V.

COMPARATIVE MAXIMUM RAINFALL INTENSITIES IN INCHES

		5 min.	10 min.	15 min.	30 min.	60 min.	120 min.	300 min.	24 hrs.	Storm
Sta. No. 75B-E										
Roberts Rel. Sta.	Amt.	.28	.49	.56	.66	.94	1.75	2.52	4.34	4.73
1936-37	Date	3-16-37	3-16-37	3-16-37	3-16-37	12-27-36	12-27-36	12-27-36	2-13,14-37	2-13,14-37
San Gab. Dam #1	Amt.	.18	.26	.35	.60	1.03	1.76	4.14	10.37	11.43
Sta. 1937-38	Date	3-2-38	3-2-38	2-28-38	2-28-38	3-2-38	3-2-38	3-2-38	3-1,2-38	3-1,2,3,4 -38
#425				3-2-38	3-2-38					
Max. of Record	Amt.	.60	.62		1.04	1.18	1.76		10.37	12.07
	Date	4-5-26	4-5-26		4-5-26	4-5-26	3-2-38		3-1,2-38	4-4,8-26
Sta. No. 261										
Acton-Mellen	Amt.	.10	.12	.13	.16	.25	.45	.69	1.69	1.69
1936-37	Date	5-26-37	5-26-37	5-26-37	12-25-36	1-30-37	2-6-37	2-6-37	12-27,28-36	12-27,28-36
	Amt.	.15	.19	.22	.29	.42	.66	1.56	3.00	3.59
1937-38	Date	2-28-38	2-28-38	2-28-38	2-28-38	2-28-38	3-2-38	3-2-38	3-1,2-38	3-1,2,3,4, -38
Max. of Record	Amt.	.29	.41		.66	.72°			3.00	3.59
	Date	8-26-35	8-26-35		10-1-32	10-1-32 °Standard Gage			3-1,2-38	3,1,2,3,4, -38
Sta. No. 6										
Topanga Canyon	Amt.	.20	.33	.38	.63	1.00	1.35	2.07	4.19	4.94
1936-37	Date	10-18-36	10-18-36	10-18-36	10-18-36	10-18-36	3-15-37	3-15-37	2-13,14-37	2-13,14,15 -37
	Amt.	.19	.32	.43	.64	1.09	2.06	3.63	6.72	6.83
1937-38	Date	2-28-38 3-2-38	2-11-38	2-11-38	2-11-38	3-2-38	2-13-38	2-12,13-38	3-1,2-38	3-1,2,3-38
Feb.27 to Mar. 3,	Amt.		.29	.37	.63		1.79	3.14		
1938	Date		2-28-38	3-2-38	2-28-38		3-2-38	3-2-38		
Max. of Record	Amt.	.28	.42		1.12	1.52	2.72		13.44	16.03
	Date	1-5-35	2-12-36		2-22-36	12-31-33	12-31-33		12-31-33	12-29-33 1-1-34
Sta. No. 92										
Pomona College	Amt.	.17	.24	.30	.42	.64	.89	1.61	3.63	3.77
1936-37	Date	3-16-37	12-27-36	12-27-36	3-15-37	3-15-37	12-27-36	2-6-37	2-5,6,-37	2-5,6-37
	Amt.	.18	.27	.32	.45	.63	.99	2.28	5.75	6.35
1937-38	Date	1-15-38 3-2-38	3-2-38	3-2-38	1-15-38	1-15-38	3-2-38	3-2-38	3-1,2-38	3-1,2,3-38
Feb.27 to Mar. 3,	Amt.				.39	.53				
1938	Date				3-2-38	3-2-38				
Max. of Record	Amt.	.23	.29		.58	.92	1.47		7.86	8.87
	Date	10-17-34	10-17-34		10-17-34	1-1-34	1-1-34		12-31-33 1-1-34	12-31-33 1-1-34
Sta. No. 57B-E										
Opid's Camp	Amt.	.22	.27	.33	.56	.84	1.53	3.14	5.36	6.53
1936-37	Date	2-6-37	10-18-36	10-18-36	10-18-36	10-18-36	12-27-36	12-30-36	2-13,14-37	12-15,16-36
	Amt.	.42	.62	.82	1.20	1.82	3.04	7.60	15.96 Auto.	17-38 Std.
1937-38	Date	3-12-38	3-2-38	3-2-38	3-2-38	3-2-38	3-2-38	3-2-38	3-1-2-38	3-1,2,3,4 -38
Max. of Record	Amt.	1.17	1.18	1.18	1.52	2.21	3.40	7.60	15.96	21.34
	Date	4-5-26	4-5-26 .38 inches in 5 minutes on March 2, 1938.	4-5-26 1.03 inches in 1 minute 4:48 A.M. to 4:49 A.M. April 5, 1926.	4-5-26	4-5-26	4-5-26	3-2-38	3-1,2-38	4-4-26 4-8-26
Sta. No. 60B										
Winter Creek	Amt.	.43	.57	.69	.91	1.34	1.90	3.77	5.34	6.28
1936-37	Date	12-27-36	12-27-36	12-27-36	10-18-36	12-27-36	12-27-36	12-27-36	12,14,15-36	12,14,15, 16-36
Sta. No. 60A										
Hoegee's Camp	Amt.	.30	.43	.57	.83	1.58	2.88	6.29	14.76 Auto.	16.49 Std.
1937-38	Date	3-2-38	3-2-38	3-2-38	3-2-38	3-2-38	3-2-38	3-2-38	3-1,2-38	3-1,2-3-4 -38
Max. of Record	Amt.	.43	.57		.91	1.58	2.88		14.76	17.07
	Date	12-27-36	12-27-36		10-18-36	3-2-38	3-2-38		3-1,2-38	12-30-33 1-1-34

TABLE VI

1936-37 MONTHLY RAINFALL SUMMARY

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
2	Escondido Patrol	3.52	0	4.82	3.05	9.56	3.72	.21	.19	0	T	0	T	25.07
3	Seminole Hot Springs	4.15	.04*	9.17	3.98	7.73	5.40	0	0	0	0	0	T	30.50
4	Crags Country Club	3.94	.04	7.12	4.48	7.52	5.36	0	.18	0	0	0	0	28.64
5	Calabasas	2.42	.05	6.91	3.32	5.44	4.70	.19	.13	0	0	0	0	23.16
6	Topanga Canyon	4.28	.02	9.22	4.70	9.14	6.16	.16	.28	0	0	0	0	33.96
70	Bel Air Bay Club	1.77	.22	4.38	2.43	7.14	3.71	.16	.23	0	0	0	0	20.04
8	Mandeville Canyon	2.32	.06	7.08	3.17	10.42	4.67	.23	.13	0	0	0	0	28.08
9	Sepulveda & Chase	1.71	.02	6.23	2.89	6.68	4.79	.40	.21	0	0	0	0	22.93
10	Bel-Air	2.31	.08	7.67	3.11	8.94	4.91	.27	.22	0	0	0	0	27.51
11	Upper Franklin Canyon	2.15	.06	7.62	3.29	8.59	5.05	.32	.26	0	0	0	0	27.34
12	Franklin-Mulholland Fire Sta.	1.70	.03	8.00	2.56	8.58	5.24	.17	.30	0	T	0	0	26.58
13	No. Hollywood-Blix	1.62	.02	7.75	2.69	6.77	4.60	.17	.20	0	0	0	0	23.82
14	Roscoe-Merrill	1.48	.02	6.58	2.68	5.62	4.53	.13	.05	0	0	0	0	21.09
15	Van Nuys City Warehouse	1.63	.04	6.95	2.73	5.75	4.37	.30	.19	0	0	0	0	21.96
16B	Cahuenga Park	2.48			No Records Taken									Inc.
17	Patrol #2 Sepulveda Canyon	2.93	0	9.06	4.25	7.75	5.01	.08	.30	0	0	0	0	29.38
18	Adohr Dairy	2.13	0	8.01	3.09	5.99	5.26	.20	.10	0	0	0	0	24.78
19	Topanga Summit	2.95	.04	7.53	3.19	5.32	5.12	.08	.13	0	0	0	.01	24.37
20	Girard	2.50	.05	7.70	3.15	5.46	4.92	.17	.16	0	0	0	T	24.11
21	Brant Ranch	2.40	0	5.99	3.00	5.41	4.60	.10	.13	0	0	0	0	21.63
22	Johnson-Wood. Ranch Bell Cn.	2.32	0	6.49	3.03	6.37	4.48	.30	.21	0	0	0	0	23.20
23E	Chatsworth Res.	2.35	T	6.25	2.69	6.82	4.11	.30	.21	0	T	0	T	22.73
24B	Chatsworth	2.25	0	5.96	2.77	6.29	4.31	.37	.06	0	0	0	0	22.01
25	No. L. A. - Andrews	1.86	0	5.44	2.90	6.31	4.03	.33	.18	0	0	0	0	21.05
27	W. D. Miller Ranch	1.56	0	5.25	3.32	6.08	3.90	.42	.15	0	0	0	0	20.68
28	San Fernando-Lemon Growers Ass'n.	1.50	.04	6.38	3.29	6.70	4.88	.53	.33	0	0	0	.03	23.65
29	Granada	1.80	0	6.38	3.19	8.19	4.37	.53	.25	0	0	0*	.03*	24.74
30	Sylmar	1.81	0	6.89	3.52	7.33	4.78	.61	.35	0	0	0	0	25.32
32E	Newhall	2.09	.01	9.22	2.85	5.79	5.25	.18	.28	0	T	0	T	25.67
33AE	Pacoima Dam	2.01	.06	8.55	4.27	8.02	4.83	.58	1.02	.05	.01	0	T	29.40
34	Dillons Ranch	2.52	.02	10.69	5.30	9.30	5.52	.60	.80	.03	T	0	T	34.78
38	Chappell Ranch	1.56	.05	6.79	3.10	6.19	4.31	.56	.16	0	0	0	0	22.72
39	Sunset Cn. above Count. Club	2.20	.02	8.09	3.01	5.88	5.24	.29	.82	.02*	0	0	0	26.57
42	Redondo City Hall	1.86	.09	4.43	1.88	5.16	2.91	.42	.19	0	0	0	0	16.94
43a	Palos Verdes (Admin. Bldg.)	1.74	.11	4.15	1.81	7.28	2.80	.23	.22	.02	0	0	0	18.36
43b	Palos Verdes (Golf Club)	2.02	.26	4.24	1.84	7.84	2.93	.20	.20	0	0	0	0	19.53
44	Pt. Vincente Light House	1.39	.02	3.78	1.16	9.16	2.21	.25	.19	0	0	0	0	18.18
46BE	Big Tujunga Dam	4.02	0	15.58	5.75	9.35	7.89	.28	.36	0	0	0	0	43.25
47A	Clear Creek	5.00	.10	15.80	6.70	11.04	9.60	.36	.34	0	T	0	0	48.94
48	Oak Wild	4.23	.05	13.04	5.60	9.48	6.01	.65	.82	0	0	0	0	39.68
49	Altadena Chiesa	3.17	.10	9.95	3.39	8.13	6.01	.23	.84	.13	T	0	T	31.95
50B	Arroyo Seco Patrol	3.06	.17	9.43	3.26	8.64	5.97	.23	.64	T	0	0	0	31.40
51	Little Cienega (Headlee)	3.11	.65	16.43	6.40	11.15	11.08	.49	.92	0	0	0	.08	50.31
52	Switzer's Camp	4.68	.02	12.60	6.44	9.66	9.34+	.33*	.18*	0	0	0	.13	43.38
53A	Sleepy Hollow Ranch	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	0	0	.24	Inc.
		Sta. #53A re-established 6-30-37												
53B	Colby Ranch Sleepy Hollow	2.54	.05	13.70	4.85	8.09	9.40	.44	.25	0	0	0	.16	39.48
54	Loomis Ranch (Alder Cr.)	3.04	.42	8.52	3.07	6.16	6.54	.49	.45	.04	.05	T	.21	29.03
56	Valley Forge Lodge	4.95	.60	20.38	8.38	12.36	14.40	.50	1.30	0	0	0	0	62.89
57BE	Opid's Camp	6.12	.02	19.69	7.53	13.26	10.53	.33	.18	0	0	0	0	57.66
58	Sturtevant Camp	6.11	.15	17.07	8.52	14.79	10.61	.65	.30	0	0	0	0	58.30
60B	Winter Creek	6.03	.11	19.23	7.78	15.09	9.80	.43	.82	0	0	0	0	59.29
62	Santa Anita Ranger Station	5.33	.10	16.38	5.32	12.83	7.28	.38	.87	0	0	0	0	48.49
63BE	Santa Anita Dam	3.83	.14	10.90	3.56	10.29	6.01	.36	.93	.24	T	0	0	36.26
64	Clark's Half Way House	3.87	.11	11.25	3.77	9.16+	7.62	.42	.66	0	0	0	0	36.86
65	Sierra Madre-Hersey	3.57	.12	12.01	3.77	9.76	6.35	.58	.97	.22	.30	0	0	37.65
66	Sierra Madre-Pegler Ranch	3.32	.20	11.19	4.18	9.49	5.98	.45*	.75*	.16*	0	0	0	35.69
67B	Monrovia City Hall	4.42	.12	8.43	2.81	8.60	4.91	.49	.28	.08	T	0	0	30.14
68B	Sawpit Dam	4.09	.15	10.11	3.29	8.65	5.98	.43	1.12	.18	0	0	0	34.00
69	Sawpit Canyon	4.42	.06	13.39	4.77	12.53	7.16	.48	1.17	.26	0	0	0	44.24
70E	Dalton #1	2.71	.13	10.43	3.78	10.12	6.10	.57	.32	.36	0	0	0	34.52
73	GlendoraEnglewild	2.64	.19	10.90	3.58	10.47	6.04	.75	.92	.14	0	0	0	35.63
75BE	Roberts Relay Station	3.10	.07	14.92	5.89	10.82	9.31	.54	.24	.01	0	0	0	44.70
76	San Gabriel Forks	2.87	.20	14.50	6.28	10.02	9.48	.36	.26	0	0	0	0	43.97
78	Goldbrook Camp	2.97	.44	15.72	4.61	11.09	10.06	.35+	.40	0	0	.07	.12	45.69
80	Prairie Forks	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	.20	.40	0	.07	.12	.25	Inc.
82	Table Mountain	1.70	.68	4.75	1.93	3.96	2.95	.06	.31	T	.18	.02	T	16.54
83E	Big Pines Camp	2.90	.90	10.03	5.66	7.81	7.44	.25	.28	T	.13	T	T	35.40
85D	Camp Baldy Ranger Station)			Sta. #85C moved to "D" location 1-26-37										
85C	Bear Canyon Resort)	6.30	1.80	16.55	5.83	10.57	11.04	.32	.26	0	0	0	0	52.67
87	San Dimas Ranger Station	2.38	.17	9.63	3.13	8.15	4.98	.84	.48	0	0	0	0	31.76
88	Wolfskill Falls	3.01	.27	5.73	2.37	10.72	7.75	1.06	.81	0	0	0	0	34.72
89E	San Dimas Dam	2.63	.30	10.76	4.20	10.53	6.50	.88	.47	0	0	0	0	36.27
90	Brydon's Ranch	2.12	.29	10.29	4.12	9.82	7.67	.75	.59	0	0	0	0	35.65

NOTE: Amounts shown are in inches depth of Rainfall.

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
91	Claremont-Indian Hill	2.38	.32	8.76	3.19	9.49	5.39	.99	.64	T	0	0	0	31.76
92	Pomona College	2.31	.45	8.52	2.87	8.92	5.74	.72	.55	0	T	0	0	30.08
93	Claremont Fire Station	2.18	.45	8.37	3.09	9.21	6.08	.74	.60	.06	0	0	0	30.78
94	Charter Oak-Fields	2.42	.30	8.56	2.92	7.66	5.84	.66	.36	0	0	0	0	28.72
95	San Dimas-Fire Warden	2.16	.30	8.85	2.90	9.49	6.37	.68	.61	.09	0	0	0	31.45
96E	Puddingstone Dam	1.78	.24	7.67	2.84	8.90	5.06	.80	.37	.05	0	0	0	27.71
97	San Dimas-Ferguson	2.41	.42	8.36	3.94	9.49	6.28	.56	.84	0	0	0	0	31.00
98	Azusa-Hibsch	2.49	.09	9.71	3.03	9.20	6.02	.71	.45	.06	0	0	0	29.76
99	Azusa-Foothill Ranch	2.81	.29	9.50	3.19	9.50	5.48	.76	.47	.08	0	0	0	32.08
100	Fish Canyon	3.55	.11	11.54	4.14	11.66	7.42	.26	.61	.09	0	0	0	39.38
101	Hurst Ranch, Covina	2.02	.21	7.70	2.63	8.41	4.97	.64	.11	0	0	0	0	26.69
102	Howell Ranch - Walnut	1.36	.24	7.39	3.01	9.37	4.58	.29	.14	0	0	0	0	26.38
104	No. Whittier-Cole Ranch	1.69	.17	8.29	2.93	9.94	5.03	.40	0	0	0	0	0*	28.45
105	E. Whittier-Sharpless	1.37	.25	6.29	2.10	9.86	3.38	.33	.16	0	0	0	0	23.74
106	Whittier-City Hall	1.32	.20	5.21	1.91	8.73	3.52	.38	.10	0	0	0	0	21.40
107A	Downey	1.44	.21	4.94	2.17+	9.24	3.32	.45	.34	0	0	0	0	22.11
107B	Downey	Sta. #107A moved to "B" location 8-1-37.												
108B	El Monte-Fire Station	2.50	.22	7.18	2.70	7.28	4.21	.46	.07	0	0	0	0	24.62
109	West Arcadia	2.36	.10	9.50	3.08	8.45	5.46	.36	.13	0	T	0	0	29.44
110	Alhambra	2.32	.12	8.39	2.77	7.81	4.94	.58	.17	0	0	0	0	27.10
111	South Pasadena	2.46	.07	8.19	2.39	7.39	4.99	.42	.02	0	T	0	0	25.93
114	Gardena-Rosecrans	1.06	.37	4.80	2.22	6.59	3.83	.50	.35	0	0	0	0	19.72
116	Inglewood High School	1.12	.28	6.09	1.93	8.35	3.23	.38	.18	0	0	0	0	21.54
117C	Compton	1.17	.22	4.23	1.76	7.86	3.17	.46	.35	0	0	0	0	18.22
118E	Wilmington	1.07	.10	4.46	1.82	8.59	2.98	.24	.14	0	0	0	0	19.40
119	Soldiers Home	2.59	.06	8.04	3.54	8.78	4.64	.25	.13	0	0	0	0	28.13
120	Vincent Patrol Station	.87	.02	4.20	.76	2.39	2.43	.09	.26	T	0	0	0	10.82
121	Lancaster	.39	.24	3.50	1.44	1.62	2.45	0	.40	0	0	0	0	10.18
122	Rouff Ranch	1.83	.04	8.06	4.02	5.40	4.80	.23	0	0	0	0	0	24.38
123	Eli Munz Ranch	1.88	0	8.40	6.16	5.83	6.02	.47	0	0	0	0	0	28.74
124B	Bouquet Canyon	1.77	.05	7.20	3.68	4.78	5.83	.25	.18	.02	.03	0	0	24.00
125	Power House #1	2.46	0	7.24	3.04	5.75	5.79	.72	.41	.10	T	0	T	26.51
126	Venice-City Yard	1.39	0	5.45	2.13	8.37	3.46	.27	.09	0	0	0	0	21.16
127	Dry Canyon Res.	1.57	.03	5.00	1.87	4.68	3.75	.19	.15	0	.11	0	0	17.35
128E	Radium Hot Springs	2.43	.22	9.52	5.27	7.63	6.38	.55	.22	0	T	0	.06	32.27
130	Sandberg	2.80	.04	5.70	2.80	3.87	6.91	.17	0	0	0	0	0	22.29
134	San Dimas-Stevens	2.13	.35	9.68	3.41	9.80	5.48	.74	.95	.17	0	0	0	32.71
135	Norwalk	1.25	.14	5.50	2.22	8.23	2.86	.39	.14	0	0	0	0	20.73
136B	Hollywood	1.40	.25	6.76	2.52	7.26	3.56	.28	0	0	0	0	0	22.43
137B	Curson Canyon	1.81	.08	7.26	3.04	7.87	4.74	.31	.51	0	0	0	0	25.62
139	L.A. 2nd & Hill-L.A.W.D.	1.52	.03	6.56	2.07	7.68	3.98	.26	.29	0	0	0	0	22.39
F.C.A.	L.A. 2nd & Broadway	1.57	.04	6.90	2.08	7.71	4.07	.27	.32	0	0	0	0	22.96
F.C.B.	L.A. 5th & Figueroa	F.C.A. moved to 5th & Figueroa Sts. 2-19-37.												
140	Sawtelle-West L. A.	2.40	.08	6.22	2.55	8.58	4.19	.25	.13	0	0	0	0	24.50
143	Azusa-C. of C.	2.35	.13	9.20	2.83	9.05	5.07	.73	.49	.06	T	0	T	29.91
144	Sierra Madre Dam	3.25	.09	11.80	3.94	9.89	6.31	.33	.85	.22	0	0	0	36.98
150	Monrovia Falls	4.29	.12+	13.08	4.52	12.13	7.02	.45	.99	.19	0	0	0	42.79
155B	Little Rock Creek	.98	.24	5.12	1.35	2.95	2.51	.15	.15	0	T	0	.30	14.05
156	La Mirada	1.16	.12	5.27	2.57	7.38	3.09	.38	.22	0	0	0	0	20.19
157E	El Segundo	1.44	.25	4.70	1.58	7.21	3.05	.43	.24	.01	0	0	0	18.91
158	Tanbark Flats	3.02	.07	14.51	5.50	10.08	8.65	.64	.81	0	0	0	0	43.28
159B	Orchard Camp	6.49	.17	16.01	5.38	13.40	8.56	.21+	.36+	.22*	0*	0*	0*	50.80
164	Monrovia-O'Connor	3.85	.13	9.26	3.21	9.17	5.69	.38	.56	.15	0	0	0	32.40
167	Arcadia Pump Plant	3.08	.08	10.13	3.12	8.80	6.21	.36	.52	.11	T	0	0	32.39
168	San Gabriel - Watts	1.86	.08	8.37	2.62	7.65	4.07	.45	.12	T	T	0	0	25.22
169	Sierra Madre-Hogan	3.22	.09	10.73	3.41	9.15	6.38	.38	.51	0	0	0	0	33.87
170	Potrero Heights	2.02	.17	6.80	2.25	7.56	4.01	.40	.04	0	0	0	0	23.25
171	Chapman Wells	2.74	.09	10.74	3.19	8.50	5.00	.41+	.32	0	0	0	0	31.99
173	San Vicente Point	No Observer Sta. Discontinued.												
174	Glendora-Warren	2.71	.28	9.40	3.62	9.67	5.58	.73	.73	.18	0	0	0	32.90
175	Alta Canyada-Williams	2.97	T	11.51	4.29	8.55	4.79	.27+	.52	0	0	0	0	32.90
176	Altadena-Rucio Cn. L&W. Ass'n.	2.94	.08	10.71	3.68	8.34	6.07	.20	.80	.07	T	0	T	32.89
177	La Canyada	2.69	T	9.20	3.40	8.29	5.35	.28+	.30	0	0	0	0	29.51
178	Azusa-Griffith	2.11	.17	7.55	2.66	8.23	4.50	.59	.21	0	0	0	0	26.12
179	Sierra Madre-Carter	3.53	.11	11.93	2.16	9.91	7.48+	.44	.98	.22	0	0	0	36.76
181	Bassett - S.P.R.R.	2.18	0	6.46+	2.73	8.13	4.19	1.05	.08	0	0	0	0*	24.81
182	Baldwin Park - Leach	2.24	.03	7.45	2.47	8.02	4.83	.57	.19	0	0	0	0	25.90
185	Glendora - West	3.03	.26	10.67	3.44	10.04	5.33	.83	.51	.12	0	0	0	34.23
187	San Dimas - Mount	2.14	.37	8.82	3.00	9.16	6.30	.67	.55	.07	0	0	0	31.08
188	San Dimas - Howard	2.07	.40	8.60	3.05	9.63	5.48	.68	.95	.19	0	0	0	31.05
189	San Dimas - Harris	2.41	.43	8.86	3.04	9.30	6.53	.65	.72	.07*	0	0	0	32.01
192B	Bell Fire Department	1.36	.28	5.21	2.08	7.91	3.93	.30	.46	0	0	0	0	21.33
193	Covina - Temple	1.66	.24	7.18	2.68	8.65	4.47	.59	.16	.01	0	0	0	25.64
196	LaVerne Leader	2.15	.35	8.09	2.65	9.82	5.52	.75	.43	.04	0	0	0	29.80
198	Brand Estate	1.71	.04	7.86	2.61	5.85	3.77	.21	.48	.03	0	0	0	22.56
199B	Huntington Park	1.18	.21	5.66	2.09	7.94	4.02	.35	.53	0	0	0	0	21.98
200	Saugus - S.C.E. Company	1.57	T	6.10	1.95	4.53	3.55	.20	.10	0	0	0	T	18.00
201	Puente Hills	1.69	.20	8.56	2.52	10.10	4.62	.48	0	0	0	0	0	28.17
203	Whittier - S.P.R.R.	1.52	.26	5.26	2.11	7.07	3.60	.41	.10	0	0	0	0	22.33
204	Puente - S.C.E. Company	1.71	.25	8.58	2.43	7.76	4.92	.34	.03	T	0	0	0	26.02
206	Valencia Heights	1.59	.13	7.07	2.54	8.35	4.74	.24	.21	.03	0	0	0	24.93
208	Artesia - Barr Lumber Company	1.50	0	5.14	2.29	8.26	2.68	.25	.35	0	0	0	0	20.47
209	Big Tujunga Edison Patrol Sta.	3.80	T	12.80	4.79	7.90	8.13	.45	.26	0	0	0	0	38.13

TABLE VI. 1936-37 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
210B	Brand Park	2.04	.02	8.61	3.05	7.01	4.81	.31	.74	.03°	0	0	0	26.62
213	Hancock Park	1.62	.03	6.18	2.49	7.21	3.86	.24	.18	0	0	0	0	21.81
215	Bellflower	2.01	.22	2.93	1.15	7.92	3.19	.35	.48	0	0°	0°	0°	18.26
216	Glendale - Jones	1.91	.03	8.59	2.98	6.35	4.99	.18	.31	T	0	0	0	25.34
217	Watts	1.27	.18	5.29	2.31	8.21	3.78	.45	.45	0	0°	0°	0	22.14
218	Torrance - Gen. Petrol.	1.80	.32	4.71	1.89	8.07	3.35	.45	.22	0	0	0	0	20.81
219	San Fernando Ranger Station	2.12	.04	6.35	3.69	6.27	4.49	.42	.25	0	0	0	0	23.63
220	Whittier Narrows	2.07	.20	6.00	2.36	8.18	4.11	.42	.04	0	T	0	0	23.38
221	Kiener (Davis) Ranch	1.96	0	6.27	3.59	6.46	4.22	.38	0	0	0	0	0	22.88
222	Lankershim Power Plant	1.64	.02	5.86	2.38	5.25	4.35	.21	.07	0	0	0	0	19.77
223BE	Big Dalton Dam	3.75	.14	12.22	4.07	10.69	6.72	.79	1.17	.25	T	0	0	39.80
224	Long Beach-Los Alamitos Land	1.10	.07	4.08	1.41	9.66	2.51	.15	.08	0	0	0	0	19.06
225	Montana Ranch	1.26	.09	4.46	2.15	8.95	2.52	.22	.18	0	0	0	0	19.83
226	Burbank	1.76	.03	7.58	2.63	6.15	4.82	.26	.36	0	0	0	0	23.40
227B	San Gabriel - Gleason	2.17	.06	8.28	2.63	7.06	4.42	.46	.16	0	T	0	0	25.24
228B	Beverly Hills (Auto)	1.82	.06	6.92	2.38	8.16	3.88	.30	.11	T	0	0	0	23.62
230C	Live Oak Canyon	2.32	.54	9.54	3.16	9.78	6.33	.68	.84	.09	0	0	0	33.38
231B	Mt. Lowe Fox Farm	6.02	.23	11.76	5.20	9.95	7.02	.21	1.14°	0	0	0	T	41.51
233	Covina - Matthews	1.93	.22	7.11	2.86	8.39	4.35	.59°	.23	.01°	0	0	0	25.69
234	Covina - Thorpe	1.38	T	5.70	2.68	8.80	4.61	.67	.21°	.03°	0	0	0	25.06
235	Henninger Flats	5.44	.16	12.20	4.47	10.34	6.92	.32	1.49	.21	T	0	0	41.55
236	Ford Craig Ranch	1.97	0	7.81	3.84	8.08	4.81	.56	.76	0	0	0	0	27.83
237	Stone Canyon Dam	2.17	.05	8.25	3.60	9.04	5.72	.28	.32	.01	0	0	0	29.44
238	Hollywood Dam	1.79	.05	7.00	2.60	6.49	4.30	.27	.34	0	0	0	0	22.84
240	Little Tujunga	1.52	T	9.17	3.65	8.64	5.89	.56°	.20°	0	0	0	0	29.63
241	Long Beach	.98	.04	3.82	1.39	8.85	2.48	.15	.11	T	0	0	0	17.82
242	LaVerne Jones	2.36	.31	7.87	2.72	8.67	5.24	.41	.43°	.04°	0	0	0	28.05
244B	Bear Creek	3.27	.09	17.54	8.03	10.48	10.87	.29	.25	0	0	0	0	50.82
246B	Culver City	1.52	.30	5.68	2.37	6.86	3.54	.15	.17	0	0	0	0	20.49
247	Rivera	2.11	.15	5.19	2.24	8.73	3.62	.30	.48	0	0	0	0	22.88
248E	West Saddle Peak	4.78	.09	7.15	4.42	8.79	5.35	.18	.29	0	0	0	.01	31.06
249	Mint Canyon - Oaks Garage	1.42	.11	5.72	2.66	4.50	3.42	.32	.37	.08	0	0	.10	18.70
250A	Acton	1.01	.21	5.27	1.70	3.45	3.35	.11	.16	0	0	0	0	15.26
250B	Acton	Sta. #250A moved to "B" location 1-1-37.												
251	LaCrescenta	2.98	T	10.46	4.48	8.84	6.52	.36	.56	.01	T	0	0	34.21
252	Castaic	1.33	0	8.11	3.18	N.R.	4.38	.90	.10°	0	0	0	0	18.00
253	Western Ave. Tank	1.32	.18	5.18	1.97	7.91	3.35	0	.45	0	0	0	0	20.36
254	Rowlands Ranch	1.62	.15	7.60	2.53	9.16	4.71	.36°	.03°	0	0	0	0	26.16
255	State Narcotic Hospital	1.23	.11	7.46	2.36	7.58	N.R.	N.R.	N.R.	N.R	0°	0°	0	18.74
256	Pomona - S.P.R.R.	1.92	.36	7.29	2.74	8.92	7.05	.82	.16	0	0	0	0	29.26
257	Griffith Park Nursery	1.53	.05	6.22	2.45	6.54	4.45	.30	.46	0	0	0	0	22.00
258a	Griffith Park Tunnel	1.91	.04	7.22	2.48	7.19	4.53	.24	.19	0	0	0	T	23.80
258b	Griffith Park South Slope	1.99	.05	7.26	2.64	6.46	4.12	.22	.20	0	0	0	T	22.94
258c	Griffith Park North Slope	2.10	.07	8.62	3.32	7.47	4.80	.25	.27	0	0	0	T	26.90
259A	Twin Lake Park	2.69	0	6.83	3.39	8.63	6.32	0	.48	0	0	0°	0°	28.34
259B	Co. Forestry Twin Lakes	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	0	Inc.
		Sta. #259A moved to "B" location 8-17-37												
260	Monte Cristo Mines	2.87	.35	8.13	3.92	7.72	5.62	.40°	.40°	.03°	.04°	.0°	.25°	29.73
261E	Acton - Mellen	.96	.10	4.71	1.94	3.15	2.65	.30	.38	.05	T	0	0	14.24
263	Pomona-Frater	1.82	.42	7.95	3.12	8.63	6.39	.78	.16	0	0	0	0	29.27
264	Sand Canyon - Riley	2.47	0	11.21	6.28	6.83	6.32	.16	.24	0°	0°	0°	0°	33.31
265BE	Puente Hills (LaHabra Hghts.)	1.87	.19	6.99	2.99	10.34	3.70	.37	.31	T	0	0	0	26.76
266	E. Whittier-Leffingwell Rch.	1.75	.26	6.81	2.40	9.52	3.73	.34	.02	0	0	0	0	24.83
268E	Torrance-S.C.E. Company	1.28	.28	5.02	1.86	8.38	2.43	.46	.34	0	0	0	0	20.05
269	Diamond Bar Ranch #1	1.67	.23	7.88	3.02	10.73	4.53	.38	.15	0	0	0	0	28.59
270	County Farm	1.38	.32	5.07	2.05	8.54	3.44	.38	.36	0	0	0	0	21.54
271	Dominguez Hills	.83	.15	4.16	1.81	7.30	2.86	.43	.39	0	0	0	0	17.93
272	Headworks Plant	2.03	.05	8.46	2.67	6.59	4.80	.19	.13	0	0	0	0	24.92
273	San Pedro Hills	1.56	.07	4.31	2.01	9.79	2.18	.16	.22	0	0	0	T°	20.30
274	Acton - Hubbard	.83	.10	4.84	2.24	3.14	2.99	.35	.47	0	.01	0	0	14.97
275	San Marino	2.63	.09	7.08	4.89	8.09	5.62	T	.29°	0	0	0	0	28.69
277	Sawmill Mountain Ranch	3.43	0	8.62	4.21	5.24	8.50	.57	.05	T	0	0	0	30.62
278	Clark Memorial Library	1.34	.06	6.28	2.27	7.84	3.93	.30	.12	0	0	0	T	22.14
279B	Kinneloa Ranch	4.46	.10	11.44	3.85	9.93	5.91	.25	1.29	.27	0°	0°	0°	37.50
280	Flintridge Fire Station	2.68	.01	10.00	3.22	8.69	5.11	.24	.68	.02	0	0	T	30.65
283a	Crystal Lake - East	4.88	1.36	18.09	7.45	10.56	11.95	.45	.88	.03	.08	T	.59	56.32
283b	Crystal Lake - West	4.29	1.09	19.70	6.13	10.70	11.78	.45	.82	.03	.09	T	.17	55.25
284	Placerita Canyon	2.30	.05	10.65	4.80	7.50	6.30	.25	.20	0	0	0	0	32.05
285B	Mt. St. Mary's College	2.43	.05	7.64	3.50	7.98	4.93	.27	0	0	0	0	.01	26.81
286B	Cowans Ranch - Hermann	2.27+	0°	6.54+	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	0	0	0	Inc.
287	Glendora-C.M. Irr. Co. Office	2.59	.19	9.11	3.04	8.78	4.89	.68	.48	.04	0	0	0	29.80
289	Laguna Bell	1.74	.17	5.00	2.17	7.97	3.80	.32	.23	0	0	0	0	21.40
290	Newmark	1.82	.10	7.03	2.29	7.65	3.74	.39	.03	0	0	0	0	23.05
291	96th and Central	.89	.27	6.32	1.91	7.84	3.42	.31	.38	0	0	0	0	21.34
292E	Encino Res.	1.61	.06	6.99	3.15	5.04	4.75	.12	.14	0	0	0	.02	21.88
293	Lower San Fernando Res.	1.63	0	5.95	3.36	7.85	5.10	.40	.30	0	0	0	0	24.59
294	Mira Monte Res.	3.40	.14	11.72	3.88	9.75	6.46	.44	.70	.18	0	0	0	36.67
295D	Glendale-Taylor	1.92	.05	7.91	3.18	5.79	4.86	.26	.12	.02	0	0	0	24.11
297	Reeder Ranch	No Observer							Sta. Discontinued.					
298	Gorman	4.42	0	3.62	.50	3.33	5.04	T	.48	0	0	0	0	17.39
299B	Calivalli Farms	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	T	Inc.
299C	Calivalli Farms	Sta. #299B moved to "C" location 9-14-37												

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
300B	Garrapata Canyon	3.77	.07	10.42	4.38	6.96	5.80	.18	.15	0	0	0	0	31.73
303A	Cal. - Tech.	2.40	.09	8.99	2.85	7.96	5.40	.45	.29	.01	0°	0°	0°	28.44
303B	Cal. - Tech.	Sta. #303A moved to "B" location 4-5-37.												
304	Deer Park	6.20	.10	15.13	5.71	13.36	8.78	.50	.98	.13	0	0	0	50.89
305	Mason Estate (Arroyo Sequis)	4.39	T	7.00	3.37	9.30	3.99	.27	.03	0	T	0	T	28.35
306A	Steeb's Trading Post	3.72	0	4.99	Sta. #306A moved to "B" location 1-1-37.									Inc.
306B	Trancas Canyon - Steeb			2.82	9.26	3.30	.20	0	0	0	0	0	T	Inc.
308	Kelly's Kamp	6.80	.88	18.68	8.28	16.68	15.84	.41	0	0	0	0°	0°	67.57
309	Padua Hills	2.91	.51	10.71	4.08	10.38	8.14	.65	.65	0	0	0	0	38.03
311	Pasadena-Sunset Res.	2.83	.05	9.30	3.17	8.07	5.23	.26	.34	T	T	0	0	29.25
312	Glendora Irr. Co. Azusa Plt.	2.41	.26	10.10	3.11	8.97	5.51	.66	.45	0	0	0	0	31.47
314	Glendora Irr. Co. San Dimas P.	1.98	.34	8.62	2.89	9.10	5.07	.71	.58	.08	0	T	0	29.37
315	Glendora Irr. Co. H.C.Warren	2.86	.25	10.54	3.39	9.90	5.64	.72	.92	.04	0	0	0	34.26
317	Big Pines-Sawmill Flat #2	2.93	.62	9.92	4.55	7.25	7.74	.21	.32	T	.11	T	T	33.65
318	Big Pines-Jackson Lake	3.31	.94	10.91	3.54	8.48	8.38	.26	.28	T	T	T	T	36.10
319	Big Pines-Apple Tree Flat	3.42	.90	12.14	4.44	10.35	10.35	.30	.28	T	T	.19	T	42.37
320C	Sycamore Cn. - Chevy Chase	3.21	.07	9.18	3.72	8.63	N.R.	.22	N.R.	0	0	0	0	25.03
321E	Pine Canyon Patrol	1.82	.18	8.22	4.09	4.62	5.89	.50	.04	0	.03	0	.01	25.40
322	E. S. Munz Ranch	1.40	0	5.02	1.67	1.88	3.25	.21	0	0	0	0	0	13.43
325	Fish Hatchery - San Gab. Cn.	2.69	.07	13.99	7.03	10.78	9.91	N.R.	Gage Stolen					44.47
326	Santa Ynez Canyon	3.10	.39	7.93	4.36+	10.28	5.57	0	.07	0	0	0	0	31.70
334E	San Gabriel Dam #2	5.72	0	17.33	4.45	10.51	10.88	.24	.16	0	0	0	0	49.29
335B	Happy Valley	1.49	.23	7.84	2.39	10.35	5.66	.46	.06	0	0	0	0°	28.48
336	Silver Lake Res.	1.83	.05	6.15	2.23	6.62	3.91	.33	.31	0	0	0	0	21.43
338	Mt. Wilson-Standard Gage	6.44	.17	17.66	6.19	12.43	9.76	.42	.14	0	0	0	0	53.21
338	Mt. Wilson-Automatic Gage	6.53	.17	17.50	6.31	12.40	9.81	.43	.14	0	0	0	0	53.29
338	Mt. Wilson-Marvin Gage	6.23	.13	14.64+	3.85	9.78+	8.15	.30	.19	0	0	0	0	43.27
339	Walnut Fruit Grower's Ass'n.	1.22	.32	7.88	3.31	9.28	5.57	.33	.12	0	0	0	0	28.03
341	Blum Ranch	.76	.42	4.66	1.64	2.83	2.83	.11	.24	0	0	0	0	13.49
342	Upland	3.05	.52	9.11	3.78	9.48	7.13	.63	.93	0	0	0	0	34.63
343	Telegraph Road	2.04	.20	4.94	1.90	8.84	3.61	.30	.31	0	0	0	0	22.14
345	Downey #2 "Live Wire"	1.41	.37	4.37	2.14	8.79	3.32	.37	.32	0	0	0	0	21.09
347E	Baldwin Park Exp. Station	2.27	.14	7.47	2.52	8.07	5.05	.60	.19	T	T	0	T	26.31
348B	Honor Camp #4	3.57	.47	10.68	5.18	8.68	7.47	.46	.28	0	0	0	.12	36.91
349	Camp Rincon	2.70	.07	14.92	6.48	9.67	8.12	.35	.45°	0	0	0	0	42.76
351DE	Palmdale	.58	.04	4.95	1.92	2.27	2.54	.09	.33	.15	0	0	0	12.87
352	Lechuza Patrol Station	4.97	T	7.60	4.07	9.00	4.36	.18	.09	0	0	0	0	30.27
353	Duarte-Monrovia Citrus Ass'n.	4.16	.14	8.55	3.14+	9.68	5.20	.66	.32	.03	0	0	0	31.88
354B	Honor Camp #6	6.79	1.67	17.82	6.46	11.13	11.29	.48	.58	0	T	0	0	56.22
355	L. A. Junior College	1.65	T	6.24	2.50	7.12	3.89	.26	.07	0	0	0	0	21.73
356	Diamond Bar Ranch #2 Spadra	1.40	.22	6.72	2.76	7.85	4.65	.70	.13	0	0	0	0	24.43
357	Power House #3	1.84	0	7.55	3.85	9.22	4.79	.54	.28	0	0	0	0	28.27
358B	Aldrich Ranch	1.32	.28	6.40	1.40	3.30	2.25	.07	.26	.26	0	0	.18	18.72
360	Haines Canyon-Gravel Pit	3.35	T	9.62	3.68	8.86	6.17	.24	.57	0	T	0	T	30.49
362	El Mirador Ranch	2.75	.05	9.58	3.72	8.32	5.25	.29	.55	.02°	T	0	0	30.54
364	Lower Haines Canyon (USGS)	3.60	.01	10.96	4.13	8.22	6.94	.30	.56	0	T	0	T	34.82
361B	Angeles Crest C.C.C. Camp	2.37°		Gage Removed.										
366	Valyermo	1.23	.28	4.66	1.47	2.56	3.49	.02	.19	.20	.05	0	.16	13.71
367	Haines Canyon-Upper	4.30	.04	13.05	5.24	10.00	7.55	.31	.59	0	T	0	0	41.08
371	San Gab. Canyon - N. Fork	2.70	.06	14.79	6.70	9.52	9.47	.27	.39	T	.01	0	0	43.91
372	San Francisquito Power House#2	1.73	.12	5.74	2.69	5.60	3.12	.51	.11	0	T	0	T	21.62
373	Briggs Terrace (Pickens Cn.)	3.73	T	12.88	5.03	9.58	6.34	.31	.82	.08	0	0	0	38.77
374	Los Angeles Examiner	No Observer.												
375	Griffith Park Zoo	2.08	.03	8.72	3.51	7.80	4.99	.28	.36	0	0	0	0	27.77
376	Little Rock-Juniper Hills	1.12	.21	4.08	1.78	2.17	2.54	0	.06	0	.08	0	.12	12.16
377B	Lake Sherwood Estate	3.30	T	9.08	3.59	7.54	4.87	.14	.02	0	0	0	.02	28.66
377C	Lake Sherwood Estate	Sta. #377B moved to "C" location May, 1937.												
378	La Canyada - Hall	2.90	.13	10.31	3.71	9.10	6.02	.29	.77	.09	0	0	0	33.52
379	San Gab. Cn. East Fork	2.39	.14	13.88	5.38	9.21	9.39	.33	.29	0	.02	0	0	41.03
380	El Sereno	2.33	.05	7.58	2.32	8.06	4.09	.33	.26	0	0	0	0	25.02
381B	Santa Monica "Outlook"	1.48	.07	5.04	2.39	8.50	4.09	.23	.13	T	T	0	T	21.93
382B	Marks Pastures - Puente Hills	1.59	.29	7.35	3.14	9.16	5.14	.42	0	0	0	0	0	27.09
384A	Highland Park - Laverty	2.33	.08+	5.91	2.67	7.57	4.61	.47	.32	0	0	0	0	23.96
384B	San Rafael Hills - Laverty	Sta. #384A moved to "B" location 1-8-37.												
385	No. Whittier Heights - Smith	1.75	.20	7.38	3.19	10.09	4.59	.38	.02	0	0	0	0	27.60
386A	Vera Canyon - Roblee	5.66	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	0°	T	0	.03	Inc.
386B	Dume Canyon - Oakley	Sta. #386A moved to "B" location July, 1937.												
387	Covina City Water Dept.	1.72	.21	6.81	2.83	7.86	4.13	.56	.19	0	0	0	0	24.31
388	Hynes-Haydon	.84	.15	4.72	1.63	7.85	2.44	.38	.22	0	0	0	0	18.23
389	Glendora - Brown	2.27	.21	10.70	3.39	10.06	5.56	.80	.80	.16	T	0	0	33.95
390B	Morris Dam	3.06	.15	13.22	4.25	11.10	6.98	.49	.42	.05	0	0	0	39.73
391	Montebello - Cotton	1.39	.22	6.05	1.47	8.07	3.71	.27	0	0	0	0	0	21.18
392	Altadena - Barton	3.58	.12	9.89	3.65	8.03	6.06	.29	1.13	.16	0	0	0	32.91
393	L. A. - Casey	1.29	T	4.92	2.27	5.68+	3.16	.09	.21	0	0	0	0	18.62
394	Highland Park - Lindsay	1.59	.07	8.28	2.57	7.02	5.41	.51	.23	0	0	0	0	25.78
395	Olive View Sanatorium	1.99	.01	8.18	3.99	8.90	5.37	.50	.66	0	T	0	.08	29.78
396	Oneota Ranch - San Fernando	1.94	0	5.76	3.34	5.46	3.97	.71	.32	0	0	0	0	22.70
397	Begue Ranch - Tujunga	3.02	0	10.05	4.13	8.51	6.32	.27	.52	0	0	0	0	32.85
398	Trails Inn - San Antonio	5.15	2.50	10.90+	6.31+	N.R.	N.R.	.36	.25	T	0°	0°	0°	25.47
400	Pasadena-Wash. & Palm Terr.	2.66	.07	9.72	3.39	8.28	5.40	.28	.47	0°	0°	0°	0°	30.27
401	Verdugo Mt.	2.55	.15	8.91	3.79	7.92	5.39	.58	.56	T	T	0	0	29.86
402	State Prison Camp #31 S.G.	5.50	.09	6.48	4.82	7.89	3.47	.35	.90	0	0	0	.73	33.03
403	Altadena-Lindvall	3.96	.13	11.22	3.88	8.89	6.11	.33	1.21	.22	0	0	.0	35.95

TABLE VI (continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
404	Glendale - Opid	1.92	.04	8.79	2.94	6.49	5.15	.24	.33	.02	0	0	0	25.92
405	Soledad Canyon - Nelson	1.08	.17	7.47	3.07	3.46	4.35	.17	.18	0	0	0	0	19.95
406	West Azusa	2.57	.18	7.59	2.57	8.38	4.81	.59	.34	.05	0	0	0	26.88
407	Newhall-U.S.F.S.	2.04	.01	10.24	4.26	6.96	5.53	.41	.14	0	T	0	0	29.59
408	Soledad Canyon - Mitchell	1.09+	0	7.07	3.15	3.92	5.65	.18	0	0	0	0	0	21.06
409	Ridge Route (New) State Rd.	3.50	0	5.46	4.31	6.57	7.03	.12	0	0	0	0	0	26.99
410	Ridge Route (New) Paradise Roh	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	Inc.
411	Rivera-Pico-Robinson	1.79	.29	5.73	2.38	8.92	4.10	.37	.06	0	0	0	0	23.64
412	Pasadena-Ohio & Euclid	2.19	.04	8.44	2.77	7.44	5.18	.41	.20	0*	0*	0*	0*	26.67
413	Pasadena-Central Fire Station	2.25	.05	9.51	2.95	7.90	5.59	.29	.20	0*	0*	0*	0*	28.74
414	Pasadena-Painter Res.	2.64	.06	10.22	3.40	8.35	5.37	.27	.33	0*	0*	0*	0*	30.64
415	Signal Hill City Hall L.B.	N.I.	N.I.	N.I.	N.I.	N.I.	2.41+	.21	.15	0	.01	0	0	Inc.
				Sta. #415 was installed 3-15-37										
416	Altadena-Ventura St.	3.08	.07	10.01	3.76	8.52	5.41	.20	.80	.06	T	0	T	31.91
417	Lamanda Park - Webber	3.19	.08	10.20	3.16	8.62	5.42	.45+	.30+	0	0	0	0	31.42
418	Pickens Canyon U.S.F.S. Plots	4.61+	.10	12.27	4.91	9.70	6.40	.29	.62	T	T	0	0	38.90
421	Mouth of Lopez Canyon	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	0	0	0	Inc.
				Sta. #421 was installed July, 1937.										
427	Downey-Jordan	1.72	.27	5.32	2.29	8.62	3.59	.40	.33	0	T	0	0	22.54
508B	Arroyo Seco Ranger Station	2.99	.14	9.30	3.27	8.41	5.72	.49	.87	0	T	0	0	31.19
577	L. A. U.S.W.B.	1.25	.06	6.63	1.99	7.87	4.04	.24	.28	0	0	0	0	22.36
589	Mountain Springs	2.31	.39	9.84	3.75	9.20	5.44	.72	.73	.05	0	0	0	32.43
593B	Newhall Ranch	2.98	.08	8.05	3.03	6.10	4.94	T	.14	0	0	0	0	25.32
594	Newhall - S.F.R.R.	2.19	.01	9.60	3.13	6.36	5.89	.20	.05	0	0	0	0	27.43
612	Arroyo Seco-Chlorine Plt.	3.49	.16	9.71	3.41	8.54	5.93	.28	.84	.07	.02	0	0	32.45
618	Santa Susanna	3.38	0	5.24	2.61	6.74	4.67	.36	.09	0	0	0	0	23.09
X-1A	Red Rock Canyon (Fire Area)	4.30	.10	9.44	4.42	7.95	6.01	.19	.31*	0	0	0	0	32.72
X-1	Saddle Peak (Fire Area)	N.I.	.08	7.70	4.44	10.08	5.42	.26	.41	0	0	0	0	28.39
	Don Carlos Gag. Station	2.33	.04	8.56	3.06	6.64+	5.36	.28	.39*	T*	0	0	0	26.66

NOTE: Amounts shown are in inches depth of Rainfall.

LEGEND

Partly estimated	+
Estimated from nearby station	*
Incomplete record	'
Not installed	N.I.
No record	N.R.

TABLE VII

1937-38 MONTHLY RAINFALL SUMMARY

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total	66-Yr. Normal
2	Escondido Patrol	.01	.08	4.82	1.25	7.99	10.31	1.07	.10	0	0	0	.04	25.67	17.33
3	Seminole Hot Springs	T	0	3.95	1.03	11.62	12.22	.91	T	0	0	0	.10	29.84	20.04
4	Crags Country Club	0	T	4.58	.82	11.27	12.95	.62	0	0	0	0	.10	30.34	22.07
5	Calabasas	0	.03	2.85	.87	8.78	9.68	.63	0	0	0	0	.24	23.08	15.42
6	Topanga Canyon	T	.02	6.08	1.25	15.72	14.59	.77	0	.12	0	0	.21	38.74	24.49
7C	Bel Air Bay Club	0	0	3.89	.73	8.97	10.13	.62	0	.05	0	0	.01	24.37	14.07
8	Mandeville Canyon	0	0	5.23	1.10	12.16	12.24	.62*	0	0	0	0	T	31.35	19.24
9	Sepulveda & Chase	0	0	3.47	1.21	8.95	9.55	1.30	.09	0	0	0	.18	24.75	14.85
10	Bel Air	0	0	5.10	1.53	13.15	11.05	1.26	.02	.09	0	0	0	32.30	19.30
11	Upper Franklin Reservoir	0	0	4.47	1.22	12.07	10.00	.98	0	0	0	0	0	28.74	18.24
12	Franklin-Mulholland Fire Station #1	0	T	3.51	1.31	13.21	11.58	.78	.08	0	0	0	0	30.47	18.77
13	No. Hollywood-Blix	0	.01	3.00	1.12	10.79	11.52	.90	.10	.05	0	0	.04	27.53	16.96
14	Rosoce-Merrill	0	T	3.02	.92	7.00	9.12	1.15	.25	.08	0	0	T	21.54	14.40
15	Van Nuys-City Warehouse	0	0	2.77	1.07	8.95	10.17	.78	.09	.07	0	0	.01	23.91	14.83
16B	Cahuenga Park	0	0	4.19	1.17	11.67	8.95	.87*	0*	0*	0*	0*	.01*	26.86	18.17
17	Sepulveda Cn.-Mulholland Fire Station #2	0	0	4.37	.92	13.17	14.43	.85	.08	0	0	0	0	33.82	20.36
18	Adohr Dairy	0	0	2.98	.75	11.04	10.83	.81	0	0	0	0	.12	26.53	15.29
19	Topanga - Summit	T	0	N.R.	1.17	10.12	10.71	.84	0	.09	0	0	.05	22.98'	16.18
20	Girard	0	.03*	2.71	.82	8.43	9.60	.46	0	0	0	0	.09	22.14	15.04
21	Brant Ranch	0	.03	2.95	.88	7.53	10.04	.43	.15	0	0	0	.08	21.79	14.27
22	Johnson-Woodruff Ranch Bell Canyon	0	0	3.01	.90	8.56	9.74	.64	0	0	0	0	.15	23.00	14.98
23-E	Chatsworth Reservoir	T	.02	3.15	.87	7.13	9.81	.45	.18	.02	0	0	.09	21.72	14.52
24B	Chatsworth	0	0	3.37	.83	7.72	9.01	.82	0	0	0	0	.07	21.82	15.70
25A	No. L. A. - Andrews	0	.02	3.09	1.08	7.56	9.37	.67	0	.06	0	0	.12	21.97	14.06
25B				Station #25A moved to "B" location Feb., 1938.											
27	W. D. Miller Ranch	0	0	3.37	.94	7.53	8.91	1.18	0	.09	0	.04	.07	22.13	14.95
28	San Fern. Lemon Growers	.02	.05	4.06	1.25	8.16	9.44	1.14	.19	.12	0	.01	.29	24.73	17.35
29B	Granada Pump Plant	0*	0	4.36	1.13	8.75	8.51	1.30	.13	.11	0	0	.07	24.36	17.00
30	Sylmar	0	T	4.55	1.42	8.49	8.63	1.38	.03	.14	0	0	.30	24.94	16.77
32-E	Newhall	T	T	3.57	.53	10.90	9.69	.72	.04	.10	0	T	.13	25.68	16.83
33A-E	Pacoima Dam	0	.03	5.01	1.95	10.09	12.84	1.96	.35	.30	0	.06	.06	32.65	19.74
34	Dillons Ranch	0	T	7.40	1.83	15.43	N.R.	N.R.	N.R	N.R.	N.R.	N.R.	N.R.	24.66'	24.50
38	Chappell Ranch	0	0	3.24	.98	7.81	8.56	1.34	.14	.09	0	0	0	22.16	14.90
39	Sunset Canyon - Burbank	.03	0	3.55	1.64	10.87	12.26	1.18	.23	.31	0	0	T*	30.07	18.85
42	Redondo City Hall	0	.07	2.48	.73	6.79	5.03	.31	.34	.06	0	0	0	15.81	10.91
43a	Palos Verdes (Admin. Bldg)	T	.11	2.21	1.16	6.45	5.11	.57	.07	.06	0	0	T	15.74	11.97
43b	Palos Verdes (Golf Club)	.05	.11	3.71	1.33	5.90	5.70	.13	.53	.06*	0	0	T	17.52	12.89
44	Pt. Vincente Light House	0	.06	1.98	.64	5.13	5.09	.51	.02	0	0	0	0	13.43	11.00
46B-E	Big Tujunga Dam	0	0	4.67	2.44	16.72	20.18	1.66	.10	0	0	0	.03	45.80	28.83
47A	Clear Creek	0	0	6.20	3.32	16.42	22.18	2.19	.17	0	0	.12	0	50.56	31.13
48	Oak Wild	0	0	6.09	3.00	15.28	17.81	1.02*	.31*	.38*	0	.09*	T	43.98	29.01
49	Altadena - Chiesa	T	.02	4.66	1.87	12.82	13.12	1.09	.25	.34	0	.03	.04	34.27	21.65
50B	Arroyo Seco Patrol	0	.03	5.22	2.12	12.30	15.81	1.23	.25	.26	0	.01	.10	37.63	21.49
51	Little Cienega (Headlee)	0	0	6.85	4.59	21.04	23.03	2.11	.46	.08	0	.13	.22	58.51	33.53
52	Switzer's Camp	0	0	4.94	2.87	13.69	19.81	2.03	.19	0	0	0	.20	43.73	27.93
53A	Sleepy Hollow Ranch	0	.02	4.54	2.99	15.63	19.31	1.54	.03	0	0	0	.25	44.31	32.23
53B	Colby's Ranch - Lower	0	.02	3.95	3.11	15.73	16.17	1.86	.06	0	0	T	.24	41.14	25.52
				Station 53A & B combined as Master Station											30.89
54	Loomis Ranch (Alder Cr.)	T	.15	3.20	2.82	9.52	13.40	1.30*	.02*	0	0	1.64	.28	32.33	20.62
56	Valley Forge Lodge	0	0	10.22	4.48	N.R.	N.R.	NO OBSERVER						Inc.	38.94
57B-E	Opid's Camp	0	0	8.44	4.73	22.85	27.80	2.66	.12	T	0	0	.05	66.65	42.15
58	Sturtevant Camp	0	0	9.49	5.41	22.50	21.98	2.63	.57	0	0	0	.19	62.87	37.78
60A	Hoegee's Camp	0	0	9.12	4.60	24.75	25.86	2.04	.52	.18	0	0	.09	67.16	44.59
62	Santa Anita Ranger Sta.	0	T	7.44	3.72	20.12	19.74	1.06	.51	.26*	0	0	.12*	52.97	32.22
63B-E	Santa Anita Dam	0	.01	5.89	2.58	13.37	12.78	1.29	.85	.34	0	0	.06	36.97	25.02
64	Clark's Half-Way House	0	0	4.35	2.85	12.85	Inc.	1.06	.20	.15*	0	0	.05	21.53'	23.55
65	Sierra Madre - Hersey	0	.03	5.72	2.68	13.59	13.86	1.10	.52	.33	0	.02	.08	37.93	23.87
66	Sierra Madre-Pegler Ranch	0	0	5.65	2.47	12.82	12.97	1.07	.08	0	0	0	T	35.06	21.67
67B	Monrovia City Hall	0	T	4.72	1.75	11.18	12.26	.84	.21	.05	0	0	.01	31.02	19.85
68B	Sawpit Dam	0	0	5.91	2.73	14.30	17.44	1.37	.62	.44	0	0	.12	42.93	24.90
69	Sawpit Canyon	0	0	6.24	2.93	16.89	17.83	1.61	1.16	.47	0	0	.11	47.24	29.96
70-E	Dalton #1	0	.01	5.21	2.70	10.59	17.07	1.05	.50	.13	.02	0	.02	37.30	22.50
73	Glendora-Englewild	0	0	4.97	2.64	10.92	15.21	1.55	.80	.17	0	0	.10	36.37	23.85
75B-E	Robert's Relay Station			Station moved to San Gabriel Dam #1 #486											27.79
76	San Gabriel Forks	0	0	6.16	3.06	16.38	21.02	.89	.13*	.04*	.09	0	0	47.77	27.76
76B	San Gab. Dam #1 Camp	0*	.01	6.26	2.91	16.80	20.92	.84	.14	.04	.06	0	0	47.98	
78	Coldbrook Camp	0	0	4.92	3.00	23.21	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	Inc.	28.63
80	Prairie Forks	0	0	4.71	3.61	13.69	16.29	1.09	.16	T	T	.11	.23	40.39	24.39
82	Table Mountain	0	0	2.74	1.84	6.92	9.61	.47	.05	T	.13	.68	.24	22.88	14.08
83-E	Big Pines Camp	0	0	4.93	3.05	15.58	18.35	1.44	.10	T	.40	.43	.18	44.56	25.19
85D	Camp Baldy Ranger Sta.	0	0	5.85	5.45	17.96	25.15	2.56	.32	0	.13	.29	.03	57.35	32.31
87	San Dimas Ranger Sta.	0	.02	4.23	2.84	12.04	14.23	1.76	.38	.14	0	T	.03	35.67	24.32
88	Wolfskill Falls	0		Station discontinued											26.23
89-E	San Dimas Dam	0	0	4.77	3.37	11.83	13.77	2.32	.32	.06	0	T	.02*	36.76	24.01
90	Brydon's Ranch	0	0	4.41	3.36	10.38	13.39	2.07	.36	.18	0	T	.06	34.51	23.72
91	Claremont-Indian Hill	0	T	4.13	2.86	9.08	11.27	1.38	.34	T	T	0	.07	29.13	19.98

NOTE: Amounts shown are in inches depth of Rainfall.

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total	66-Yr. Normal
92	Pomona College	0	0	3.95	2.23	8.31	10.59	1.43	.34	.01	.05	0	.07	26.98	18.48
93	Claremont Fire Station	0	0	4.03	2.29	8.30	10.33	1.35	.36	.02	T	0	.07	26.75	19.14
94	Charter Oak - Fields	0	0	4.31	1.37	8.81	11.62	1.43	.10	0	0	0	.06	27.70	20.22
95	San Dimas-Fire Warden	0	T	4.12	2.79	9.00	10.95	1.21	.14	.04	0	0	.03	28.28	19.99
96-E	Puddingstone Dam	T	T	3.75	2.66	8.74	10.74	1.28	.14	.03	0	0	T	27.34	18.34
97	San Dimas - Ferguson	0	T	4.47	2.71	9.38	11.86	1.31	.23	.07	0	0	T	30.03	20.98
98	Azusa - Hibsch	0	.02	4.44	1.95	10.06	12.07	1.08	.23	.08	0	T°	.02°	29.95	20.90
99	Azusa - Foothill Ranch	0	0	4.72	2.01	10.25	12.09	1.19	.27	.07	0	0	0	30.60	21.41
100	Fish Canyon	0	0	5.86	3.02	11.47	15.49	1.45	.37	.29	0	0	0	37.95	26.37
101	Hurst Ranch - Covina	0	0	4.37	1.66	9.21	9.71	.77	.13	0	0	0	.03	25.88	18.08
102	Howell Ranch - Walnut	0	0	3.09	2.48	9.21	10.88	.58	0	0	0	0	.03	26.27	17.81
104	No. Whittier - Cole Rch.	0°	.03°	4.26	2.08	9.45	10.68	1.04°	.13°	0	0	0	.02°	27.69+	18.46
105	E. Whittier - Sharpless	T	.02	2.93	1.91	7.64	8.13	.74	.04	0	0	0	0	21.41	15.26
106	Whittier - City Hall	T	.06	3.25	1.89	7.47	7.92	.54	.18	T	0	0	.08	21.39	14.63
107B	Downey - Fire Station	.01°	.01	3.29	1.59	8.43	7.50	.68	.24	0	0	0	T	21.75	14.39
108B	El Monte - Fire Station	0	0	4.07	1.62	8.45	10.45	.25	.23	0	0	0	0	25.10	16.87
109	West Aroadia	0	0	4.76	2.05	12.44	12.44	.72	.12	T	0	0	T	32.56	19.80
110	Alhambra	T	T	4.38	1.84	11.76	11.41	.64	.12	0	0	0	.01	30.16	18.47
111	So. Pasadena	0	0	4.21	1.55	10.40	11.35	.56	.07	0	0	0	.01	28.15	17.86
114	Gardena - Rosecrans	0	T	3.35	.61	6.66	6.61	.20	0	0	0	0	0	17.43	12.52
116	Inglewood - High School	T	.08	3.07	1.03	7.49	7.57	.37	.21	.02	0	0	.01	19.85	13.42
117C	Compton	0	.05	2.79	1.60	7.03	6.80	.69	0	.02	0	0	0	18.98	13.02
118B	Wilmington	.10	0	2.49	1.56	7.39	5.72	.83	.01	0	0	0	0	18.11	13.31
119	Soldier's Home	.01	0	4.34	1.36	11.41	9.83	.58	T	.02	0	0	T	27.55	14.76
120	Vincent Patrol Station	0	0	1.25	.77	4.08	6.35	.22	0	0	T	.88	.04	13.59	8.55
121	Lancaster	T	0	.72	.42	3.16	4.00	.37	T	0	0	.40	.75	9.85	7.79
122	Rouff Ranch	0	0	2.70	1.26	9.89	8.90	1.86	0	0	0	.31	.32	25.24	17.04
123	Eli Munz Ranch	0	0	4.00	1.23	10.70	10.13	2.00	.08	0	0	1.13	.05	29.32	21.28
124B	Bouquet Canyon	.06	.04	3.09	1.09	8.87	7.68	1.70	.05	.02	0	.18	.71	23.49	17.46
125	Power House #1	.05	.04	4.57	.83	8.53	9.21	2.87	.15	.03	0	T	.09	26.37	19.16
126	Venice - City Hall	0	0	3.54	1.22	8.58	7.72	.50	0	0	0	0	.04	21.33	14.02
127	Dry Canyon Reservoir	.04	.02	2.85	.37	4.83	5.88	1.04	.15	.01	0	0	.10	15.29	13.09
128-E	Radium Hot Springs	.07	0	7.49	1.16	11.35	14.85	1.99	.61	.07	0	.26	.29	38.14	23.04
130	Sandberg	.20	0	1.58	1.75	10.67	8.48	.98	.04	.01	0	.48	.18	24.38	15.87
134	San Dimas - Stevens	0	0	4.39	2.93	9.81	12.22	1.63	.35	.03	0	0	.05	31.41	21.28
135	Norwalk	0	.15	2.47	1.40	7.52	8.01	.73	.04	0	0	0	0	20.42	13.86
136B	Hollywood	0	0	4.12	1.19	9.56	9.76	.71	0	0	0	0	0	25.34	15.30
137B	Curson Canyon	.06	0	5.08	1.02	10.51	10.82	1.50	.06	.11	0	0	.01°	29.27	17.97
139	L.A. 2nd & Hill L.A.W.D.	0	0	3.63	1.41	10.02	7.91	.23	.26	0	0	0	.02	23.48	15.50
F.O.	751 So. Figueroa-Roof	.01	0	3.81	1.48	9.01	9.25	.48	.02	T	0	T	.01	24.07	
140	Sawtelle - West L. A.	T	T	3.99	1.36	11.02	9.47	.52	0	.02	0	0	.02	26.40	17.10
143	Azusa - City Hall	T	.01	4.56	1.89	10.01	11.85	1.07	.30	.10	T	T	.02	29.91	21.10
144	Sierra Madre Dam	0	.01	5.77	2.41	12.44	16.61	.98	.66	.32	0	0	.02	39.22	23.69
150	Monrovia Falls	0	0	6.37	2.87	16.58	21.41	1.45	.50	.47	0	0	.12	49.77	29.77
155B	Little Rock Creek	0	0	1.47	.88	4.14	6.57	.72	0	0	.12	1.50	T	15.40	10.19
156	La Mirada	0	.06	2.13	1.41	6.90	7.20	.44	.20	0	0	0	0	18.04	13.54
157-E	El Segundo	0	.04	2.62	.67	6.74	5.95	.48	.04	T	0	0	.01	16.55	12.66
158	Tanbark Flats	0	.04	5.47	3.22	15.24	21.22	1.88	.48	.22	T	T	.06	47.83	28.73
159B	Orchard Camp	No Observer - Station Discontinued													
164	Monrovia - O'Connor	0	.02	5.00	2.14	10.78	13.26	.77	.31	0	0	0	.05	32.33	20.81
167	Aroadia Pump Plant	0	.01	4.60	1.96	11.73	13.28	.84	.21	.20	0	0	.09	32.92	20.87
168	San Gabriel - Watts	0	0	4.27	1.81	10.92	11.00	.47	.11	T	0	0	.03	28.61	17.94
169	Sierra Madre - Hogan	.04	.01	5.04	2.15	10.94	14.78	.78	.41	T	.22	.01	0	.15	34.53	21.46
170	Potrero Heights	T	0	4.38	1.58	9.10	10.94	.77	.04	0	0	0	.03°	26.84	16.52
171	Chapman Wells	0	0	5.07	2.15	12.11	12.44	.31	.03	0	0	0	.03	32.14	20.30
174	Glendora - Warren	0	0	4.44	2.48	11.04	11.72	1.67	.44	.22	.02	0	.11	32.14	22.08
175	Alta Canyada - Williams	0°	.04°	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	Inc.	24.90
176	Altadena-Rubio Cn.L&W Assc.	T	.01	4.69	1.94	12.47	13.51	1.01	.24	.28	0	.04	.01	34.20	21.24
177	La Canyada	0	.04	4.86	2.24	12.19	14.10°	.83	.36	.38	0	0	.08	35.08	22.37
178	Azusa - Griffith	0	0	4.43	1.85	8.61	10.33	.91	.06	.04	0	0	.02	26.25	19.67
179	Sierra Madre - Carter	0	.03	5.77	2.54	13.97	14.16	.97	.60	.40	.02	0	.03	38.49	23.57
181	Bassett - S.P.R.R.	Observer refused to take readings													
182	Baldwin Park - Leaoh	0	.01	4.26	1.53	9.33	9.81	.72	.10	0	0	0	.08	25.84	17.80
185	Glendora - West	0	0	4.87	2.01	10.09	12.56	1.61	.28	.09	0	0	.18	31.69	22.75
187	San Dimas - Mount	0	0	4.19	2.81	9.02	10.89	1.33	.17	.05	0	0	.04	28.50	19.61
188	San Dimas - Howard	0	0	4.30	2.93	8.61	N.R.	N.R.	N.R.	.06	T	0	.05	15.95+	19.87
189	San Dimas - Harris	0	0	4.27	2.92	9.79	11.58	1.16	.29	0	0	0	0	30.01	19.99
192B	Bell - Fire Dept.	T	T	3.78	1.73	9.10	8.11	.44	.09	T	0	0	.02	23.27	15.08
193	Covina - Temple	T	T	3.91	1.88	8.56	9.89	1.27	.14	T	0	0	T	25.65	20.53
196	LaVerne - Leader	0	0	3.94	2.57	8.98	10.90	1.32	.29	.02	0	0	T	28.02	19.08
198	Brand Estate	.01	0	2.73	2.57	8.68	10.08	.66	.08	.15	0	0	T	24.96	16.89
199B	Huntington Park	0	0	3.94	1.59	8.35	8.14	.40	.05	0	0	0	0	22.47	14.67
200	Saugus -S.C.E. Co.	.05	T	2.48	.29	5.19	6.14	.57	0	0	0	0	.26	14.98	12.58
201	Puente Hills	.01	0	4.06	2.44	6.82	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	T	13.33'	18.57
203	Whittier - P.E.R.R.	Station Discontinued													15.36
205	Puente - S.C.E. Co.	0	.02	3.50	2.30	8.59	8.90	.85	.14	0	0	0	T	24.30	17.27
206	Valencia Heights	0	0	3.81	1.92	9.74	9.70°1	1.10	.09	T	0	0	0	26.16	17.45
208	Artesia - Barr Lumber Co.	0	0	2.11	1.44	6.54	8.04	.47	.10	0	0	0	T	18.70	13.11
209	Big Tujunga-Edison Patrol Station	0	0	3.96	2.44	13.81	14.59	1.52	.04	T	0	0	.01	36.37	23.27
210B	Brand Park	.02	0	3.39	1.49	10.40	12.10	.92	.16	.24	0	0	T°	28.72	18.79
213	Hancock Park	.04	0	3.67	.99	8.99	9.04	1.01	.03	T	0	0	T°	23.77	15.78
216	Glendale - Jones	T	0	3.58	1.68	9.07	11.60	.54	.03	.09	0	0	.02	26.61	16.71

TABLE VII 1937-38 (continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total	66-Yr. Normal
217	Watts	0	.03	3.34	1.92	7.18	7.05	.60	4.25	.01	0	0	0°	20.38	14.59
218	Torrance-Gen. Petrol.	0	0	2.57	1.00	6.84	5.81	.43	.04	0	0	0	T	16.69	12.60
219	San Fern. Rgr. Sta. Whse.	0	0	3.52	.96	8.81	9.79	1.04	.07	.06	0	0	.02	24.27	16.71
220	Whittier Narrows	0	0	4.17	1.62	8.23	8.37	.67	.09	0	0	0	.03	23.18	15.75
221B	Kiener Ranch (Davis)	0	0	4.06	1.41	11.28	7.88	1.86+	0	0	0	0	0	26.49	17.36
222	Lankershim Power Plant	0	0	2.38	.61	7.58	8.09	.97	.02	.07	0	0	0	19.82	13.33
223B-E	Big Dalton Dam	0	.02	4.82	3.49	12.62	16.55	1.73	.73	.36	.01	.02	.09	40.44	25.92
224	Long Beach-Los Alamitos Ld.	.02	0	2.24	1.20	5.96	6.60	.57	.19	.07°	0	0	.01	16.96	13.08
225	Montana Ranch	0	0	2.25	1.78	5.22	8.48	.63	.05	T	0	0	T	19.41	12.49
226	Burbank	.02	0	2.84	1.30	9.59	11.44	.81	.04	.10	0	0	.01	26.25	16.61
227B	San Gabriel - Gleason	0	0	4.52	1.76	10.36	11.78	.38	.32	0	0	0	.05	29.17	18.18
228B	Beverly Hills-City Hall	.02	0	4.09	1.02	11.40	10.23	1.50	T	.06	0	0	.03	28.35	17.31
230D	Live Oak Canyon - Elder	0	0	4.06	3.02	9.24	11.69	1.43	.33	0	0	0	.13	29.90	21.06
233	Covina - Matthews	0	0	4.03	2.28	8.50	10.20	.78	T	0	0	0	T	25.89	17.89
234	Covina - Thorpe	0	0	3.29	2.20	8.10	8.59	1.22+	0	0	0	0	0	23.40	17.37
235	Henninger Flats	0	.03	5.52	2.55	14.21	17.28	1.61	.71	.51	0	.03	.02	42.47	27.20
236	Ford-Craig Ranch	0	0	4.89	1.57	9.04	9.29	2.09+	.09	0	0	0	0	26.97	18.82
237	Stone Canyon Dam	0	0	4.99	1.28	10.27	9.64	1.16	.23	.13	0	0	.02	28.72	20.22
238	Hollywood Dam	0	0	4.17	.97	10.86	7.76	.92	.17	.05	0	0	T	24.90	16.44
240	Little Tujunga	0	0	5.47	2.07	8.53	11.52	1.90	.26	.56	0	.03	.04	30.38	20.38
241	Long Beach	.03	T	2.15	1.33	5.84	6.52	.65	.24	.07	0	0	T	16.83	11.89
242	LaVerne - Jones	0	0	3.71	2.51	9.05	11.28	1.48	0	0	0	0	0	28.03	17.92
244B	Bear Creek	0	T	6.54	4.04	22.15	25.03	.97	.16	.01°	0	0	.04°	58.94	32.81
246B	Culver City	0	0	3.36	.96	7.51	9.88	.12	.24	T	0	0	0	22.07	14.62
247	Rivera	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	0	.05	Inc.	14.21
248-E	West Saddle Peak	.02	.13	5.37	1.24	12.89	12.27	1.00	0	.09	0	0	.19	33.20	21.40
249	Mint Cn.-Oaks Garage	0	.20	2.08	.76	5.25	7.80	1.71	.24	.01	0	.06	.45	18.56	12.90
250B	Aoton	0	0	1.40	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	.02	Inc.	9.32
251	La Crescenta	T	.05	5.00	1.95	14.20	17.33	1.88	.22	.38	0	.03	.01	41.05	23.88
252	Castaic	0	0	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	T	Inc.	13.92
253	Western Ave. - Tank	0	.01	4.55	1.48	8.27	6.50	.07	.03	0	0	0	T	20.91	15.05
254	Rowlands Ranch	0	0	3.36	2.27	9.09	9.32	.40	T	0	0	0	0	24.44	17.59
255	State Narcotic Hospital	0	0	3.72	2.30	8.25	9.54	1.19	.27	0	0	0	0	25.27	17.93
256	Pomona - S.P.R.R.	0	0	4.02	2.20	8.02	10.01	1.31	.41	0	0	0	0	25.97	17.96
257	Griffith Park Nursery	T	0	4.32	1.24	9.62	9.89	.54	.17	.07	0	0	.02	25.87	16.18
258a	Griffith Park - Tunnel	0	0	4.46	1.21	8.20	10.41	1.42	.16	.07	0	0	.01	25.94	16.66
258b	**Griffith Park-S. Slope**	**0**	**0**	**4.31**	**1.12**	**7.91**	**10.79**	**1.38**	**.16**	**.07**	**0**	**0**	**.01**	**25.75**	**16.27**
258c	**Griffith Park-N. Slope**	**0**	**0**	**4.55**	**1.29**	**9.22**	**12.46**	**1.49**	**.12**	**.08**	**0**	**0**	**.01**	**29.22**	**18.66**
259B	**Chatsworth Co.F.S. Twin Lakes**	**0**	**.02**	**4.27**	**1.03**	**10.44**	**10.87**	**1.51**	**0**	**.08**	**0**	**0**	**.17**	**28.39**	**19.25**
261-E	Acton - Mellen	0	T	1.57	.91	4.33	6.55	.65	.05	0	0	.16	.34	14.56	10.02
263	Pomona - Frater	0	T	2.83	1.72	7.92	10.56	1.48	.07	.04	T	0	.15	24.77	17.73
264	Sand Canyon - Riley	0	.75	2.42	1.15	11.63	12.28	1.71	0	0	0	0	.32	30.26	22.61
265B-E	Puente Hills(LaHabra Hts.)	T	.05	2.71	2.06	8.37	9.90	.94	.29	T	0	0	.03	24.35	16.95
266	E.Whittier-Leffingwell Rch.	T	.10	2.83	2.42	8.07	9.34	.84	.13	0	0	0	T	23.73	14.54
268-E	Torrance-S.C.E. Co.	T	T	2.43	1.33	6.46	5.44	.56	.03	0	0	0	.01	16.26	12.26
269B	Horse Camp-Dia. Bar Rch.	0°	.06°	2.52	2.73	9.53	10.21	1.14+	.19°	0	0	0	.10	26.58+	
269A	Daimond Bar Ranch #1	0	.06	2.76	2.87	9.39	10.52	1.15	.19	0	T	0	.09	27.03	18.66
270	County Farm	0	.03	3.06	1.60	7.04	7.20	.61	.24	0	0	0	.03	19.81	13.40
271	Dominguez Hills	.05	0	2.81	1.32	6.66	6.45	.62	.06	0	0	0	0	17.97	11.95
272	Headworks Plant	T	0	3.44	1.26	10.92	12.18	.61	0	.10	0	0	0	28.51	18.58
273	San Pedro Hills	0	.05	2.51	1.15	7.12	7.48	1.10	.17	.18	0	0	0	19.76	14.78
274	Acton - Hubbard	0	.03	1.70	.79	3.74	6.56	.82	.09	0	0	.05	.16	13.94	11.69
275	San Marino	0	0	5.07	1.55	11.91	11.59	.36	0	T	0	0	0	30.48	18.75
277	Sawmill Mt. Ranch	.10	0	3.16	2.06	13.93	12.43	2.49	.09	0	0	1.59	.32	36.17	22.24
278	Clark Memorial Library	.03	T	4.03	1.06	8.67	8.62	.95	0	0	0	0	T	23.58	15.07
279B	Kinneloa Ranch	0	.01	4.93	2.42	12.72+	Inc.	1.04	.48+	.38°	0°	.05°	.02°	22.05'	23.54
280	Flintridge - Fire Sta.	0	T	4.43	2.02	11.95	13.30	.71	.22	.31	0	0	.10	33.04	21.30
283a	Crystal Lake - East	0	0	7.55	5.03	22.88	26.79	2.60	.10	0	0	.20	.37	65.72	36.92
283b	Crystal Lake - West	0	0	7.03	4.95	23.13	26.47	2.34	.23	0	0	.18	.41	64.74	36.66
284	Placerita Canyon	0	0	4.35	.95	14.97	10.47	1.17	.10	.15	0	0	.15	32.31	21.97
285B	Mt. St. Mary's College	0	0	5.69	1.11	12.33	11.90	.88	.02	0	0	0	T	31.93	17.93
286B	Hermann Rch. S.F. Valley	0	.01	3.74	.98	7.77	9.33	1.41	0	0	0	0	0	23.24	16.77
287	Glendora-C.W.I. Co. Ofc.	0	0	4.48	2.09	9.91	12.04	1.28	.25	T	0	0	T	30.05	20.68
289	Laguna Bell	0	0	3.78	1.32	7.81	7.63	.42	.20+	0	0	0	.03°	21.19	13.91
290	Newmark	0	0	3.89	1.59	9.43	9.11	.38	.08	0	0	0	.02°	24.50	15.16
291	96th & Central	0	0	3.58	1.57	7.49	6.06	.31	0	T°	0	0	T°	19.01	13.31
292-E	Encino Reservoir	.01	.02	2.49	.67	9.83	8.57	.49	.14	.12	0	0	.02	22.36	14.04
293	Lower San Fernando Res.	0	0	3.70	1.44	9.93	7.59	1.18	.20	.13	0	0	.18	24.35	16.76
294	Mira Monte Reservoir	0	.01	5.98	2.43	12.28	15.50	.98	.57	.29	0	0	.03	39.07	23.54
295D	Glendale - Taylor	T	0	3.57	1.56	9.56	11.08	.51	.06	.10°	0	0	.06	26.50	17.94
298	Gorman	0	0	1.00	.89	3.14	3.40	.06	.04	0	.25	.55	.08	9.41	7.23
299C	Calivalli Farms	0	.02	5.32	1.15	14.95	13.21	.68	0	.10	0	0	.29	35.72	21.63
300B	Carrepata Canyon	0	.01	4.62	1.70	11.29	12.86	.62	.21	.02	0°	0°	0°	31.33	19.16
303B	Cal. Tech.	0	0	7.43	3.58	18.25	18.06	1.86	1.32	.55	0	0	.14	51.19	33.50
304	Deer Park	0	0												
305	Mason Estate (Arroyo Sequis)	.02	.12	4.19	1.59	10.12	12.56	1.02	.04	.05	0	0	.13	29.84	20.04

TABLE VII 1937-38 (continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total	66-Yr. Normal
306B	Trancas Canyon	.03	.09	3.89	1.21	9.04	11.07	.93°	.03°	.07°	0	0	.15°	26.51+	13.27
308	Kelly's Kamp	0	0	7.94	8.12	23.46	38.01	3.23	.35°	0	.15°	.35°	.05°	81.66+	45.52
309	Padua Hills	0	0	4.75	3.28	10.51	14.54	1.81	.48	.09	0	0	.05	35.51	22.02
311	Pasadena-Sunset Res.	T	.01	4.74	1.68	11.87	12.33	.76	.14	.10	0	.01	.02	31.86	19.53
312	Glendora Irr.Co.Azusa Plt.	0	0	4.95	2.26	10.76	12.23	1.11	.28	.10	.01	0	.03	31.73	22.07
314	San Dimas Water Company														
	San Dimas Plant	0	T	4.22	2.75	8.74	11.09	1.20	.28	.12	0	0	.03	28.43	19.83
315	Glendora Irr.Co. H.O.Warren	0	0	4.97	2.04	10.76	13.71	1.21	.51	.14	0	0	T	33.34	23.96
317	Big Pines-Sawmill Flat #2	0	0	4.59	3.05	14.63	18.33	1.23	.10	T	.25	1.06	.21	43.45	24.16
318	Big Pines-Jackson Lake	0	0	4.05	3.06	16.69	20.04	1.04	.01	T	.70	T	.26	45.85	26.00
319	Big Pines-Apple Tree Flat	0	0	4.81	3.18	18.72	20.50	1.16	.03	T	1.50	T	.21	50.11	27.76
3200	Sycamore On. Chevy Chase	0	T	3.68	1.77	11.01	11.84	.40	T	0	0	0	.01	28.91	19.83
321-E	Pine Canyon Patrol	.06	T	3.60	1.38	10.73	9.87	2.07	.08	0	.06	.29	.20	28.34	18.87
322	E. S. Muns Ranch	0	0	1.30	.58	6.40	6.38	.58	0	0	0	2.20	.35	17.79	9.97
326	Santa Ynez Canyon	0	0	4.70	1.28	16.22	15.09+	.66°	0	0	0	0	0	37.95	20.15
334-E	San Gabriel Dam #2	0	0	6.39	4.03	20.72	22.89	1.15	.11	.01	0	0	.04	55.34	33.76
336	Silver Lake Reservoir	0	0	3.75	1.40	11.00	8.28	.45	.21	.04	0	0	.04	25.17	15.46
338	Mt. Wilson-Std. Gage	T	.01	7.27	4.36	22.11	22.80	2.00	.30	0	0	T	.04	58.89	36.03
338	Mt. Wilson-Auto. Gage	T	T	7.54	4.39	22.76	22.44	2.02	.29	0	0	T	.04°	59.48	36.25
338	Mt. Wilson-Marvin Gage	0	.02	6.94	3.65	18.57	16.59	1.69	.20	0	0	T	.04°	47.70	30.40
339	Walnut Fruit Growers Asso.	0	0	3.05	2.66	9.69	10.46	.81	.34	0	.01	0	.06	27.08	18.75
341	Blum Ranch	0	0	1.21	1.00	5.40	9.09	.32	0	0	0	.31	T	17.33	9.92
342	Upland	0	.01	4.15	2.54	8.84	11.04	1.80	.45	.04	0	0	.09	28.96	19.18
343	Telegraph Road	T	.05	3.21	1.64	8.13	7.20	.63	.11	T	0	0	.02	20.99	14.14
346	Downey-#2, "Live Wire"	.01°	T	3.09	1.49	7.90	7.61	.55	.20°	0	0	0	.04	20.89	13.43
347-E	Baldwin Pk. Exp. Sta.	.05	.02	4.46	1.68	8.67	10.44	.59	.25	.02	0	0	.08	26.26	18.93
348B	Honor Camp #4	0	0	4.75	3.32	12.83	16.64	1.45°	.25	0	0	T	0	39.24	25.52
					Station 348B moved to "O" location 5/11/38.										
349	Camp Rincon	0	T	6.10	3.05	17.82	21.44	1.13	T	0	0	0	0	49.54	30.10
351D-E	Palmdale	.02	0	1.45	.51	4.36	4.92	.28	0	0	0	1.19	.16	12.89	8.33
352	Leohusa Patrol Station	.06	.12	4.37	1.59	11.47	13.31	1.01	.03	.07	0	0	.17	32.19	20.89
353	Duarte-Monrovia Citrus Asso.	0	0	4.66	3.68	8.48	12.05	.62	.35	0	0	0	.06	29.89	19.70
354B	Honor Camp #6	0	0	5.80	5.23	17.97	26.32	2.28	.48	.20	0	.28	.09	58.65	30.94
355	L. A. Junior College	0	0	3.89	1.58	9.80	9.82	.51	.25	0	0	T	T	25.85	15.72
356	Diamond Bar Rch #2 Spadra	.05	.05	2.38	2.66	8.12	9.13	1.32	.08	0	0	0	.03	23.82	16.96
357	Power House #3	0	T	5.18	1.40	8.35	11.40	1.15	.21	.11	0	0	.08	27.88	18.19
358B	Aldrich Ranch	0	0	.67	1.27	6.54	8.03	.16	0	0	1.01	.24	.58	18.80	12.19
360	Haines Cn. Gravel Pit	T	.02	3.99	2.25	11.73	13.30	1.42	.28	.35	0	.01	.01	33.36	20.86
362	El Mirador Ranch	0	0	4.73	1.99	11.58	12.56	.72	.20	.12	0	T	.06	31.96	20.57
364	Lower Haines Cn. (USGS)	T	.03	4.15	2.48	14.11	14.30	1.68	.40	.32	0	.01°	.01°	37.59	23.29
366	Valyermo	0	0	1.40	.91	6.32	5.90	.05	.05	0	.93	.03	.71	16.30	10.66
367	Haines Canyon - Upper	.01	.06	5.03	3.03	17.45	18.79	2.35	.74	.25	0	.01°	.07°	47.83	29.02
371	San Gab. Cn. No. Fork	0	T	5.80	4.15	19.09	2.95'							32.00'	29.19
				Gage lost in flood. Station discontinued											
372	San Francisquito Power House #2	.04	T	4.44	.75	6.89	9.00	1.12	.38	.01	0	0	.05	22.68	15.72
373	Briggs Terrace(Pickens Cn)	T	T	5.22	2.56	14.68	17.36	2.16	.62	.65	0	T	.02	43.27	26.76
374	L. A. Examiner			Station discontinued											
375	Griffith Park Zoo	.01	0	4.62	1.56	9.64	15.42	.75	.14	0	0	0	.04	32.18	18.98
376	Little Rock-Juniper Hills	0	0	1.06	.36	4.55	4.37	.06°	.04°	0	.62	.38	.06°	11.50+	8.60
377C	Lake Sherwood Estates	T	.09	3.19	1.06	9.94	10.83	.75°	.03°	0	0	0	.40°	26.29+	18.54
378	La Canyada - Hall	0°	.04°	5.24	2.51	13.33	15.34	1.13	.22	.45	0	0	.10	38.36	24.04
379	San Gab. - East Fork	0	T	5.50	2.71	15.73	19.41	.91	.18	.04	.05	T	.07	44.60	26.77
380	El Sereno	0	0	3.94	1.86	9.32	10.28	.58	0	0	0	0	0	25.98	16.14
381B	Santa Monica-"Outlook"	T	.06	3.41	1.29	9.71	8.26	.49	.04	.04	0	0	.06	23.36	15.32
382B	Marks Pasture-Puente Hills	0	0	4.91	2.00	9.63	10.80	1.01	.08	0	0	0	.02°	28.45	18.24
384B	San Rafael Hills -Laverty	0	T	4.41	1.62	10.60	10.38	.70	.05	0	0	0	.06	27.82	17.41
385	N. Whittier Hts. - Smith	0	.03	4.61	1.91	9.48	11.05	1.10	.19	0	0	0	.02	28.39	18.65
386B	Dume Canyon - Oakley	.03	.18	5.60	1.83	12.97	15.73	1.16	.10°	.10	0	0	.17	37.87	25.20
387	Covina-City Water Dept.	0	.05	4.10	1.93	8.01	9.71	.89	.25	.01	0	0	T°	24.95	16.97
388	Hynes - Haydon	0	.05	2.87	1.31	7.78	7.09	.63	0	0	0	0	0	19.73	12.27
389	Glendora - Brown	T	T	4.85	2.15	10.71	14.16	1.32	.67	.19	T	0	.01	34.06	23.51
390B	Morris Dam	0	T	5.65	2.96	14.47	16.30	.85	.30	.08	0	0	.02	40.62	26.49
391	Montebello - Cotton	0	.05	2.91	1.51	7.89	6.66	.73	.30	0	0	0	.02	20.07	14.66
392A	Altadena - Barton	0	0	4.90	2.44	12.75	13.84	1.09°	.25	.35	0	.05	.02	35.69	21.49
393	Los Angeles - Casey	T	T	3.84	1.26	8.51	9.05	.66°	.03°	T°	0°	0°	0°	23.35+	14.25
394	Highland Park - Lindsay	T	0	4.09	1.73	10.30	11.01	.60	0	.01	0	0	.03	27.77	18.58
395	Olive View Sanatorium	0	0	5.84	1.84	9.25	10.18	1.66	.15	.28	0	0	.32	29.52	19.62
396	Oneoto Rch. San Fernando	0	0	3.21	1.09	7.17	8.62	1.27	.17	.12	0	.05	0	21.70	15.14
397	Begue Ranch-Tujunga	0	0	3.85	2.06	13.52	14.97	1.51	.19	.27	0	0	T	36.37	22.54
398	Trails Inn-San Antonio	0°	0°	5.40	3.75+	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	Inc.	
400	Pasadena-Washington & Palm Terr.	T	.01	4.76	2.01	11.21	13.52	.80	.14	.17	0	.02	.02	32.66	20.04
401	Verdugo Mt.	0	.02	4.47	1.80	11.87	13.90	1.30	.32	.35	0	.01	.16	34.20	
402B	State Prison Camp #35 - Chilao	.25	T	4.21	3.53	12.96	15.99	1.27	.06	0	.02	.41	.16	38.86	
403	Altadena - Lindvall	0	0	4.91	2.42	12.67	14.79	1.21	.31	.29	0	0	0	36.60	
404	Glendale - Opid	0	0	3.49	1.87	9.68	10.59	.46	.06	.10	0	0	.11	26.36	
405	Soledad Canyon - Nelson	0	0	1.50	.76	8.87	9.98	.52	.02	0	0	0	.03	21.68	
406	West Azusa	0	.01	4.35	1.46	8.72	10.56	.69	.04	0	0	0	0	25.83	
407	Newhall - U.S.F.S.	0	T	4.79	.87	11.20	11.60	.95	0	0	0	0	.11	29.52	
408	Soledad Canyon - Mitchell	T	0	1.79	.63	9.52	7.99	.48	0	0	0	T	.65	21.06	
409	Ridge Route (new) State Road	.14	0	1.51	1.09	11.32	9.00	.88	.41	0	0	.02	.18	24.55	
410	Ridge Route (new) Paradise Garage	.09	T	2.65	.96	Gage stolen								3.70'	
411	Rivera-Pico-Robinson	0	.01	4.27	1.56	8.18	8.07	.72	.18	0	0	0	.01	23.00	15.79
412	Pasa.-Ohio & Euclid	0	0	4.35	1.65	10.27	12.81	.71	.04	0°	0°	0°	.01°	29.84	
413	Pasa.-Central Fire Sta.	0	0	4.60	1.83	10.37	12.99	.60	.06	0°	0°	0°	.01°	30.46	
414	Pasa.-Painter Reservoir	0	0	4.78	1.74	7.24'	Station discontinued							Inc.	
415	Signal Hill City Hall L.B.	.03	.01	2.31	1.30	5.52	5.95	.80	.05	.14	0	0	0	16.11	
416	Altadena - Ventura St.	T	0	4.46	1.63	10.22	14.28	.98	.19	.17	0	.04	.04	32.01	21.58
417	Lamanda Park - Webber	0	0	5.21	2.07	10.80	14.84	.52	.22	.06	0	0	0	33.72	19.96
418	Pickens On. U.S.F.S.Plots	.03	.07	5.80	2.99	15.56	15.83	2.22	.71	.23	0	0	.08	43.52	
419	Santa Clara Ridge- Mount Gleason	0	0	6.72	2.82	15.30	19.16	2.40	.02	0	0	.56	.20	47.18	
420	Acton - Modie Ranch	N.R.	N.R	N.R.	N.R.	N.R.	13.56	N.R.	N.R.	N.R.	N.R.	N.R.	.10°	Inc.	
421	Mouth of Lopez Canyon	0	.02	3.89	.77	7.58	10.04	1.65	.18	.04	0	0	.02	24.19	
422	Pacoima Canyon	0	0	7.78	1.80	14.62	15.86	2.33	.64	.01	0	0	T	43.04	
423	Wagon Wheel Rch. Aliso Cn.	0	0	4.17	1.65	9.95	12.58	.95	.04	0	0	T	.09	29.43	
424	Live Oak On. near Dam	0	.03	4.34	3.31	9.93	12.83	1.87°	.66°	0°	0°	0°	.06°	33.03+	
425	San Gabriel Dam #1	0	.02	6.46	3.04	15.75	17.84	.87	.21	.09	.02	0	0	44.33	27.79
426	Big Rock Creek	0°	0	2.27	1.91	11.82	No Observer.			Station discontinued				16.00'	
427	Downey - Jordan	.01	T	3.32	1.73	7.70	6.84	.57	.10	0	0	0	.03	20.30	
428	Mouth of Eaton Canyon	N.I.	N.I.	N.I	N.I.	8.41'	14.57	1.13	.44	.38	0	.05	.02	Ino.	
429	State Maintenance Highway Angeles Crest	N.I.	N.I.	N.I.	N.I.	N.R.	N.R.	2.40	.11	T	0	T	.03	Ino.	
430	State Maintenance Highway Saugus	N.I.	N.I.	N.I.	N.I.	N.I.	3.84'	8.02	.83	0	0	0	.10	Ino.	
431	Baldwin Hills	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	0	T	Ino.	
432	Fern Lodge-Santa Anita	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	0	.18	Ino.	
433	Altadena-Co. Forestry Pk.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	T	Inc.	
437	Hamilton Bowl	N.I.	N.I.	2.04	N.R.	4.94	5.58	.79	0	.04	0	0	0	Ino.	
508B	Arroyo Seco Ranger Sta.	0	.02	4.85	2.04	12.13	14.73	.93	.28	.34	0	.08	.11	35.51	23.31
577	L.A. U.S.W.B.	.01	0	3.54	1.63	9.81	7.94	.48	.02	T	0	T	.01	23.44	15.45
589	Mountain Springs	0	0	4.49	2.98	9.77	12.17	2.42	.65	.15	0	0	.02	32.65	22.63
593B	Newhall Ranch	.01	.01	4.17	.61	8.26	9.74	.71	0	0	0	0	.41	23.92	15.77
594	Newhall - S.P.R.R.	0	T	3.52	.53	10.86	10.07	.41	0	0	0	0	.10°	25.49	17.88
612	Arroyo Seco-Chlorine Plt.	T	.01	4.98	2.01	12.14	15.62	1.11	.21	.36	0	.04	.10	36.57	22.22
615	Santa Susanna	0	0	2.84	.78	6.45	7.05	1.29	0	0	0	0	T	18.41	13.67
X-2	Rossmoyne Fire Area	0°	.02°	1.38	1.77	9.29	11.94	.69	.13	.10°	0°	T°	.14°	25.46	

NOTE: Amounts shown are in inches depth of Rainfall.

LEGEND

Partly estimated	+
Estimated from nearby station	°
Incomplete record	'
Not installed	N.I.
No record	N.R.

TABLE VIII

RAIN GAGE STATION LOCATION

1936-37 - 1937-38

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	Observer	Location
2	S	22-25	1025	H. A. Gibson	Upper Escondido Canyon
3	S	34-09	875	V. M. Ward	La Sierra Canyon at Cornell
4	Sp	22-70	600	L. S. Brown, 1936-37 J. Roldan, 1937-38	Malibu Creek S. W. of Calabasas
5	Sp	35-54	950	Tom Farmer	In Calabasas So. Side Blvd.
6	SA	24-01	747	E. O. Roth	.4 mi. S. of Topanga Bridge
7O	S	24-55	90°	Henry Jenks	Bel Air Bay Club-Roosevelt Highway
8	Sp	25-03	470	Dudley Corlett	Rear of Admin. Bldg., Mandeville Canyon
9	Sow	48-37	815	Robert Larson	Sepulveda Blvd., 2nd house N. of Chase
10	SA	25-51	540°	O. F. Bell	Bell Air Admin. Bldg.
11	Sow SowA	37-88	867	W. H. Wood, 1936-37 W. H. Wood, 1937-38	Upper Franklin Canyon Reservoir
12	S	37-86	1175	Harry Smedley	Mulholland Highway at Franklin Canyon
13	S	38-34	593	Katie Blix	10834 E. Blix St., North Hollywood
14	Sow	49-46	1000	E. S. Merrill	Near mouth of La Tuna Canyon
15	SowA	37-41	595	Frank Carr	Aetna and Vesper Streets, Van Nuys
16B	S	37-25	825	Bob Clark	Sepulveda Canyon at old Ranch House
17	S	37-07	1400	Earl M. Mave	Sepulveda Canyon at Mulholland Highway
18	S	36-73	815°	E. M. Sherman	Adohr Dairy-Ventura Boulevard
19	S	35-96	1520	R. L. Scott	Summit - Topanga Canyon Road
20	S	35-93	892°	Allen Shaw	S.E. cor. Ventura Blvd., and Topanga Cn. Road
21	S	36-02	876°	Carl Wyninger	Canoga Road north of Ventura Blvd.,
22	S	46-58	930	Paul Johnson	S.W. of Stagg & Cohasset Sts., Bell Cn. San Fernando Valley
23-E	Sow	46-87	865	R. R. Melrose	East end Chatsworth Reservoir
24-B	S	46-94	965°	E. L. Johnson	E. of Vassar St., S. of Devonshire Street, Chatsworth
25A	Sp	47-47	797	Jack Andrews, 1936-37	19265 Parthenia, No. Los Angeles
25B				Jack Andrews, 1937-38	19055 W. Parthenia, cor. Van Alden, No. L.A.
27	S	48-64	944	W. D. Miller	14163 Van Nuys Boulevard
28	S	48-32	950°	D. Hanneman	San Fernando Lemon Ass'n., Packing House
29A	SA	47-82	1130	R. E. Moore, 1936-37	Sunshine Ranch, 17563 Rinaldi Street
29B	S			L.A.W.D., 1937-38	Granada Pump Plant
30	Sow	59-28	1250°	W. C. Simonds	Sylmar Olive Packing Plant
32E	S	58-61	1245	Milan A. Priest	Inland Highway, ½ mile north of Newhall
33AE	SA	60-07	1700	R. E. Waddicor	Caretaker's House below Pacoima Dam
34	Swb	60-45	2050	John McQuillan	2.5 mi. above Pacoima Dam
38	S	49-34	1060	Sam Chappell	10100 Helen Street, Roscoe
39	S	50-19	1650	F. C. Employee	Rear of House, .7 mi. above Club in Sunset Cn.
42	S	7-15	50°	City Clerk	Roof of Redondo City Hall
43A	Sp	2-10	300°	G. B. Snelgrove	75 Malaga Cove Plaza, Palos Verdes Estate
43B	Sp	2-20	450	Gomer Sims	At Golf Club grounds-Palos Verdes Estate
44	Sp3"	1-85	125	A. Trittinger	Near Pt. Vicente Light House
46B-E	S	51-01	2050	Sam Browne, Sr., 1936-37 D. J. Robertson, 1937-38	Big Tujunga Canyon below Dam
47A	SA	51-22	3100	Mrs. R. H. Rogers	1.6 mi. up Clear Creek from Big Tujunga
48	S	51-15	1800	J. R. Phillips	Oak Wild Resort - Arroyo Seco
49	Sp	40-50	1345	Geo. S. Chiesa	165 E. Foothill Boulevard, Altadena
50B	S	40-10	1155	H. J. Durand	352 Michigan Avenue, Flintridge
51	S	65-69	4650	Frank M. Headlee	1 mi. No. of Coldbrook Camp
52	S SA	51-44	3000	J. A. Percell, 1936-37 J. A. Percell, 1937-38	Switzer's Camp, Long Canyon
53A	SA	62-89	3500	Geo. T. Brown, 1936-37 Edward Emerick, 1937-38	Sleepy Hollow Ranch Coldwater Cn. 1 mi. S. of Junction, Big Tujunga Creek Colby House in Coldwater Canyon
53B	Swb	62-89	3150	Joe Argay	Coldwater Cn. near Big Tujunga ½ mi. N. of "A"
54	SwbA	63-55	4050	Mrs. L. G. Loomis	Near Junc. N. & Middle Forks - Alder Creek
56	S	52-24	3400	Cherie DeVore Rice	West Fork - San Gabriel River
57B-E	SwbA	52-04	4350	Mrs. John Opid	West Fork - San Gabriel River
58	S	52-67	3375	Fay C. Thomas	Upper Big Santa Anita Canyon
60A	SA	52-69	2750	Joe E. Clark, 1937-38	W. Fork Santa Anita Cn. - Hoegee's Camp
60B	SA	52-79	2580	Willard Plummer, 1936-37	W. Fork Santa Anita Cn. - Winter Creek
62	Swb	41-80	1950	F. L. Steele	Santa Anita Canyon Ranger Station
63B-E	S	41-81	1400	Joseph Propst	Caretaker's House, Santa Anita Dam
64	S	41-71	1600	Joe E. Clark	On old Sturevant Trail, Big Santa Anita
65	SwbA	41-42	1160	Col. H. B. Hersey	575 N. Hermosa Ave., Sierra Madre
66	S	41-54	665	C. J. Pegler	415 E. Live Oak, Sierra Madre
67B	Sp3"	41-95	560°	G. H. Duell	Roof - City Hall, Monrovia
68B	S	42-12	1378	M. L. Packer	Sawpit Dam
69	S	42-31	2000	M. L. Packer	Upper Sawpit Canyon
70-E	SA	42-93	800	Roger Dalton	Mouth of San Gabriel River
73	S	43-54	1200	Mrs. J. P. Englehart	Mouth of Engle Wild Canyon
75BE	SA	54-48	1275	F. C. Employee, 1936-37	Robert's Relay Station, San Gabriel Canyon
76	S	54-57	1600	Albert E. Marshall	W. side San Gabriel Forks, U.S. Ranger Sta.
76B	SA	54-57	1500	Ted Cooper, 1937-38	San Gabriel Dam #1 Camp
78	Swb	54-60	3300	R. F. Hill	No. Fork - San Gabriel
80	S	67-05	5680	Gus Wissendorff	2 mi. E. of Vincent Gulch - Junction
82	S	67-11	7500	Hoover & Zodtner	Top of Table Mountain
83-E	SA	67-02	6860	Leslie E. MacDonald	Big Pines County Park
85D	SwbA	56-46	4300	R. N. Tunstall	Camp Baldy Ranger Station
87	S	44-33	1500	H. O. Schwoob	San Dimas Canyon at West Fork
88	S	44-52	2400	Lloyd E. Davis	Wolfskill Canyon
89-E	S	44-24	1350	G. W. Rodgers	San Dimas Canyon below Dam at Caretaker's House
90	S	44-44	1880	R. S. Brydon	No. end Wheeler-LaVerne Road
91	S	44-87	1405	W. White	Indian Hill Road No. of Base Line
92	SA SA	32-90	1190	J. S. Hopkins, 1936-37 Richard Condit, 1937-38	Pomona College Observatory
93	S	32-80	1165	Harvey Case	No. side 2nd St., bet. Harvard & Yale Sts.
94	S	31-60	805	Will G. Fields	Covina Blvd. at P.E.R.R. Crossing, Charter Oaks
95	S	43-99	960	Samuel L. Trout	114 E. 1st St., San Dimas
96-E	S	31-90	1030	F. A. Pollard	Knoll above Caretaker's House, Puddingstone Dam
97	S	44-08	1000	Mrs. Geo. Ferguson	N. side Juanita, East of Walnut
98	Swb	42-96	602	John Hibsch	325 Foothill Blvd. Azusa
99	S	43-96	615	Chas. Stewart	Foothill Blvd. S. side, 2 mi. W. of Citrus
100	Swb	42-73	1050	August Bohm	Above U.S.G.S. Gaging Sta. Fish Canyon
101	S	30-53	358	Hurst Bros.	S. Cor. Orange & Merced Ave., Covina
102	S	31-29	475	C. Cullum	1 mi. W. of Walnut P.O. So. of R.R. tracks
104	CGG S	30-09	600	E. B. Linn, 1936-37 Bert Priest, 1937-38	S. end 7th Ave., No. Whittier Heights
105	S	16-64	215	Peter E. Sharpless	¼ mi. S. of Whittier Blvd., on Laurel Ave.
106	S	16-61	365°	E. W. Honeyman	City Hall Roof, N.W. corner - Greenleaf
107A	S	15-65	117°	Arthur I. Darby, 1936-37	N.E. corner - Downey & Firestone
107B	S	15-65	118	T. C. Loggins, 1937-38	S. side 2nd. St. bet. LaReiner & Mytle Sts. Fire Station
108B	S	29-62	285°	Martin Sorensen	Roof Fire Dept. 126 S. Tyler St., El Monte
109	S	41-37	490	Mamie L. Picard	2307 Naomi Drive, Arcadia
110	S	28-70	485°	J. W. Olay	N.W. Cor. 2nd & Main Sts., rear of City Hall,
111	Sp	40-48	660°	Norval B. Krug	City Hall, N.W. cor. Mound & Mission, So. Pasa.
114	S	14-09	64	C. E. Rosecrans	S.E. Cor. Vermont & Rosecrans Blvd.
116	Sp	13-43	117°	Geo. Green	Inglewood High School
117O	S	8-90	67	Geo. H. Nye	320 S. Poinsettia Ave., Compton
118B	S	3-41	40	E. A. Bishop	1251 Banning Blvd., Wilmington
119	S	25-44	335°	L. P. Emerick	National Military Home, Sawtelle
120	S	74-70	3250	Geo. M. Cuthbert, 1936-37	Mint Cn. Rd. 1 mi. W. of Vincent at Co. Patrol Station
120	S			Harry Shorey, 1937-38	
121	S	112-79	2350	R. E. Lofinck	N.W.cor. Union High School grounds, Lancaster
122	S	98-29	3200	Geo. Rouff	Bouquet Cn. Rd., 1/2 mi. S. Elizabeth Lake Rd.
123	Sp	96-73	3250	Eli Munz	Between Elizabeth & Hughes Lakes
124B	Acw	84-31	3000	R. W. Mathews	Bouquet Cn. W. of Orchard & Res. Yard
125	Sow	83-40	2100	Sta. Operator	Power Plt. #1 Upper San Francisquito
126	S	12-41	7°	A. S. Ede	Venice City Yards
127	Sow	70-71	1507	Jim Ray	Dry Canyon Reservoir
128-E	S	96-49	2041	Louis G. Klein	Elizabeth Lake Canyon at Warm Springs
130	S	106-85	4200	A. R. Grant	Old Ridge Route at Sandberg
134	S	44-07	1110	A. L. Stevens	1/2 mi. N. of Foothill Blvd., San Dimas
135	S	10-30	83	C. S. Hargitt	¼ mi. N. of Center St. 1/5 mi.W. of Blookfield
136B	S	26-70	305°	E. L. Phillips	6225 Santa Monica Blvd.
137B	S	38-48	1125	F. C. Employee	E. side Curson Canyon
139	Sow	27-54	300°	D. A. Lane	Just S. of S.E. cor. 2nd & Hill Sts. Roof L.A. Water Department
F.C-A	S	27-54	287°	F. C. Employee	205 South Broadway, L. A.
F.C-B	S	27-35	262°	F. C. Employee, 2-19-37	751 South Figueroa St., L. A.
140	S	25-55	232°	W. B. Scott	Rear-1620 S. Purdue, Garage roof City Hall-W. LA
143	S	42-96	607	Paul E. Smith	Rear of City Hall in Park, Azusa
144	S	41-62	1100	Al Freeland	Foot of Sierra Madre Dam
150	SA	42-11	1650	M. L. Packer	Monrovia Canyon Falls
155B	S	87-79	2900	Gene Breslin	Little Rock Creek, 1.5 mi. below Dam
156	Sp3"	10-81	90	Standard Oil Employee	Center St., La Mirada near S.F.R.R.
157-E	Sp	12-88	135	T. H. N. Waite	Standard Oil Refinery, El Segundo
158	SpA	55-49	2700	U.S.F.S. Employee	W. Fork San Dimas Canyon, Tanbark Flats
159B	SA	41-40	3000	M.A. DeTemple	Mt. Wilson Trail, Little Santa Anita
164	Sp3"	41-93	690	Charles J. O'Connor	432 N. Primrose, Monrovia
167	Sp	41-64	911	Scott M. Lee	Arcadia Pumping Plt., 1 mi. N. of E. Live Oak St.
168	S	41-09	433°	Richard Watts	309 E. Live Oak Ave., San Gabriel
169	Sp	41-63	700	Jos. P. Hogan	Sierra Madre Pump Plt. 621 E. Sierra Madre Ave.

° #7O 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. #24B is 10 ft. above. #28 is 10 ft. above. #30 is 20 ft. above. #42 is 30 ft above and #43A is 20 ft. above. °#67B is 40 ft. above ground.

° #106 is 15 feet above ground. #107A = 15 ft. above. #108B is 16 ft. above. #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. F.C-A is 118 ft. above. F.C-B is 75 ft above. #140 is 20 ft. above. #168 is 6 ft. above.

TABLE VIII 1936-37 - 1937-38 (continued)

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	Observer	Location
170	S	29-15	320	J. A. Reifer, Jr.	3623 Delta St., San Gabriel
171	S	41-35	635	W. E. Comerford	1000 ft. S. of E. Colo. St. on Sierra Madre St.
174	Sp	43-86	965	C. C. Warren	Old Foothill Blvd. - 2.75 mi.E. of Glendora
175	CGG	50-87	1915	K. L. Williams	5268 Linda Vista Dr. Alta Canyada
176	Sp	40-61	1125	J. H. Parsons	575 Sacramento St., Altadena
177	CGG	51-09	1275	Mrs. S. T. Chisam	4820 Commonwealth Ave. Alta Canyada
178	A	43-09	545*	E. B. Griffith	Bonita St. just W. of Cerritos, Azusa
179	Swb	41-42	1110	Arthur N. Carter	N. of upper end Baldwin Ave. Sierra Madre
181	Sp3"	30-04	296	R. S. Gipple	S.P.R.R. Station, Bassett
182	Sp	30-41	378	S. Howard Leach	334 N. Maine St., Baldwin Park
185	S	43-46	892	L. M. West	460 E. Bennett, Glendora
187	S	43-99	960	W. E. Mount	167 N. San Dimas Ave.
188	Sp5"	44-07	1075	Mrs. Emma A. Howard	Foothill Blvd. near Puddingstone Diver. Channel
189	Sp	43-98	1000	J. R. Harris	112 W. 6th St., San Dimas
192B	S	15-12	145	J. F. Salvail	6320 Pine St., Bell
193	S	31-21	575	W. B. Temple	.8 mi. E. of High School, S. side Puente St.
196	Sp3"	44-39	1054*	Alice C. McClellan	2152 3rd St., LaVerne
198	Sp Dial	39-21	815	F. W. Pomeroy	Rear of Brand Residence, Ext. Grand View Ave.
199B	S	14-81	175*	W. E. Ford	City Yard, Slauson & Miles St., Huntington Pk.
200	Sp3"	70-27	1093	W. H. Roberts	2.5 mi. W. of Saugus Ridge Route
201	Sp	17-00	850	John C. Hart	Alta Mira Orchard Rch. Turnbull Canyon Road
203	Sp3"	15-51	245	G. A. Kubry	S.P.R.R. Station, Whittier
205	Sp	30-79	374	G. C. Hoisington	S.C.E. Co. Sub. Sta. 1.5 mi. E. of Puente
206	S	30-94	467	F. R. Jackson	Azusa Ave. Between Merced & Vine Sts.
208	Sp5"	10-14	49	W. S. Russell	Barr Lumber Co. 1804 Pioneer St. Artesia
209	S	62-49	2600	F. C. Employee	Big Tujunga at Lucas Creek
210B	SA	39-21	1250	F. C. Employee	On S.W. Slope, 30 ft. N. of firebreak, 200 ft. above Tank Brand Park.
213	SA	26-43	177	F. C. Employee	LaBrea Fossil Pits, 5801 Wilshire Blvd., L.A.
215	Sp	9-72	68	R. V. Bashore, 1936-37	900 E. Park at Somerset, Bellflower
216	Swb	39-43	620	J. E. Jones	318 E. Randolph St., Glendale
217	Sp3"	14-75	110	M. E. Tower & Students	103rd. St. 2nd Block W. of Alameda, Watts
218	S	7-54	75	Marion E. Dice	2 mi. N.W. of Torrence, Gen'l. Petroleum Corp.
219	S	48-94	955	V. V. Taylor J. N. Clark, 1937-38	12605 Osborne Ave..1 mi. N.E. San Fernando Rd.
220	S	29-28	195	D. M. Cate	547 Friendship Ave. near Montebello
221B	CGG	59-99	1375	Earl Kern, 1936-37	Rear of Caretaker's house, Kiener Ranch, San Fernando Valley
221B	S			Earl Kern, 1937-38	
222	Scw	38-10	732	Station Operator	.2 mi. W. of Lankershim Blvd., Generating Plt. North Hollywood
223BE	S	43-83	1575	Paul Keiser	75 ft. S. of Caretaker's house Big Dalton Dam
224	S	4-03	30*	W. N. Beach	Roof of Bldg. N. of 22 Pacific Ave. L. Beach
225	Sp3"	9-85	47	J. F. Anthony	Montana Ranch, 3 mi. S.W. of Artesia
226	S	38-91	650*	F. Olchvary	125 E. 3rd St., Burbank Fire Station
227B	S	40-99	487	Geo. B. Gleason	424 N. Milton Ave., San Gabriel
228B	Ap	26-02	255*	C. Valle Riestra	Roof City Hall, Beverly Hills
230C	Swb	44-68	1255	C. S. Elder	4055 N. San Antonio Ave. .6 mi.N. Foothill Blvd.
231B	S	51-97	4500	J. Schleicher, 1936-37	Just S.E. of Mount Lowe Tavern
233	S	31-11	527	J. L. Mathews	161 Nevilla Place, Covina
234	S	31-23	630	Ben F. Thorpe	N. side Cameron Ave. .2 mi.E. of Barranca St.
235	SpA	41-10	2650	E. L. Lioret	Henninger Flat, Forestry Nursery, Mt. Wilson Toll Road.
236	Sp S	59-88	1455	V. H. Craig, 1936-37 V. H. Craig, 1937-38	Craig Reneh, San Fernando
237	Scw	37-49	725	H. L. Murrietta	Stone Canyon Dam
238	Scw	38-68	750	C. J. Chewings	Hollywood Dam
240	S	60-67	1700	F. M. McBride,, 1936-37 F. J. Wright, 1937-38	4.3 mi. up Little Tujunga Cn. Fr. Foothill Blvd.
241	Sp	4-03	30*	C. Bower	City Hall Long Beach ¼ mi. from Ocean
242	Sp3"	32-20	1036	L. M. Jones, 1936-37 W. O. Hathaway, 1937-38	P.E.R.R. Station, LaVerne
244B	S	54-15	1600	F. C. Employee	F.C.Gaging Sta. at Bear Cr. 500 ft N. of W. Fork San Gabriel
246B	S	26-18	65*	Bus Depot-Employee	Cor. Jefferson & Duquesne Sts. Culver City
247	S	15-93	151	B. F. Lindsey, 1936-37 H. J. Robinson, 1937-38	233 Burke St., Rivera
248-E	S	23-12	890	Ralph Zeilke	W. Slope Saddle Peak, above Crater Camp
249	S	84-48	2400	W. A. Dodrill	Mint Canyon Road at Oaks Garage
250A	S	73-85	2575	Joe Schadler	Soledad Canyon - 2 mi. W. of Acton
250B	S	73-87	2555	Joe Schadler, Jan 1-37-38	Soledad Canyon 500 ft. S. of "A" location
251	S	50-87	1565	H. A. Scheuner	2908 Foothill Blvd., La Crescenta
252	S	69-80	1156*	W. H. Callis	Castic - W. side of old Ridge Route
253	S	13-95	235	Mrs. W. G. Frayer, 1936-37 Mrs,R.R. Bohmer, 1937-38	Western Ave. Tank, L.A.W.D.
254	S	17-50	466	Leonard Garbett, 1936-37 D. F. Ferrero, 1937-38	Extension Grazide Rd. & S. of Rowland Ranch H.
255	S	31-55	770	L. P. Groff	State Narcotic Hospital, near Spadra

*#178 is 8 ft. above ground. #196 is 10 ft. above. #199B is 8 ft. above. #224 is 50 ft. above. #226 is 15 ft. above. #228Bis 30 ft. above. #241 is 30 ft. above. #246B is 10 ft. above,,and #252 is 10 ft. above.

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	Observer	Location
256	Sp3"	32-44	862	Station Operator	S.P.R.R. Station, Pomona
257	SA	39-17	750	J. Kladler	Griffith Pk. Nursery, Ext. N. Commonwealth Ave.
258a	CGG	38-97	1100	Louis Strauss	W.of Tunnel, Pt. of Ridge, Griffith Park
258b	CGG	39-07	1400	Louis Strauss	S. Slope, Mt. Hollywood, Griffith Park
258c	CGG	39-06	1600	Louis Strauss	N. Slope, Mt. Hollywood, Griffith Park
259A	S	46-91	1225	Ed. F. Coltrin, 1936-37	Bottom Devil's Creek, above Upper Lake, Twin Lakes Park
259B	SA	46-92	1249	Geo. M. Cuthbert, 1937-38	21880 Mayan Dr., L.A.Co. Forestry Station, Twin Lakes Park
260	S	63-14	4500	F. W. Carlisle	E. Fork Mill Cr. Fuller Canyon
261-E	SA	73-30	3075	H. F. Mellen	Escondido Canyon-North Branch
263	S	32-56	778	Milton Frater	2211 S. Tower Ave., Pomona
264	S	59-92	1900	H. Riley	Sand Canyon - Coyote Canyon Branch
265BE	S	17-74	725	R. H. Marsh	Anaheim Rd. 1 mi. N. Whittier Blvd., Puente Hill
266	Sp	17-06	253	J. F. Harris	Leffingwell Rch. ½ mi. S. of Whittier Blvd.
268-E	Sp	7-94	57	B. Bunje	190th St. & Western Ave.S.C.E.Co. Sub. Sta.
269	S	18-53	710*	F. E. Lewis	Diamond Bar Ranch, #1 Brea Canyon Road
270	S	15-46	104	Clyde Morrow	County Farm, 741 Old River Schoool Road
271	S	8-63	195	James L. Nash	Dominguez Hill, S. side of Reservoir
272	S	38-94	473	W. A. Herring	W.of N. entrance Griffith Park, of L.A. River
273	Sp5"	2-12	1235	W. W. McCarrell	Top - San Pedro Hills, W. end
274	Sp	85-68	3250	Mrs. A. S. Hubbard	Mint Cn. Rd. just east of Summit
275	Sp3"	40-87	570	G. L. Brown	Huntington Estate, San Marino
277	S	108-17	3700	Clarence Scates	Sawmill Mt. Rch. 8.9 mi. N.W. of Lake Hughes
278	S	26-86	203	K. L. Scott	2205 W. Adams, L. A.
279B	Sp	41-21	1500	Ross M. Lockhart	Kinneloa Rch. E. side Eaton Wash near mouth of Canyon
280	SA	40-01	1325	Station Employees	200 ft. W. Summit Chevy Chase, Cor. Inverness and Gleneagle
283a	ScoA	65-57	5740	Roy M. Tuttle	Crystal Lake Co. Park, East Pine Flat
283b	Sco	65-58	5370	Roy M. Tuttle	Crystal Lake Co. Park, West Pine Flat
284	Sp	59-22	1480	John Wood	Dulin Ranch - Placerita Canyon
285B	S	25-11	1015	Sister Gertrude Joseph	Mt. St. Marys College, Ridge between Boehme and Canyon West
286B	CGG	49-22	1120*	Mrs. John Hermann	11332 Osborne Ave., San Fernando
287	Sp	43-36	782*	H. C. Warren	234 N. Michigan Ave., Glendora
289	Aco	15-52	140	L. A. Co. Surveyors	10 mi. W. of Compton & Aboneria Rd. 2 mi. N. of Baker Ave.
290	Aco	28-75	375	L. A. Co. Surveyors	LaMerced Hills-Garfield Ave. at S.C.E. Sta.
291	Aco	14-45	121	L. A. Co. Surveyors	96th St. and Central Ave., L. A.
292-E	Scw	36-85	1000	John H. Cowan	Crest of Encino Dam, 1 mi. S.W. of Encino
293	Scw	48-11	1150	F. Ortiz	800 ft. N. of W. end of Lower San Fern. Dam
294	Sp	41-53	985	Al Freeland	Mira Monte Ave. at Pump Plt. 50 ft. W. of foot of Mt. Wilson Trail
295D	S	39-34	526	Mrs. A. W. Taylor	448 W. Pioneer Drive, Glendale
298	S	105-40	3830	J. L. Ralphs	Gorman, Ridge Route N.W. cor. L. A. County
299B	S	88-26	2835	Geo. Jacoby, 1936-37	1 mi. W. of Pear Blossom Hwy. 1 mi. N. Victorville Highway
299C	S	88-26	2835	Mrs.Lena Schwab, 1937-38	.2 mi. W. of "B" location
300B	Sp3"	36-18	930	R. L. Peeler	1/2 mi. N.E. of Topanga Cr.Rd. in Garrapata Cn.
303A	SA	40-76	763	Students	Cal-Tech. 150 ft. E. of Wilson Ave. 25 ft. So. of San Pasqual
303B	SA			Students, 1937-38	400 ft. E. of "A" location on Campus
304	S	42-30	2700	Ben Overturf, 1936-37 M. L. Packer, 1937-38	1½ mi. up Canyon from Sawpit Dam
305	S	21-01	1155	R. L. Mason	East Fork of Arroyo Sequis, S. of Road
306A	S	21-56	15	Wm. Steeb	Roosevelt Hwy., at Trancas Canyon
306B	S	21-55	310	Wm. Steeb, Jan. 1, 1937	2.8 mi. up Trancas Canyon
308	Sp	56-96	8300	H. S. Delker	1¼ mi. N.E. of Ontario Pk. just N. of Divide
309	Sp	45-05	1768	K. B. Forbes	1½ mi. N. of Baseline Rd., 300 ft. E. of Monte Vista Ave.
311	SA	40-43	930	H. Sievert	100 ft. N.W. Mountain Ave. 50 ft. N.E. Manzanita St., Pasadena
312	Sp	42-85	675	Plant Operator	1 mi.N.W. Azusa, 4 mi. W. of W. end Sierra Madre Ave.
314	Sp	44-07	1064	F. L. Brockham	N.E.cor. Foothill & Artesia Ave. .3 mi. W. Puddingstone Diversion
315	Sp	43-15	855	H. C. Warren	300 ft. W. Intersection Ben Lomond Ave. on Sierra Madre Avenue
317	Sco	67-12	6750	L. MacDonald	.6 mi. S.E. Main Blvd. near Swartout Valley Park Entrance
318	Sco	66-70	6075	Ralph Price	So. edge Jackson Lake
319	Sco	66-81	5900	Ralph Price	Big Pines Park-Apple Tree Flat, 2¢ mi. by Palmdale Road
320C	CGG	40-02	1225	F. H. Hay, 1936-37	3352 Linda Vista Ave., L. A. County
320A				F. H. Hay, 1937-38	2816 E. Chevy Chase
321E	S	96-72	3400	Co. Forestry Employee	Ranger Sta. bet. Elizabeth & Hughes Lakes
322	CGG	110-48	2600	Eric Munz	Lancaster Bailey Rd. 14 mi. W. of Lancaster
325	S	54-35	1600	F.C. Employee, 1936-37	N.Fork of W.Fork San Gab. Cn. (Fish Hatchery)
326	Sp	24-43	500	W. W. Culp	2 mi. up Santa Ynez Cn. fr. Beverly Blvd. at Forks

*#269 is 10 ft. above ground. #286B is 10 ft. above. #287 is 15 ft. above.

TABLE VIII 1936-37 - 1937-38 (continued)

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	Observer	Location
334E	SA	53-35	2335	F. C. Employee	San Gab. Dam #2 W. Fork-San Gabriel River
335B	S	17-21	493	J. S. Cariker, 1936-37	276 Los Altos St., Happy Valley
336	Scw	39-39	455	Caretaker	Silver Lake Reservoir, Los Angeles
338	SwbA	52-47	5650	J. O. Hickox	50 ft. S. of 60 inch Telescope, Mt. Wilson
339	Sp	31-49	533	Operator	½ mi. S.E. of Walnut, S. side U.P.R.R. tracks
341	S	74-43	2900	Geo. J. Blum	Aliso Canyon - S. of Acton
342	S	45-17	1,50	L. Wood	1544 N. Benson Ave., Upland
343	Sp	16-04	141	F. C. Colline	Telegraph Rd. .2 mi. W. of San Gab. River
345	GG Spl	15-65	119°	Mrs. K. C. Weiss	241 N. Downey Avenue, Downey
347E	S	30-30	387	Various	Scott Place, 1 blk W. of Main St., Baldwin Pk.
348B	SA	55-42	2500	G. H. McKelvey	N. Fork of E. Fork San Gabriel River
348C		55-36		G. H. McKelvey, 5-11-38	.6 mi. N.N.E. of Camp Bonita; 5 mi. S. of "B" location
349	S	54-46	1500	J. P. Steele, 1936-37 Mrs. C. M. Schmidt-1937-38	W.Fork San Gab, 1.3 mi. W. of Forks-Camp Rincon
351D-E	Swb	86-82	2648	H. P. Schoeller	Palmdale-1 blk. E. of Main Highway
352	SA	21-21	1530	L. Cesena	4 mi. from Roosevelt Hwy. on Decker Road
353	Sp	42-26	458	R. T. Chew	Duarte Rd. at Buena Vista St., Duarte
354B	S	56-27	4527	M. M. Smith	Divide bet. Cow and San Antonio Canyon 1-¼ mi. S. W. - Camp Baldy
355	CGG	27-01	315°	Frank S. Trueblood, 1936-37	855 N. Vermont Ave., Los Angeles
	S			Frank S. Trueblood, 1937-38	
356	Sp	31-86	675	R. L. Genzel	Spadra Office-Dia. Bar Rch. -.5 mi. S.E. Pomona Boulevard
	SpA			W. P. Collins, 1937-38	
357	Scw	59-08	1248	Operator	San Fern. Power House #3, No. of Upper San Fernando Res.
358B	S	77-16	4050	A. P. Aldrich	Pallett Cr. 2½ mi. N.W. Devils Punch Bowl
360	S	50-23	2250	M. R. Larson	Haines Canyon at Rock Crusher Plant
361B	S	51-14	2975	Forest Ranger-1936-37	6 mi. from Foothill Blvd. at C.C.C. Camp
362	Sp	40-23	1085	J. D. Hoffman	W. end Mirador Drive, Pasadena
364	Swb	50-23	2250	F. C. Employee	50 ft. E. U.S.G.S. Gaging Sta., Haines Creek
365B	SA	50-84	5040	Forest Ranger-1936-37 1937-38	Sister Elsie Peak Moved 10-29-36 to Station #418
366	S	77-45	3740	L. F. Noble	½ mi. N.W. Valyermo, ½ mi. S. Big Rock Creek Road to Big Pines
367	SwbA	50-42	3450	F. C. Employee	At Upper Fork near head of Haines Canyon
371	S	54-44	1790	F. C. Employee	N. Fork Gaging Sta. San Gabriel River
372	Scw	82-76	1580	Operator	San Franciequito Cn. 11 mi. N.E. of Saugus
373	SA	50-76	2310	L. R. Bleitz	Briggs Terrace - Pickens Canyon
374	S			L.A. Examiner Employee	11th St. and Broadway, L. A.
375	S	39-16	575	B. C. Gibson	Griffith Park Zoo, Los Angeles
376	SA	76-50	3150	J. N. Booth	Little Rock, Juniper Hills
377B	Sp	V-Co.	1030	H. R. Hovey	300 ft. W. of Lake Sherwood-Ventura County
377C	Sp	V-Co.	1050	H. J. Kircher - May, 1937	1000 ft. N. of "B" location at Edge of Lake
378	Sp3"	51-09	1350	C. J. Skow	4874 Commonwealth Ave., LaCanada
379	S	54-86	1500	F. C. Employee, 1936-37	2 mi. above confluence E & W Forks-San Gab. Riv.
	SAp			F. C. Employee, 1937-38	Installed special auto for trial 12-8-37
380	SA	28-11	553	Geo. P. Morgan	4566 Bedillion St., Los Angeles
381B	CGG	25-08	100°	Paul F. Knief, 1936-37	1245 4th Street, Santa Monica
	S			Paul F. Knief, 1937-38	
382B	Sp	30-09	600	W. S. Marks	.3 mi. W. of 7th Ave. Ext. Oranage Grove Puente Hills
384A	S	39-98	655	F. B. Laverty	5332 Abbott Place, Highland Park
384B	S	40-26	825	F. B. Laverty - 1-6-37	502 Lake View Road, Pasadena
385	Sp3"	30-19	500	J. A. Smith	1058 Los Robles Ave., No. Whittier Heights
386A	Sp3"	21-71	1500	R. A. Roble, 1936-37	1 mi. beyond Summit of Latigo Rd to Ventura Blvd. in Vera. Cn.
386B	Sp3"	21-71	1500	R. H. Oakley, 1937-38	1500 ft.W. of "A" location in Dume Canyon
387	Sp	31-11	545°	H. H. Snodgrass	125 E. College St., Covina
388	CGG	9-41	72	N. B. Haydon, 1936-37	347 So. Paramount Blvd., Hynes
	S			N. B. Haydon, 1937-38	
389	Sp	43-35	825	Frank H. Brown	Cor. Penn. Ave. & Sierra Madre Ave., Glendora
390B	Sp	43-21	1210	Pasadena Water Dept.	Morris Dam-San Gabriel Canyon
391	Sp	29-08	205	Mrs. Zola Cotton	117 W. Washington Ave., Montebello
392A	Sp	40-81	1360	C. W. Barton, 1936-37	2780 Page Drive, Altadena
392B	Sp	40-71	1335	C. W. Barton May 1, 1938	1330 Hull Lane, Altadena
393	CGG	26-92	238	F. M. Casey	4213 W. 2nd St., Los Angeles
394	Sp4"	40-28	680	Robert H. Lindsay, 1936-37	6425 Elgin Street, Los Angeles
	S			Robert H. Lindsay, 1937-38	
395	S	59-57	1425	R. N. Loomis	Olive View Sanitarium, San Fernando
396	Sp	48-63	1005	L. D. Bowlus	13781 Payton Ave., San Fernando
397	Sp	50-25	1835	Philip Begue	9743 Tujunga Canyon Blvd. at Summit
398	Sp	56-85	6200	Mrs. J. H. Warner	1½ mi. E. of Ice House Resort, San Antonio Cn.
400	Ap Sp	40-63	1010	H. J. Sievert	Washington & Palm Terrace- Pasadena
401	S	50-29	2825	R. C. Bodine	Oakmont Fire Road on Verdugo Mountain
402	AS	52-52	4700	H. J. Childers, 1936-37	State Prison Camp #31, E. of Barley Flats San Gabriel Mountains
402B	SA	64-05	5585	H. J. Childers, 1937-38	State Prison Camp #35 near Chilao-S. G. Mts.

°#346 is 35 ft. above ground. #355 is 20 ft. above. #381B is 15 ft. above and #387 is 38 ft. above ground.

Sta. No.	Type Gage	Elev. U.S.G.S.		Observer	Location
403	Sp	40-90	1360	F. C. Lindvall	1850 Allen Drive, Altadena
404	CGG	39-94	653	John Opid	811 North Glendale Avenue, Glendale
405	S	73-06	2250	James E. Nelson	11-7 mi. E. of Mint Cn. on Soledad Cn. Road
408	CGG	42-88	505	Geo. E. Love, 1936-37	524 W. Broadway, W. Azusa
	S			Geo. E. Love, 1937-38	
407	S	58-82	1325	Geo. Armstrong	17700 San Fern. Rd. 1 mi. S.E. of Newhall USFS.
408	S	71-58	1472	J. Mitchell	.4 mi. S. of Soledad Cn. Rd. 1.2 mi. W. of Junction Sand Canyon and Soledad.
409	S	93-12	2425	Rex C. Farmer	18 mi. N. of Castaic Junc. New Ridge Route
410	S	81-13	2650	H. A. Hill	7½ mi. N. of Castaic Junc. New Ridge Route
411	Sp	16-10	173	V. M. Robinson	345 S. Passons Blvd. ½ mi. S. of Whittier Blvd.
412	Sp Ap	40-57	755	F. J. Doran	W. of Euclid Ave. 200 ft. N. of Glenarm, Pasa.
413	Sp Ap	40-55	852°	F. J. Doran	N.E. cor. Holly and Broadway, Pasadena
414	So Ap	40-52	1035	F. J. Doran	W. side Raymond Ave. 600 ft. N. of Wash., Pasa.
415	SA	4-30	115°	Geo. I. Osborne	Signal Hill City Hall, Long Beach
416	Sp	40-40	1179	C. C. Curtis	2424 Lincoln Ave., Altadena
417	Sp3"	41-05	742°	F. G. Weboer	150 N. Vineda St., Lamanda Park
418	SA	50-94	4250	F. C. Employee	Upper end Pickens Cn. U.S.F.S. Plots
419	SA	61-92	5450	D. W. Boore, 1937-38	Head of Pacoima Cn. on Santa Clara Rdg. Mt. Gleason
420	S	74-07	3100	C. P. Modie, 1937-38	3.3 mi. S. of Acton in Arrastra Canyon N. of Mt. Gleason
421	Scw	48-91	1173	Joseph Hand	12559 Filmore St. Mouth of Lopez Canyon
422	S	50-35	2200	B. K. Walsh, 1937-38	2 mi. above Pacoima Dam, 1 mi. W. of Dillon's Ranch
423	S	75-08	3920	Vernon Wert, 1937-38	Aliso Canyon, 6 mi. S. of Blum Ranch
424	S	44-56	1420	Howard McDanta, 1937-38	1/8 mi. below Live Oak Dam on Canyon floor
425	SA	54-49	1470	F. C. Employee, 1937-38	East abutment - San Gabriel Dam #1
426	S	77-37	4110	A. G. Graham	Big Rock Creek Gaging Station
427	S	15-64	127	Lawrence Jordan	751 W. 12th St., Downey
428	Sp	40-30	1340	H. J. Laity, 1937-38	2059 Rubio Drive, Altadena
429	S	51-83	4450	I. Bird, 1937-38	Angeles Crest Hwy., .9 mi. S. of Red Box
430	S	70-17	1176	C. T. Warren, 1937-38	Saugus - at State Road Maintenance Dept.
431	S	26-48	150	J. M. Donovan, 1937-38	3870 S. La Brea Ave., Baldwin Hills
432	Swb	52-89	203	R. B. Hosford, 1937-38	Santa Anita Canyon - Fern Lodge
433	SA	51-89	1710	A. L. Goldenberg, 1937-38	Altadena County Forestry Park - Mt. Curve Ave.
437	S	4-30	23	J. C. Vidmar, 1937-38	Hamilton Bowl, Long Beach.
508B	SA	51-39	1220	U.S. Forest Ranger	Arroyo Seco Cn. at mouth of El Prieto Canyon
	S			U.S. Forest Rngr., 1937-38	
577	AP	27-32	330°	U.S.W.B.	S.W. cor. 6th & Main Sts., L.A. on Roof
589	Sp	44-25	1400	Mrs. E. B. White	Mouth San Dimas Cn. top of Hill-E. edge of Can.
593B	Sp	08-69	675	Hilmer Metcher	3.1 mi. W. of L.A. Ventura County Line 4 mi. south of Highway
594	Sp3"	28-72	1270	A. B. Thatcher	So. Pacific Depot, Newhall
610A	Sp	40-73	993	Morris Jones	1250 N. Holliston, Pasadena
610B	Sp	40-55	864	H. J. Sievert	City Hall, Pasadena
612	Sp	51-39	1181	H. Sievert	¼ mi. upstream from mouth Arroyo Seco Canyon
618	Sp	V-Co.	980	J. M. Suller	1 mi. W. of Santa Susana, 5 mi. N.E. L.A. Ave.
676	Sp4"	13-93	173	H. F. Parkinson	1727 W. 80th St., Los Angeles
679	6" Dial	30-27	310	H. I. Morris	533 9th Avenue, North Whittier Heights
680	Sp	25-52	425	Students	U.C.L.A.
681	Sp	41-63	890	U.S.F.S., 1937-38	N. end Santa Anita Ave., Arcadia
682	Sp	51-17	1900	S.C.E. Co.	Gould Sub-Station, Angeles Crest Highway
	CGG	39-71	935	F. C. Employee, 1936-37	Don Carlos Gaging Station, Glendale
X-1A	S	35-79	980	F. C. Employee, 1936-37	Red Rock Canyon at Old Topanga Road
X-1	A	23-72	2300	F. C. Employee, 1936-37	Saddle Peak Fire Area, at Saddle Peak Road
X-2	SA	39-51	1450	F. C. Employee, 1937-38	Rossmoyne Fire Area, Glendale

° #413 is 30 ft. above ground. #415 is 10 ft. above ground. #417 is 10 ft. above and #577 is 87 ft. above ground.

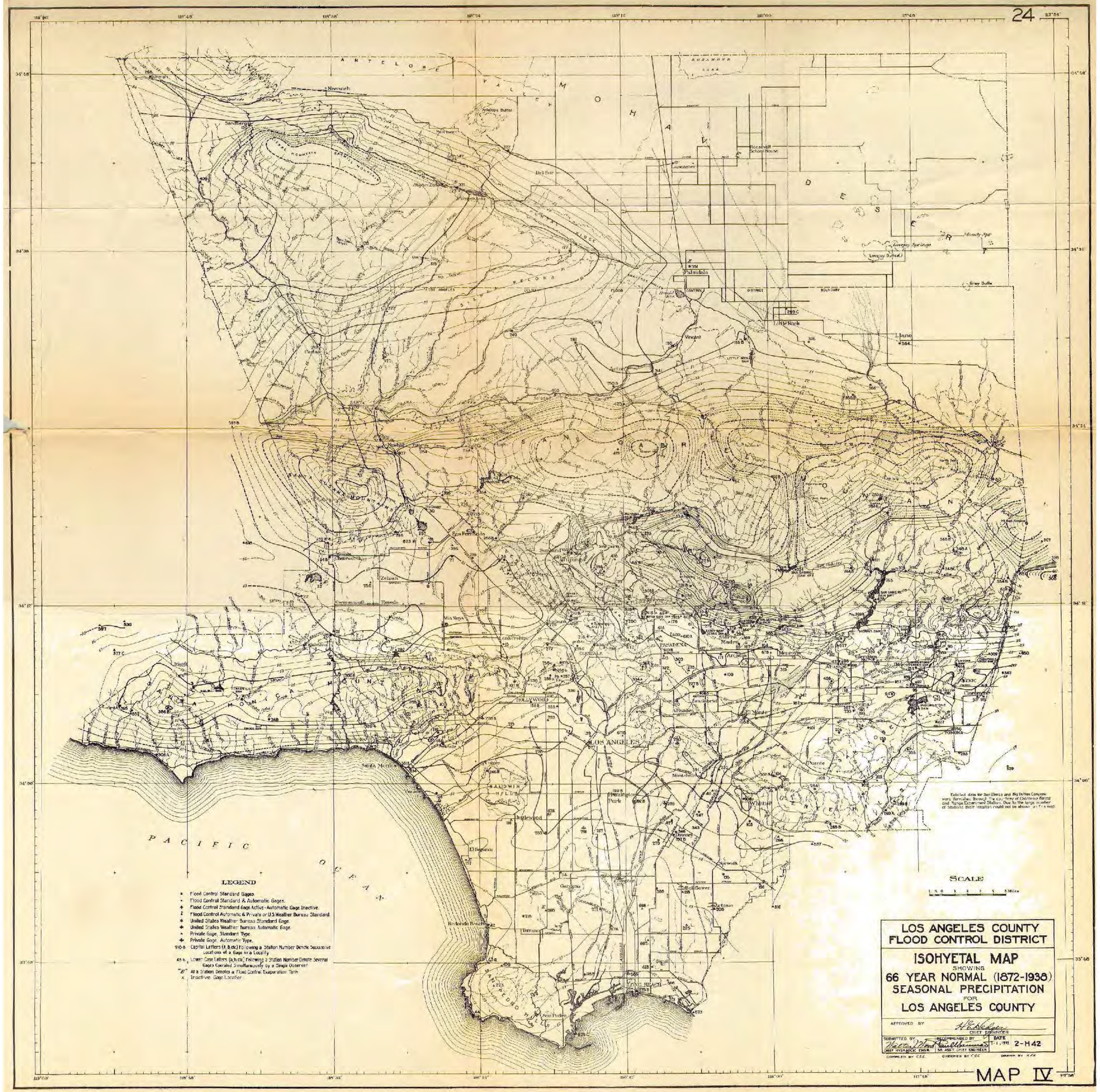
LEGEND REGARDING GAGE TYPE AND OWNERSHIP

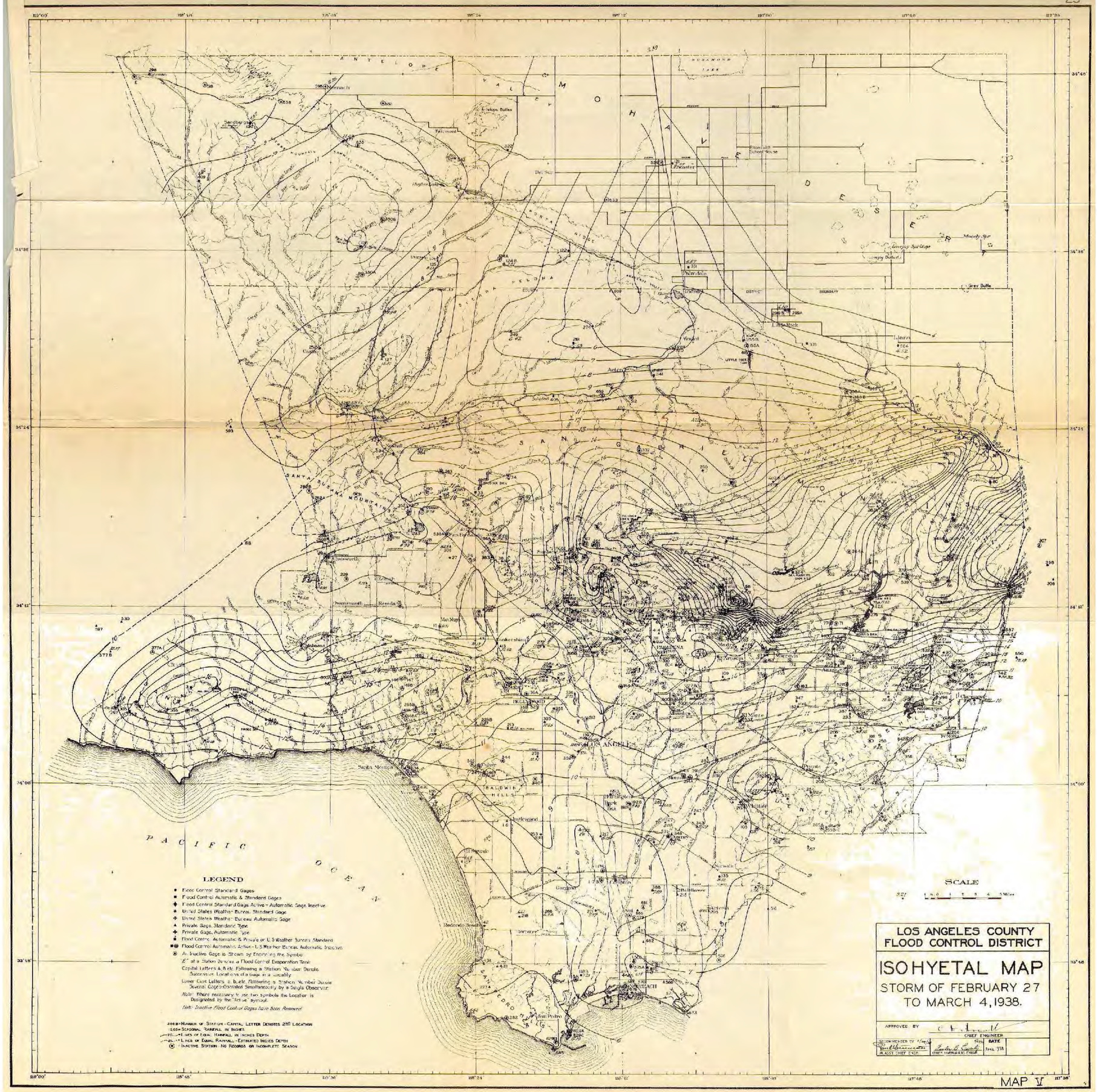
S	Standard 8" gage unless followed by number showing diameter and owned by Flood Control
A	Flood Control automatic gage - Fergusson type.
Sp	Private gage of standard type 8" diameter.
Sp3"	Standard type private 3" diameter.
Sp5"	Standard type private 5" diameter.
CGG	Special "can" gages using glass graduate for measuring.
cw	Gage owned by L. A. City Water Department.
gg	Uses glass graduate for measuring in place of stick.
co	Gage owned by L. A. County but not the Flood Control District.
Spl	Special type gage.
wb	Gage owned by U. S. Weather Bureau.
AP	Automatic tipping bucket at U.S.W.B. - L. A.

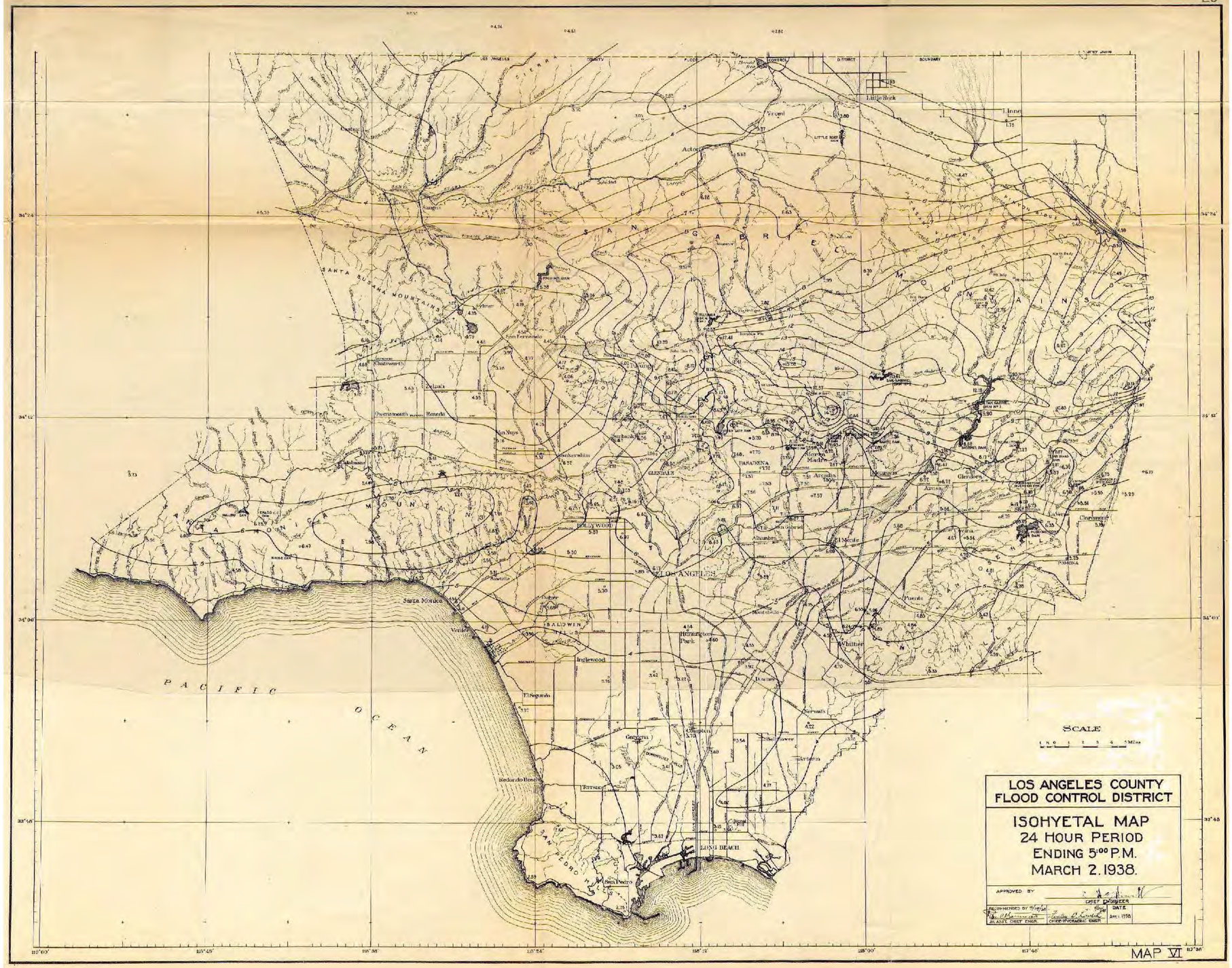
ANTELOPE VALLEY
MOHAVE DESERT
SIERRA PELONA
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
SAN GABRIEL MOUNTAINS
PACIFIC OCEAN
Neenach
Sandberg
Lancaster
Palmdale
Little Rock
Vincent
Acton
Canyon
Saugus
Newhall
San Fernando
Chatsworth
Zelzah
Reseda
Van Nuys
Burbank
Glendale
Pasadena
Sierra Madre
Arcadia
Monrovia
Azusa
Claremont
Pomona
Hollywood
Los Angeles
Santa Monica
Venice
Inglewood
El Segundo
Compton
Norwalk
Whittier
Bell
Bell Flower
Lakewood
Long Beach
Redondo Beach
San Pedro
Palos Verdes Hills
Baldwin Hills
Puente Hills
Rosamond Lake
Fairmont
Del Sur
Lovejoy Buttes
Gray Butte
Elizabeth Lake
Pelona Ridge
Sawmill Mountain
Liebre Mountain
Pleasant View Ridge
Rincon Ridge
Tujunga
Monrovia
Duarte
Irwindale
Azusa
Covina
Glendora
Arcadia
Alhambra
San Gabriel
El Monte
Montebello
Pico
Gardena
Torrance
Lawndale
Hawthorne
Inglewood
Culver City
Beverly Hills
Topanga
Malibu
Triunfo
Oxnard
Port Hueneme
Point Mugu
Simi
Moorpark
Fillmore
Santa Paula
Ventura
Oak View
Ojai
Ojai Valley
Thousand Oaks
Camarillo
Oxnard Plain
Las Posas Valley
Simi Valley
Conejo Valley
Santa Rosa Valley
Calleguas Creek
Santa Clara River
Piru Creek
Castaic Creek
Castaic Lake
Elsmere Canyon
Soledad Canyon
Agua Dulce
Sand Canyon
Placerita Canyon
Big Tujunga Canyon
Little Tujunga Canyon
Pacoima Canyon
Tapia Canyon
Malibu Canyon
Topanga Canyon
Santa Monica Canyon
Ballona Creek
Dominguez Channel
Los Angeles River
San Gabriel River
Rio Hondo
Coyote Creek
Santa Ana River
Chino Creek
Cucamonga Creek
Lytle Creek
Cajon Creek
Mojave River
Antelope Valley
Palmdale Lake
Lancaster Lake
Rosamond Lake
Elizabeth Lake
Hughes Lake
Castaic Lake
Big Tujunga Reservoir
Pacoima Reservoir
Hansen Reservoir
Sepulveda Reservoir
Stone Canyon Reservoir
Santa Anita Reservoir
Morris Reservoir
Puddingstone Reservoir
Big Dalton Reservoir
Cogswell Reservoir
San Gabriel Reservoir
Morris Dam
Santa Fe Dam
Whittier Narrows Dam
Prado Dam
Seal Beach
Huntington Beach
Newport Beach
Laguna Beach
Dana Point
San Clemente
Capistrano Beach
San Juan Capistrano
Mission Viejo
Laguna Hills
Laguna Niguel
Aliso Creek
Trabuco Creek
San Joaquin Hills
Saddleback Mountain
Santiago Peak
Modjeska Peak
Santa Ana Mountains
Chino Hills
Puente Hills
Whittier Hills
Repetto Hills
Palos Verdes Hills
Baldwin Hills
Santa Monica Mountains
Topanga Peak
Boney Mountain
Sierra Pelona
Liebre Mountain
Sawmill Mountain
Pelona Ridge
Pleasant View Ridge
Rincon Ridge
San Gabriel Mountains
Mount Baldy
Mount San Antonio
Mount Wilson
Mount Lowe
Mount Harvard
Mount Lukens
Mount Gleason
Mount Pacoima

ANTELOPE VALLEY
MOHAVE DESERT
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
PACIFIC OCEAN
Newhall
Saugus
Zelzah
Pacoima
Sunland
Glendale
Burbank
Pasadena
Monrovia
Arcadia
Alhambra
Monterey Park
Los Angeles
Hollywood
Beverly Hills
Santa Monica
Venice
Inglewood
El Segundo
Redondo Beach
Torrance
Long Beach
San Pedro
Compton
Whittier
Puente
Pomona
Vincent
Acton
Lancaster
Palmdale
Little Rock
Lyons
Grey Butte
Mesquite Lake
Rosamond Lake
Rogers Lake
Roosevelt School House
Lawrence Ranch
Detailed data for San Dimas and Big Dalton Canyons were furnished thru 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
LEGEND
Flood Control Standard Gage.
Flood Control Standard & Automatic Gages.
Flood Control Standard Gage, Active-Automatic Gage Inactive.
Flood Control Automatic And Private or U.S. Weather Bureau Standard.
United States Weather Bureau Standard Gage.
United States Weather Bureau Automatic Gage.
Private Gage, Standard Type.
Private Gage, Automatic Type.
306 B Capitals, Letters (A, B etc.) Following a Station Number Denote Successive Locations of a Gage in a Locality.
43a Lower Case Letters, (a b etc) Following a Station Number Denote Several Gages Operated Simultaneously by a Single Observer.
20 — Lines of Equal Rainfall in Inches Depth.
20 — Lines of Equal Rainfall in Inches (Dott) – Estimated.
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
ISOHYETAL MAP
SEASON 1936-1937
FOR
LOS ANGELES COUNTY
APPROVED BY
CHIEF ENGINEER
SUBMITTED BY
RECOMMENDED BY
DATE
2-H 40
MAP II

ANTELOPE VALLEY
MOHAVE DESERT
SAN GABRIEL MOUNTAINS
SANTA MONICA MOUNTAINS
PACIFIC OCEAN
Saugus
Newhall
Sandberg
Fairmont
Del Sur
Roosevelt Schoolhouse
Lovejoy Buttes
Palmdale
Little Rock
Grey Suite
Acton
Agua Dulce
Sunset
Chatsworth
Zelzah
Owensmouth
Reseda
Van Nuys
Burbank
Glendale
Pasadena
Arcadia
Monrovia
Duarte
Pomona
Hollywood
Los Angeles
Santa Monica
Venice
Inglewood
Whittier
El Segundo
Norwalk
Gardena
Redondo Beach
Long Beach
San Pedro
Alhambra
El Monte
Baldwin Hills
Puente Hills
Rosamond Lake
Mojave
Lovejoy Springs
Mouth Spr
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.
LEGEND
Flood Control Standard Gages.
Flood Control Standard & Automatic Gages.
Flood Control Standard Gage Active-Automatic Gage Inactive.
Flood Control Automatic & Private or U.S.Weather Bureau Standard.
United States Weather Bureau Standard Gage.
United States Weather Bureau Automatic Gage.
Private Gage, Standard Type.
Private Gage, Automatic Type.
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.
"E" At a Station Denotes a Flood Control Evaporation Tank.
Computed Values from 66 year Normals
SCALE
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
ISOHYETAL MAP
SEASON 1937-1938
FOR
LOS ANGELES COUNTY
APPROVED BY
CHIEF ENGINEER
SUBMITTED BY
CHIEF HYDRAULIC ENGR.
RECOMMENDED BY
ASST. CHIEF ENGINEER
DATE
5-31-39
2-H 41
COMPILED BY
CHECKED BY
DRAWN BY
MAP III


24
ANTELOPE VALLEY
MOHAVE DESERT
Neenach
Sandberg
Del Sur
Lancaster
Roosevelt School House
Palmdale
Little Rock
Llano
Vincent
Acton
Lovejoy Springs
Lovejoy Buttes
Grey Butte
Mondy Spr
Pasadena
Arcadia
Monrovia
Glendale
Hollywood
Los Angeles
Santa Monica
Venice
Inglewood
El Segundo
Rodondo Beach
Torrance
Gardena
Bellflower
Artesia
Norwalk
Whittier
Puente
Covina
Pomona
Claremont
Long Beach
San Pedro
Santa Monica Mountains
Sierra Madre
Mount Wilson
Pacific Ocean
Scale
LEGEND
Flood Control Standard Gages.
Flood Control Standard & Automatic Gages.
Flood Control Standard Gage Active - Automatic Gage Inactive.
Flood Control Automatic & Private or U.S. Weather Bureau Standard.
United States Weather Bureau Standard Gage.
United States Weather Bureau Automatic Gage.
Private Gage, Standard Type.
Private Gage, Automatic Type.
210-B Capital Letters (A, B, etc.) Following a Station Number Denote Successive Locations of a Gage in a Locality
45-b Lower Case Letters (a, b, etc.) Following a Station Number Denote Several Gages Operated Simultaneously by a Single Observer.
"D" At a Station Denotes a Flood Control Evaporation Tank
x Inactive Gage Location
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
SHOWING
66 YEAR NORMAL (1872-1938)
SEASONAL PRECIPITATION
FOR
LOS ANGELES COUNTY
APPROVED BY
CHIEF ENGINEER
SUBMITTED BY
RECOMMENDED BY
DATE
2-H42
COMPILED BY
CHECKED BY
DRAWN BY
MAP IV


ANTELOPE VALLEY
MOHAVE DESERT
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
PACIFIC OCEAN
LOS ANGELES
Santa Monica
Palmdale
Lancaster
Little Rock
Azusa
Pasadena
Glendale
Burbank
Alhambra
Monrovia
Arcadia
Whittier
Inglewood
Gardena
Redondo Beach
San Pedro
Long Beach
Compton
Downey
Norwalk
Pomona
Claremont
Covina
Baldwin Park
El Monte
Montebello
Huntington Park
Bell
Bellflower
Lakewood
Torrance
Palmdale
Lancaster
Littlerock
Gorman
Neenach
Quartz Hill
Palmdale School House
Del Sur
Grey Butte
Mescal Creek
Mescal Creek Dam
Big Rock Creek
Big Rock Creek Dam
Pearblossom
Juniper Hills
Valyermo
Wrightwood
Mt. Wilson
Mt. Harvard
Mt. Lukens
Mt. Gleason
Mt. Lowe
Mt. Disappointment
Mt. Waterman
Mt. Baldy
Mt. Hillyer
Mt. Markham
Mt. Harwood
Mt. Burnham
Mt. Lewis


LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
ISOHYETAL MAP
24 HOUR PERIOD
ENDING 5:00 P.M.
MARCH 2. 1938.
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
DATE
JR. ASS'T. CHIEF ENGR.
CHIEF HYDRAULIC ENGR.
APR. 1. 1938
SCALE
PACIFIC OCEAN
SANTA SUSANA MOUNTAINS
SAN GABRIEL MOUNTAINS
SANTA MONICA MOUNTAINS
SAN PEDRO HILLS
LOS ANGELES
PASADENA
GLENDALE
HOLLYWOOD
Santa Monica
Venice
Inglewood
El Segundo
Redondo Beach
Torrance
Gardena
Compton
Bellflower
Norwalk
Whittier
Puente
Pomona
Claremont
Glendora
Azusa
Monrovia
Arcadia
Sierra Madre
Alhambra
El Monte
Cuyama
Burbank
Sunkersham
Van Nuys
Owensmouth
Reseda
Zelzah
Chatsworth
San Fernando
Sylmar
Saugus
Acton
Vincent
Little Rock
Llano
Castaic
Sunland
Tujunga
Hunting Park
Downey
Artesia
LONG BEACH
San Pedro
Burbank
Pasadena
Glendale
Hollywood
Los Angeles
Santa Monica
Venice
Inglewood
Redondo Beach
Torrance
Gardena
Compton
Bellflower
Norwalk
Whittier
Puente
Pomona
Claremont
Glendora
Azusa
Monrovia
Arcadia
Sierra Madre
Alhambra
El Monte
Cuyama
Burbank
Sunkersham
Van Nuys
Owensmouth
Reseda
Zelzah
Chatsworth
San Fernando
Sylmar
Saugus
Acton
Vincent
Little Rock
Llano
Castaic
Sunland
Tujunga
Hunting Park
Downey
Artesia
LONG BEACH
San Pedro
34°24'
34°12'
34°00'
33°48'
119°00'
119°48'
118°36'
118°24'
118°12'
118°00'
117°48'
117°36'

MAP VI

EVAPORATION RECORDS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Department

REPORT ON EVAPORATION

Seasons of 1936-37 and 1937-38

FOREWORD:

The District has continued the use of evaporation tanks at rainfall stations as in former years. The same observer thus reads both rainfall and evaporation at one time. In many instances the observer has added other instruments to make a more nearly complete weather station and in such cases the District has received these records also.

Evaporation tanks situated near reservoirs and spreading grounds furnish data which may be correlated with the records of these reservoirs and spreading grounds. The evaporation data are used also by individuals and agencies for various purposes.

NUMBER OF STATIONS:

The District maintained 23 evaporation stations in 1936-37 and 1937-38. 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 type of evaporation pans.

EQUIPMENT:

The land pan in use by the District is 24 inches in diameter and 36 inches in depth and is sunk in the ground 33 inches, with the water surface at ground level. A one quarter inch brass rod embedded in a block of concrete to hold it in a vertical position, is placed in the center of the tank. This rod has a sharp point at the upper end, and serves as a reference point for water levels.

The lake pan in use at San Gabriel Dam #2 is 30 inches square and 18 inches deep with a 6 inch wave baffle to protect the pan from water splashing in on all sides. This pan is floated on suitable rigging so that the pan is submerged to make the reservoir surface and water level in pan identical.

VARIATION IN DATA:

The following table indicates the maximum rates of evaporation at District stations for the Seasons of 1936-37 and 1937-38, these occurred at Palmdale:

	1936-37	1937-38
Maximum Seasonal Amt. Inches	92.454	96.295
Maximum Monthly Amt. Inches	15.960-July	15.770-July
Maximum Daily Amt. Inches	.850-July 30th	.825-July 2nd.
Minimum Monthly Amt. Inches	2.084-January	2.380-February

The next largest seasonal evaporation measured in the District's pans was at Encino Reservoir in the San Fernando Valley, for Seasons 1936-37 and 1937-38. The lowest seasonal evaporation for the Season 1936-37 was 48.200 inches at La Habra Heights; and for the Season 1937-38, 33.560 inches at the San Dimas Canyon station.

During some winter months, a number of stations indicate 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.

TABLE 1

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

EVAPORATION RECORDS
IN INCHES

Season 1936-37

	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
23	Chatsworth	6.105	6.700	3.460	2.820	2.440	4.285	6.120	5.460	6.975	10.075	9.750	8.875	73.065
32	Newhall	6.105	5.710	3.230	1.995	2.145	3.365	6.325	5.835	7.515	8.545	9.595	8.380	68.745
33	Pacoima Dam	5.560	5.650	3.080	.735•	1.940	3.825	5.400	3.925	4.850	7.170	6.585	6.990	55.710•
46	Big Tujunga	5.175	3.875	1.650	.580	1.275	2.650	4.500	5.200	7.225	9.175	9.025	8.325	58.650
57	Opid's	3.890	2.294	.660•	Froz	Froz	1.320	2.949	6.040	8.340	10.665	11.210	7.910	55.278•
63	Santa Anita	8.090	6.535	3.935	1.990	2.375	4.045	5.260	4.680	5.245	7.905	8.080	7.550	63.690
70	Dalton	6.335	7.215	4.220	1.935	2.645	4.280	5.585	5.720	7.375	10.135	10.050	9.500	75.625
75	Edison Intake	4.995	3.685	1.820	.950	1.755	3.180	5.190	5.025	6.765	8.115	8.420	7.740	57.640
83	Big Pines Pk.	5.153	3.270	P A R T		F R O Z E N			7.047	9.265	10.125	10.400	8.440	53.700•
89	San Dimas Dam	5.360	3.790	1.540	.335•	.905	2.035	2.795	3.270	4.750	7.711	8.455	7.715	48.661•
96	Puddingstone	7.375	6.725	3.907	2.360	2.150	3.330	5.500	5.757	7.580	10.235	9.725	8.950	73.584
128	Radium Ht. Spg.	6.627	4.880	2.710	1.140	2.125	3.470	6.260	6.485	9.190	11.665	11.275	9.370	75.197
157	El Segundo	4.890	4.885	3.525	3.560	2.710	5.065	6.555	6.360	8.080	9.065	7.570	7.045	69.340
223	Big Dalton	6.225	5.000	2.925	1.500	1.925	3.275	5.750	5.000	6.600	9.400	9.400	8.250	65.250
248W.	Saddle Pk.	3.960	3.285	1.490	1.185	1.445	2.875	4.425	4.455	6.505	7.960	7.250	6.415	51.250
261	Acton (near)	5.965	6.740	3.510	1.805	2.655	4.350	6.355	7.623	9.945	13.265	13.535	10.580	87.338
265	Puente Hills	4.155	4.285	2.245	1.615	1.260	2.300	3.410	4.100	5.530	6.420	6.755	6.125	48.200
268	Torrance	4.705	2.310	1.155	1.005	1.410	3.960	5.515	6.035	7.325	8.490	7.695	7.110	56.715
292	Encino-F. C.	6.750	6.881	3.485	2.320	2.580	4.252	8.375	7.690	9.445	13.420	11.560	10.585	87.343
	" USWB	5.750	5.412	2.544	1.776	2.208	3.708	7.248	6.324	7.376	11.364	10.820	9.192	73.532
	" Lake	5.448	4.632	2.916	2.088	1.956	3.204	6.396	6.204	7.032	9.384	8.508	7.608	65.376
334	S.G.#2 Lake Pan	N.I.#	N.I.#	N.I.#	N.I.#	N.I.#	N.I.#	N.I.#	4.370	6.690	8.600	8.275	N.I.#	27.935'
334	S.G.#2 Land Pan	5.790	4.675	1.885	1.070	1.810	2.685	6.060	6.280	8.390	11.395	10.640	10.395	71.075
321	Pine On. Patr.	6.440	4.725	2.545	1.360•	1.580	3.095	5.595	6.715	8.485	12.050	10.775	8.075	71.540•
347	Bald. Pk.-F. C.	5.110	4.045	1.957	1.410	2.060	3.845	5.820	6.035	8.320	10.170	10.210	8.210	67.192
	" " USWB	4.780	3.850	2.000	1.460	2.370	4.020	5.770	5.250	7.780	9.070	8.220	7.130	61.700
	" " 6 ft.	3.610	2.950	1.690	1.050	1.740	3.090	4.670	4.510	6.290	7.720	7.370	5.680	51.480
	" " 2 ft.	4.500	3.410	1.900	1.290	1.980	3.340	5.000	5.110	7.170	8.960	8.480	7.360	58.500
351	Palmdale	6.975	4.450	2.555	2.084	2.440	4.055	6.215	9.920	12.080	15.960	14.765	10.955	92.454

TABLE II

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

EVAPORATION RECORDS
IN INCHES

Season 1937-38

		Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
23	Chatsworth	6.425	3.775	5.265	5.870	2.625	4.540	5.775	7.680	7.945	9.600	9.725	8.965	76.190
32	Newhall	6.795	3.885	3.520	3.545	1.750	3.580	5.160	6.990	6.565	9.325	9.185	8.180	68.480
33	Pacoima Dam	5.590	3.265	3.045	3.185	1.835	3.215	4.215	3.965	3.915	6.090	6.700	7.485	52.505
46	Big Tujunga	5.925	3.425	2.825	2.525	1.525	2.075	3.660	5.440	7.150	9.175	9.225	8.030	60.980
57	Opid's	4.935	1.905	1.300•	.980•	.275•	1.049•	3.120	5.135	7.190	8.830	8.075	5.450	48.244•
63	Santa Anita	6.015	3.730	4.220	3.955	2.490	3.000	3.710	4.370	4.435	6.100	6.995	7.005	56.025
70	Dalton	7.575	4.380	3.975	3.735	2.970	3.633	4.935	5.942	6.265	8.170	8.515	8.400	68.495
75	Edison Intake	5.940	3.570	D I S C O N T I N U E D										9.510'
83	Big Pines Pk.	6.215	4.115	Froz.	Froz.	Froz.	Froz.	Froz.	6.805	8.390	9.155	9.305	7.070	51.055•
89	San Dimas Dam	6.640	2.850	2.840	1.580	.475	.945	1.790	1.540	1.935	3.280	4.455	5.250	33.560
96	Puddingstone	6.965	4.330	3.879	3.525	2.178	3.001	3.820	4.820	6.500	9.300	9.755	8.880	66.953
128	Radium Ht. Spg.	7.090	4.060	3.195	3.125	1.940	3.355	5.495	6.465	7.990	11.165	10.675	8.970	73.525
157	El Segundo	5.125	3.460	3.500	3.805	3.580	5.840	6.765	7.305	8.055	8.540	8.940	6.920	71.835
223	Big Dalton	6.975	3.800	3.225	3.400	2.650	2.125	2.650	3.450	6.075	8.950	8.800	7.530	59.630
248W.	Saddle Pk.	4.855	2.680	2.665	2.720	1.585	2.690	3.595	5.175	4.960	6.940	7.200	5.950	51.035
261	Acton (near)	7.920	4.625	4.300	4.360	2.350	3.240	5.620	7.320	9.255	11.865	11.620	9.510	81.985
265	Puente Hills	4.300	2.560	2.970	2.850	1.800	2.440	3.470	4.240	5.035	6.445	6.805	6.365	49.080
268	Torrance	5.150	2.075	1.800	1.650	1.416	4.497	5.375	6.835	7.020	8.545	8.240	7.410	60.013
292	Encino-F. C.	8.145	4.445	4.094	4.535	2.690	4.370	6.780	9.320	8.355	11.695	12.125	11.360	87.914
	" USWB	6.732	3.300	2.988	3.468	2.088	5.388	5.988	7.776	8.280	10.392	10.776	9.300	76.476
	" Lake	5.580	3.432	2.664	3.276	2.160	4.704	5.136	6.756	7.104	8.748	9.372	7.740	66.672
334	S.G.#2 Lake Pan	N.R.	N.R.	N.R.	N.R.	N.R.	1.392'	4.302	5.155	6.025	8.068	3.790'	N.R.	28.732'
334	S.G.#2 Land Pan	7.915	4.950	3.635	3.168	4.920	3.075	5.455	6.875	8.985	11.860	11.740	10.660	83.238
321	Pine On. Patr.	5.660	2.925	3.110	2.475	1.620	2.625	4.920	6.000	8.120	9.715	9.055	7.225	63.450
347	Bald. Pk.-F. C.	5.093	2.975	2.330	2.495	1.950	3.385	4.705	6.740	7.320	8.985	8.855	7.425	62.258
	" " USWB	4.700	2.750	2.510	2.640	2.530	3.780	4.870	6.690	6.860	8.790	8.470	7.110	61.700
	" " 6 ft.	4.110	2.320	1.960	1.990	1.720	2.990	3.970	5.420	6.040	7.430	7.130	5.960	51.040
	" " 2 ft.	4.840	2.940	2.440	2.280	2.020	3.070	4.310	6.110	6.850	8.580	8.240	7.030	58.690
351	Palmdale	7.080	4.815	2.710	2.785•	2.360	4.320	6.485	11.120	14.625	15.770	14.185	10.020	96.295•
425	San Gab. Dam #1	7.269'	4.369	3.735	3.405	2.270	2.565	5.085	6.765	7.130	9.425	10.030	9.930	71.978

LEGEND

Records incomplete - partly frozen	•
N.I. - Not installed	#
N.R. - No records taken	
Interpolated from Robert's Relay Station	+
Incomplete record	'

TABLE III

MONTHLY EVAPORATION AT CHATSWORTH RESERVOIR

STATION #23

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	7.475	5.245	3.686	4.095	3.302	5.900	7.235	7.615	8.410	10.100	10.350	7.355	80.768	6.731
32-33	7.655	7.600	4.310	4.688	5.425	6.605	5.705	8.055	8.300	10.025	9.525	6.925	84.818	7.068
33-34	6.690	8.125	2.500	5.460	2.565	5.325	7.925	9.400	6.685	10.425	9.550	8.680	83.330	6.944
34-35	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	5.699
35-36	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	6.781
36-37	6.105	6.700	3.460	2.820	2.440	4.285	6.120	5.460	6.975	10.075	9.750	8.875	73.065	6.089
37-38	6.425	3.775	5.265	5.870	2.625	4.540	5.775	7.680	7.945	9.600	9.725	8.965	78.190	6.516
Total	48.445	40.150	27.536	31.099	22.842	34.225	41.570	51.535	54.880	71.045	68.920	57.685	549.932	45.828
Mean	6.921	5.736	3.934	4.443	3.263	4.889	5.939	7.362	7.840	10.149	9.846	8.240	78.562	

MONTHLY EVAPORATION AT PALMDALE

STATION # 351

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	7.345	4.60	3.11	2.865	2.095	6.505	8.110	10.666	12.695	16.610	17.140	13.025	104.766	8.731
32-33	8.145	4.690	2.870	1.975	3.555	5.700	7.355	8.955	11.520	17.000	13.890	11.600	97.255	8.105
33-34	8.725	4.950	2.690	2.793	3.685	6.290	9.300	12.700	12.345	16.160	15.640	10.950	106.228	8.852
34-35	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°	7.891
35-36	7.705	4.115	3.115°	3.660	2.155	6.695	7.655	11.425	13.330	15.150	14.845	11.575	101.265°	8.440
36-37	6.975	4.450	2.555	2.084	2.440	4.055	6.215	9.920	12.080	15.960	14.765	10.955	92.454	7.705
37-38	7.080	4.815	2.710	2.785°	2.380	4.320	6.485	11.120	14.625	15.770	14.185	10.020	96.295°	8.025
Total	52.750	31.160	18.845	17.767	18.965	37.425	51.875	75.506	92.140	113.015	103.660	79.850	692.978	57.749
Mean	7.536	4.451	2.692	2.538	2.712	5.346	7.411	10.787	13.164	16.144	14.809	11.407	98.997	

MONTHLY EVAPORATION AT ENCINO RESERVOIR

(LAND PAN) STATION #292

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1932-33	7.580	7.495	3.845	4.930	5.300	7.190	7.072	9.386	9.135	11.388	10.793	8.058	92.172	7.681
33-34	7.797	7.568	3.460	4.965	3.060	7.305	9.030	11.335	7.720	12.145	10.755	10.930	96.070	8.006
34-35	7.840	4.510	3.795	2.710	4.290	3.945	5.585	7.255	8.975	11.900	11.980	9.560	82.345	6.862
35-36	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	7.538
36-37	6.750	6.881	3.485	2.320	2.580	4.252	8.375	7.690	9.445	13.420	11.560	10.585	87.343	7.279
37-38	8.145	4.445	4.094	4.535	2.690	4.370	6.780	9.320	8.355	11.695	12.125	11.360	87.914	7.326
Total	45.737	35.714	22.569	23.670	20.145	32.377	43.247	54.831	54.570	72.733	69.638	61.068	536.299	44.692
Mean	7.623	5.952	3.762	3.945	3.358	5.396	7.207	9.139	9.095	12.122	11.606	10.178	89.383	

MONTHLY EVAPORATION AT PUDDINGSTONE DAM

STATION #96

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1929-30	7.90	7.73	5.32	2.29	2.76	3.60	4.52	4.64	6.73	11.65	10.52	7.37	75.03	6.25
30-31	7.43	3.30	5.24	3.25	1.67	5.78	5.27	5.86	7.29	10.17	9.16	8.66	73.08	6.09
31-32	6.04	3.735	2.325	2.235	1.605	4.200	5.47	5.500	6.650	9.415	9.295	6.695	63.165	5.266
32-33	6.530	6.725	3.380	3.295	3.685	5.325	5.175	6.165	7.250	10.065	9.375	6.585	73.785	6.149
33-34	6.990	7.325	4.175	4.100	2.675	4.440	4.745	8.815	6.390	9.990	9.870	8.553	77.868	6.489
34-35	8.460	3.870	3.495	2.720	2.650	3.325	3.840	5.730	6.720	9.485	9.845	7.685	65.625	5.469
35-36	6.685	5.190	4.350	3.965	2.455	3.865	4.655	7.610	8.605	10.100	10.775	9.240	77.496	6.458
36-37	7.375	6.725	3.907	2.350	2.150	3.330	5.500	5.757	7.580	10.235	9.725	8.950	73.584	6.132
37-38	6.965	4.330	3.879	3.525	2.178	3.001	3.820	4.820	6.500	9.300	9.755	8.880	68.953	5.579
Total	62.375	48.760	36.071	27.730	22.028	36.867	42.995	54.897	63.715	90.410	88.120	72.618	646.586	53.880
Mean	6.931	5.418	4.008	3.081	2.448	4.096	4.777	6.100	7.079	10.046	9.791	8.069	71.843	

MONTHLY EVAPORATION AT ENCINO RESERVOIR

(LAKE PAN)

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1932-33	6.252	5.412	3.394	3.66 +	3.696	4.788	5.476	7.260	7.212	9.276	9.384	7.164	72.974+	6.081
33-34	6.024	5.700	2.856	3.564	1.788	4.824	6.888	8.460	6.120	9.204	8.868	8.208	72.504	6.042
34-35	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	5.066
35-36	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	5.718
36-37	5.448	4.632	2.916	2.088	1.956	3.204	6.396	6.204	7.032	9.384	8.508	7.608	65.376	5.448
37-38	5.580	3.432	2.664	3.276	2.150	4.704	5.136	6.756	7.104	8.748	9.372	7.740	66.672	5.556
Total	36.132	25.824	17.614	17.004	14.556	23.976	32.188	41.568	42.900	54.948	54.276	45.948	406.934	33.911
Mean	6.022	4.304	2.936	2.834	2.426	3.996	5.365	6.928	7.150	9.158	9.046	7.658	67.823	

MONTHLY EVAPORATION AT SAN GABRIEL DAM #1

STATION #425°°

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Mean
1931-32	5.24	3.51	1.310	1.690	2.020	4.135	5.445	6.050	7.165	8.900	9.755	7.690	62.910	5.243
32-33	6.640	4.940	1.965	1.585	2.930	4.460	5.135	5.705	7.645	8.167	8.713	6.770	64.645	5.387
33-34	6.350	4.905	2.140	2.310	2.105	4.810	5.610	5.930	7.590	9.810	8.360	7.055	66.975	5.581
34-35	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	4.306
35-36	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	4.965
36-37	4.995	3.685	1.820	.950°	1.755	3.180	5.190	5.025	6.765	8.115	8.420	7.740	57.640	4.803
37-38	7.269	4.369	3.735	3.405	2.270	2.565	5.085	6.765	7.130	9.425	10.030	9.930	71.978	5.998
Total	39.919	27.484	15.225	13.710	14.445	25.409	33.655	39.720	50.425	60.352	61.603	53.460	435.407	36.284
Mean	5.703	3.926	2.175	1.959	2.063	3.629	4.808	5.674	7.204	8.622	8.800	7.637	62.201	

°°NOTE: Formerly at Station #75 B, Edison Intake to Nov. 1937

EVAPORATION RECORDS IN INCHES

LEGEND FOR EVAPORATION RECORDS

Maximum monthly amount for the period _____

Minimum monthly amount for the period _ _ _ _ _

Records incomplete - partly frozen °

Records partly estimated +

DAM RECORDS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Department

DAM OPERATION

Seasons of 1936-37 and 1937-38

FOREWORD:

Following the damaging floods of 1913-14 and 1915-16, Los Angeles County embarked on a program of flood control and water conservation including the construction of several dams. The first bond issue voted for flood control was the issue of 1917. Devil's Gate, the first of the three dams built under this issue, was completed in 1920. The next bond issue was voted in 1924. Under this issue, ten flood control dams and one debris dam were built, of which the recently completed San Gabriel Dam #1 was the last.

In addition to the above, the District has constructed and maintains several debris basins. The United States Engineer Department has constructed one debris dam and several debris basins which also have been given to the Flood Control District for maintenance and operation.

Dams Owned and Operated By Los Angeles County Flood Control District

	Dam	Date of Completion	Drainage Area Sq.Mi.	Original Storage Ac.-ft.	Funds Constructed By	
1	Big Dalton	Aug. 1929	4.49	1290.	Bond Issue	1924
2	Devil's Gate	June 1920	30.62	4554.	Bond Issue	1917
3	Eaton Wash	Feb. 1937	9.48	956.3	Federal Funds	
4	Live Oak	Nov. 1922	2.30	250.	Bond Issue	1917
5	Pacoima	Feb. 1929	27.77	6059.5	Bond Issue	1924
6	Puddingstone	Jan. 1928	o14.9	17398.	Bond Issue	1924
* 7	Puddingstone Div.	July 1928	2.57	147.5	Bond Issue	1924
8	San Dimas	Sept. 1922	15.92	1496.	Bond Issue	1917
9	San Gabriel #1	July 1939	oo161.74	53344.	Bond Issue	1924
10	San Gabriel #2	Apr. 1934	40.42	12298.4	Bond Issue	1924
11	Santa Anita	Mar. 1927	10.82	1376.4	Bond Issue	1924
12	Sawpit	June 1927	3.27	476.	Bond Issue	1924
**13	Sierra Madre	Feb. 1928	2.39	55.	Bond Issue	1924
**14	Sunset Canyon	Nov. 1929	0.44	9.	Maintenance Funds	
15	Thompson Creek	Mar. 1928	3.91	812.	Bond Issue	1924
16	Tujunga	July 1931	81.35	6240.	Bond Issue	1924

Total Controlled Drainage Area 412.39 sq. mi. by 106,761.7 acre-feet storage capacity.

* For diversion of flow only.
** Debris Dams.
o Exclusive of Live Oak and San Dimas Dams.
oo Exclusive of San Gabriel Dam #2.

Debris Basins Owned and Operated By Los Angeles County Flood Control District

Debris Basins	Date of Completion	Funds Constructed by
1 Brand	11-12-35	Flood Control District
2 Dunsmuir	*10-20-36	United States Engineer Dept.
3 Hall-Beckley	2-21-35	Flood Control District
4 Hay	*10-20-36	United States Engineer Dept.
5 Eagle-Goss	*10-20-36	United States Engineer Dept.
6 Pickens	2-19-35	Flood Control District
7 Shields	*1-26-37	United States Engineer Dept.
8 Snover	*3-9-37	United States Engineer Dept.
9 Nichols	11-23-37	Flood Control District
10 Verdugo	3-9-35	Flood Control District
11 Las Flores	4-15-36	Flood Control District
12 Lincoln	1-17-36	Flood Control District
13 Fair Oaks	12-29-35	Flood Control District
14 West Ravine	12-10-35	Flood Control District
15 Fern	12-5-35	Flood Control District
16 Haines	*8-24-38	United States Engineer Dept.

*Date taken over by Los Angeles County Flood Control District.

PURPOSE:

The flood control dams are primarily flood control and secondarily conservation structures. When conditions permit, the flood waters are stored to be released when the runoff below the dams has subsided; these releases are usually made in sufficiently small quantities so that they either percolate or are used directly for irrigation. The value of water conserved in this manner amounts to hundreds of thousands of dollars annually.

RECORDS:

(1) "Dam Data Sheets" giving the pertinent physical and historical data on each dam.

The storages shown on these data sheets have been corrected for the debris loss resulting from the March 2, 1938 flood. In the case of Thompson Creek Dam and Puddingstone Dam, the storages have not been corrected as the debris loss was negligible.

Due to the 1938 flood certain dams suffered actual damage to their outlet structures; and other dam outlets were in danger of being rendered inoperative by debris encroachment. These conditions have been corrected by the construction of outlet risers following the period covered by this report and are not shown on the data sheets. These repairs were made on Pacoima, Tujunga, Devil's Gate, Santa Anita, San Dimas and Sawpit Dams. The data sheet on San Gabriel Dam #1 shows the conditions on completion of outlet valves on September 30, 1938.

The reservoir was drained prior to September 13, 1938 through temporary outlet valves.

(2) "Dam Operation Records" show the daily water surface elevation, storage in acre-feet, inflow and outflow in second-feet, and the monthly and yearly inflow and outflow totals. The mean daily inflows are usually determined from storage change and known outflows with no allowance for evaporation. The outflows are usually determined from known valve openings or gaging station records. Storage losses at Devil's Gate and Eaton Dams are largely due to percolation in the reservoirs. Allowances are made for these percolation losses as noted on the operation sheets.

(3) "Hydrographs" showing inflow and outflow at the flood control dams are included for the storm of February 28 to March 3, 1938. These will show the flow retardation and the peak flow reduction realized during the storm.

SUMMARY:

The yearly runoff into the dams for the two seasons included in this report are the highest of record. During the Seasons of 1936-37, the storms were so well distributed that almost the entire yearly total inflow into the reservoirs was conserved by allowing the waters to percolate into the channels and spreading grounds below the dams or by storing for use during the dry summer period.

During the Season of 1937-38, 383,800 acre-feet inflow or 67 percent of the total yearly inflow occurred in the month of March. A large portion of this flow was necessarily wasted to the ocean. The following table gives a comparison of the yearly flows with capacities of the reservoirs.

	Dam	Storage Capacity at Spillway Lip Prior-3-2-38	Inflow Ac.-ft. 1936-37	Inflow Ac.-ft. 1937-38	Ratio of 1936-37 Infl.to Storage Capacity	Ratio of 1937-38 Infl.to Storage Capacity
1	Big Dalton	1053.4	1879.3	3271.3	1.78	3.11
2	Devil's Gate	4014.6	12030.3	25436.5	3.00	6.34
3	Eaton Wash	944.8	#3061.6	6993.4	#3.24	7.40
4	Live Oak	242.1	493.8	800.4	2.04	3.31
5	Pacoima	5592.0	15736.8	25878.5	2.81	4.63
6	Puddingstone	17398.0	o5731.5	o12220.9	o .33	0.70
7	San Dimas	1372.9	6315.6	12491.7	4.60	9.10
8	San Gabriel #1	53344.0		339155.0		6.35
9	San Gabriel #2	12298.4	32985.7	60336.3	2.68	4.91
10	Santa Anita	1014.3	8798.5	16594.2	2.67	16.36
11	Sawpit	389.0	1433.7	2909.2	3.69	7.48
12	Thompson Creek	812.0	274.1	1099.1	0.34	1.35
13	Big Tujunga	6240.0	26969.3	64855.0	4.32	10.39
	Total	104715.5	115710.2	572041.5	oo1.10	oo5.46

* Record commenced 2-27-37.
o Puddingstone has partially controlled inflow.
oo Average for all dams.

Flood of March 2, 1938:

The storm of March 2, resulted in the largest flood of record and subjected most of the District's dams to as severe a test as they will probably ever undergo in the future. The volumes of flow were so great that in several instances little or no flow reduction was accomplished by the dams. The following table shows the magnitude of the volumes in relation to the capacity of the reservoir. Both the volume for the maximum four day runoff period and the maximum day are compared.

Dam	Storage Capacity at Spillway Lip Prior-3-2-38	Max. 4 Day Inflow A.F.	Max. Day Inflow A.F.	Ratio of 4 Day Infl. to Storage Capacity	Ratio of Max. Day Infl. to Storage Capacity
1 Big Dalton	1053.4	1477.9	823.3	1.40	.78
2 Devil's Gate	4014.6	11787.6	7379.1	2.94	1.84
3 Eaton Wash	944.8	3048.4	1750.8	3.23	1.85
4 Live Oak	242.1	465.7	292.4	1.92	1.21
5 Pacoima	5592.0	9424.5	4674.2	1.69	0.84
6 Puddingstone	17398.0	o7880.3	o4361.7	o0.45	o .25
7 San Dimas	1372.9	5107.8	3174.7	3.72	2.31
8 San Gabriel #1	53344.0	114716.0	60991.7	2.15	1.14
9 San Gabriel #2	12298.4	25053.8	15851.9	2.04	1.29
10 Santa Anita	1014.3	6345.7	3526.4	6.26	3.48
11 Sawpit	389.0	1289.1	761.5	3.31	1.96
12 Thompson Creek	812.0	865.2	514.1	1.07	0.63
13 Big Tujunga	6240.0	32958.1	23861.5	5.28	3.82
Total	104715.5	220420.1	127963.3	*2.10	*1.22

o Controlled Inflow.
* Average for all dams.

RESPONSIBILITY:

Preparation of the operation records was under the direction of H. A. van der Goot and the supervision of W. J. Wood, Assistant Chief Hydraulic Engineer. Compilation of the data shown on the flood hydrographs was under the supervision of M. F. Burke, Hydraulic Engineer.

Dam maintenance and operation was under the direct supervision of F. B. Laverty and F. H. Hay.

DAM DATA SHEETS

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - Big Dalton Dam
Location - Big Dalton Canyon 4 mi. N.E. of Glendora
Stream - Big Dalton Creek
Purpose - Flood Control and Conservation
Type - Concrete - Multiple Arch - Gravity Abutments
Bond Issue - 1924
Drainage Area - 4.49 sq. mi. from elev. 1711.0 to elev. 3636.0 feet above mean sea level

DIMENSIONS:

Crest Ht. above orig. streambed	146.0 ft.
Crest Ht. above foundation	170.0 ft.
Crest Length	480.0 ft.
Crest Width	5.0 ft.
Ht. of Parapet Wall	3.0 ft.
Base Thickness of Buttress	195.0 ft.

EXCAVATION AND FILL:

Total Vol. of Excavation 108,817 c.y.
Total Vol. of Concrete 45,049 c.y.
Character of Foundation - Granite and Diorite

OUTLETS:

No.	Type	Size	℄Elev. Inlet	℄Elev. Outlet	Area Outlet	Max. at Disch.	W. S. Elev.
A	Sluice Gate	3'x3'	1576.0	1569.0	7.07 sq.ft.	-----	------
B	Gate Valve	4"	1613.5	1609.±	-----	-----	------
C	Gate Valve (By-Pass#1)	12"	1614.0	1618.0	0.785 sq.ft.	-----	------
1	Pelton Valve	42"	1614.0	1613.0	9.62 sq.ft.	498 cfs.	1706.0
2	Butterfly Valve	48"	1640.0	1613.0	12.58 sq.ft.	633 cfs.	1706.0
3	Butterfly Valve	48"	1670.0	1613.0	12.58 sq.ft.	533 cfs.	1706.0

Spillway No.	Type	Sill Elev.	Length	Max. at Disch.	W. S. Elev.
I	Circ. O. G. Weir	1706.0	66.84 ft.	5310	1714.0

ELEVATIONS AND CAPACITIES:

	Elev.	Storage		Sill Elev.	Storage
Orig. streambed	1585.0	0.0 a.f.	Spillway 1	1706.0 ft.	968.7 a.f.
Lowest Excav.	1541.0	0.0 a.f.	Valve #A	1575.0 ft.	0.0 a.f.
Crest	1711.0	1087.9 a.f.	Valve #B	1613.5 ft.	5.9 a.f.
Top of Parapet	1714.0	1163.4 a.f.	Valve #1	1612.4 ft.	4.5 a.f.
Assmd.H.W. Line	1711.0	1087.9 a.f.	Valve #2	1638.0 ft.	74.4 a.f.
			Valve #3	1668.0 ft.	324.7 a.f.

CONSTRUCTION:

Began - Dec. 1937
Completed - Aug. 1929.
Cost $1,020,525.07
Cost per a.f. F.C. 868.31
Cost per a.f. Conserv. 968.79
Constructed by Rohl Contracting Co.
Resident Engineer - B. R. Metcalf
Designed & Comput.- L.A.C.F.C.D. Design Dept.

REMARKS:

Capacities corrected for debris loss following 3-2-38, Capacity at spillway lip prior to 3-2-38, 1053.4 a.f., following 3-2-38, 968.7 a.f. Costs per a.f. based on original capacities.
U.S.G.S. Datum = Spillway Datum - 0.10. Spillway Datum used.
Revised - Apr. 11, 1939
H.A.V. - M.W.R.
Checked: E.C.V.-Design Dept.

Approved by _____ Chief Engineer
Date 5/16/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - Eaton Wash Debris Dam
Location - Eaton Wash N.E. of Pasadena
Stream - Eaton Creek
Purpose - Flood Control and Debris Storage
Type - Earthfill - Clay Core
Constructed by Federal Funds
Drainage Area - 9.48 sq. mi. from elev. 840 to elev. 6756 above mean sea level.

DIMENSIONS:

Crest Ht. above orig. streambed	62 ft.
Crest length to spillway	1525 ft.
Crest Width	15 ft.
Base Thickness	375 ft.

FILL:

Character of Foundation - Gravel
Total Vol. of Earthfill - 470,274 c.y.

OUTLETS:

No.	Type	Size	Sill Elev. Inlet	Sill Elev. Outlet	Area Outlet	Max. at Disch.	W. S. Elev.
1-4	4 Slide Gates	5x7'	843.0	841.0	34.5 sq.ft.	5040 cfs.	887.5

Spillway No.	Type	Sill Elev.	Length	Max. at Disch.	W. S. Elev.
I	Open Overflow Weir	887.5	269.58	33,500 cfs.	897.5 ft

ELEVATIONS AND CAPACITIES:

	Elev.	Storage		Sill Elev.	Storage
Orig. streambed	840.0 ft.	0.0 a.f.	Spillway Sill	887.5 ft.	698.3 af
Lowest Excav.	820.0 ft.	0.0 a.f.	Sill of 4 Valves	843.0 ft.	0.0 af
Crest	902.0 ft.	- - a.f.	Assumed H.W.L.	897.5 ft.	1167.0 af

CONSTRUCTION:

Began - January 17, 1936.
Completed - February 2, 1937.
Cost $1,121,029.55
Cost per a.f. F. C. 856.27
Constructed by U.S.E.D.
Designed by U.S. E.D.

REMARKS:

Capacities based on Calif. Inst. Tech. Survey & Debris correction following storm of 3-2-38. Capacity at spillway lip prior to 3-2-38, 944.8 a.f., following 3-2-38, 698.3 a.f.
U.S.G.S. datum = Spillway datum - 0.10.
Spillway datum used. #Total discharge of all outlets.
Revised: 4-4-39
H.A.V.-M.W.R.
Checked: E.C.V.-Design Dept.

Approved by _____ Chief Engineer
Date 5/4/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - Devil's Gate Dam
Location - On Arroyo Seco N.W. of Pasadena
Stream - Arroyo Seco
Purpose - Flood Control and Conservation
Type - Concrete Gravity, Arched in Plan - Radius of Upstream face 400'.
Bond Issue - 1917
Drainage Area - 30.62 sq. mi. from elev. 1070 to elev. 6152.0 feet above mean sea level.

DIMENSIONS:

Crest Ht. above orig. streambed	100.0 ft.
Crest Ht. above foundation	130.0 ft.
Crest Length	310.0 ft.
Crest Width Roadway	30.5 ft.
Ht. of Parapet Wall	4.5 ft.
Base Thickness	99.0 ft.

EXCAVATION AND FILL:

Total Vol. of Excavation 20,000 c.y.
Total Vol. of Concrete 34,000 c.y.
Character of Foundation - Granite

OUTLETS:

No.	Type	Size	Sill Elev. Inlet	Sill Elev. Outlet	Area Outlet	Max. Disch.	W. S. Elev.
A	Circ. Gate Valve	18"	℄985.45	℄985.5	1.78sq.ft.	878.0	1054.0
1&2	2 Slide Gates	7'x10'	1007.0	958.8	140.0 sq.ft.	4840.	1054.0

Spillway No.	Type	Sill Elev.	Length	Max. at Disch.	W. S. Elev.
I	Flat Crested Weir	1054.0	88.4	12,900 cfs.	1070.0
II	8 Semi-Circ. Openings	1065.44	3.25'rad.	1,000 cfs.	1070.0

ELEVATIONS AND CAPACITIES:

	Elev.	Storage		Sill Elev.	Storage
Orig. streambed	970.0 ft.	0	a.f. Spillway #1	1054.0 ft.	2988.8 a.f.
Lowest Excav.	940.0 ft.	0	a.f. Spillway #2	1065.5 ft.	4731.1 a.f.
Crest	1070.0 ft.	5613.2	a.f. Valve #A	℄1007.8± ft.	0 a.f.
Top of Parapet	1074.5 ft.	- - -	a.f. Valve #1&2	1007.0 ft.	0 a.f.
			Assumed HWL	1072.0 ft.	6034.2 a.f.

CONSTRUCTION:

Began - May, 1919
Completed - June, 1920
Cost $483,943.37
Cost per a.f. Conserv. 120.56
Cost per a.f. F. C. 81.63
Constructed by - Bent Bros.
Resident Engr. - R. A. Borthick
Designed - M. Sasso & Others
Computations - B. R. Metcalf

REMARKS:

Capacities corrected to U.S.S.C.S. Survey of June, 1938 with streambed elev. 1010.0. Capacity at spillway lip prior to 3-2-38, 4014.6 a.f., following 3-2-38, 2988.8 a.f.
Costs per a.f. based on survey prior to October 17, 1934.
U.S.G.S. Datum = Spillway Datum + 0.12 Spillway Datum used.
℄Sill of Pipe Riser installed November, 1937.
Revised 4-4-39
H.A.V.-M.W.R.
Checked: E.C.V.-Design Dept.

Approved by _____ Chief Engineer
Date 5/4/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

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

DIMENSIONS:

Crest Ht. above orig. streambed	70.0 ft.
Crest Ht. above foundation	80.0 ft.
Crest Length	303.0 ft.
Crest Width (net)	6.0 ft.
Ht. of Parapet Wall	2.0 ft.
Base Thickness	52.0 ft.

EXCAVATION AND FILL:

Total Vol. of Excavation - 12,985 c.y.
Total Vol. of Concrete - 11,735 c.y.
Character of Foundation - Granite

OUTLETS:

No.	Type	Size	Sill Elev. Inlet	Sill Elev. Outlet	Area Outlet	Max. Disch.	W. S. Elev.
A	Circ. Gate Valve	10" dia.	1431.±	1431.±	0.54 sq.ft.		
1	Sluice Gate	36" x 42"	1442.25	1429.80	10.5 " "	374 cfs.	1497

Spillway No.	Type	Sill Elev.	Length	Max. Disch.	W. S. Elev.
I	Open Type O.G. Weir	1497.0	20 ft.	400 cfs.	1500

ELEVATIONS AND CAPACITIES:

	Elev.	Storage		Sill Elev.	Storage
Orig. streambed	1430.0 ft.	0	a.f. Spillway #1	1497.0 ft.	227.6 a.f.
Lowest Excav.	1420.0 ft.	0	a.f. Valve #A	1431.± ft.	0 a.f.
Crest	1500.0 ft.	263.5	a.f. Valve #1	1442.25 ft.	0 a.f.
Top of Parapet	1502.0 ft.	266.1	a.f. Assmd. H.W.L.	1500.0 ft.	263.5 a.f.

CONSTRUCTION:

Began - Aug. 1921
Completed - Nov. 1922
Cost $105,863.13
Cost per a.f. of F.C. 658.38
Cost per a.f. of Conserv. 743.84
Constructed by C. H. Hudson
Resident Engr. - Ray Borthick
Design and Comput. L.A.C.F.C.D. Design Dept.

REMARKS:

Capacities corrected to U.S.S.C.S. Survey of May, 1938 with streambed elev. 1442 ft. Capacity at spillway lip prior to 3-2-38, 248.1 a.f., following 3-2-38, 227.5 a.f. Cost per a.f. based on original survey.
U.S.G.S. Datum = Spillway Datum + 0.55. Spillway Datum used.
Revised: H.A.V. - M.W.R.
April 4, 1939
Checked: E.C.V. - Design Dept.

Approved by _____ Chief Engineer
Date 5/4/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - Pacoima Dam
Location - Pacoima Canyon 4 mi. N.E. of San Fernando
Stream - Pacoima Creek
Purpose - Flood Control and Conservation
Bond Issue - 1924
Drainage Area - 27.77 sq. mi. from elev. 2015 to elev. 6503 feet above mean sea level.
Type - Concrete - Constant Angle Arch - Gravity Abutments

DIMENSIONS:

Crest Ht. above orig. streambed	365.0	ft.
Crest Ht. above foundation	372.0	ft.
Crest Length	640.0	ft.
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	℄ Elev. Inlet	℄ Elev. Outlet	Area Outlet	Max. Disch. at	W. S. Elev.
A	Gate Valve	4" dia.	1864.17	-	.087	-	-
B	Gate Valve	18" dia.	1669.75	1670.0	1.77	-	-
1	Gate Valve	30" dia.	1700.0	1700.0	4.91	(inoperative)	-
2	Pelton Needle	30" dia.	1750.0	1750.0	4.91	368 cfs.	1950 ft.
3	Pelton Needle	30" dia.	1800.0	1800.0	4.91	320 cfs.	1950 ft.

Spillway No.	Type	Sill Elev.	Length	Max. Disch. at	W. S. Elev.
1	Tunnel	1950		10,850 cfs.	2015.0 ft.
2	Tunnel	1989.95		(combined)	

ELEVATIONS AND CAPACITIES:

	Elev.		Storage			Sill Elev.	Storage	
Orig. streambed	1650.0	ft.	0	a.f.	Spillway #1	1950.0	5004.3	a.f.
Lowest Excav.	1642.6	ft.	0	a.f.	Spillway #2	1989.95	8033.6	a.f.
Crest	2015.0	ft.	10499.5	a.f.	Valve #A	1864.0	0	a.f.
Top of Parapet	2015.75	ft.	10580.3	a.f.	Valve #B	1669.0	0	a.f.
Assmd.H.W.L.	2015.0	ft.	10499.5	a.f.	Valve #1	1698.75	0	a.f.
					Valve #2	1748.75	0	
					Valve #3	1798.75	253.0	a.f.

CONSTRUCTION:

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

REMARKS:

Capacities corrected to L.A.C.F.C.D. Silt Survey following storm of 3-2-38, with streambed elev. 1763.0. Capacity at spillway lip prior to 3-2-38, 5592.0 a.f., following 3-2-38, 5004.3 a.f.
U.S.G.S. Datum = Spillway Datum. Spillway Datum used.

Revised: H.A.V.-
4-11-39 M.W.R.
Checked: H.C.V.-Design Dept.

Date 5/10/39 Approved by H. E. Hedger
Chief Engineer

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - Puddingstone Diversion Dam
Location - 2 mi. N.E. of San Dimas
Stream - San Dimas Creek
Purpose - Flood Control and Diversion of Flow
Bond Issue - 1924
Drainage Area - 2.57 sq. mi. from elev. 1165.3 to elev. 3207.0 feet above mean sea level
Upstream slopes - 2:1 and 3:1
Downstream slopes - 2½:1 and 2:1
Type - Earthfill - Concrete Face

DIMENSIONS:

Crest Ht. above orig. streambed	33.5	ft.
Crest Length	825	ft.
Crest Width	15	ft.
Base Thickness	190	ft.

FILL:

Total Vol. of Earthfill 89,611 c.y
Character of Foundation - Gravel

OUTLETS:

No.	Type	Size	Elev. Sill Inlet	℄ Elev. Outlet	Area Outlet	Max. Disch. at	W. S. Elev.
1	Gate Valve	24"	1139.0	1128.5	3.14 sq.ft.	- - -	- - -
2 to 5	4 Radial Gates	14'x13'	1145.5			4360 cfs.	1152.5

NOTE: Discharge through Radial Gates Restricted to Capacity of Outlet Channel of 3500 c.f.s.

Spillway No.	Type	Sill Elev.	Length	Max. Disch. at	W. S. Elev.
1	Open O.G. Section	1152.5	174.4	10,600 cfs.	1158.5

ELEVATIONS AND CAPACITIES:

	Elev.		Storage			Sill Elev.	Storage	
Orig. streambed	1130.0	ft.	0	a.f.	Spillway #1	1152.5	50.1	a.f.
Crest	1163.8	ft.	237.8	a.f.	Valve #1	1139.0	0.05	a.f.
Assumed H.W.L.	1158.5	ft.	131.4	a.f.	Valve #2-5	1145.5	7.9	a.f.

CONSTRUCTION:

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

REMARKS:

Capacities corrected to revised L.A.C.F.C.D. Survey following 3-2-38 with streambed at elev. 1138. Capacity at spillway lip prior to 3-2-38, 121.2 a.f., following 3-2-38, 50.1 a.f.
*Costs based on original capacity.
U.S.G.S. Datum = Spillway Datum + 0.70 Spillway Datum used.

Revised: 4-11-39
H.A.V.-M.W.R.
Checked: E. C. V. - Design Dept.

Approved by H. E. Hedger
Chief Engineer

Date 5/10/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - Puddingstone Dams #1-2-3
Location - 1 mi. S. of San Dimas
Stream - Puddingstone Creek
Purpose - Flood Control and Conservation
Drainage Area - 33.1 sq. mi from elev. 982 to elev. 5588.0 above mean sea level.
Upstream slopes vary from 3½:1 to 2½:1. Downstream slopes vary from 3:1 to 2½:1.
Type - Three earthfill dams with concrete face and concrete core walls.

DIMENSIONS:

	#1	#2	#3
Crest Ht. above orig. streambed	147.0	47.5	58.0 ft.
Crest Ht. above foundation	182.0	83.0	72.0 ft.
Crest Length	1085.0	785.0	828.0 ft.
Crest Width	25.0	25.0	25.0 ft.
Base Thickness	910.0	250.0	290.0 ft.

EXCAVATION AND FILL:

Total Vol. of Excav. 25,169 cy. (stripping)
Misc.excav. (open cut) 41,117 cy.
Total Vol. of Earthfill
Total Vol. Concrete 12,154 cy.
Character of Foundation - Sand-stone and Puddingstone

OUTLETS:

No.	Type	Size	Sill Elev. Gates	℄ Elev. Outlet	Area Outlet	Max. Disch. at	W. S. Elev.
1&2	Slide Gates	2'x5'	882.1	882.64	20.0	814 cfs. (combined)	970.0 ft.

Spillway No.	Type	Elev. Sill	Length	Max. Disch. at	W. S. Elev.
1	Open O. G. Weir	970.0	182.5	6900 cfs.	975.0 ft.

ELEVATIONS AND CAPACITIES:

	Elev.		Storage			Sill Elev.	Storage	
*Orig. streambed	835	ft.	0	a.f.	Spillway #1	970 ft.	17,398	a.f.
*Lowest excav.	800	ft.	0	a.f.	Outlet Tunnel	884.0 ft.	382.8	a.f.
Crest	982	ft.	-		Assumed H.W.L.	975 ft.	20,012	a.f.

CONSTRUCTION:

Began - February, 1925
Completed - January, 1928
Cost $1,021,618.25
Cost per a.f. F.C. 51.05
Cost per a.f. Conserv. 58.72
Constructed by - C. H. Richards and Nohl Construction Company.
Resident Engr. - C.H. Richards & F. Z. Lee
Designer - L.A.C.F.C.D. - Design Dept.
Comput. - C. R. Buckley and Investigating Co

REMARKS:

Present streambed elev. - 843.0. Capacities based on L.A.C.F.C.D. Survey of 1915 supplemented in 1923. *Dam No. 1. Cost based on original survey.
U.S.G.S. datum = Spillway Datum + 0.79. Spillway Datum used.

Revised: 4-20-39
H.A.V.-M.W.R.
Checked: E.C.V. - Design Dept.

Approved by H. E. Hedger
Chief Engineer

Date 5/10/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - San Dimas Dam
Location - 3 mi. N.E. of San Dimas
Stream - San Dimas Creek
Purpose - Flood Control and Conservation
Bond Issue - 1917
Drainage Area - 15.92 sq. mi. from elev. 1470 to elev. 5558 feet above mean sea level.
Type- Concrete Gravity, Arched in Plan

DIMENSIONS:

Crest Ht. above orig. streambed	117.0	ft.
Crest Ht. above foundation	127.0	ft.
Crest Length	430.0	ft.
Crest Width	11.0	ft.
Ht. of Parapet Wall	2.0	ft.
Base Thickness	80.0	ft.

EXCAVATION AND FILL:

Total Vol. of Excav. 31,021 c.y.
Total Vol. of Concrete 41,286 c.y.
Character of Foundation - Granite

OUTLETS:

No.	Type	Size	Sill Elev. Inlet	Sill Elev. Outlet	Area Outlet	Max. Disch. at	W. S. Elev.
A	Gate Valve	16" dia.	1371.3	- - - -	1.4 sq.ft.	- - - - - -	- - -
1&2	2 Slide Gates	4'x6'	1375.0	1358.0	48.0 sq.ft.	2160 cfs.	1462.0

Spillway No.	Type	Sill Elev.	Length	Max. Disch. at	W. S. Elev.
1	Broad Crested Weir	1462.0	35.0	3260 cfs.	1472.0 feet

ELEVATIONS AND CAPACITIES:

	Elev.		Storage			Sill Elev.	Storage	
Orig. streambed	1353.0	ft.	0	a.f.	Spillway #1	1462.0	1155.1	a.f.
Lowest excav.	1343.0	ft.	0	a.f.	Valve #A	1371.3	0	a.f.
Crest	1470.0	ft.	1471.5	a.f.	Valve #1&2	1375.0	0	a.f.
Top of Parapet	1472.0	ft.	1567.8	a.f.	Assumed HWL	1470.0	1471.5	a.f.

CONSTRUCTION:

Began - November, 1920
Completed - September, 1922
Cost $589,859.55
*Cost per a.f. Conserv. $394.29
*Cost per a.f. of F.C. $324.10
Resident Engr. - Ray Borthick
Designed & Comput. - L.A.C.F.C.D. Design Dept.
Constructed by Bent Bros.

REMARKS:

Capacities based on U.S.F.S. Survey of Dec. 1935 and L.A.C.F.C.D. Silt Survey following 3-2-38 with streambed elev. at 1374.0.
Capacity at spillway lip prior to 3-2-38, 1372.9 a.f., following 3-2-38, 1155.1 a.f.
*Costs based on original capacity.
U.S.G.S. Datum = Spillway Datum + 1.33 Spillway Datum used.

Revised: 4-25-39
H.A.V.-M.W.R.
Checked: E.C.V. - Design Dept.

Approved by H. E. Hedger
Chief Engineer

Date 5/10/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - San Gabriel Dam #1
Location - S.G. Canyon 7½ mi. N. of Azusa
Stream - San Gabriel River
Purpose - Flood Control & Conservation
Type - Compacted Earthfill & Rockfill
Bond Issue - 1924
Drainage Area - 202 sq. mi. from elev. 1453 to elev. 10,059 ft. above mean sea level.

DIMENSIONS:

Crest Ht. above orig. streambed	310 ft.
Crest Ht. above foundation	377 ft.
Crest Length	1500 ft.
Crest Width	40 ft.
Base Thickness	1955 ft.

*Includes - Outlets, Spillway and Cutoff

EXCAVATION AND FILL:

Total Vol. of Excavation	1,967,700 cu.yds.
Total Vol. of Compacted Clay	1,144,200 cu.yds.
Total Vol. of Fill	10,600,000 cu.yds.
*Total Vol. of Concrete	78,600 cu.yds.
Total Area of Gunite	314,500 sq.ft.
Total Vol. of Grout	1,341 cu.yds.
Character of Foundation	Granite

OUTLETS:

No.	Type	Size	Conduit Inlet Sill	Elev. Valve	Area Outlet	Max. Disch. at	W. S. Elev.
Service Valves					Sq.Ft.		
A	Hardie-Tynes Needle	12"x 9"	*	1198.6	0.44	33 cfs.	1453 ft.
AA	Gate Valve	12"					
B	Pelton Needle Az.Conduit	30"x24"	**	1201.9	3.14	#90 cfs.	1453 ft.
BB	Butterfly (hand)	30"					
C	Pelton Needle Az.Conduit	51"x39"	*	1205.9	8.30	#90 cfs.	1453 ft.
CB	Butterfly (hand)	51"					
Operation Valves					Sq.Ft.		
1	Hardie-Tynes Needle	51"x39"	1213.25	1205.8	8.30	610 cfs.	1453 ft.
1A	Butterfly (hand)	51"		1212.6			
1B	Butterfly (hydr.)	51"					
2	Hardie-Tynes Needle	102"x90"	1208.75	1206.1	44.18	3280 cfs.	1453 ft.
2B	Butterfly (hydr.)	96"		1212.2			
3	Pelton Needle - West	129"x117"	1224.00	1217.4	74.66	5650 cfs.	1453 ft.
3B	Butterfly (hydr.)West	123"		1223.4			
4	Pelton Needle - East	129"x117"	1224.00	1217.4	74.66	5650 cfs.	1453 ft.
4B	Butterfly (hydr.)East	123"		1223.5			

*From 51" Conduit. **From 96" Conduit. #Limited to 90 cfs. by Azusa Conduit

Spillway No.	Type	Sill Elev.	Length	Max. Discharge at	W. S. Elev.
1	Open O. G. Section	1453.0	456.0	294,000 cfs.	1481 ft.

ELEVATIONS AND CAPACITIES:

	Elev.	Capac.		Elev.	Capac.
Orig. streambed	1190.0 ft.		Spillway Lip	1453.0 ft.	47191 a.f.
Lowest Excavation	1104.0 ft.		Sill Outlet Tower	1272.0 ft.	469 a.f.
Crest	1481.0 ft.	63548 a.f.	Top Outlet Tower	1340.0 ft.	8321 a.f.

CONSTRUCTION:

Began - Dec.-28-32
Completed - July, 1939
ooCost $17,001,000
ooCost per a.f. F.C. $256.
ooCost per a.f. Conservation $319
Dam Constructed by West Slope Const. Co.
Spillway - Gogo & Rados
Outlet Works - Consolidated Steel Corp.
Resident Engineer - E. R. Stuver.
Design & Comput. L.A.C.F.C.D.-DESIGN DEPT.

REMARKS:

Capacities based on L.A.C.F.C.D. Survey following storm of 3-2-38 with streambed elev. of 1240. *Subject to minor revision. ooCosts based on original storage.

Compiled - H.A.V.-M.W.R.
Checked - J.V.S.
Approved by H. E. Hedger, Chief Engineer
Date 7/11/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - Big Santa Anita Dam
Location - 2½ mi. N. of Arcadia
Stream - Big Santa Anita Creek
Purpose - Flood Control and Conservation
Bond Issue - 1924
Drainage Area - 10.82 sq. mi. from elev. 1325.0 to elev. 5886.0 feet above mean sea level.

Type - Concrete, Constant Angle Arch - Gravity Abutments

DIMENSIONS:

Crest Ht. above orig. streambed	225.0 ft.
Crest Ht. above foundation	230.0 ft.
Crest Length	612.0 ft.
Crest Width	7.0 ft.
Ht. of Parapet Wall	3.0 ft.
Base Thickness	61.5 ft.

EXCAVATION AND FILL:

Total Vol. of Excavation	78,840 c.y.
Total Vol. of Concrete	76,184 c.y.
Character of Foundation	Granite and Diorite

OUTLETS:

No.	Type	Size	℄ Elev. Inlet	℄ Elev. Outlet	Area Outlet	Max. at Disch.	W. S. Elev.
A	Gate Valve	18" dia.	1112.75	1112.75	1.77 sq.ft.	(Inoperative)	
B	Gate Valve	20" dia.	1160.0	1160.0	2.18 sq.ft.	- - - -	- - - -
1	Needle Valve	30" dia.	1177.0	1177.0	4.91 sq.ft.	302 cfs.	1316.0 ft.
2	Needle Valve	30" dia.	1198.0	1198.0	4.91 sq.ft.	283 cfs.	1316.0 ft.

Spillway No.	Type	Sill Elev.	Length	Max. Disch. at	W. S. Elev.
1	Covered Channel	1316.0	22.5	1580 cfs.	1325.0 ft.
2	Crest of Dam	1325.0	97.0	1320 cfs.	1328.0 ft.

ELEVATIONS AND CAPACITIES:

	Elev.	Storage		Sill Elev.	Storage
Orig. streambed	1100.0 ft.	0	a.f. Spillway #1	1316.0 ft.	685.4 a.f.
Lowest Excav.	1095.0 ft.	0	a.f. Spillway #2	1325.0 ft.	793.3 a.f.
Crest	1325.0 ft.	793.3	a.f. Valve A	1112.0 ft.	- - -
Top of Parapet	1328.0 ft.	- - -	a.f. Valve B	1159.17 ft.	0 a.f.
Assumed H.W.L.	1325.0 ft.	793.3	a.f. Valve 1	1175.75 ft.	0 a.f.
			Valve 2	1196.75 ft.	0 a.f.

CONSTRUCTION:

Began - October, 1924
Completed - March, 1927.
Cost $1,207,884.54
Cost per a.f. of F.C. 988.53
Cost per a.f. of Conserv. 1,130.66
Constructed by - Ross Construction Company
Designer - Constant Angle Arch Co.
Res. Engr. B. R. Metcalf
Computations - B. R. Metcalf

REMARKS:

Capacities based on U.S.S.C.S. Survey of July, 1939 with streambed at elev. 1210.0 ft.
Capacity at spillway lip prior to 3-2-38, 1014.3 a.f., following 3-2-38, 888.4 a.f.
Costs based on original survey.
U.S.G.S. Datum = Spillway Datum + 0.95. Spillway Datum used.

Revised: 4-25-39
H.A.V.-M.W.R.
Checked: E.C.V.-Design Dept.
Approved by H. E. Hedger, Chief Engineer
Date 5/16/39

Los Angeles County Flood Control District
Operation and Maintenance Department
FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - San Gabriel Dam No. 2
Location - 22 mi. N. of Azusa
Stream - San Gabriel River, W.Fork
Purpose - Flood Control and Conservation
Bond Issue - 1924
Drainage Area - 40.42 sq. mi. from elev. 2405 to elev. 8038 feet above mean sea level.

Type - Rockfill with Concrete Cutoff Wall and Temporary Timber Face to be replaced by permanent Concrete Face. Slopes vary Upstream - 1.25:1, 1.3:1 and 1.35:1; Downstream - 1.3:1, 1.5:1, 1.6:1

DIMENSIONS:

Crest Ht. above orig. streambed	265.0 ft.
Crest Ht. above foundation	280.0 ft.
Crest Length	585.0 ft.
Crest Width	18.0 ft.
Base Thickness Elev.2140	750.0 ft.

EXCAVATION AND FILL:

Total Vol. of Excav.	300,408 c.y.
Total Vol. of Rockfill	1,044,945 c.y.
Character of Foundation	Granite

OUTLETS:

No.	Type	Size	℄Elev. Gate	Sill Elev. Outlet	Area Outlet	Max. Disch. at	W. S. Elev.
A	Sluice Gate	30" dia.	2166.45	2148.0	4.91 sq.ft.		2385.0
1	Butterfly	84" dia.	2169.1	2148.0	38.55 sq.ft.	2860 cfs.	2385.0
2	Butterfly	84" dia.	2170.0	2148.0	38.55 sq.ft.	2800 cfs.	2385.0
3	Butterfly	84" dia.	2205.6	2148.0	38.55 sq.ft.	(Inoperative)	2385.0
4	Butterfly	84" dia.	2247.5	2148.0	38.55 sq.ft.	2280 cfs.	2385.0
5	Butterfly	84" dia.	2285.7	2148.0	38.55 sq.ft.	2140 cfs.	2385.0
6	Butterfly	84" dia.	2318.7	2148.0	38.55 sq.ft.	1750 cfs.	2385.0

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 Ogee Section	2385.0	140	29,500 cfs.	2398 feet

ELEVATIONS AND CAPACITIES:

	Elev.	Storage		Sill Elev.	Storage
Orig. streambed	2140.0 ft.	-------	Sluice Gate	2164.2 ft.	-------
Lowest excav.	2125.0 ft.	-------	Valve #1	2166.2 ft.	-------
Crest	2405.0 ft.	-------	Valve #2	2177.0 ft.	-------
Spillway No. 1	2385.0 ft.	10,786.8 a.f.	Valve #3	2212.3 ft.	-------
Assumed H.W.L.	2398.0 ft.	12,786.3 a.f.	Valve #4	2248.1 ft.	560.4 a.f.
			Valve #5	2282.9 ft.	1820.6 a.f.
			Valve #6	2319.2 ft.	3886.8 a.f.

CONSTRUCTION:

Began - March, 1932
Completed April, 1934
Cost $3,127,761.42
*Cost per a.f. Conserv. 254.32
*Cost per a.f. F.C. 217.63
*Costs based on original capacity.
Constructed by - Nasco Constr. Co. and Lewis Constr. Co.
Resident Engr. - K. J. Harrison - J. Herkomer
Designed & Compu. - L.A.C.F.C.D. Design Dept.

REMARKS:

Capacities based on L.A.C.F.C.D. Survey following 3-2-38 with streambed at elev. 2215. Capacity at spillway lip prior to 3-2-38, 12,298.4 a.f., following 3-2-38, 10,786.8 a.f.
U.S.G.S. Datum = Spillway Datum + 0.08. Spillway Datum used.

Revised: 4-25-39
H.A.V. - M.W.R.
Checked: E.C.V. - Design Dept.
Approved by H. E. Hedger, Chief Engineer
Date 5/16/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - Sawpit Dam
Location - 2 mi. N. of Monrovia
Stream - Sawpit Creek
Purpose - Flood Control and Conservation
Bond Issue - 1924
Drainage Area - 3.27 sq. mi. from elev. 1375 to elev. 5376 ft. above mean sea level.

Type - Concrete - Constant Radius Arch

DIMENSIONS:

Crest Ht. above orig. streambed	147.0 ft.
Crest Ht. above foundation	162.0 ft.
Crest Length	527.0 ft.
Crest Width	8.0 ft.
Ht. of Parapet Wall	3.0 ft.
Base Thickness	58.0 ft.

EXCAVATION AND FILL:

Total Vol. of Excav.	44,815 c.y.
Total Vol. of Concrete	56,239 c.y.
Character of Foundation	Granite

OUTLETS:

No.	Type	Size	℄Elev. Inlet	℄Elev. Outlet	Area Outlet	Max. at Disch.	W. S. Elev.
A	Uncontrolled Pipe	18" dia.	1309.9	1235.66	1.39 sq.ft.	- - -	- - -
*1	Gate Valve	30" dia.	1251.25	1251.25	4.91 sq.ft.	(sluice only)	
2	Needle Valve	30" dia.	1251.25	1251.25	4.91 sq.ft.	217 cfs.	1360.0

Spillway No.	Type	Sill Elev.	Length	Max. Disch. at	W. S. Elev.
1	9' Tunnel	1360		1210 cfs.	1375 ft.
2	Over dam crest	1375	50.0	610 cfs.	1378 ft.

ELEVATIONS AND CAPACITIES:

	Elev.	Storage		Sill Elev.	Storage
Orig. streambed	1228.0 ft.	0.0	a.f. Spillway #1	1360.0 ft.	319.7 a.f.
Lowest Excav.	1213.0 ft.	0.0	a.f. Spillway #2	1375.0 ft.	461.6 a.f.
Crest	1375.0 ft.	461.6	a.f. Valve #A	1309.9 ft.	57.6 a.f.
Top of Parapet	1378.0 ft.	495.4	a.f. Valve #1	1250.0 ft.	0.0 a.f.
Assumed H.W.L.	1375.0 ft.	461.6	a.f. Valve #2	**1290.0 ft.	15.9 a.f.

CONSTRUCTION:

Began - March, 1926
Completed June, 1927
Cost $637,075.85
Cost per a.f. F. C. 1,033.38
Cost per a.f. Conser. 1,368.17
Constructed by H. E. Heller
Design and Comput. L.A.C.F.C.D. Design Dept.
Resident Engr. - W. D. Richardson

REMARKS:

Capacities corrected to L.A.C.F.C.D. Survey following storm of 3-2-38 with streambed at elev. 1275. Capacity at spillway lip prior to 3-2-38 389.0 a.f. Capacity following 3-2-38, 319.7 a.f. Costs per a.f. based on original capacity. *Pelton Needle valve removed Dec., 1935. **Sill of riser elevated from elev. 1275.0 June 1938.
U.S.G.S. Datum = Spillway Datum - 0.69. Spillway Datum used.

Revised: H.A.V.-M.W.R.
April 10, 1939
Checked: E.C.V.-Design Dept.
Approved by H. E. Hedger, Chief Engineer
Date 5/16/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

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

Type - Concrete Core, Gravel Fill. Downstream Slope 2½:1. Upstream Slope 2:1.

DIMENSIONS:

Crest Ht. above orig. streambed	66.0 ft.
Crest Ht. above foundation	103.0 ft.
Crest Length	1500.0 ft.
Crest Width	15.0 ft.
Base Thickness	363.0 ft.

EXCAVATION AND FILL:

Total Vol. of Excav.	11,687 c.y.
Total Vol. of Earthfill	196,931 c.y.
Total Vol. of Concrete	1,153 c.y.

Character of Foundation - Gravel and disintegrated Granite.
Corewall - to bedrock.

OUTLETS:

No.	Type	Size	℄ Elev. Inlet	℄ Elev. Outlet	Area Outlet	Max. Disch. at	W. S. Elev.
1	Slide Gate	24" dia.	1602.8	1596.76	3.14 sq.ft.	108 cfs.	1640
2&3	2 Slide Gates	Empty into 3'x3' tunnel				**70 cfs.	

Spillway No.	Type	Sill Elev.	Length	Max. Disch. at	W. S. Elev.
1	Open Weir	1640	51.2	2060 cfs.	1645 ft.

ELEVATIONS AND CAPACITIES:

	Elev.	Storage		Sill Elev.	Storage
Orig. streambed	1582 ft.	0 a.f.	Spillway #1	1640.0 ft.	812.0 a.f.
Lowest Excav.	1545 ft.	0 a.f.	Valve #1	1601.94ft.	108.5 a.f.
Crest	1648 ft.	1112 a.f.	Valves 2&3	1625.0 ft.	407.5 a.f.
Assumed H.W.L.	1645 ft.	996 a.f.			

CONSTRUCTION:

Began - September, 1925
Completed - March, 1928
Cost $252,629.28
*Cost per a.f. Conserv. 311.12
*Cost per a.f. F. C. 253.64
Constructed by - Roche Axman Co.
Resident Engr. - C. H. Richards -
B. Cole
Designer & Comput. - L.A.C.F.C.D. Design Dept.

REMARKS:

Capacities corrected to L.A.C.F.C.D. Survey of November, 1932.
Elev. of bottom of upstream Borrow Pit - 1571.0 ft.
U.S.C.S. Datum = Spillway Datum - 0.5. Spillway datum shown.
*Costs based on capacities shown.
**Limited by flume.

Revised: H.A.V.-H.W.R. 4-25-39
Checked: H.C.V.-Design Dept.

Approved by H B Hedger
Chief Engineer
Date 5/10/39

Los Angeles County Flood Control District
Operation and Maintenance Department

FLOOD CONTROL DAM
DATA SHEET

GENERAL:

Name - Big Tujunga Dam No. 1
Location - Big Tujunga Cn. 10 mi. N.E. of Sunland
Stream - Big Tujunga Creek
Purpose - Flood Control and Conservation
Bond Issue - 1924
Drainage Area - 81.35 sq. mi. from elev. 2290.0 to elev. 7078.0 feet above mean sea level.

Type - Concrete Variable Radius Arch

DIMENSIONS:

Crest Ht. above orig. streambed	200.0 ft.
Crest Ht. above foundation	251.0 ft.
Crest Length (less spillway)	505.0 ft.
Crest Width	8.0 ft.
Ht. of Parapet Wall	4.0 ft.
Base Thickness at 2060	73.0 ft.

EXCAVATION AND FILL:

Total Vol. of Excav.	81,318 c.y.
Total Vol. of Concrete	79,293 c.y.
Total Vol. of Earthfill	5,574 c.y.

Character of Foundation - Granite

OUTLETS:

No.	Type	Size	℄ Elev. Inlet	℄ Elev. Outlet	Area Outlet	Max. Disch. at	W. S. Elev.
A	Gate Valve	4" dia.	2110.0	2110.0	0.09 sq.ft.	Still.Well 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.	988 cfs.	2290 ft.
3	Needle Valve	72x60"	2160.0	2160.0	19.63 sq.ft.	1160 cfs.	2290 ft.
4	Hydr. Gate	62" dia.	2185.0	2185.0	20.97 sq.ft.	1480 cfs.	2290 ft.

Spillway No.	Type	Sill Elev.	Length	Max. Disch. at	W. S. Elev.
1	Open Weir O.G. Section	2290.0	182.0	36,150 cfs	2308 ft.

ELEVATIONS AND CAPACITIES:

	Elev.	Storage		Sill Elev.	Storage
Orig. streambed	2104.0 ft.	- - - a.f.	Spillway #1	2290.0 ft.	4733.6 a.f
Lowest Excav.	2053.0 ft.	- - - a.f.	Valve #1	2142.5 ft.	0 a.f
Crest	2304.0 ft.	5886.9 a.f.	Valve #2	2158.0 ft.	0 a.f.
Top of Parapet	2308.0 ft.	6261.3 a.f.	Valve #3	2157.0 ft.	0 a.f.
Assumed H.W.L.	2304.0 ft.	5886.9 a.f.	Valve #4	2182.4 ft.	272.6 a.f.

CONSTRUCTION:

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

REMARKS:

Capacities based on L.A.C.F.C.D. Survey of 1928, corrected for debris, following 3-2-38, with streambed elev. at 2161.6 ft.
Capacity at spillway lip prior to 3-2-38, 6240.0 a.f., following 3-2-38, 4733.6 a.f.
#Costs based on original survey.
U.S.C.S. Datum = Spillway Datum - 0.12. Spillway Datum used.

Revised: H.A.V.-H.W.R. 4-25-39
Checked: H.C.V.-Design Dept.

Approved by H B Hedger
Chief Engineer
Date 5/10/39

DAM OPERATION RECORDS

F. C. Dist. Form 86 100 1/37

Storages 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, 1937

Continuous 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

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1603.7	9.0			1603.9	9.2			1604.4	9.6		0	1636.9	94.0	4.4	0	1652.5	205.9	4.1	0	1632.9	532.4	7.0	7.0	1
2	1603.7	9.0			1603.9	9.2			1604.4	9.6		0	1637.7	98.4	2.3	0	1653.3	213.1	3.6	0	1632.3	536.7	6.1	7.0	2
3	1603.7	9.0			1603.9	9.2			1604.5	9.6		0	1638.3	101.7	1.6	0	1653.3	217.7	2.3	0	1632.7	535.1	6.2	7.0	3
4	1603.6	9.0			1603.9	9.2			1604.5	9.6		0	1638.8	104.4	1.6	0	1654.2	221.3	1.3	0	1632.5	581.8	5.4	7.0	4
5	1603.5	8.9			1603.9	9.2			1604.5	9.6		0	1639.5	108.3	1.9	0	1654.8	226.7	2.8	0	1632.2	576.3	4.5	7.0	5
6	1603.4	8.8			1604.0	9.3		0	1604.6	9.7		0	1640.8	116.3	4.1	0	1661.1	291.6	32.7	0	1632.0	572.5	5.3	7.0	6
7	1603.3	8.7			1604.0	9.3		0	1604.6	9.7		0	1641.7	122.3	3.0	0	1666.8	357.3	33.1	0	1631.7	568.5	4.5	7.0	7
8	1603.3	8.7			1604.0	9.3		0	1604.6	9.7		0	1642.4	126.9	2.3	0	1669.5	339.3	16.4	0	1631.3	570.2	4.2	3.5	8
9	1603.3	8.7			1604.0	9.3		0	1604.6	9.7		0	1642.9	130.3	1.7	0	1671.1	411.0	11.7	0	1632.1	575.1	2.6	0.1	9
10	1603.2	8.7			1604.0	9.3		0	1604.6	9.7		0	1643.4	133.6	1.7	0	1672.4	479.0	9.1	0	1632.5	581.3	3.5	0.1	10
11	1603.1	8.6			1604.0	9.3		0	1604.6	9.7		0	1643.8	136.2	1.3	0	1673.4	442.8	6.9	0	1632.3	586.7	2.5	0.1	11
12	1603.1	8.6			1604.0	9.3		0	1604.6	9.7		0	1644.3	139.6	1.7	0	1674.3	455.2	6.3	0	1634.0	606.6	10.2	0.1	12
13	1603.1	8.6			1604.0	9.3		0	1604.6	9.7		0	1644.8	142.9	1.7	0	1675.8	477.0	11.0	0	1633.2	681.0	37.6	0.1	13
14	1603.1	8.6			1604.0	9.3		0	1604.7	9.8		0	1645.2	145.8	1.5	0	1682.3	573.4	51.1	0	1690.2	717.4	13.4	0.1	14
15	1603.0	8.5			1604.0	9.3		0	1604.9	9.9		0	1645.6	148.9	1.5	0	1685.7	635.8	31.8	2.9	1691.3	739.0	20.9	10.0	15
16	1603.0	8.5			1604.0	9.3		0	1605.0	10.0		0	1645.9	151.2	1.2	0	1686.5	650.2	22.3	15.0	1692.3	758.6	29.9	20.0	16
17	1603.0	8.5			1604.0	9.3		0	1605.0	10.0		0	1646.2	153.6	1.2	0	1685.9	629.4	14.5	20.0	1692.1	754.7	15.1	17.1	17
18	1603.0	8.5			1604.0	9.3		0	1605.1	10.1		0	1646.5	155.9	1.1	0	1684.9	621.4	11.0	20.0	1692.1	754.7	15.0	15.0	18
19	1603.0	8.5			1604.0	9.3		0	1605.3	10.4		0	1646.8	158.3	1.3	0	1683.5	598.3	8.3	20.0	1691.8	748.8	12.1	15.0	19
20	1603.0	8.5			1604.1	9.3		0	1605.4	10.5		0	1647.1	160.6	1.1	0	1682.0	577.2	7.5	20.0	1691.4	744.0	11.0	15.0	20
21	1603.0	8.5			1604.2	9.4		0	1605.4	10.5		0	1647.3	162.2	0.8	0	1681.4	563.6	5.7	10.7	1690.6	726.3	7.1	15.0	21
22	1603.0	8.5			1604.3	9.5		0	1605.4	10.5		0	1647.6	164.5	1.2	0	1681.5	565.2	6.8	6.0	1691.5	742.9	15.8	6.9	22
23	1603.0	8.5			1604.4	9.6		0	1605.4	10.5		0	1647.8	166.1	0.8	0	1681.4	563.6	5.2	6.0	1691.2	737.0	12.0	15.0	23
24	1603.0	8.5			1604.4	9.6		0	1605.4	10.5		0	1648.0	167.7	0.8	0	1681.4	563.6	5.0	5.0	1690.8	729.2	11.1	15.0	24
25	1603.0	8.5			1604.4	9.6		0	1605.5	10.6		0	1648.2	169.2	0.7	0	1682.4	580.1	8.3	0	1690.3	719.4	10.0	15.0	25
26	1603.0	8.5			1604.4	9.6		0	1605.9	11.1	0.3	0	1648.3	170.0	0.5	0	1682.8	586.7	6.9	3.5	1689.7	708.1	9.3	15.0	26
27	1603.0	8.5			1604.4	9.6		0	1610.6	16.9	2.9	0	1648.5	171.6	0.8	0	1682.9	588.4	7.8	7.0	1688.9	693.6	7.7	15.0	27
28	1603.0	8.5			1604.4	9.6		0	1614.4	23.0	3.1	0	1648.7	173.1	0.7	0	1682.9	588.4	7.0	7.0	1633.2	681.0	8.7	15.0	28
29	1603.6	9.0	0.2		1604.4	9.6		0	1615.4	24.8	0.9	0	1649.1	176.3	1.6	0					1687.4	666.5	7.7	15.0	29
30	1603.6	9.0	0		1604.4	9.6		0	1624.8	45.7	10.5	0	1650.4	186.9	5.4	0					1637.3	672.7	3.6	5.0	30
31	1602.9	9.2	0.1		0				1635.2	35.2	10.9	0	1651.6	197.8	5.5	0					1683.7	690.0	8.2	0	31
TOTAL			0.7	0.6			0.3	0.1			33.1	0			56.8	0			340.0	142.1			323.3	277.1	
Inf. Ac. Ft.			1.4				0.6				75.6				112.7				674.4				651.2	1515.9	
Outf. Ac. Ft.				1.2				0.2				0				0				283.8			549.6	854.8	
Maximum Mean Daily Inflow			0.2								19.9				5.5				51.1				37.6	51.1	
Minimum Mean Daily Inflow			0												0.5				1.8				2.5		
Storage Change			+0.2				+0.4				+75.6				+112.6				+290.6				+101.6		+681.0

REMARKS: Outflows as shown are estimated flows taken from dantenders estimates *outflows less than 0.3 cfs are measured leakage Year

Max. W. S. Elev.	1704.0	feet on 6/9 to 14/37	Storage 1006.7	Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS
Min. W. S. Elev.	1603.0	feet on 10/15 to 28/37	Storage 8.5	Acre Feet	H.P.Kelser	Dam Tender	Gage Hts. copied H.A.V. Checked M.W.R.
Max. Peak Inf.	98.0	C.F.S. from 5:00 P.M. on 2-6-37	to 6:00 P.M. on 2-6-37		R.P.Dalton	Hydrographer	Storage applied H.A.V. Checked M.W.R.
Max. Peak Outf.	20.0	C.F.S. from 12:00 Noon on 2-16-37	to 8:00 A.M. on 2-21-37			Hydrographer	Inf. & Outf. computed H.A.V. Checked M.W.R.

Gage Height & storage as of midnight on day shown. Date 9/15/37

F. C. Dist. Form 86 100 1/37

Storages based on U.S. Forest Service 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, 19 37

Continuous Water Stage Recorder All

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

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1689.6	706.3	8.3	* 0.1	1700.8	934.9	1.6	0.2	1703.6	997.7	0.7	0.2	1699.6	908.5	1 0.3	5.6	1683.1	591.7	0	4.1	1659.3	272.1	0	5.8	1
2	1690.6	725.3	9.7	0.1	1700.9	937.1	1.6	0.2	1703.7	999.9	0.7	0.2	1699.1	897.7	1 0.3	5.8	1682.4	580.1	0	5.9	1658.3	262.0	0	5.1	2
3	1691.4	741.0	8.0	0.1	1701.1	941.6	1.6	0.2	1703.7	999.9	0.7	0.2	1698.6	887.4	1 0.3	5.5	1681.8	570.2	0	5.0	1657.3	251.8	0	5.2	3
4	1692.1	754.7	7.0	0.1	1701.2	943.8	1.6	0.2	1703.7	999.9	0.6	0.2	1698.1	876.9	1 0.3	5.6	1681.2	560.2	0	5.0	1656.3	241.7	0	5.1	4
5	1692.7	766.5	6.1	0.1	1701.3	946.1	1.6	0.2	1703.8	1002.2	0.6	0.2	1697.6	866.4	1 0.3	5.6	1680.5	548.7	0	5.8	1655.2	230.5	0	5.6	5
6	1693.3	778.2	6.0	0.1	1701.4	948.3	1.6	0.2	1703.8	1002.2	0.5	0.2	1697.0	853.7	1 0.2	6.6	1679.8	537.4	0	5.7	1654.2	221.3	0	4.7	6
7	1693.9	790.0	6.0	0.1	1701.6	952.8	1.5	0.2	1703.9	1004.4	0.5	0.2	1696.4	845.3	1 0.2	4.4	1679.1	526.8	0	5.4	1653.2	212.2	0	4.5	7
8	1694.4	799.8	5.2	0.2	1701.7	955.0	1.5	0.2	1703.9	1004.4	0.5	0.2	1696.3	839.0	1 0.2	3.4	1678.4	516.2	0	5.3	1652.1	202.3	0	5.0	8
9	1694.8	807.7	4.1	0.2	1701.8	957.3	1.5	0.2	1704.0	1006.7	0.5	0.2	1695.6	824.2	1 0.2	7.6	1678.1	511.7	0	2.3	1651.1	193.2	0	4.6	9
10	1695.3	817.9	5.4	0.2	1701.9	959.5	1.5	0.2	1704.0	1006.7	0.4	0.2	1695.2	817.9	1 0.2	3.4	1677.5	502.7	0	4.5	1650.0	183.3	0	5.0	10
11	1695.8	828.4	5.5	0.2	1702.0	961.8	1.4	0.2	1704.0	1006.7	0.4	0.2	1694.7	805.7	1 0.2	6.4	1676.8	492.1	0	5.3	1648.7	173.1	0	5.2	11
12	1696.2	836.9	4.5	0.2	1702.1	964.0	1.4	0.2	1704.0	1006.7	0.4	0.2	1694.0	792.0	1 0.2	7.1	1676.1	481.5	0	5.4	1647.4	163.0	0	5.1	12
13	1696.6	845.3	4.4	0.2	1702.2	966.3	1.3	0.2	1704.0	1006.7	0.4	0.2	1693.7	786.1	1 0.1	3.1	1675.5	474.0	0	3.8	1645.0	152.0	0	5.5	13
14	1697.0	853.7	4.4	0.2	1702.3	968.5	1.3	0.2	1704.0	1006.7	0.4	0.2	1693.1	774.3	1 0.1	6.0	1674.6	459.4	0	7.3	1644.5	141.5	0	5.3	14
15	1697.3	860.0	3.4	0.2	1702.4	970.8	1.3	0.2	1703.6	997.7	0.4	4.9	1692.4	760.6	1 0.1	7.0	1673.9	449.7	0	4.9	1643.1	132.2	0	4.7	15
16	1697.6	866.4	3.4	0.2	1702.4	970.8	1.1	0.2	1703.2	988.7	0.4	4.9	1691.9	750.8	1 0.1	5.1	1673.2	440.0	0	4.9	1641.7	123.0	0	4.6	16
17	1697.9	872.7	3.4	0.2	1702.5	973.0	1.1	0.2	1703.1	986.5	0.4	1.5	1691.4	741.0	1 0.1	5.0	1672.4	429.0	0	5.6	1640.2	113.0	0	5.1	17
18	1698.2	879.0	3.4	0.2	1702.5	973.0	1.1	0.2	1702.9	982.0	0.4	2.7	1690.9	731.2	1 0.1	5.0	1671.7	419.3	0	4.9	1638.5	102.8	0	5.1	18
19	1698.5	885.3	3.4	0.2	1702.6	975.2	1.1	0.2	1702.7	977.5	0.4	2.7	1690.3	719.4	1 0.1	6.1	1670.9	408.2	0	5.5	1636.6	92.3	0	5.3	19
20	1698.7	889.5	2.3	0.2	1702.6	975.2	1.1	0.2	1702.5	973.0	0.4	2.7	1689.8	709.9	m 0	4.8	1670.2	398.6	0	4.9	1634.5	81.5	0	5.4	20
21	1698.9	893.7	2.3	0.2	1702.7	977.5	1.1	0.2	1702.3	968.5	0.4	2.6	1689.4	702.7	0	3.6	1669.5	389.8	0	4.4	1632.4	72.9	0	4.4	21
22	1699.1	897.9	2.3	0.2	1702.8	979.7	1.1	0.2	1702.1	964.0	0.4	2.7	1688.7	690.0	0	5.4	1668.7	380.2	0	4.9	1629.2	60.4	0	5.3	22
23	1699.3	902.2	2.4	0.2	1702.8	979.7	1.0	0.2	1701.8	957.3	0.4	3.8	1688.3	682.8	0	3.6	1668.0	371.8	0	4.2	1626.1	49.9	0	5.3	23
24	1699.5	906.4	2.3	0.2	1702.9	982.0	1.0	0.2	1701.6	952.8	m 0.3	2.5	1687.7	671.9	0	5.5	1667.2	362.1	0	4.9	1623.4	42.4	0	3.8	24
25	1699.7	910.6	2.3	0.2	1703.0	984.2	1.0	0.2	1701.4	948.3	0.3	2.6	1687.1	661.1	0	5.5	1666.3	351.3	0	5.4	1619.4	33.0	0	4.7	25
26	1699.9	914.8	2.3	0.2	1703.1	986.5	1.0	0.2	1701.2	943.8	0.3	2.6	1686.6	652.0	0	4.6	1665.3	339.3	0	6.1	1615.6	25.2	0	3.9	26
27	1700.1	919.1	2.4	0.2	1703.2	988.7	1.0	0.2	1700.9	937.1	0.3	3.7	1686.2	644.8	0	3.6	1664.4	328.9	0	5.2	1613.5	21.6	0	1.8	27
28	1700.3	923.6	2.5	0.2	1703.3	991.0	1.0	0.2	1700.7	932.6	0.3	2.5	1685.7	635.8	0	4.5	1663.4	317.6	0	5.7	1612.6	20.1	0	0.8	28
29	1700.5	928.1	2.4	0.2	1703.4	993.2	1.0	0.2	1700.4	925.9	0.3	3.7	1685.1	624.9	0	5.5	1662.4	306.3	0	5.7	1612.5	20.0	0	0.1	29
30	1700.7	932.6	2.5	0.2	1703.5	995.4	1.0	0.2	1700.1	919.1	0.3	3.7	1684.4	613.2	0	5.9	1661.4	295.0	0	5.7	1612.4	19.8	0	0.1	30
31					1703.6	997.7	1.0	0.2					1683.6	599.9	0	6.7	1660.4	283.7	0	5.7					31
TOTAL			127.6	5.3			39.0	6.2			13.0	52.6			3.6	164.5			0	159.4			0	133.1	
Inf. Ac. Ft.			253.1				77.4				25.8				7.1				0				0	1879.3	
Outf. Ac. Ft.				10.5				12.3				104.3				326.3				316.2			264.0	1868.4	
Maximum Mean Daily Inflow			9.7				1.6				0.7				0.3				0				0	51.1	
Minimum Mean Daily Inflow			2.3				1.0				0.3				0				0				0	0	
Storage Change			+242.6				+65.1				-78.6				-319.2				- 316.2				-263.9	+10.8	

REMARKS: * Outflows less than 0.3 cfs are measured leakage ** Outflows computed beginning 6/14/37 ‡ Mean for period Year

Max. W. S. Elev.	1704.0	feet on 6/9 to 14/37	Storage 1006.7	Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS
Min. W. S. Elev.	1603.0	feet on 10/15 to 28/37	Storage 8.5	Acre Feet	H. P. Kaiser	Dam Tender	Gage Hts. copied H.A.V. Checked MR
Max. Peak Inf.	98.0	C.F.S. from 5:00 P.M. on 2-6-37	to 6:00 P.M. on 2-6-37		R. P. Dalton	Hydrographer	Storage applied H.A.V. Checked MR
Max. Peak Outf.	20.0	C.F.S. from 12:00 P.M. on 2-16-37	to 8:00 P.M. on 2-21-37			Hydrographer	Inf. & Outf. computed H.A.V. Checked M.W.R.

Gage Heights & Storage as of mignight on day shown. Date 11/30/37

i=interpolated m=measured

F. C. Dist. Form 88 100 1/37

Storages based on U.S.F.S. Survey of September, 1934 corrected for debris following 3-2-38

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

In Big Dalton Canyon for the Year Ending September 30, 1938

Drainage Area 4.49 Square Miles. Capacity of Reservoir 3-2-38 - 3-3-38 1053.4 - 968.7 Ac. Ft. at Spillway Elev. 1706.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder AU

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	Day
1	1612.4	19.8	0	0.2	1603.9	9.2	0	0	1603.7	9.0	0.1	0.1	1608.3	13.9	0.1	0	1619.9	34.0	1.6	0	1674.6	458.0	101.4	9.7	1
2	1612.2	19.5	0	0.2	1603.8	9.1	0	0	1603.7	9.0	0.1	0.1	1608.5	14.1	0.1	0	1620.4	35.2	0.6	0	1700.4	925.9	415.1	179.2	2
3	1612.0	19.1	0	0.2	1603.7	9.0	0	0	1603.7	9.0	0.1	0.1	1608.7	14.4	0.2	0	1625.8	48.9	1.9	0	1703.3	•907.9	157.9	125.1	3
4	1611.7	18.7	0	0.2	1603.5	9.0	0	0	1603.7	9.0	0.1	0.1	1608.9	14.6	0.1	0	1628.8	59.0	5.1	0	1692.9	697.1	70.7	177.0	4
5	1611.4	18.2	0	0.2	1603.7	9.0	0	0.1	1603.7	9.0	0.1	0.1	1609.1	14.8	0.1	0	1629.9	62.8	1.9	0	1688.5	618.1	43.7	83.5	5
6	1611.2	17.8	0	0.2	1603.8	9.1	0.1	0.1	1603.7	9.0	0.1	0.1	1609.3	15.1	0.1	0	1630.7	66.0	1.6	0	1681.5	505.4	39.2	96.1	6
7	1610.8	17.2	0	0.2	1603.9	9.2	0.1	0.1	1603.7	9.0	0.1	0.1	1609.5	15.3	0.1	0	1631.3	68.4	1.2	0	1677.7	448.2	35.7	64.5	7
8	1610.5	16.7	0	0.2	1604.0	9.3	0.1	0.1	1603.6	9.0	0.1	0.1	1609.7	15.5	0.1	0	1631.9	70.9	1.3	0	1675.2	414.1	35.3	52.5	8
9	1610.2	16.2	0	0.2	1604.0	9.3	0.1	0.1	1603.7	9.0	0.1	0.1	1609.8	15.7	0.1	0	1633.5	77.4	3.2	0	1673.5	391.8	29.6	40.8	9
10	1609.8	15.7	0	0.2	1604.0	9.3	0.1	0.1	1603.8	9.1	0.1	0.1	1610.0	15.9	0.1	0	1634.7	82.3	2.5	0	1670.3	351.9	25.8	47.0	10
11	1609.5	15.3	0	0.2	1604.0	9.3	0.1	0.1	1604.3	9.5	0.1	0	1610.1	16.1	0.1	0	1637.9	99.5	8.7	0	1670.5	354.4	14.9	13.6	11
12	1609.2	15.0	0	0.2	1604.0	9.3	0.1	0.1	1604.6	9.7	0.1	0	1610.2	16.2	0.1	0	1640.6	115.0	7.8	0	1674.1	399.5	38.7	16.0	12
13	1608.9	14.6	0	0.2	1604.0	9.3	0.1	0.1	1604.8	9.9	0.1	0	1610.4	16.5	0.1	0	1642.2	125.6	5.3	0	1677.3	442.6	37.8	16.0	13
14	1608.5	14.4	0	0.2	1604.0	9.3	0.1	0.1	1604.9	9.9	0.1	0	1610.6	16.9	0.2	0	1643.2	132.2	3.4	0	1679.6	475.5	32.6	16.0	14
15	1608.1	14.0	0	0.2	1603.9	9.2	0.1	0.1	1605.1	10.1	0.1	0	1614.0	22.4	0.5	0	1644.0	137.6	2.7	0	1680.8	493.2	27.3	18.4	15
16	1607.7	13.2	0	0.2	1603.8	9.2	0.1	0.1	1605.2	10.2	0.1	0	1614.4	23.0	0.3	0	1644.6	141.5	2.0	0	1680.1	482.8	19.8	25.0	16
17	1607.3	12.7	0	0.2	1603.7	9.0	0.1	0.1	1605.3	10.4	0.1	0	1614.8	23.7	0.3	0	1645.8	145.8	2.1	0	1679.1	468.2	17.6	25.0	17
18	1606.9	12.2	0	0.2	1603.6	9.0	0.1	0.1	1605.5	10.6	0.1	0	1615.2	24.4	0.4	0	1645.7	149.7	2.0	0	1678.2	455.3	14.0	20.5	18
19	1606.5	11.8	0	0.2	1603.6	9.0	0.1	0.1	1605.7	10.8	0.1	0	1615.6	25.2	0.4	0	1646.4	155.1	2.7	0	1678.1	453.8	10.7	11.5	19
20	1606.2	11.4	0	0.2	1603.7	9.0	0.1	0.1	1605.8	10.9	0.1	0	1616.0	26.0	0.4	0	1646.9	159.1	2.0	0	1678.2	455.3	10.8	10.0	20
21	1605.8	10.9	0	0.2	1603.7	9.0	0.1	0.1	1605.9	11.1	0.1	0	1616.3	26.7	0.4	0	1647.3	162.2	1.6	0	1678.1	453.8	9.2	10.0	21
22	1605.4	10.5	0	0.2	1603.7	9.0	0.1	0.1	1606.0	11.2	0.1	0	1616.5	27.1	0.2	0	1647.7	165.3	1.6	0	1677.9	451.0	8.6	10.0	22
23	1605.0	10.0	0	0.1	1603.7	9.0	0.1	0.1	1606.3	11.5	<0.1	0	1616.7	27.5	0.2	0	1647.9	166.9	0.8	0	1677.5	445.4	7.2	10.0	23
24	1604.6	9.7	0	0.1	1603.7	9.0	0.1	0.1	1606.5	11.8	0.1	0	1616.9	27.9	0.2	0	1648.2	169.2	1.1	0	1677.8	449.6	8.4	6.3	24
25	1604.3	9.5	0	0.1	1603.7	9.0	0.1	0.1	1606.6	11.9	0.1	0	1617.1	28.3	0.2	0	1648.5	171.6	1.2	0	1678.4	451.9	9.3	5.0	25
26	1604.1	9.3	0	0.1	1603.7	9.0	0.1	0.1	1607.0	12.4	0.2	0	1617.3	28.7	0.2	0	1648.7	173.1	0.8	0	1679.0	456.7	9.3	5.0	26
27	1604.0	9.3	0	0.1	1603.7	9.0	0.1	0.1	1607.2	12.6	0.1	0	1617.5	29.1	0.2	0	1649.4	178.6	2.6	0	1679.1	458.2	9.7	8.9	27
28	1603.9	9.2	0	0.1	1603.7	9.0	0.1	0.1	1607.5	13.0	0.2	0	1617.7	29.5	0.2	0	1649.	276.2	49.2	0	1678.9	465.3	10.0	11.5	28
29	1603.9	9.2	0	0.1	1603.7	9.0	0.1	0.1	1607.7	13.2	0.1	0	1618.0	30.1	0.3	0					1678.8	463.8	8.0	8.7	29
30	1603.9	9.2	0	0.1	1603.7	9.0	0.1	0.1	1607.9	13.4	0.1	0	1618.2	30.5	0.2	0					1678.8	463.8	7.2	7.2	30
31	1603.9	9.2	0	0.1					1608.1	13.7	0.2	0	1618.4	30.9	0.2	0					1678.9	465.3	6.9	6.8	31
TOTAL			0	5.3			2.5	2.6			3.4	1.0			8.7	0			123.7	0			1273.4	1136.8	
Inf. Ac. Ft.			0				5.0				6.7				17.3				245.4				2525.8	2800.8	
Outf. Ac. Ft.			10.5				5.2				2.0				0				0				2253.6	2871.3	
Maximum Mean Daily Inflow			0				0.1				0.2				2.8				49.2				415.1	415.1	
Minimum Mean Daily Inflow			0				0				0.1				0.1				0.8				2.3	0	
Storage Change			-10.6				-0.2				+4.7				+17.2				+245.2				+189.1+**	+445.5+**	

REMARKS •-Beginning 3-3-38 Storages are corrected for debris loss i = mean for period ** = 83.1 A.F. Debris

Max. W. S. Elev.	1704.65 feet on 3-3-38 Storage 1021.2 Acre Feet	RECORDS COLLECTED BY			SECOND 6 MONTHS			
Min. W. S. Elev.	1503.5 feet on various times Storage 9.0 Acre Feet	H. Paul Keiser	Dam Tender	Gage Hts. copied	T.M.	Checked	C.C.G.	
Max. Peak Inf.	1318 C.F.S. from 3:00 P.M. on 3-2-38 to 3:30 P.M. on 3-2-38	R. P. Dalton	Hydrographer	Storage applied	T.M.	Checked	C.C.G.	
Max. Peak Outf.	739 C.F.S. from 5:30 P.M. on 3-2-38 to 6:00 P.M. on 3-2-38		Hydrographer	Inf. & Outf. computed	H.A.V.	Checked	C.C.G.	
Gage heights and storages reduced to midnight on day shown.				Date	2-2-38			

F. C. Dist. Form 88 100 1/37

Storages based on U.S.F.S. Survey of September, 1934 corrected for debris following 3-2-38

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

In Big Dalton Canyon for the Year Ending September 30, 1938

Drainage Area 4.49 Square Miles. Capacity of Reservoir 3-2-38 - 3-3-38 1053.4 - 968.7 Ac. Ft. at Spillway Elev. 1706.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder AU

Gage Heights Read Daily

Day	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1679.0	466.7	5.2	4.5	1689.5	635.6	3.5	o 0.05	1695.5	746.4	i 1.0	• 0.05	1695.3	742.5	i 0.7	i 3.0	1683.5	535.0	i 0.4	i 3.9	1664.6	286.3	i 0.1	i 4.5	1
2	1679.2	459.6	5.0	4.5	1689.9	642.6	3.6	o 0.05	1695.8	748.3	i 1.0	• 0.05	1695.1	738.6	i 0.7	i 3.0	1683.1	528.7	i 0.4	i 3.8	1663.8	277.5	i 0.1	i 4.3	2
3	1679.3	471.1	5.2	4.5	1690.2	648.0	2.8	o 0.05	1695.7	750.3	i 1.0	o 0.05	1694.9	734.8	i 0.7	i 3.0	1682.7	522.4	i 0.4	i 3.8	1663.1	270.0	i 0.1	i 4.2	3
4	1679.4	472.5	5.2	4.5	1690.5	653.4	2.7	o 0.05	1695.8	752.2	i 1.0	o 0.05	1694.6	729.1	i 0.7	i 3.0	1682.2	514.6	i 0.4	i 4.1	1662.3	261.6	i 0.1	i 4.3	4
5	1679.5	474.0	5.3	4.5	1690.7	656.9	1.8	o 0.05	1695.9	754.2	i 1.0	• 0.05	1694.3	723.4	i 0.7	i 3.1	1681.7	506.9	i 0.4	i 4.1	1661.5	253.3	i 0.1	i 4.3	5
6	1679.5	474.0	4.5	4.5	1691.0	662.3	2.8	o 0.05	1696.0	756.1	i 1.0	• 0.05	1693.9	715.8	i 0.7	i 4.5	1681.3	500.8	i 0.4	i 4.1	1660.5	243.2	i 0.1	i 5.3	6
7	1679.5	474.0	4.5	4.5	1691.3	667.7	2.8	o 0.05	1696.0	756.1	i 1.0	• 0.05	1693.5	708.3	i 0.7	i 4.2	1680.8	493.2	i 0.4	i 4.1	1659.5	233.2	i 0.1	i 5.3	7
8	1679.4	472.5	3.7	4.5	1691.6	671.4	1.9	o 0.05	1696.1	758.1	i 1.0	• 0.05	1693.2	702.7	i 0.7	i 4.5	1680.3	485.8	i 0.4	i 4.1	1658.4	222.5	i 0.1	i 5.2	8
9	1679.6	476.5	3.8	2.3	1691.7	675.0	1.9	o 0.05	1696.2	760.0	i 1.0	• 0.05	1692.8	695.2	i 0.7	i 4.5	1679.8	478.4	i 0.4	i 4.1	1657.4	213.0	i 0.1	i 5.3	9
10	1680.2	484.3	4.5	o 0.04	1691.9	678.6	1.8	o 0.05	1696.3	762.0	i 0.9	• 0.05	1692.3	685.0	i 0.7	i 4.4	1679.3	471.1	i 0.4	i 4.1	1656.2	201.8	i 0.1	i 5.3	10
11	1680.8	493.2	4.5	o 0.04	1692.1	683.3	1.9	o 0.05	1696.4	764.0	i 0.9	• 0.05	1691.9	678.6	i 0.6	i 4.1	1678.8	463.8	i 0.3	i 4.0	1655.1	191.9	i 0.05	i 5.3	11
12	1681.4	502.3	4.7	o 0.04	1692.3	686.0	1.9	o 0.05	1696.5	765.0	i 0.9	• 0.05	1691.5	671.4	i 0.6	i 4.1	1678.2	456.3	i 0.3	i 4.7	1653.9	181.3	i 0.05	i 5.2	12
13	1682.0	511.5	4.7	o 0.04	1692.5	689.7	2.0	o 0.05	1696.5	767.9	i 0.9	• 0.05	1691.1	664.1	i 0.6	i 4.1	1677.6	448.2	i 0.3	i 4.7	1652.7	171.1	i 0.05	i 5.2	13
14	1682.5	519.3	3.9	o 0.04	1692.7	693.4	1.9	o 0.05	1696.7	769.9	i 0.9	• 0.05	1690.8	658.7	i 0.6	i 4.0	1676.9	437.0	i 0.3	i 4.7	1651.6	161.8	i 0.05	i 4.7	14
15	1683.0	527.1	4.0	o 0.04	1692.9	697.1	1.9	o 0.05	1696.7	769.9	i 0.9	0.9	1690.4	651.6	i 0.6	i 4.0	1676.3	428.9	i 0.3	i 4.7	1650.3	151.2	i 0.05	i 5.4	15
16	1683.5	535.0	4.0	o 0.04	1693.1	700.8	1.9	• 0.05	1696.7	769.9	i 0.9	i 1.5	1690.0	644.4	i 0.6	i 4.2	1675.6	419.4	i 0.3	i 4.6	1648.9	140.1	i 0.05	i 5.6	16
17	1684.0	542.9	4.0	o 0.04	1693.3	704.5	1.9	• 0.05	1696.6	767.9	i 0.9	i 1.5	1689.6	637.4	i 0.6	i 4.2	1675.0	411.4	i 0.3	i 4.6	1647.4	128.9	i 0.05	i 5.8	17
18	1684.4	549.4	3.4	o 0.04	1693.5	708.3	2.0	• 0.05	1696.5	766.0	i 0.9	i 1.5	1689.2	630.3	i 0.6	i 4.1	1674.4	403.5	i 0.3	i 4.5	1645.9	118.3	i 0.05	i 5.3	18
19	1684.8	555.9	3.3	o 0.04	1693.7	712.1	2.0	• 0.05	1696.4	764.0	i 0.9	i 1.5	1688.8	623.3	i 0.6	i 4.2	1673.8	395.6	i 0.3	i 4.5	1644.4	108.6	i 0.05	i 5.0	19
20	1685.2	562.4	3.3	o 0.04	1693.9	715.8	1.9	o 0.05	1696.4	764.0	i 0.9	i 1.5	1688.4	616.4	i 0.6	i 4.0	1673.1	386.7	i 0.3	i 4.5	1642.7	98.5	i 0.05	i 5.1	20
21	1685.6	569.0	3.3	o 0.04	1694.1	719.6	i 1.6	o 0.05	1696.3	762.0	i 0.8	i 1.6	1688.0	609.4	i 0.5	i 4.1	1672.5	379.1	i 0.2	i 4.3	1641.0	89.2	i 0	i 4.7	21
22	1686.0	575.6	3.4	o 0.04	1694.3	723.4	i 1.6	o 0.05	1696.2	760.0	i 0.8	i 1.6	1687.6	602.6	i 0.5	i 3.9	1671.8	370.3	i 0.2	i 4.3	1639.2	80.1	i 0	i 4.6	22
23	1686.4	582.3	3.4	o 0.04	1694.4	725.3	i 1.6	o 0.05	1696.2	760.0	i 0.8	i 1.6	1687.2	596.8	i 0.5	i 3.9	1671.2	362.9	i 0.2	i 4.2	1637.3	71.3	i 0	i 4.4	23
24	1686.8	589.0	3.4	o 0.04	1694.6	727.3	i 1.6	o 0.05	1696.1	758.1	i 0.8	i 1.6	1686.8	589.0	i 0.5	i 4.0	1670.4	353.1	i 0.2	i 4.7	1635.3	62.6	i 0	i 4.4	24
25	1687.2	595.8	3.3	o 0.05	1694.7	731.0	i 1.5	o 0.05	1696.0	756.1	i 0.8	i 1.6	1686.4	582.3	i 0.5	i 3.8	1669.7	344.7	i 0.2	i 4.7	1633.3	54.6	i 0	i 4.1	25
26	1687.6	602.6	3.5	o 0.05	1694.8	732.9	i 1.2	o 0.05	1695.9	754.2	i 0.8	i 1.7	1686.0	575.6	i 0.5	i 3.9	1669.1	337.5	i 0.2	i 4.4	1630.8	45.4	i 0	i 4.6	26
27	1688.0	609.4	3.5	o 0.05	1694.9	734.8	i 1.2	o 0.04	1695.8	752.2	i 0.8	i 1.8	1685.7	570.7	i 0.5	i 3.8	1668.4	329.4	i 0.2	i 4.3	1628.0	35.3	i 0	i 4.6	27
28	1688.3	614.6	2.6	o 0.05	1695.1	738.6	i 1.2	o 0.04	1695.7	750.3	i 0.8	i 1.8	1685.3	564.1	i 0.5	i 3.8	1667.6	320.1	i 0.2	i 4.3	1625.1	28.1	i 0	i 4.1	28
29	1688.7	621.6	3.6	o 0.05	1695.3	740.5	i 1.2	o 0.04	1695.6	748.3	i 0.8	i 1.8	1684.9	557.4	i 0.5	i 3.8	1666.9	312.1	i 0.2	i 4.3	1622.4	21.4	i 0	i 3.4	29
30	1689.1	628.6	3.6	o 0.05	1695.5	742.4	i 1.1	o 0.04	1695.5	746.4	i 0.8	i 1.7	1684.9	549.4	i 0.5	i 3.8	1666.2	304.1	i 0.2	i 4.5	1620.0	16.3	e 0	i 3.6	30
31					1695.4	744.5	i 1.1	o 0.04					1684.0	542.9	i 0.5	i 3.8	1665.4	295.1	i 0.2	i 4.4					31
TOTAL			121.5	39.2			59.9	1.5			26.9	26.9			18.5	121.1			9.2	134.1			1.5	142.1	
Inf. Ac. Ft.			241.0				118.8				53.4				36.7				18.2				3.0	3271.3	
Outf. Ac. Ft.			77.8				3.0				51.4				240.2				266.0				281.8	3191.5	
Maximum Mean Daily Inflow			6.0				3.6				1.0				0.7				0.4				0.1	415.1	
Minimum Mean Daily Inflow			2.6				1.1				0.8				0.5				0.2				0	0	
Storage Change			+163.3				+115.9				-1.9				-203.5				-247.8				-278.8	-3.5 +**	

REMARKS •-Seepage thru drain pipes. i = interpolated. e = estimated (mean for period ** = 83.1 A.F. Debris

Max. W. S. Elev.	1704.65 feet on 3-3-38 Storage 1021.2 Acre Feet	RECORDS COLLECTED BY			SECOND 6 MONTHS			
Min. W. S. Elev.	1603.6 feet on various times Storage 9.0 Acre Feet	H. Paul Keiser	Dam Tender	Gage Hts. copied	H.A.V.	Checked	OCG & JAH	
Max. Peak Inf.	1318 C.F.S. from 3:00 P.M. on 3-2-38 to 3:30 P.M. on 3-2-38	R. P. Dalton	Hydrographer	Storage applied	H.A.V.	Checked	OCG & JAH	
Max. Peak Outf.	739 C.F.S. from 5:30 P.M. on 3-2-38 to 6:00 P.M. on 3-2-38		Hydrographer	Inf. & Outf. computed	H.A.V.	Checked	J.A.H.	
Gage heights and storages reduced to midnight on day shown				Date	2-2-38			

F. C. Dist. Form 69 100 1/37

Storages based on L.A.C.F.C.D. Survey of January 8, 1935.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam — File No.

In ARROYO SECO for the Year Ending September 30, 19 37

Continuous Water Stage Recorder Au.

Drainage Area 30.62 Square Miles. Capacity of Reservoir 4014.6 Ac. Ft. at Spillway Elev. 1054.0 Ft. Gage Heights Read at various times

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1003.2	x5.7		0	1007.8	94.8	0.6	1.0	1006.9	72.2	0.3	0.6	1029.0	1228.0	32.7	28.8	1025.5	958.9	18.2	14.4	1039.5	2203.8	25.3	30.3	1
2	1003.2	5.7		0	1007.8	94.8	0.6	1.0	1006.9	72.2	0.3	0.6	1028.7	1204.9	16.6	28.3	1025.6	966.6	18.8	14.9	1039.3	2183.9	19.3	29.4	2
3	1003.2	5.7		0	1007.8	94.8	0.6	1.0	1006.9	72.2	0.3	0.6	1028.4	1181.8	15.2	26.8	1025.5	958.9	10.8	14.7	1039.1	2163.9	18.1	28.2	3
4	1003.2	5.7		0	1007.8	94.8	0.6	1.0	1006.8	69.7	0.3	0.5	1028.0	1151.1	9.7	25.2	1025.4	951.3	10.6	14.4	1038.9	2144.0	17.0	27.0	4
5	1003.2	5.7		0	1007.8	94.8	0.6	1.0	1006.8	69.7	0.3	0.5	1028.0	1151.1	24.2	24.2	1025.3	943.6	10.2	14.1	1038.7	2124.1	16.0	26.0	5
6	1003.2	5.7		0	1007.7	92.2	0.6	1.0	1006.8	69.7	0.3	0.5	1028.0	1151.1	24.2	24.2	1033.0	1574.7	339.9	21.7	1038.5	2104.1	14.9	25.0	6
7	1003.2	5.7		0	1007.7	92.2	0.6	1.0	1006.8	69.7	0.3	0.5	1027.8	1135.7	16.0	23.8	1036.8	1934.7	225.7	44.2	1038.3	2084.2	14.0	24.0	7
8	1003.2	5.7		0	1007.7	92.2	0.5	1.0	1006.8	69.7	0.2	0.5	1027.5	1112.7	11.4	22.7	1037.9	2044.3	106.6	50.4	1038.1	2064.3	12.9	23.0	8
9	1003.2	5.7		0	1007.7	92.2	0.5	1.0	1006.7	67.3	0.2	0.5	1027.3	1097.3	11.2	21.6	1038.4	2094.2	77.8	52.6	1037.9	2044.3	11.9	22.0	9
10	1003.2	5.7		0	1007.6	89.7	0.5	1.0	1006.7	67.3	0.2	0.5	1027.0	1074.2	11.2	20.5	1038.6	2114.1	63.5	53.5	1037.7	2024.4	17.9	21.0	10
11	1003.2	5.7		0	1007.6	89.7	0.5	1.0	1006.7	67.3	0.2	0.5	1026.8	1058.9	11.7	19.4	1038.6	2114.1	53.8	53.8	1037.4	1994.5	17.8	19.8	11
12	1003.2	5.7		0	1007.5	87.2	0.5	1.0	1006.7	67.3	0.2	0.5	1026.7	1051.2	10.0	18.9	1038.5	2104.1	48.6	53.6	1038.7	2124.1	84.9	19.5	12
13	1003.2	5.7		0	1007.4	84.7	0.5	0.9	1006.6	65.0	0.2	0.4	1026.5	1032.8	10.6	18.3	1039.8	2234.3	119.5	53.9	1041.6	2434.3	181.8	25.4	13
14	1003.2	5.7		0	1007.4	84.7	0.5	0.9	1006.6	65.0	0.2	0.4	1026.3	1020.4	9.8	17.5	1044.2	2783.4	312.4	66.8	1042.5	2534.4	79.1	28.7	14
15	1003.2	5.7		0	1007.3	82.2	0.5	0.8	1008.8	122.3	29.7	0.8	1026.1	1000.1	9.1	16.8	1045.2	2840.6	168.5	109.3	1044.4	2746.6	137.0	30.5	15
16	1003.2	5.7		0	1007.3	82.2	0.4	0.8	1010.0	169.2	20.6	1.4	1025.9	989.7	8.3	16.1	1044.7	2778.9	137.6	P168.8	1045.9	2928.4	127.1	34.9	16
17	1003.2	5.7		0	1007.2	79.7	0.4	0.8	1009.9	166.6	0.6	1.4	1025.7	974.3	7.8	15.5	1043.2	2612.2	110.3	P194.3	1046.9	3053.6	100.4	37.3	17
18	1007.5	87.2	0.2		1007.2	79.7	0.4	0.8	1009.8	152.8	0.3	1.4	1025.5	958.9	7.1	14.9	1041.7	2446.5	99.8	P183.9	1047.8	3166.2	96.0	39.2	18
19	1007.4	84.7	0.5		1007.1	77.2	0.4	0.7	1009.7	149.4	0.3	1.4	1025.3	943.5	6.5	14.2	1040.2	2278.7	61.7	P146.8	1048.3	3228.8	72.2	40.6	19
20	1007.3	82.2	0.8		1007.1	77.2	0.4	0.7	1009.7	149.4	0.3	1.4	1025.1	928.2	5.8	13.6	1039.2	2179.9	49.8	P108.6	1048.3	3228.8	78.1	P 76.1	20
21	1007.2	79.7	0.8		1007.1	77.2	0.4	0.7	1009.6	146.4	< 0.3	1.4	1024.9	912.8	[4.3	13.0	1038.4	2094.2	49.6	P 89.7	1047.4	3116.2	78.9	P135.7	21
22	1007.2	79.7	0.8		1007.1	77.2	0.4	0.7	1009.5	143.4	0.3	1.4	1024.6	891.8	4.3	12.4	1036.3	2084.2	39.9	P 44.9	1048.3	3228.8	121.7	P 95.0	22
23	1007.1	77.2	0.7		1007.1	77.2	< 0.3	0.7	1009.5	143.4	0.3	1.4	1024.4	879.1	[4.3	11.7	1038.4	2094.2	28.8	23.8	1048.8	3291.4	73.2	41.6	23
24	1007.1	77.2	0.7		1007.0	74.7	0.3	0.7	1009.5	143.4	< 0.3	1.4	1024.2	866.4	[4.3	11.2	1038.7	2124.1	39.6	24.5	1048.7	3278.9	94.6	P100.9	24
25	1007.1	77.2	0.7		1007.0	74.7	0.3	0.6	1010.1	163.9	11.7	1.4	1024.0	853.8	[4.3	10.7	1039.4	2193.8	62.7	27.5	1048.3	3228.8	95.1	P120.4	25
26	1007.1	77.2	0.7		1007.0	74.7	0.3	0.6	1010.1	163.9	1.4	1.4	1023.8	841.1	3.8	10.2	1039.6	2213.8	40.1	30.0	1047.8	3166.2	85.5	P117.0	26
27	1007.0	74.7	0.6		1006.9	72.2	0.3	0.6	1020.7	1344.5	246.0	3.7	1023.6	828.4	3.4	9.8	1039.6	2213.8	30.6	30.6	1047.3	3103.7	83.6	P115.1	27
28	1007.0	74.7	0.6		1006.9	72.2	0.3	0.6	1022.8	1777.7	73.7	6.5	1023.5	822.1	6.3	9.5	1039.6	2213.8	30.6	30.6	1046.7	3028.6	75.6	P113.5	28
29	1007.2	79.7	0.7		1006.9	72.2	0.3	0.6	1022.8	1777.7	7.2	7.2	1023.5	822.1	9.4	9.4					1045.6	3016.0	64.4	P 70.8	29
30	1007.5	87.2	0.9		1006.9	72.2	0.3	0.6	1025.6	1966.6	104.1	8.9	1024.8	905.1	52.1	10.2					1046.8	3041.1	44.5	[31.8	30
31	1007.6	94.8		1.0					1028.9	1220.3	152.6	24.7	1025.4	951.3	36.9	13.6					1046.9	3053.6	36.5	[30.2	31
TOTAL			55.0	10.1			13.4	24.8			553.1	74.3			397.5	533.1			2364.9	1728.4			1973.5	1550.1	
Inf. Ac. Ft.			109.1				25.6				1295.4				788.4				4690.7				3914.4	10824.6	
Outf. Ac. Ft.			20.0				49.2				142.4				1057.4				3428.2				3074.6	7776.8	
Maximum Mean Daily Inflow			42.3				0.6				246.0				52.1				339.9				181.8	339.9	
Minimum Mean Daily Inflow							0.3				0.2				3.4				10.2				7.8		
Storage Change			+89.1				-22.8				+1148.1				-269.0				-1262.5				+839.8	+3047.9	

REMARKS: x-Debris & Water Storage — Outflows = Computed Percolation Rate — -Indicates valve release + Percolation Loss { = Mean for Period 1 = Interpolated — Year

Max. W. S. Elev.	1048.95	feet on 3-24-37 Storage 3310.1 Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS	
Min. W. S. Elev.	1003.20	feet on 10- 1-17-38 Storage 5.7 Acre Feet	E. F. Godso - Temporary	Dam Tender	Gage Hts. copied H.A.V.	Checked M.R.
Max. Peak Inf.	851.8	C.F.S. from 5:00 P.M. on 2-5-37 to 6:00 P.M. on 2-6-37	R. P. Dalton	Hydrographer	Storage applied H.A.V.	Checked M.R.
Max. Peak Outf.	134.7 (valve release)	C.F.S. Max mean daily on 2-18-37 per Pasadena gaging station		Hydrographer	Inf. & Outf. computed H.A.V.	Checked T.E.M.
		Gage Hts. & Storage as of midnight on day shown			Date 9-21-38	

F. C. Dist. Form 69 100 1/37

Storages based on L.A.C.F.C.D. Survey of January 1, 1935

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam — File No.

In ARROYO SECO for the Year Ending September 30, 19 37

Continuous Water Stage Recorder Au.

Drainage Area 30.62 Square Miles. Capacity of Reservoir 4014.6 Ac. Ft. at Spillway Elev. 1054.0 Ft. Gage Heights Read at various times

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1047.1	3078.6	41.2	28.6	1040.8	2345.4	3.6	20.4	1034.2	1581.5	3.7	12.7	1027.6	1120.4	0	7.4	1022.6	755.0	0	4.7	1012.9	267.8	0	[16.8	1
2	1047.3	3103.7	41.5	28.9	1040.5	2312.1	3.1	19.9	1033.2	1654.8	[0.2	12.4	1027.4	1105.0	0	7.3	1022.4	752.3	0	4.6	1012.0	234.4	0	[16.9	2
3	1047.4	3116.2	32.4	29.1	1040.2	2278.7	2.8	19.7	1033.6	1728.1	[0.1	12.1	1027.2	1089.6	0	7.1	1022.3	746.0	0	4.5	1011.3	208.4	0	[13.1	3
4	1047.4	3116.2	29.2	29.2	1039.9	2245.4	2.5	19.3	1033.4	1610.3	[0.2	11.9	1027.0	1074.2	0	7.0	1022.1	733.3	0	4.5	1011.3	208.4	0	[1.1	4
5	1047.4	3116.2	29.2	29.2	1039.7	2223.7	8.0	18.9	1033.2	1593.5	2.8	11.7	1026.9	1066.5	0	6.9	1022.0	727.0	0	4.5	1011.2	204.7	0	[1.1	5
6	1047.4	3116.2	29.2	29.2	1039.6	2213.8	13.7	18.7	1033.0	1574.7	[2.1	11.5	1026.7	1051.2	0	6.8	1021.9	720.6	0	4.4	1011.1	201.0	0	[1.1	6
7	1047.3	3103.7	22.8	29.1	1039.4	2193.8	8.6	18.6	1032.8	1556.9	0	11.3	1026.5	1035.8	0	6.7	1021.7	707.9	0	4.4	1011.1	201.0	0	[1.1	7
8	1047.1	3078.6	16.1	28.9	1039.2	2173.9	8.4	18.4	1032.6	1539.1	0	11.1	1026.2	1012.7	0	6.5	1021.6	701.6	0	4.3	1011.0	197.3	0	[1.1	8
9	1046.9	3053.6	18.1	28.6	1039.0	2154.0	8.1	18.1	1032.3	1512.4	0	10.7	1026.1	1005.1	0	6.4	1021.5	695.3	0	4.3	1011.0	197.3	0	[1.0	9
10	1046.8	3041.1	18.1	28.4	1038.8	2134.0	7.7	17.8	1032.0	1486.8	0	10.6	1025.9	989.7	0	6.4	1021.3	682.6	0	4.3	1010.9	193.6	0	[1.0	10
11	1046.6	3016.0	19.4	28.2	1038.6	2114.1	7.5	17.6	1031.8	1468.6	0	10.4	1025.7	974.3	0	6.3	1021.2	676.2	0	4.2	1010.8	189.9	0	[1.0	11
12	1046.5	3003.5	15.1	28.0	1038.4	2094.2	7.4	17.4	1031.6	1450.2	0	10.2	1025.6	966.6	0	6.2	1021.1	669.9	0	4.2	1010.8	189.9	0	[1.0	12
13	1046.2	2965.0	15.1	27.7	1038.1	2054.3	2.0	17.1	1031.3	1423.5	0	10.0	1025.4	951.3	0	6.1	1020.9	657.2	0	4.2	1010.7	186.1	0	[1.0	13
14	1046.0	2941.0	15.1	27.3	1037.7	2024.4	0.2	16.6	1031.1	1405.7	0	9.8	1025.2	935.9	0	6.0	1020.8	650.9	0	4.1	1010.7	186.1	0	[1.0	14
15	1045.7	2903.4	8.1	27.0	1037.4	1994.5	0.3	16.2	1030.9	1387.9	0	9.7	1025.1	928.2	0	5.9	1020.7	644.5	0	4.1	1010.6	182.4	0	[1.0	15
16	1045.4	2866.9	7.7	25.6	1037.1	1954.9	0.3	15.9	1030.6	1351.2	0	9.5	1024.9	912.8	0	5.9	1020.6	638.2	0	4.0	1010.5	178.7	0	< 1.0	16
17	1045.1	2828.3	7.2	25.2	1036.8	1934.7	0.3	15.5	1030.4	1343.4	0	9.4	1024.8	905.1	0	5.8	1020.4	625.5	0	4.0	1010.5	178.7	0	[1.0	17
18	1044.8	2790.8	5.9	25.8	1036.5	1904.8	< 0.3	15.2	1030.2	1325.6	< 0	9.2	1024.6	891.8	0	5.7	1020.3	619.2	0	4.0	1010.4	175.0	0	[1.0	18
19	1044.5	2756.7	8.1	25.3	1036.2	1874.9	0.3	14.8	1029.9	1298.9	0	9.0	1024.4	879.1	0	5.6	1020.2	612.8	0	3.9	1010.4	175.0	0	[1.0	19
20	1044.3	2734.5	13.8	25.0	1036.0	1845.0	0.3	14.5	1029.7	1281.8	0	8.9	1024.3	872.8	0	5.5	1020.1	606.5	0	3.9	1010.3	171.3	0	[0.9	20
21	1044.0	2701.1	7.8	24.6	1035.7	1825.1	< 0.3	14.2	1029.5	1266.4	0	8.7	1024.1	860.1	0	5.5	1019.9	593.8	0	3.8	1010.3	171.3	0	[0.9	21
22	1043.7	2667.8	7.4	24.2	1035.5	1805.1	4.0	14.0	1029.3	1251.0	0	8.6	1024.0	853.8	0	5.4	1019.8	587.5	0	3.8	1010.2	167.6	0	[0.9	22
23	1043.4	2634.4	7.0	23.8	1035.3	1785.2	3.7	13.8	1029.1	1235.6	0	8.4	1023.8	841.1	0	5.3	1019.4	566.9	0	[0.4	1010.2	167.6	0	[0.9	23
24	1043.0	2590.0	1.0	23.4	1035.2	1775.2	8.6	13.6	1028.9	1220.3	0	8.3	1023.7	834.7	0	5.2	1018.8	537.2	0	[0.4	1010.2	167.6	0	[0.9	24
25	1042.6	2545.5	0.3	22.8	1035.1	1755.3	8.5	13.5	1028.7	1204.9	0	8.2	1023.6	828.4	0	5.2	1018.2	507.5	0	[0.0	1010.1	163.9	0	[0.8	25
26	1042.3	2512.2	5.6	22.4	1035.0	1735.3	[7.8	13.4	1028.5	1189.5	0	8.0	1023.4	815.7	0	5.1	1017.4	467.8	0	[0.0	1010.1	163.9	0	[0.8	26
27	1042.0	2478.8	[2.8	22.0	1034.9	1745.3	[7.8	13.3	1028.3	1174.2	0	7.9	1023.3	809.4	0	5.0	1015.6	423.2	0	[22.5	1010.0	160.2	0	[0.9	27
28	1041.7	2445.5	4.8	21.6	1034.8	1735.4	[7.9	13.2	1028.1	1158.8	0	7.7	1023.1	796.7	0	5.0	1015.9	393.4	0	[15.0	1010.0	160.2	0	[0.8	28
29	1041.4	2412.1	4.4	21.2	1034.7	1726.0	[7.6	13.1	1027.9	1143.9	0	7.6	1023.0	790.4	0	4.9	1015.4	368.6	0	[12.5	1009.9	156.5	0	[0.8	29
30	1041.1	2378.8	4.0	20.8	1034.5	1708.2	[7.6	13.0	1027.8	1135.7	< 0	7.5	1022.9	784.0	0	4.8	1014.7	334.5	0	[17.2	1009.9	156.5	0	[0.8	30
31					1034.4	1694.3	[7.5	12.8					1022.7	771.3	0	4.8	1013.8	301.2	0	[16.8					31
TOTAL		442.9	783.1			155.9		498.5			9.1	293.2			0	183.7			0	837.0			0	72.9	
Inf. Ac. Ft.		878.5				309.2					18.0				0				0				0	12030.3	
Outf. Ac. Ft.		1253.3						988.8				581.6				364.4				470.1			144.6	11879.6	
Maximum Mean Daily Inflow		41.6				13.7				3.7				0				0				0		339.9	
Minimum Mean Daily Inflow		0.3				0.2				0				0				0				0			
Storage Change		-674.8				-679.5				-563.6				-364.4				-470.1				-144.7		+150.8	

REMARKS: Outflows = Computed Percolation Rate — ° Indicates Valve release + Percolation Loss { = Mean for Period — Year

Max. W. S. Elev.	1048.95	feet on 3/24/37 Storage 3310.2 Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS	
Min. W. S. Elev.	1003.2	feet on 10-1-17-38 Storage 5.7 Acre Feet	E. F. Godso - Temporary	Dam Tender	Gage Hts. copied H.A.V	Checked M.W.R.
Max. Peak Inf.	851.8	C.F.S. from 5:00 P.M. on 2-6-37 to 6:00 P.M. on 2-6-37	R. P. Dalton	Hydrographer	Storage applied H.A.V.	Checked M.W.R.
Max. Peak Outf.	x 134.7	C.F.S. Max mean daily on 2-18-37 to per Pasadena gaging station		Hydrographer	Inf. & Outf. computed H.A.V.	Checked T.E.M.
	x(valve release)	Gage Hts. reduced to midnight on day shown			Date 9-21-38	

F. C. Dist. Form 66 100 1/37

Storages based on L.A.C.F.C.D. Survey of January, 1935
corrected by U.S.S.C.S. Survey of June, 1938.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

File No.

In ARROYO SECO for the Year Ending September 30, 1938

3-1-38 - 3-2-38
4014.6 - 2966.8

Drainage Area 30.62 Square Miles. Capacity of Reservoir Ac. Ft. at Spillway Elev. 1054.0 Ft.

Continuous Water Stage Recorder AU.

Gage Heights Read at various times.

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	Day
1	1009.8	152.8	0	[0.4	1007.7	92.2	0	° 4.1		0	0	0	1
2	1009.8	152.8	0	0.8	1007.2	79.7	0	° 6.3		0	0	0	2
3	1009.7	149.4	0	0.8	1006.8	69.7	0	° 6.0		0	0	0	3
4	1009.7	149.4	0	0.8	1006.4	60.5	0	° 4.6		0	0	0	4
5	1009.6	146.4	0	<0.8	1006.0	51.6	0	° 4.6		0	0	0	5
6	1009.6	146.4	0	0.8	1005.5	41.1	0	° 5.2		0	0	0	6
7	1009.6	146.4	0	0.8	1003.8	12.2	0	°14.6		0	0	0	7
8	1009.5	143.4	0	0.8		0	0	° 6.2		0	0	0	8
9	1009.5	143.4	0	0.8		0	0	0		0	0	0	9
10	1009.4	140.4	0	0.8		0	0	0		0	0	0	10
11	1009.4	140.4	0	[0.5		0	0	0	1009.0	128.3	55.3	e 0.6	11
12	1009.3	137.4	0	0.6		0	0	0	1009.8	152.8	13.5	e 1.2	12
13	1009.3	137.4	0	0.6		0	0	0	1009.8	152.8	1.2	e 1.2	13
14	1009.2	134.3	0	<0.6		0	0	0	1009.7	149.4	0	[1.1	14
15	1009.2	134.3	0	0.6		0	0	0	1009.6	146.4	0	1.1	15
16	1009.2	134.3	0	0.5		0	0	0	1009.6	146.4	0	1.1	16
17	1009.2	134.3	0	0.5		0	0	0	1009.5	143.4	0	1.0	17
18	1009.1	131.3	0	0.5		0	0	0	1009.5	143.4	0	<1.0	18
19	1008.8	122.3	0	° 4.5		0	0	0	1009.4	140.4	0	1.0	19
20	1008.5	114.0	0	° 4.2		0	0	0	1009.3	137.4	0	1.0	20
21	1008.5	114.0	0	[0.5		0	0	0	1009.3	137.4	0	1.0	21
22	1008.4	111.2	0	0.5		0	0	0	1009.2	134.3	0	1.0	22
23	1008.4	111.2	0	0.5		0	0	0	1009.6	146.4	7.1	i 1.0	23
24	1008.3	108.2	0	<0.5		0	0	0	1009.7	149.4	2.9	i 1.1	24
25	1008.3	108.2	0	0.5		0	0	0	1009.7	149.4	1.1	i 1.1	25
26	1008.2	105.7	0	0.5		0	0	0	1010.4	175.0	14.1	i 1.2	26
27	1008.2	105.7	0	0.6		0	0	0	1010.5	178.7	3.1	i 1.2	27
28	1008.2	105.7	0	0.6		0	0	0	1010.5	178.7	1.3	i 1.3	28
29	1008.1	103.0	0	° 1.4		0	0	0	1010.4	175.0	0	[1.3	29
30	1008.0	100.3	0	[0.7		0	0	0	1010.4	175.0	0	<1.2	30
31	1008.0	100.3	0	[0.6					1010.3	171.3	0	[1.2	31
TOTAL			0	28.3			0	50.5			109.3	22.9	
Inf. Ac. Ft.			0				0				216.8		
Outf. Ac. Ft.			55.1				100.4				45.4		
Maximum Mean Daily Inflow			0				0				55.3		
Minimum Mean Daily Inflow			0				0				0		
Storage Change			-55.2				-100.3				+171.3		

Day	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	Day
1	1010.2	167.6	0	[0.9	1013.9	304.9	48.6	1.8	1042.7	2556.6	555.0	502.3	1
2	1010.2	167.5	0	0.9	1014.3	319.7	9.5	2.1	1038.6	2389.8	3720.3	2550.0	2
3	1010.1	163.9	0	0.9	1020.0	600.2	144.0	2.5	1061.8	3705.4	1127.1	1489.0	3
4	1010.1	163.9	0	0.9	1024.5	889.5	148.5	4.7	1045.7	2953.5	540.5	806.2	4
5	1010.0	160.2	0	0.9	1026.3	998.9	42.9	5.8	1039.9	1515.6	337.8	563.0	5
6	1010.0	160.2	0	0.9	1025.8	982.0	17.9	5.2	1035.5	1184.1	252.3	390.6	6
7	1009.9	156.5	0	<0.9	1025.8	982.0	8.3	5.3	1034.6	1121.3	174.2	183.9	7
8	1009.9	156.5	0	0.9	1025.9	989.7	10.1	5.3	1034.3	1100.7	157.1	146.7	8
9	1009.8	152.8	0	0.9	1026.9	1066.5	46.3	5.5	1035.3	1170.0	123.4	66.7	9
10	1009.8	152.8	0	0.9	1027.4	1105.0	25.5	7.1	1036.4	1177.1	107.3	80.8	10
11	1009.7	149.4	0	0.9	1032.4	1521.3	218.4	8.5	1036.6	1262.6	95.3	28.0	11
12	1009.7	149.4	0	0.9	1033.9	1654.8	79.0	11.7	1041.6	1661.1	284.1	52.4	12
13	1009.6	146.4	0	0.9	1034.3	1690.4	30.4	12.5	1043.5	1837.1	245.5	121.0	13
14	1009.6	146.4	0	0.9	1034.5	1708.2	21.8	12.8	1043.7	1856.2	167.9	121.0	14
15	1011.4	212.1	34.2	1.0	1034.5	1708.2	12.9	12.9	1043.4	1827.5	144.9	121.0	15
16	1011.8	227.0	8.8	1.3	1034.4	1699.3	8.3	12.8	1044.7	1953.6	144.0	40.3	16
17	1011.8	227.0	1.4	1.4	1034.3	1690.4	8.2	12.7	1046.5	2134.7	142.4	1.0	17
18	1011.9	230.7	3.2	1.4	1034.2	1681.5	8.1	12.6	1047.7	2258.6	135.5	15.2	18
19	1012.0	234.4	3.3	1.4	1034.1	1672.6	7.8	12.5	1047.8	2269.0	125.5	60.1	19
20	1012.1	238.1	3.4	1.5	1033.9	1654.8	15.7	12.4	1047.0	2185.8	111.7	94.5	20
21	1012.0	234.4	e 1.0	1.5	1033.7	1637.0	7.8	12.2	1045.7	2053.5	93.1	105.0	21
22	1011.9	230.7	e 0.5	1.4	1033.5	1619.2	7.8	12.0	1044.2	1904.5	82.1	110.0	22
23	1011.8	227.0	e 0.3	1.4	1033.3	1601.4	7.7	11.8	1042.6	1752.2	75.5	116.0	23
24	1011.7	223.2	0	1.4	1033.1	1583.6	7.7	11.6	1042.1	1705.9	73.3	68.2	24
25	1011.7	223.2	0	<1.4	1033.0	1574.7	3.7	11.5	1042.0	1696.6	55.4	44.5	25
26	1011.6	219.5	0	1.3	1032.9	1565.8	6.8	11.3	1041.9	1687.7	55.2	45.0	26
27	1011.5	215.8	0	1.3	1033.3	1501.4	29.3	11.4	1041.9	1687.7	62.0	36.6	27
28	1011.5	215.8	0	1.3	1042.2	2501.0	501.0	•47.4	1041.9	1687.7	54.4	29.0	28
29	1011.5	215.8	0	[1.3					1042.1	1705.9	58.5	23.8	29
30	1011.4	212.1	0	1.3					1042.1	1705.9	49.5	23.8	30
31	1011.4	212.1	0	[1.3					1042.1	1705.9	49.6	23.8	31
TOTAL			55.1	35.5			1434.0	300.0			9422.5	6058.4	
Inf. Ac. Ft.			111.3				2884.0				18689.2	21901.3	
Outf. Ac. Ft.			70.4				595.1				15983.6	16851.0	
Maximum Mean Daily Inflow			34.2				501.0				3720.3	3720.3	
Minimum Mean Daily Inflow			0				3.7				49.5	0	
Storage Change			+40.8				+2288.9				-795.1 + °°	+ 1549.400	

REMARKS: Outflows = computed percolation loss. ° indicates valve discharge + percolation loss. [= computed mean for period. e = estimated. i = interpolated

Year

Max. W. S. Elev.	1062.55	feet on 3-2-38	Storage 5455.4	Acre Feet	RECORDS COLLECTED BY	SECOND 6 MONTHS
Min. W. S. Elev.	Dry	feet on 11-8-12-10-37	Storage 0	Acre Feet	E. F. Godso — Dam Tender	Gage Hts. copied T.M. Checked C.C.G.
Max. Peak Inf.	10840	C.F.S. from 4:15 P.M. on 3-2-38	to 4:30 P.M. on 3-2-38		R. P. Dalton — Hydrographer	Storage applied T.M. & H.A.V Checked C.C.G.
Max. Peak Outf.	6443	C.F.S. from 5:30 P.V. on 3-2-38	to 6:00 P.M. on 3-2-38		Hydrographer	Inf. & Outf. computed H.A.V & J.A.H Checked J.A.H.
					Date 4-24-39	

Beginning March 1, 1938 Outflows show valve release only.
*Beginning March 2, Storages corrected for debris loss.

°° 2337.3 A.F. Percolation + 1163.4 A.F. Debris Loss.

F. C. Dist. Form 66 100 1/37

Storages based on L.A.C.F.C.D. Survey of January, 1935 corrected
by U.S.S.C.S. Survey of June, 1938.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

File No.

In ARROYO SECO for the Year Ending September 30, 1938

3-1-38 3-2-38
4014.6 2966.8

Drainage Area 30.62 Square Miles. Capacity of Reservoir Ac. Ft. at Spillway Elev. 1054.0 Ft.

Continuous Water Stage Recorder AU

Gage Heights Read at various times.

Day	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	Day
1	1042.0	1696.6	[48.8	23.8	1036.7	1269.8	18.3	16.4	1034.8	1135.1	[11.1	°0.5	1
2	1042.0	1696.6	48.0	23.8	1036.4	1248.2	18.3	10.6	1034.8	1135.1	11.1	0.5	2
3	1042.1	1700.9	<47.1	18.8	1036.2	1233.7	18.3	10.6	1034.8	1135.1	11.1	0.5	3
4	1042.2	1711.1	46.2	15.2	1036.1	1226.5	18.2	10.6	1034.8	1135.1	11.1	0.5	4
5	1042.3	1724.4	[45.4	15.2	1035.9	1212.5	18.2	10.6	1034.8	1135.1	11.0	0.5	5
6	1042.3	1724.4	[44.2	15.2	1035.7	1198.2	18.1	10.6	1034.8	1135.1	10.2	0.5	6
7	1042.4	1733.6	42.8	15.2	1035.5	1184.1	17.9	10.6	1034.8	1135.1	10.2	0.5	7
8	1042.4	1733.6	<41.5	15.2	1035.2	1163.0	<15.0	10.6	1034.7	1128.2	10.1	0.5	8
9	1042.4	1733.6	40.2	15.2	1035.0	1148.9	15.0	10.5	1034.7	1128.2	10.1	0.5	9
10	1042.3	1724.4	[38.9	15.2	1034.9	1142.0	15.0	4.6	1034.6	1121.3	10.1	0.5	10
11	1042.0	1696.6	[36.4	15.2	1034.9	1142.0	13.3	•1.0	1034.6	1121.3	[9.1	0.5	11
12	1042.0	1696.6	34.8	11.2	1034.9	1142.0	13.3	1.0	1034.5	1114.5	9.1	0.5	12
13	1042.1	1705.9	<32.7	5.7	1034.9	1142.0	13.2	1.0	1034.5	1114.5	<9.1	0.5	13
14	1042.1	1705.9	30.7	4.1	1034.9	1142.0	13.2	1.0	1034.4	1107.6	9.1	0.5	14
15	1042.2	1715.1	[28.8	3.4	1034.9	1142.0	13.2	1.0	1034.3	1100.7	[9.0	0.5	15
16	1041.9	1687.7	[25.2	14.9	1034.9	1142.0	13.2	1.0	1034.2	1093.8	[6.4	0.5	16
17	1041.5	1652.3	[24.5	19.2	1034.9	1142.0	13.2	1.0	1034.1	1086.9	[6.4	0.5	17
18	1041.1	1616.8	[24.0	19.8	1034.9	1142.0	13.2	1.0	1033.9	1073.2	[6.4	0.5	18
19	1040.9	1599.5	[23.5	5.7	1034.9	1142.0	13.2	1.0	1033.8	1066.3	[6.4	0.5	19
20	1040.8	1591.3	[23.0	5.7	1034.9	1142.0	13.2	1.0	1033.7	1059.4	[6.3	0.5	20
21	1040.4	1567.3	[22.4	11.2	1035.0	1148.9	13.2	1.0	1033.6	1052.6	[6.2	0.5	21
22	1040.1	1532.0	22.4	14.0	1035.0	1148.9	13.2	1.0	1033.5	1046.3	[5.9	0.5	22
23	1039.8	1507.5	<22.4	14.0	1035.0	1148.9	13.2	1.0	1033.3	1032.7	<5.6	0.5	23
24	1039.5	1483.4	22.4	14.0	1035.0	1148.9	13.2	1.0	1033.2	1026.3	[5.6	0.5	24
25	1039.3	1467.3	[22.3	14.0	1035.0	1148.9	13.2	1.0	1033.1	1019.2	[5.6	0.5	25
26	1038.9	1435.5	[21.4	18.4	1035.0	1148.9	12.5	1.0	1033.0	1012.4	[4.9	0.5	26
27	1038.3	1389.2	[21.4	22.1	1035.0	1148.9	12.5	1.0	1032.9	1005.8	[4.8	0.5	27
28	1037.7	1343.7	<21.3	22.1	1035.0	1148.9	12.5	1.0	1032.7	992.5	<4.8	0.5	28
29	1037.3	1313.9	[21.3	22.1	1035.0	1148.9	12.5	1.0	1032.6	986.4	[4.8	0.5	29
30	1037.0	1291.5	[21.3	22.1	1034.9	1142.0	12.5	1.0	1032.5	979.3	[4.8	°0.5	30
31					1034.9	1142.0	12.4	1.0					31
TOTAL			945.9	447.7			439.5	125.8			235.5	15.0	
Inf. Ac. Ft.			1676.2				871.7				467.1		
Outf. Ac. Ft.			888.0				251.5				29.8		
Maximum Mean Daily Inflow			48.8				18.3				11.1		
Minimum Mean Daily Inflow			21.3				12.4				4.8		
Storage Change			-414.4 +(1402.5)				-149.5 + (769.8)				-162.8 + (500.2)		

Day	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1032.4	972.6	[3.8	°0.3	1028.9	747.2	[1.5	°0.3	1029.9	569.6	1.1	°0.2	1
2	1032.2	959.3	3.8	0.3	1028.8	741.0	1.5	0.3	1025.8	564.1	1.1	0.2	2
3	1032.1	952.6	<3.7	0.3	1028.7	734.4	1.5	0.3	1025.7	558.5	1.1	0.2	3
4	1032.0	946.0	3.7	0.3	1028.6	728.8	1.5	0.3	1025.6	553.0	1.1	0.2	4
5	1031.9	939.5	3.7	0.3	1028.5	722.7	1.5	0.3	1025.5	547.5	1.1	0.2	5
6	1031.8	932.9	3.3	0.3	1028.4	716.5	1.5	0.3	1025.4	542.0	1.1	0.2	6
7	1031.7	926.4	3.2	0.3	1028.3	710.4	1.5	0.3	1025.3	536.5	1.1	0.2	7
8	1031.6	919.8	3.2	0.3	1028.2	704.3	1.5	0.3	1025.2	530.9	1.1	0.2	8
9	1031.4	906.8	3.2	0.3	1028.1	698.1	1.5	0.3	1025.1	525.4	1.1	0.2	9
10	1031.3	900.2	3.2	0.3	1028.0	692.0	1.5	0.3	1025.0	519.9	1.1	0.2	10
11	1031.2	893.7	<3.2	0.3	1027.9	686.1	1.5	0.3	1024.9	514.6	1.1	0.2	11
12	1031.1	887.1	3.2	0.3	1027.8	680.1	1.5	0.3	1024.9	514.6	1.1	0.2	12
13	1031.0	880.6	3.2	0.3	1027.7	674.2	1.5	0.3	1024.8	509.3	1.1	0.2	13
14	1030.9	874.2	3.2	0.3	1027.6	668.2	1.5	0.3	1024.7	504.1	1.1	0.2	14
15	1030.8	867.7	<3.2	0.3	1027.5	662.3	1.5	0.3	1024.6	498.8	1.1	0.2	15
16	1030.7	861.3	2.9	0.3	1027.4	656.3	<1.5	0.3	1024.5	493.5	1.1	0.2	16
17	1030.6	854.9	<2.9	0.3	1027.3	650.4	1.5	0.3	1024.4	488.2	1.1	0.2	17
18	1030.5	848.5	<2.9	0.3	1027.2	644.4	1.5	0.3	1024.3	482.9	1.1	0.2	18
19	1030.4	842.0	2.8	0.3	1027.1	638.5	1.5	0.3	1024.3	482.9	1.1	0.2	19
20	1030.3	835.6	<2.8	0.3	1027.0	632.5	1.4	0.3	1024.2	477.2	1.1	0.2	20
21	1030.2	829.2	1.9	0.3	1026.9	626.8	1.4	0.3	1024.1	472.4	1.1	0.2	21
22	1030.0	816.3	1.9	0.3	1026.8	621.0	1.4	0.3	1024.0	467.1	1.1	°0.2	22
23	1029.9	810.0	<1.8	0.3	1026.7	615.3	1.4	0.3	1023.6	446.9	1.1	6.4	23
24	1029.8	803.7	1.8	0.3	1026.6	609.5	1.4	0.3	1022.8	406.8	1.1	18.9	24
25	1029.7	797.4	1.8	0.3	1026.6	609.5	1.4	0.3	1022.0	368.2	1.0	18.9	25
26	1029.6	791.1	1.6	0.3	1026.5	603.8	1.4	0.3	1021.7	354.4	1.0	6.0	26
27	1029.5	784.8	1.6	0.3	1026.4	598.1	1.4	0.3	1021.7	354.4	1.0	°0.2	27
28	1029.3	772.2	1.6	0.3	1026.3	592.3	1.4	0.3	1021.6	349.8	1.0	0.2	28
29	1029.2	765.9	<1.6	0.3	1026.2	586.6	1.4	0.3	1021.5	345.2	1.0	°0.2	29
30	1029.1	759.6	1.5	0.3	1026.1	580.8	1.4	0.3	1021.2	331.3	1.0	5.7	30
31	1029.0	753.3	1.5	°0.3	1026.0	575.0	1.4	0.3					31
TOTAL			83.7	9.3			45.3	9.3			32.4	60.9	
Inf. Ac. Ft.			166.0				89.9				64.3	25436.5	
Outf. Ac. Ft.			18.4				18.4				120.8	18377.9	
Maximum Mean Daily Inflow			3.8				1.5				1.1	3720.3	
Minimum Mean Daily Inflow			1.5				1.4				1.0	0	
Storage Change			-225.9 + (373.5)				-178.3 + (249.7)				-243.7 + (187.2)		+174.8°°°

REMARKS: ° = estimated Gate leakage [= mean for period °°+ 1163.4 Ac.Ft. Debris loss

Year

Max. W. S. Elev.	1062.55	feet on 3-2-38	Storage 5455.4	Acre Feet	RECORDS COLLECTED BY	SECOND 6 MONTHS
Min. W. S. Elev.	Dry	feet on 11-8-12-10-37	Storage 0	Acre Feet	E. F. Godso — Dam Tender	Gage Hts. copied C.C.G. Checked C.C.G.
Max. Peak Inf.	10,840	C.F.S. from 4:15 P.M. on 3-2-38	to 4:30 P.M. on 3-2-38		R. P. Dalton — Hydrographer	Storage applied C.C.G. Checked C.C.G.
Max. Peak Outf.	6,443	C.F.S. from 5:30 P.M. on 3-2-38	to 6:00 P.M. on 3-2-38		Hydrographer	Inf. & Outf. computed H.A.V. Checked J.A.H.
					Date 4-24-39	

Gage Hts. & Storage as of midnight on day shown

Monthly percolation loss in Ac. Ft. shown in parenthesis.

°°+5920.2 A. F. Percolation + 1163.4 A. F. Debris loss.

F. C. Dist. Form 88 100 1/37

Storages Based on U.S.E.D. Map #300

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of EATON WASH Dam

On EATON WASH for the Year Ending September 30, 19 37

File No.

Drainage Area 9.48 Square Miles. Capacity of Reservoir 956.3 Ac. Ft. at Spillway Elev. 887.5 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read at various times

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S.** Outflow	Day
1																	*	-	-	-	874.1	461.5	15.0	5.5	1
2																	842.9	11.7	-	-	873.2	435.1	11.0	14.5	2
3																	842.5	10.7	3.2	0	872.3	409.6	9.0	16.0	3
4																	843.4	13.2	3.4	0	871.7	393.1	10.0	15.8	4
5																	845.5	20.6	3.6	0	871.0	374.2	9.5	15.6	5
6																	862.8	192.9	92.0	0	870.1	350.9	6.5	15.4	6
7																	869.5	335.9	102.0	0	869.1	325.9	4.2	15.1	7
8																	871.3	382.3	36.0	0	868.0	299.6	4.9	14.9	8
9																	871.9	398.5	22.0	0	867.1	279.2	7.5	14.6	9
10																	872.0	401.2	17.0	0	866.3	261.7	8.5	14.3	10
11																	872.0	401.2	15.0	0	865.9	253.1	6.0	5.5	11
12																	871.3	382.3	14.0	8.1	867.2	281.4	17.8	1.8	12
13																	871.4	385.0	18.0	13.5	870.3	356.1	44.0	1.2	13
14																	875.9	516.9	112.0	8.8	871.4	385.0	21.0	1.2	14
15		NO RECORD				NO RECORD				NO RECORD				NO RECORD			877.2	559.0	61.0	13.5	873.2	435.1	26.0	1.2	15
16																	878.3	596.1	41.0	0	874.8	482.7	36.0	1.2	16
17																	878.4	599.5	28.0	10.8	875.7	510.6	25.0	1.2	17
18																	877.0	552.3	23.0	34.2	876.0	520.0	21.0	5.5	18
19																	876.4	532.9	20.0	16.0	875.7	510.6	18.0	14.2	19
20																	876.7	542.6	18.0	0	875.5	504.4	18.0	14.2	20
21																	876.9	549.1	17.0	0	875.1	491.8	17.0	14.2	21
22																	875.6	507.5	15.0	24.2	875.9	516.9	22.0	7.8	22
23																	873.6	446.8	12.0	36.6	875.8	513.7	18.0	14.5	23
24																	872.5	415.3	13.0	26.8	875.7	510.6	17.0	14.4	24
25																	873.6	446.8	20.0	0	875.7	510.6	19.0	14.4	25
26																	873.9	455.6	13.0	0.4	875.5	504.4	18.0	14.4	26
27																	874.1	461.3	10.0	1.2	875.3	498.1	18.0	14.4	27
28																	874.2	464.5	12.0	1.2	875.1	491.8	18.0	14.3	28
29																	-	-	-	-	874.8	482.7	18.0	14.3	29
30																	-	-	-	-	874.5	473.6	17.0	14.2	30
31																	-	-	-	-	874.2	464.5	15.0	14.2	31
TOTAL																			741.2	195.3			515.1	340.0	
Inf. Ac. Ft.																			1476.2				1021.7	2491.9	
Outf. Ac. Ft.																			387.4				674.4	1061.8	
Maximum Mean Daily Inflow																			112.0				44.0	112.0	
Minimum Mean Daily Inflow																			3.2				4.2	0	
Storage Change																	(-618.3)		+464.5		(-347.3)		+ 0	+464.7***	

REMARKS * First recorded gage height on 2-2-37. Inflows as of U.S.G.S. Stat on ** Daily outflows are valve releases and do not include other losses. ***6 mo. perc. loss (965.6) Year

Max. W. S. Elev. 878.8 feet on 2-17-37 Storage 613.3 Acre Feet

Min. W. S. Elev. Dry feet on Various times Storage 0 Acre Feet

Max. Peak Inf. 112.+ C.F.S. from Mean daily on 2-14-37 to on

Max. Peak Outf. 40.+ C.F.S. from Various times on during to Feb. 1937 on

Gage Hts. as of midnight on day shown ( ) Indicates monthly loss due to percolation

RECORDS COLLECTED BY

N. M. Alderman — 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.

SECOND 6 MONTHS — Date 6-1-38

NOTE: - Prior to Feb. 1937, Eaton Dam was under jurisdiction of the U.S.E.D.

F. C. Dist. Form 88 100 1/37

Storages Based on U.S.E.D. Map #300

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of EATON WASH Dam

On EATON WASH for the Year Ending September 30, 19 37

File No.

Drainage Area 9.48 Square Miles. Capacity of Reservoir 956.3 Ac. Ft. at Spillway Elev. 887.5 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read at various times

Day	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	873.9	455.6	15.0	14.1	867.3	283.7	2.6	0.1	848.9	37.1	0.2	3.6													1
2	873.6	446.8	17.0	14.1	867.0	276.9	2.4	0.1	846.0	22.6	.1	3.0													2
3	873.3	438.1	15.0	13.9	866.7	270.4	2.3	0.1	843.8	14.5	0	I 1.5													3
4	872.7	420.9	12.0	13.8	866.3	261.7	1.3	0.1	843.8	14.5	0	C 0													4
5	872.1	404.0	12.0	13.7	866.1	257.4	2.2	0.1	844.0	15.1	1.0	C 1.0													5
6	872.2	406.8	11.0	3.4	865.8	251.1	2.6	0.1	844.0	15.1	1.0	C 1.0													6
7	872.0	401.2	11.0	5.6	865.5	244.9	2.6	0.1	844.0	15.1*	0	0													7
8	871.5	387.7	11.0	12.1	865.2	238.6	1.8	0.1																	8
9	870.9	371.6	8.5	11.9	864.9	232.5	1.5	0.1																	9
10	870.3	356.1	8.5	11.8	864.6	226.7	2.1	0.1																	10
11	869.8	343.3	10.0	11.7	864.4	222.7	2.2	0.1																	11
12	869.1	325.9	7.5	11.6	864.1	216.9	1.6	0.1																	12
13	868.9	321.0	7.5	5.7	863.8	211.2	1.1	0.1																	13
14	869.1	325.9	6.0	0.1	863.2	200.1	0	2.4																	14
15	869.2	328.4	6.5	0.1	862.1	180.7	0	8.0		DRY				DRY				DRY				DRY			15
16	869.4	333.4	6.5	0.1	861.3	167.6	0	4.4																	16
17	869.4	333.4	6.0	0.1	861.1	164.3	3.3	0.1																	17
18	869.3	330.9	5.5	0.1	861.0	162.7	4.2	0.1																	18
19	869.2	328.4	5.5	0.1	861.0	162.7	3.6	0.1																	19
20	869.2	328.4	4.9	0.1	860.8	159.7	1.4	0.1																	20
21	869.1	325.9	4.6	0.1	860.5	155.2	0	0.1																	21
22	869.0	323.4	4.4	0.1	859.9	146.2	1.0	5.8																	22
23	868.9	321.0	4.2	0.1	858.9	132.2	2.1	5.8																	23
24	868.8	318.6	3.9	0.1	857.7	116.6	1.4	5.6																	24
25	868.5	311.5	2.9	0.1	856.9	106.6	4.4	5.4																	25
26	868.3	306.7	2.9	0.1	855.9	94.9	2.8	5.2																	26
27	868.2	304.4	3.6	0.1	854.7	81.9	1.3	4.9																	27
28	868.0	299.6	3.6	0.1	853.7	72.0	2.6	4.7																	28
29	867.8	295.1	3.6	0.1	852.7	63.0	2.4	4.5																	29
30	867.6	290.5	3.4	0.1	851.7	55.0	2.6	4.2																	30
31	-	-	-	-	850.4	46.1	1.5	4.0	-	-	-	-													31
TOTAL			224.0	145.1			60.9	86.7			2.3	10.1													
Inf. Ac. Ft.			444.3				120.8				4.6												3061.6		
Outf. Ac. Ft.			287.8				132.3				20.0												1501.9		
Maximum Mean Daily Inflow			17.0				4.4				1.0												112.0		
Minimum Mean Daily Inflow			2.9				0				0												0		
Storage Change	(-330.5)		-174.0		(-232.9)		-244.4		(-15.6)		-31.0												*15.14 F. Debris**		

REMARKS E = Estimated * Debris storage C = computed I = interpolated ** 12 mo. percolation loss = (1544.6) Year

Max. W. S. Elev. 878.8 feet on 2-17-37 Storage 613.3 Acre Feet

Min. W. S. Elev. Dry feet on Various Times Storage Acre Feet

Max. Peak Inf. 112.+ C.F.S. from Mean Daily on 2-14-37 to on

Max. Peak Outf. 40.+ C.F.S. from Various times on during to Feb. 1937 on

Gage Hts. and storage as of midnight on day shown ( ) indicates monthly loss due to percolation

RECORDS COLLECTED BY

N. M. Alderman — Dam Tender — Gage Hts. copied — H.A.V. — Checked — M.W.R.

R. P. Dalton — Hydrographer — Storage applied — H.A.V. — Checked — M.V.R.

Hydrographer — Inf. & Outf. computed — H.A.V. — Checked — M.W.R.

SECOND 6 MONTHS — Date 6-1-38

F. C. Dist. Form 88 100 1/37

Storages based on Cal. Tech. Student Survey, corrected for debris loss of March 2, 1938

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of EATON WASH Dam

File No.

LX On EATON WASH for the Year Ending September 30, 19 38

3-1-38 - 3-2-38
944.8 - 598.3

Drainage Area 9.48 Square Miles. Capacity of Reservoir Ac. Ft. at Spillway Elev. 887.5 Ft.

Continuous Water Stage Recorder AU.

Gage Heights Read at various times

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	Day
1										0	0	0	844.2	0.3	0.2	0	850.8	16.4	9.0	0	876.5	464.1	169.5	188.4	1
2										0	0	0	844.0	0.2	0.8	0	850.4	14.4	1.9	0	884.5	611.9	882.7	695.5	2
3										0	0	0	843.8	0.2	0	0	857.2	72.9	36.0	0	884.8	597.9	314.2	294.7	3
4										0	0	0	843.5	0.1	0	0	852.1	139.7	46.0	0	883.8	563.4	142.6	147.0	4
5										0	0	0	843.4	0.1	0	0	863.5	162.6	20.0	0	881.0	471.6	92.6	132.0	5
6										0	0	0	843.3	0.1	0	0	863.5	164.2	4.6	0	876.5	342.3	73.2	132.1	6
7										0	0	0	843.1	0	0	0	863.2	167.5	0	0	873.9	279.2	51.7	87.8	7
8										0	0	0	842.9	0	0	0	862.7	149.3	0	0	873.5	270.4	56.1	57.0	8
9										0	0.1	0	842.7	0	0	0	863.3	159.2	8.8	0	871.4	226.6	43.8	60.4	9
10										0	1.1	0	842.5	0	0	0	863.5	162.6	6.3	0	869.3	188.0	45.0	59.3	10
11									850.1	12.9	8.9	0	842.5	0	0	0	867.2	233.4	45.0	0	871.7	232.5	43.4	15.9	11
12									849.5	10.4	2.4	0	842.4	0	0	0	869.2	279.6	40.0	0	876.6	319.5	84.5	35.1	12
13									848.4	6.5	0	0	842.2	0	0	0	869.7	292.1	20.0	0	878.0	382.3	69.4	31.8	13
14									847.2	4.7	0	0	842.2	0	0	0	869.8	294.5	11.0	0	879.9	437.5	48.8	14.7	14
15		D R Y				D R Y			847.2	3.2	0	0	860.0	12.4	13.0	0	869.7	292.1	7.5	0	879.1	413.5	43.0	46.5	15
16									846.8	2.5	0	0	849.9	12.0	1.8	0	869.6	289.6	6.0	0	877.6	371.5	40.8	55.8	16
17									846.2	1.2	0	0	849.3	9.5	0.9	0	869.4	284.6	12.0	0	877.6	371.5	41.0	34.8	17
18									845.7	1.1	0	0	849.1	8.8	0.4	0	869.2	279.6	5.0	0	876.4	339.7	35.2	45.3	18
19									845.2	0.6	0	0	848.7	7.4	0.8	0	869.1	277.1	5.0	0	875.1	307.2	34.4	45.0	19
20									844.9	0.5	0	0	848.4	5.5	0	0	868.8	269.9	3.0	0	874.8	300.0	31.6	29.7	20
21									844.5	0.4	0	0	848.1	5.5	0	0	868.5	262.8	2.0	0	875.1	307.2	30.3	21.0	21
22									844.3	0.3	0	0	847.8	4.7	0	0	868.1	253.4	2.0	0	875.2	309.6	28.0	21.0	22
23									844.3	0.3	0.4	0	847.5	4.8	0	0	867.7	244.5	2.0	0	875.2	309.6	26.8	21.0	23
24									844.0	0.2	0	0	847.3	3.5	0	0	867.3	235.5	2.0	0	875.3	312.1	25.0	18.0	24
25									843.4	0.1	0	0	847.1	3.1	0	0	866.9	226.9	2.0	0	875.5	317.0	24.8	16.5	25
26									844.4	0.3	2.4	0	846.8	2.5	0	0	866.5	218.7	14.0	0	875.6	319.5	23.6	16.5	26
27									845.3	0.9	0.7	0	846.6	2.2	0	0	867.0	229.0	5.0	0	875.7	321.9	23.5	16.5	27
28									845.2	0.6	0	0	846.4	1.9	0	0	877.2	523.5	170.5	13.2	874.6	277.4	23.3	31.0	28
29									844.7	0.5	0	0	846.2	1.6	0	0					871.6	230.5	21.6	48.8	29
30									844.7	0.4	0.3	0	845.0	1.3	0	0					873.2	263.7	22.0	0	30
31									844.4	0.3	0.5	0	845.8	1.2	0	0					874.5	293.1	20.3	0	31
TOTAL											16.9	0			17.9	0			477.6	13.2			8624.6	9491.1	
Inf. Ac. Ft.											33.9				35.5				947.3				5205.8	6222.1	
Outf. Ac. Ft.											0				0					26.2			4802.2	4828.4	
Maximum Mean Daily Inflow											8.9				13.0				170.5				882.7	882.7	
Minimum Mean Daily Inflow											0				0				0				20.3	0	
Storage Change											+0.3 + (33.2)				+ 0.9 + (34.6)				+ 522.3 +(398.8)				-230.4+(407.2)+ °°	+293.1+°°	

REMARKS 1 = interpolated ( ) = Monthly percolation loss. ° Beginning March 2, Storages corrected for 225.8 Ac.Ft. Debris °° + (873.8) Ac.Ft. 6 mo. percolation Year

Max. W. S. Elev.	887.9	feet on 3-2-38	Storage	963.1	Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS
Min. W. S. Elev.	847.0	feet on Various times	Storage	0	Acre Feet	C.C. Green	Dam Tender	Gage Hts. copied T.M. Checked J.A.H.
Max. Peak Inf.	2668	C.F.S. from 4:30 P.M.	on 3-2-38	to 4:45 P.M.	on 3-2-38	R. P. Dalton	Hydrographer	Storage applied T.M. Checked J.A.H.
Max. Peak Outf.	2696	C.F.S. from 4:60 P.M.	on 3-2-38	to 5:00 P.M.	on 3-2-38		Hydrographer	Inf. & Outf. computed H.A.V-A.S.K. Checked J.A.H-H.V.

Gage Heights and Storages as of midnight on day shown. Date 3-28-39

10-1 -38 to 2-27-38 (incl.) Inflows as per U. S. G. S. Gaging Station.
2-28-38 to 3-31-38 (incl.) Inflows computed from outflows, storage change and estimated percolation.
All outflows computed from weir measurements or from valve discharge curves.

F. C. Dist. Form 88 100 1/37

Storages based on Cal. Tech. Student Survey, corrected for debris loss of March 2, 1938.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of EATON WASH Dam

File No.

LX On EATON WASH for the Year Ending September 30, 19 38

3-1-38 - 3-2-38
944.8 - 598.3

Drainage Area 9.48 Square Miles. Capacity of Reservoir Ac. Ft. at Spillway Elev. 887.5 Ft.

Continuous Water Stage Recorder AU.

Gage Heights Read at various times

Day	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	875.5	317.0	16	0	865.8	133.3	5.5	0	865.9	134.7	0.4	0													1
2	876.1	331.9	13	0	865.2	139.0	6		865.8	133.3	1 0.3														2
3	876.1	331.9	9	5.0	866.2	139.0	7		865.6	130.5	1 0.3														3
4	876.0	329.3	11	4.1	866.4	142.0	6		865.4	127.8	1 0.3														4
5	876.3	337.1	12	2.2	866.9	149.3	7		865.3	126.4	1 0.2														5
6	879.5	342.3	11	2.2	867.2	153.9	7.5		865.2	126.0	1 0.2														6
7	875.9	326.8	11	11.0	867.5	158.6	8		865.0	122.2	1 0.2														7
8	874.2	286.1	10	23.5	867.8	163.3	8		864.8	119.6	1 0.2														8
9	872.3	244.7	8	23.0	868.0	166.3	8		864.6	117.0	0.1														9
10	870.1	202.1	6.5	23.0	868.3	171.3	7.5		864.4	114.3	1.3														10
11	869.5	191.5	9	9.4	868.4	172.9	7.5		863.4	101.7	0.4														11
12	869.5	191.5	14	4.3	868.6	176.2	7		862.0	85.1	0.3														12
13	867.8	163.2	12	19.3	868.8	179.5	7		860.5	69.1	0.2														13
14	865.3	140.5	10	16.3	868.9	181.2	7		858.8	52.5	0.1														14
15	865.0	122.2	8.5	10.4	869.0	182.8	7		857.1	37.5	0														15
16	864.9	120.9	8	5.3	869.0	182.8	5.5		855.6	25.4	0														16
17	864.6	117.0	7	4.3	868.8	179.5	1.8		854.1	14.7	0														17
18	864.4	114.3	6	4.0	868.6	176.2	1.6		852.1	5.2	0														18
19	864.2	111.7	6	3.5	868.4	172.9	1.9		847.0	0															19
20	864.3	113.0	7.5	2.4	868.2	169.5	2.2																		20
21	864.4	114.3	8	2.9	868.0	166.3	2.1																		21
22	864.3	113.0	7	4.0	867.8	163.2	1.3																		22
23	864.1	110.4	6	3.5	867.6	160.1	0.6																		23
24	864.1	110.4	5.5	2.3	867.5	158.6	0.6																		24
25	864.2	111.7	5	2.3	867.3	153.9	3.6																		25
26	864.3	113.0	4.5	0.9	867.1	152.4	1 2.9																		26
27	864.5	115.7	4.5	0	866.9	149.3	1 2.2																		27
28	865.0	122.2	4.5	0	866.7	146.4	1 1.5																		28
29	865.2	125.0	3.5	0	866.5	143.5	0.8																		29
30	865.4	127.8	4.5	0	866.3	140.5	0.7					0													30
31					866.1	137.6	0.6	0																	31
TOTAL			252.5	194.1			131.9	0			4.5	0			0	0			0	0			0	0	
Inf. Ac. Ft.			500.8				261.6				8.9				0				0				0	6993.4	
Outf. Ac. Ft.			385.0				0				0				0				0				0	5213.4	
Maximum Mean Daily Inflow											0				0				0				0	882.7	
Minimum Mean Daily Inflow											0				0				0				0	0	
Storage Change			-155.3 + (281.1)				+9.6 (+251.6)				-137.6 (+145.5)				0				0				0	0 +°°	

REMARKS 1 = interpolated ( )= Monthly percolation loss * +226.8 Ac.Ft. Debris loss °° 1553.2 Ac.Ft. yearly percolation. Year

Max. W. S. Elev.	887.9	feet on 3-2-38	Storage	963.1	Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS
Min. W. S. Elev.	847.0	feet on Various times	Storage	0	Acre Feet	C.C. Green	Dam Tender	Gage Hts. copied H.A.V. Checked J.A.H.
Max. Peak Inf.	2668	C.F.S. from 4:30 P.M.	on 3-2-38	to 4:45 P.M.	on 3-2-38	R. P. Dalton	Hydrographer	Storage applied H.A.V. Checked J.A.H.
Max. Peak Outf.	2696	C.F.S. from 4:60 P.M.	on 3-2-38	to 5:00 P.M.	on 3-2-38		Hydrographer	Inf. & Outf. computed J.A.H & ASK Checked J.A.H.

Gage Heights and Storages as of midnight on day shown. Date 3-28-39

4-1-38 to 9-31-38 Inflows as per U.S.G.S. gaging station.
4-1-38 to 9-31-38 Outflows computed from weir measurements or valve discharge curves.

F. C. Dist. Form 82 198 1/37

Storages based on U.S.S.C.S. Survey of March, 1936

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In LIVE OAK CANYON for the Year Ending September 30, 19 37

File No.

Continuous Water Stage Recorder Au - 11/24/36

Drainage Area 2.30 Square Miles. Capacity of Reservoir 242.1 Ac. Ft. at Spillway Elev. 1497.0 Ft. Gage Height Read at various times

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1454.8	4.4	0	0								
2	1454.8	4.4	0	0								
3	1454.8	4.4	0	0								
4	1454.8	4.4	0	0								
5	1454.8	4.4	0	0								
6	1449.6	1.9	0	1.7								
7	1445.0	0	0	0.5								
8	Dry											
9												
10												
11												
12												
13												
14												
15					Dry				Dry			
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29									Dry	0	0	0
30									1459.0	10.4	5.2	0
31	Dry								1466.9	30.5	10.2	0
TOTAL			0	2.2							15.4	0
Inf. Ac. Ft.			0								30.5	
Outf. Ac. Ft.				4.4								0
Maximum Mean Daily Inflow			0								10.2	
Minimum Mean Daily Inflow			0								0	
Storage Change			-4.4								+ 30.5	

Day	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1467.0	30.9	0.2	* 0.1	1468.3	35.4	0.3	* 0.1	1475.8	68.8	0.9	** 1.5
2	1467.0	30.9	0.1	0.1	1468.4	35.7	0.3	0.1	1475.6	67.7	0.9	1.5
3	1466.9	30.5	(0.1)	0.1	1468.4	35.7	0.2	0.1	1475.3	65.9	0.6	1.5
4	1466.8	30.2	0	0.1	1468.5	36.1	0.2	0.1	1475.0	64.2	0.7	1.5
5	1466.9	30.5	0.1	0.1	1468.6	36.4	0.2	* 0.1	1475.0	64.2	0.6	** 0.6
6	1467.5	32.6	1.2	0.1	1480.3	95.3	34.9	** 5.2	1475.1	64.8	0.6	* 0.3
7	1467.8	33.6	0.6	0.1	1478.1	82.2	15.6	22.2	1475.1	64.8	0.4	0.3
8	1467.9	34.0	0.3	0.1	1475.3	65.9	4.3	** 12.5	1475.2	65.2	0.4	0.3
9	1467.9	34.0	0.1	0.1	1476.0	70.0	2.2	* 0.2	1475.2	65.2	0.4	0.3
10	1467.9	34.0	0.1	0.1	1476.3	71.7	1.1	0.2	1475.3	65.9	0.4	0.3
11	1467.9	34.0	0.1	0.1	1476.6	73.5	1.1	0.2	1475.3	65.9	0.4	0.3
12	1468.0	34.3	0.2	0.1	1476.8	74.6	0.8	0.2	1475.8	68.8	1.8	* 0.3
13	1468.1	34.7	0.3	0.1	1477.7	79.9	2.8	0.2	1477.4	78.1	7.3	** 2.6
14	1468.1	34.7	0.1	0.1	1479.9	92.6	26.6	** 20.2	1476.7	74.1	3.0	** 5.0
15	1468.1	34.7	0.1	0.1	1478.2	82.8	9.5	14.4	1478.1	82.2	4.4	0.3
16	1468.1	34.7	0.1	0.1	1477.4	78.1	4.6	7.0	1479.1	88.0	7.4	** 4.5
17	1468.1	34.7	0.1	0.1	1477.5	78.7	(3.8)	3.5	1478.8	86.2	7.0	7.9
18	1468.1	34.7	0.1	0.1	1477.4	78.1	(3.1)	3.4	1477.2	77.0	5.9	10.6
19	1468.1	34.7	0.1	0.1	1477.3	77.5	(2.3)	2.6	1475.6	67.7	3.8	8.5
20	1468.1	34.7	0.1	0.1	1477.1	76.4	(1.6)	2.1	1475.7	68.3	3.1	** 2.8
21	1468.1	34.7	0.1	0.1	1476.9	75.2	0.9	** 1.5	1476.6	73.5	3.0	0.3
22	1468.1	34.7	0.1	0.1	1476.7	74.1	0.9	1.5	1476.9	75.2	4.8	** 4.0
23	1468.0	34.3	(0.05)	0.1	1476.4	72.3	0.6	1.5	1477.0	75.8	3.3	3.0
24	1468.0	34.3	(0.05)	0.1	1476.1	70.6	0.6	1.5	1477.7	79.9	3.3	1.2
25	1468.0	34.3	(0.05)	0.1	1476.4	72.3	2.4	1.5	1476.3	71.7	3.2	7.3
26	1467.9	34.0	(0.05)	0.1	1476.4	72.3	1.5	1.5	1476.3	71.7	2.8	** 2.8
27	1467.9	34.0	(0.05)	0.1	1476.2	71.2	1.0	1.5	1477.1	76.4	2.6	0.3
28	1467.9	34.0	0.05	0.1	1476.0	70.0	0.8	** 1.5	1477.7	79.9	2.1	0.3
29	1467.9	34.0	0.1	0.1					1478.3	83.3	2.0	0.3
30	1468.1	34.7	0.4	0.1					1478.7	85.7	1.5	0.3
31	1468.2	35.0	0.3	* 0.1					1479.1	88.0	1.5	0.3
TOTAL			5.4	3.1			124.2	106.6			80.1	71.0
Inf. Ac. Ft.			10.7				246.3				158.9	446.4
Outf. Ac. Ft.				6.1				211.4			140.8	362.7
Maximum Mean Daily Inflow			0.4				34.9				7.4	34.9
Minimum Mean Daily Inflow			0				0.2				0.4	0
Storage Change			+ 4.5				+ 35.0				+ 18.0	+ 83.6

REMARKS: * = estimated loss due to leakage & percolation. (= Interpolated ** = outflow includes estimated leakage loss. [= mean for period. Year

Max. W. S. Elev.	1480.5	feet on	4-5-37	Storage	96.7	Acre Feet		
Min. W. S. Elev.	Dry	feet on	various	Storage	0	Acre Feet		
Max. Peak Inf.	139.2	C.F.S. from	6:00 P.M. on 2-6-37	to	6:30 P.M. on	2-6-37		
Max. Peak Outf.	36.0	C.F.S. from	8:30 P.M. on 2-6-37	to	7:30 A.M. on	2-7-37		

Gage Hts. reduced to midnight on day shown.

RECORDS COLLECTED BY

Herrero	Dam Tender	Gage Hts. copied	HAV
H.A.Vander Goot	Hydrographer	Storage applied	HAV
R. P. Dalton	Hydrographer	Inf. & Outf. computed	HAV
		Date	9/22/37

SECOND 6 MONTHS

Gage Hts. copied	HAV	Checked	MWR
Storage applied	HAV	Checked	MWR
Inf. & Outf. computed	HAV	Checked	MWR

F. C. Dist. Form 82 198 1/37

Storages based on U.S.S.C.S. Survey of March, 1936

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In LIVE OAK CANYON for the Year Ending September 30, 19 37

File No.

Continuous Water Stage Recorder Au - 11-24-36

Drainage Area 2.30 Square Miles. Capacity of Reservoir 242.1 Ac. Ft. at Spillway Elev. 1497.0 Ft. Gage Heights read at various times

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1479.4	89.7	1.2	* 0.3	1479.8	92.0	(0.3)	0.3	1467.9	34.0	0	1.1
2	1479.8	92.0	1.4	0.3	1479.8	92.0	0.2	0.3	1467.4	32.3	0	0.8
3	1480.1	93.9	1.3	0.3	1479.8	92.0	0.2	0.3	1466.8	30.2	0	1.1
4	1480.4	96.0	1.3	* 0.3	1479.7	91.5	0.2	0.3	1466.7	28.4	0	0.9
5	1480.3	95.3	1.0	* 1.3	1479.7	91.5	0.2	0.3	1465.8	26.7	0	0.8
6	1480.1	93.9	1.0	1.7	1479.7	91.5	0.2	0.3	1465.2	24.6	0	1.1
7	1479.1	88.0	1.1	4.1	1479.6	90.9	0.2	0.3	1464.7	23.2	0	0.7
8	1478.5	84.5	1.0	** 2.8	1479.6	90.9	0.2	0.3	1464.1	21.7	0	0.8
9	1478.7	85.7	0.9	* 0.3	1479.5	90.3	0.2	0.3	1463.4	20.0	0	0.8
10	1478.8	86.2	0.6	0.3	1479.5	90.3	0.2	0.3	1462.8	18.6	0	0.7
11	1478.9	86.8	0.6	0.3	1479.2	88.6	* 0.1	0.9	1462.1	16.9	0	0.9
12	1479.0	87.4	0.6	0.3	1478.8	86.2	0.1	1.3	1461.4	15.2	0	0.8
13	1479.1	88.0	0.6	0.3	1478.5	84.5	0.1	1.0	1460.8	13.7	0	0.8
14	1479.2	88.6	0.6	0.3	1478.2	82.8	0.1	0.9	1460.2	12.3	0	0.7
15	1479.3	89.1	0.6	0.3	1477.8	80.4	0.1	1.3	1459.6	11.2	0	0.6
16	1479.4	89.7	0.6	0.3	1477.7	77.5	0.1	1.6	1459.2	10.7	0	0.2
17	1479.4	89.7	(0.5)	0.3	1476.7	74.1	0.1	1.8	1458.8	10.1	0	0.3
18	1479.5	90.3	(0.5)	0.3	1476.1	70.6	0.1	1.9	1458.5	9.6	0	0.3
19	1479.5	90.3	(0.4)	0.3	1475.5	67.1	0.1	1.9	1458.2	9.2	0	0.2
20	1479.6	90.9	(0.4)	0.3	1474.9	63.7	0.1	1.8	1458.0	8.9	0	0.1
21	1479.6	90.9	(0.4)	0.3	1474.2	60.5	0.1	1.7	1457.8	8.6	0	0.2
22	1479.7	91.5	0.4	0.3	1473.6	57.8	0.1	1.4	1457.6	8.3	0	0.1
23	1479.7	91.5	0.4	0.3	1473.1	55.5	0.1	1.3	1457.3	7.9	0	0.2
24	1479.7	91.5	0.4	0.3	1472.5	52.8	0.1	1.5	1457.0	7.5	0	0.2
25	1479.7	91.5	(0.4)	0.3	1472.0	50.5	0.1	1.2	1456.5	6.7	0	0.4
26	1479.8	92.0	0.3	0.3	1471.5	48.2	0.1	1.3	1456.0	6.0	0	0.4
27	1479.8	92.0	0.3	0.3	1470.9	45.4	0.1	1.5	1455.6	5.4	0	0.3
28	1479.8	92.0	0.3	0.3	1470.3	42.2	0.1	1.7	1455.3	5.0	0	0.2
29	1479.8	92.0	0.3	0.3	1469.6	39.9	0.1	1.3	1454.9	4.5	0	0.2
30	1479.8	92.0	0.3	0.3	1469.0	37.8	0.1	1.1	1454.6	4.3	0	0.1
31					1468.5	36.1	0.1	1.0				
TOTAL			19.7	17.7			4.2	32.4			0	16.0
Inf. Ac. Ft.			39.1				8.3				0	
Outf. Ac. Ft.				35.1				64.3				31.7
Maximum Mean Daily Inflow			1.4				0.3				0	
Minimum Mean Daily Inflow			0.3				0.1				0	
Storage Change			+ 4.0				- 55.9				- 31.8	

Day	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow
1	1454.3	4.1	0	(0.1)								
2	1453.9	3.8	0	(0.1)								
3	1453.7	3.7	0	(0.1)								
4	1453.4	3.4	0	0.1								
5	1453.2	3.3	0	(0.1)								
6	1452.9	3.1	0	0.1								
7	1452.1	2.5	0	0.3								
8	1451.3	2.0	0	0.3								
9	1450.6	1.5	0	0.2								
10	1449.8	1.1	0	0.2								
11	1449.4	1.0	0	(0.1)								
12	1449.1	0.9	0	(0.1)								
13	1449.0	0.9	0	0								
14	1448.8	0.8	0	0								
15	1448.6	0.8	0	0	Dry				Dry			
16	1448.3	0.7	0	0								
17	1448.2	0.7	0	0								
18	1448.1	0.7	0	0								
19	1448.2	0.7	0	0								
20	1448.3	0.7	0	0								
21	1448.4	0.7	0	0								
22	1448.5	0.8	0	0								
23	1448.5	0.8	0	0								
24	1448.5	0.8	0	0								
25	1448.5	0.8	0	0								
26	1448.5	0.8	0	0								
27	1448.5	0.8	0	0								
28	1448.5	0.8	0	0								
29	1448.5	0.8	0	0								
30	1445.5	0.1	0	0.3								
31	1444.5	0	0	0.1								
TOTAL			0	2.2			0					
Inf. Ac. Ft.			0									
Outf. Ac. Ft.				4.4								
Maximum Mean Daily Inflow			0						Dry			
Minimum Mean Daily Inflow			0									
Storage Change			- 4.3				0				0	

REMARKS: [= mean for period. ** = outflow includes estimated leakage loss. * Estimated loss due to leakage and percolation. Year

Max. W. S. Elev.	1480.5	feet on	4-5-37	Storage	96.7	Acre Feet		
Min. W. S. Elev.	Dry	feet on	Various	Storage	0	Acre Feet		
Max. Peak Inf.	139.2	C.F.S. from	6:00 P.M. on 2-6-37	to	6:30 P.M. on	2-6-37		
Max. Peak Outf.	36.0	C.F.S. from	8:30 P.M. on 2-6-37	to	7:30 A.M. on	2-7-37		

Gage Hts. reduced to midnight on day shown. * Inflow estimated beginning 5/11/37

RECORDS COLLECTED BY

Herrero	Dam Tender	Gage Hts. copied	H.A.V.
H. A. Vander Goot	Hydrographer	Storage applied	H.A.V.
R. P. Dalton	Hydrographer	Inf. & Outf. computed	H.A.V.
		Date	10-19-37

SECOND 6 MONTHS

Gage Hts. copied	H.A.V.	Checked	M.W.R.
Storage applied	H.A.V.	Checked	M.W.R.
Inf. & Outf. computed	H.A.V.	Checked	M.W.R.

F. C. Dist. Form 66 100 1/37

Storages prior to March 2, 1938 based on L.A.C.F.C.D. Survey of March, 1936
Storages on and after March 2, 1938 based on U.S. Soil Conservation Survey of May, 1938.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of LIVE OAK Dam
In LIVE OAK CANYON for the Year Ending September 30, 1938
File No.
Continuous Water Stage Recorder Au.
3-1-38 | 3-2-38
Drainage Area 2.30 Square Miles. Capacity of Reservoir 242.1 | 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft.
Gage Heights Read at various times

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1														0	0	0	1447.8	0.6	0.2	0	1477.0	75.8	30.3	27.4	1
2														0	0	0	1447.6	0.6	0	0	1493.5 *	190.0	147.4	82.0	2
3														0	0	0	1453.7	2.6	1.5	0	1489.2	149.6	37.9	58.0	3
4														0	0	0	1456.0	6.0	1.8	0	1487.2	132.8	14.1	22.5	4
5														0	0	0	1456.6	6.9	0.5	0	1486.0	115.8	10.7	19.9	5
6														0	0	0	1456.8	7.2	0.1	0	1481.7	92.9	9.1	20.7	6
7														0	0	0	1456.9	7.3	0.1	0	1477.9	70.3	7.4	16.8	7
8														0	0	0	1457.0	7.5	0.1	0	1473.9	50.9	5.7	16.5	8
9														0	0	0	1458.3	9.3	0.9	0	1472.1	43.3	4.4	8.3	9
10														0	0	0	1459.1	10.5	0.6	0	1472.1	43.3	3.2	3.2	10
11														0	0	0	1463.5	20.3	4.9	0	1472.1	43.3	3.2	3.2	11
12														0	0	0	1465.8	26.7	3.3	0	1474.7	54.5	13.0	7.3	12
13		D R Y				D R Y				D R Y				0	0	0	1466.5	29.1	1.2	0	1476.1	61.0	11.0	7.7	13
14														0		0	1466.8	30.2	0.5	0	1476.2	61.5	5.8	5.6	14
15													1448.9	0.8	0.4	0	1467.1	31.2	0.5	0	1475.9	60.0	4.9	5.6	15
16													1448.6	0.8	0	0	1467.2	31.6	0.2	0	1475.3	57.2	4.1	5.6	16
17													1448.3	0.7	0	0	1467.3	31.9	0.2	0	1474.3	52.7	3.4	5.6	17
18													1448.3	0.7	0	0	1467.5	31.9	0.1	0	1473.3	48.3	2.8	5.0	18
19													1448.3	0.7	0	0	1467.4	32.3	0.1	0	1473.1	47.4	2.3	2.8	19
20													1448.3	0.7	0	0	1467.5	32.6	0.1	0	1472.5	45.0	2.1	3.3	20
21													1448.3	0.7	0	0	1467.5	32.6	0	0	1471.9	42.5	1.9	3.2	21
22													1448.1	0.7	0	0	1467.5	32.6	0	0	1471.2	39.7	1.7	3.1	22
23													1447.7	0.6	0	0.1	1467.5	32.6	0	0	1470.6	37.4	1.5	2.5	23
24													1447.3	0.5	0	0	1467.5	32.6	0	0	1469.9	34.8	1.3	2.6	24
25													1446.9	0.4	0	0.1	1467.5	32.6	0	0	1470.1	35.6	1.2	0.8	25
26													1446.6	0.4	0	0	1467.5	32.6	0	0	1470.7	37.8	1.1	0	26
27													1446.3	0.3	0	0	1467.8	33.6	0.5	0	1471.3	40.1	1.1	0	27
28													1446.2	0.3	0	0	1476.0	70.0	19.5	1.1	1471.9	42.5	1.2	0	28
29													1446.1	0.2	0	0.1					1472.4	44.5	1.0	0	29
30													1446.0	0.2	0	0					1472.9	46.6	1.1	0	30
31													1446.0	0.2	0	0					1473.3	48.3	0.9	0	31
TOTAL															0.4	0.3			36.3	1.1			336.5	339.6	
Inf. Ac. Ft.			0				0				0				0.8				72.0				667.4	740.2	
Outf. Ac. Ft.			0				0				0				0.6					2.2			673.6	676.4	
Maximum			0				0				0				0.4				4.9				147.4	147.4	
Mean Daily Inflow Minimum			0				0				0								0				0.9	0	
Storage Change			0												+0.2				+69.8				-21.7 *	+48.3 *	

REMARKS * Beginning 3-2-38 Storages shown are corrected for debris loss (= mean for period 1 = interpolated * = 15.5 A.F. Debris Year

Max. W. S. Elev. 1494.7 feet on 3-2-38 Storage 217.3 Acre Feet
Min. W. S. Elev. Dry feet on Various Times Storage 0 Acre Feet
Max. Peak Inf. 339.0 C.F.S. from 2:30 P.M. on 3-2-38 to 3:00 P.M. on 3-2-38
Max. Peak Outf. 200.0 C.F.S. from 5:00 P.M. on 3-2-38 to 7:00 P.M. on 3-2-38

RECORDS COLLECTED BY
F. N. Vance & L. M. Keiser — Dam Tender
R. P. Dalton — Hydrographer
R. A. Van der Goot — Hydrographer

SECOND 6 MONTHS
Gage Hts. copied T.M. & H.A.V. Checked C.C.G.
Storage applied T.M. & H.A.V. Checked C.C.G.
Inf. & Outf. computed H.A.V. Checked C.C.G.
Date 11-1-38

Gage heights and storages as of midnight on day shown.
Storage corrected for debris following 3-2-38.

F. C. Dist. Form 66 100 1/37

Storages based on U. S. Soil Conservation Survey of May 1938.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of LIVE OAK Dam
In LIVE OAK CANYON for the Year Ending September 30, 1938
File No.
Continuous Water Stage Recorder Au.
3-1-38 | 3-2-38
Drainage Area 2.30 Square Miles. Capacity of Reservoir 242.1 | 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft.
Gage Heights Read at various times

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1473.7	50.0	(0.8	0	1479.7	80.5	(0.4	0	1456.2	4.1	↓ 0.1	1.2			0.10	M 0.10									1
2	1474.0	51.3	(0.7	0	1479.9	81.7	(0.4	0	1453.7	2.2	↑ 0.1	1.0			0.10	↓ 0.10									2
3	1474.3	52.7	(0.7	0	1480.0	82.3	(0.4	0	1449.2	0.4	0.1	1.0			0.10	↓ 0.10									3
4	1474.6	54.0	(0.7	0	1479.9	81.7	↓ 0.4	0.7	1447.2	0.1	0.1	0.3			0.10	0.10									4
5	1474.9	55.4	(0.7	0	1479.4	78.8	↑ 0.4	1.9	1446.7		0.1	0.1			0.10	0.10									5
6	1475.1	56.3	(0.5	0	1478.8	75.3	0.4	2.1	1446.6		0.1	0.1			0.09	0.09									6
7	1475.4	57.7	(0.5	0	1478.2	71.9	0.4	2.1	1446.6		0.1	0.1			0.09	0.09									7
8	1475.6	58.6	(0.5	0	1477.6	68.7	0.4	2.0	1446.6		↑ 0.1	0.1			0.09	0.09									8
9	1475.8	59.6	(0.4	0	1477.0	65.5	0.4	2.1	1446.8		↓ 0.1	0.1			0.09	0.09									9
10	1475.9	60.0	(0.4	0	1476.4	62.5	0.4	1.9	1447.2	STORAGE	○ 0.1	M 0.1			0.09	0.09									10
11	1476.0	60.5	(0.4	0	1475.7	59.1	0.3	2.0	1446.7	NEGLIGIBLE	↓ 0.1	0.1			0.08	0.08									11
12	1476.2	61.5	(0.4	0	1475.1	56.3	0.3	1.7	1446.7		↓ 0.1	0.1		M	0.08	0.08		M				M			12
13	1476.4	62.5	0.5	0	1474.4	53.1	0.3	1.9	1446.6		0.1	0.1		R	0.08	0.08		R				R			13
14	1476.6	63.5	0.5	0	1473.8	50.4	0.3	1.7	1446.6		0.1	0.1		D	0.08	0.08		D				D			14
15	1476.8	64.5	0.5	0	1473.1	47.4	0.3	1.8	1446.5		0.1	0.1			0.08	0.08									15
16	1477.0	65.5	(0.4	0	1472.5	45.0	0.3	1.5	1446.5		↑ 0.1	0.1			0.07	0.07									16
17	1477.1	66.0	(0.4	0	1471.8	42.1	0.3	1.8	1446.4		○ 0.1	M 0.1			0.07	0.07									17
18	1477.3	67.1	(0.4	0	1471.1	39.3	0.3	1.7		Dry	↓ 0.1	0.1			0.07	0.07									18
19	1477.4	67.6	(0.4	0	1470.4	36.7	0.3	1.6			0.1	0.1			0.07	0.07									19
20	1477.5	68.2	(0.4	0	1469.7	34.1	0.3	1.6			0.1	0.1			0.07	0.07									20
21	1477.7	69.2	(0.4	0	1468.9	31.3	0.2	1.6			0.1	0.1			0.06	0.06									21
22	1477.8	69.7	(0.4	0	1468.1	28.6	0.2	1.6			↓ 0.1	0.1			0.06	0.06									22
23	1478.0	70.8	(0.3	0	1467.3	26.1	0.2	1.4			0.1	0.1			0.06	0.06									23
24	1478.2	71.9	0.6	0	1466.4	23.4	0.2	1.6			○ 0.1	M 0.1			0.06	0.06									24
25	1478.6	74.2	1.2	0	1465.5	20.9	0.2	1.4			↓ 0.1	0.1			0.06	0.06									25
26	1478.9	75.8	0.8	0	1464.5	18.2	0.2	1.6			0.1	0.1			0.05	↑ 0.05									26
27	1479.0	76.4	(0.6	0	1463.5	15.8	0.2	1.4			0.1	0.1			0.05	↓ 0.05									27
28	1479.2	77.6	(0.5	0	1462.4	13.3	0.2	1.5			0.1	0.1			0.05	○ 0.05									28
29	1479.4	78.8	(0.5	0	1461.2	11.0	0.2	1.3			↑ 0.1	0.1			0.04	↓ 0.04									29
30	1479.6	79.9	(0.4	0	1459.8	8.6	↑ 0.2	1.4			↓ 0.1	0.1			0.04	↓ 0.04									30
31	-	-	-	-	1458.1	6.2	↓ 0.2	1.5	-	-	-	-			0.04	○ 0.04									31
TOTAL			15.9	0			9.2	46.4			3.0	6.1			2.27	2.27			0	0			0	0	
Inf. Ac. Ft.			31.5				18.2				6.0				4.5				0				0	800.4	
Outf. Ac. Ft.				0				92.0				12.1				4.5				0			0	785.0	
Maximum			1.2				0.4				0.1				0.10				0				0	147.4	
Mean Daily Inflow Minimum			0.3				0.2				0.1				0.04				0				0	0	
Storage Change			+31.6				-73.7				-6.2				0				0				0	0+ *	

REMARKS (= Mean for period 1 = interpolated e = estimated M = measurement * = + 15.5 A.F. Debris Year

Max. W. S. Elev. 1494.7 feet on 3-2-38 Storage 217.3 Acre Feet
Min. W. S. Elev. Dry feet on Various times Storage 0 Acre Feet
Max. Peak Inf. 339.0 C.F.S. from 2:30 P.M. on 3-2-38 to 3:00 P.M. on 3-2-38
Max. Peak Outf. 200.0 C.F.S. from 5:00 P.M. on 3-2-38 to 7:00 P.M. on 3-2-38

RECORDS COLLECTED BY
F.V.Vance & L.M.Keiser — Dam Tender
R. P. Dalton — Hydrographer
H. A. Van der Goot — Hydrographer

SECOND 6 MONTHS
Gage Hts. copied H.A.V. Checked C.C.G.
Storage applied H.A.V. Checked C.C.G.
Inf. & Outf. computed H.A.V. Checked C.C.G.
Date 11-1-38

Gage heights and storages as of midnight on day shown.
* Storage corrected for debris loss following 3-2-38

F. C. Dist. Form 60 100 1/37

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 Pacoima Dam Dam

In Pacoima Canyon for the Year Ending September 30, 1937

File No.

Continuous Water Stage Recorder Av

Drainage Area 27.77 Square Miles. Capacity of Reservoir 5592.0 Ac. Ft. at Spillway Elev. 1950.0 Ft.

Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1722.0	2.0	1 0.2	1.1	1724.1	4.1	1 0.2	0.5	1723.7	3.7	0	0	1815.3	694.7	52.0	0	1865.0	1737.5	37.6	33.4	1913.7	3568.7	48.9	107.3	1
2	1722.3	2.3	0.2	0	1724.0	4.0	0.2	0.3	1723.7	3.7	0	0	1819.3	757.1	31.5	0	1865.3	1745.8	34.8	30.6	1911.2	3448.0	45.2	106.1	2
3	1722.8	2.8	0.2	0	1724.0	4.0	0.3	0.3	1723.7	3.7	0	0	1822.3	808.5	25.9	0	1865.9	1762.4	31.8	23.5	1908.7	3332.7	46.9	105.0	3
4	1723.3	3.3	0.2	0	1724.0	4.0	0.3	0.3	1723.7	3.7	0	0	1824.4	845.4	18.6	0	1867.8	1815.1	26.6	0	1906.1	3218.0	45.9	103.7	4
5	1723.7	3.7	0.2	0	1724.0	4.0	0.3	0.3	1723.7	3.7	0	0	1826.7	885.9	20.4	0	1869.6	1864.9	25.1	0	1903.2	3090.1	37.8	102.3	5
6	1724.0	4.0	0.2	0	1723.9	3.9	0.3	0.3	1723.7	3.7	0	0	1830.0	944.0	29.3	0	1881.1	2232.3	185.2	0	1900.2	2957.8	34.2	100.9	6
7	1724.2	4.2	0.2	0	1723.8	3.8	0.2	0.3	1723.7	3.7	0	0	1832.3	989.1	22.8	0	1895.2	2757.5	303.8	39.0	1898.7	2897.1	35.9	66.5	7
8	1724.2	4.2	0.2	0	1723.7	3.7	0.3	0.3	1723.7	3.7	0	0	1834.3	1028.3	19.7	0	1900.3	2962.2	175.2	72.0	1900.4	2966.6	35.0	0	8
9	1724.2	4.2	0.2	0	1723.7	3.7	0.3	0.3	1723.7	3.7	0	0	1836.1	1063.6	17.8	0	1903.5	3103.4	128.5	57.3	1901.3	3006.3	31.8	11.8	9
10	1724.7	4.7	0.2	0	1723.7	3.7	0.2	0.2	1723.7	3.7	0	0	1837.7	1094.9	15.8	0	1906.8	3248.9	91.0	17.6	1902.0	3037.2	33.7	18.1	10
11	1725.7	5.7	0.2	0	1723.7	3.7	0.2	0.2	1723.7	3.7	0	0	1839.1	1122.4	13.9	0	1909.5	3368.0	74.7	14.7	1903.1	3085.7	35.0	10.5	11
12	1726.6	6.6	0.2	0	1723.7	3.7	0.2	0.2	1723.7	3.7	0	0	1841.1	1163.8	20.8	0	1911.8	3476.9	67.0	12.1	1905.2	3178.3	50.1	3.5	12
13	1727.2	7.2	0.2	0	1723.7	3.7	0.2	0.2	1723.7	3.7	0	0	1842.7	1198.3	17.4	0	1915.6	3660.5	92.6	0	1910.0	3390.0	113.5	6.7	13
14	1727.7	7.7	0.2	0	1723.7	3.7	0.1	0.1	1724.3	4.3	0.3	0	1844.2	1230.7	16.4	0	1928.1	4298.3	355.9	34.4	1912.8	3525.2	88.1	20.0	14
15	1728.1	8.1	0.2	0	1723.7	3.7	0	0	1725.2	5.2	0.5	0	1845.6	1261.0	15.2	0	1934.7	4666.4	273.1	87.5	1915.7	3665.3	86.1	15.4	15
16	1728.3	8.3	0.1	0	1723.7	3.7	0	0	1725.8	5.8	0.3	0	1846.9	1289.0	14.2	0	1938.4	4877.6	227.8	121.3	1918.8	3815.0	112.5	37.1	16
17	1728.5	8.5	0.1	0	1723.7	3.7	0	0	1726.2	6.2	0.2	0	1848.0	1312.8	12.0	0	1938.5	4883.4	184.0	181.1	1920.4	3894.0	95.8	55.9	17
18	1728.8	8.8	0.1	0	1723.7	3.7	0	0	1726.3	6.3	0.1	0	1849.2	1338.7	13.0	0	1936.3	4757.7	156.9	220.3	1921.1	3930.8	96.5	78.0	18
19	1729.0	9.0	0.1	0	1723.7	3.7	0	0	1726.3	6.3	0	0	1850.3	1363.3	12.4	0	1937.6	4832.0	109.9	72.4	1920.3	3888.8	87.8	109.0	19
20	1729.1	9.1	0.1	0	1723.7	3.7	0	0	1726.3	6.3	0	0	1851.3	1387.6	12.3	0	1934.6	4660.7	88.3	174.5	1919.3	3839.2	84.0	109.0	20
21	1729.2	9.2	0.1	0	1723.7	3.7	0	0	1726.4	6.4	0	0	1852.2	1409.5	11.0	0	1931.3	4472.2	77.5	172.5	1918.4	3795.7	83.3	106.2	21
22	1729.3	9.3	0.1	0	1723.7	3.7	0	0	1726.4	6.4	0	0	1853.1	1431.3	11.0	0	1928.5	4319.3	74.3	151.4	1921.6	3957.0	98.5	17.2	22
23	1729.5	9.5	0.1	0	1723.7	3.7	0	0	1726.4	6.4	0	0	1853.9	1450.8	9.8	0	1924.4	4104.0	73.9	182.4	1922.4	3999.0	97.5	76.3	23
24	1729.6	9.6	0.1	0	1723.7	3.7	0	0	1726.4	6.4	0	0	1854.7	1470.2	9.8	0	1922.1	3983.3	72.7	133.6	1923.5	4056.8	107.8	78.7	24
25	1729.7	9.7	0.1	0	1723.7	3.7	0	0	1727.0	7.0	0.3	0	1855.5	1489.7	9.8	0	1922.2	3988.5	76.8	74.0	1924.8	4125.0	99.8	65.4	25
26	1729.8	9.8	0.1	0	1723.7	3.7	0	0	1728.2	8.2	0.6	0	1856.3	1509.1	9.8	0	1920.3	3888.8	59.6	110.0	1924.5	4109.3	90.5	98.4	26
27	1729.9	9.9	0.1	0	1723.7	3.7	0	0	1748.4	58.7	25.4	0	1857.1	1528.5	9.8	0	1918.3	3790.9	60.0	109.4	1924.2	4093.5	90.5	98.4	27
28	1730.0	10.0	0.1	0	1723.7	3.7	0	0	1765.5	146.2	44.1	0	1857.9	1548.0	9.8	0	1916.1	3684.6	54.8	108.3	1923.8	4072.5	87.6	98.2	28
29	1730.1	10.2	0.1	0	1723.7	3.7	0	0	1775.5	203.7	39.0	0	1859.4	1584.4	18.4	0					1923.2	4041.0	82.1	98.0	29
30	1727.1	7.1	1 0.1	1.7	1723.7	3.7	0	0	1782.9	286.0	41.5	0	1862.3	1662.7	39.5	0					1922.4	3999.0	76.6	97.8	30
31	1724.7	4.7	1 0.1	1.3					1808.5	591.5	154.0	0	1864.7	1729.2	A6.0	12.5					1921.8	3967.5	73.1	89.0	31
TOTAL			4.6	4.1			3.3	3.8			296.3	0			586.1	12.5			3219.2	2233.3			2232.0	2089.4	
Inf. Ac. Ft.			9.1				6.5				587.7				1162.5				6385.3				4427.2	12578.3	
Outf. Ac. Ft.				8.1				7.5				0				24.8				4429.8			4144.3	8614.5	
Maximum Mean Daily Inflow			0.2				0.3				154.0				52.0				355.9				113.5	355.9	
Minimum Mean Daily Inflow			0.1				0				0				9.8				25.1				31.8	0	
Storage Change			+ 1.0				-1.0				+687.8				+1137.7				+1955.4				+282.9		3963.8

REMARKS { mean for period 1 interpolated

Year

Max. W. S. Elev.	1942.4	feet on	6-18-37	Storage	5118.5	Acre Feet	
Min. W. S. Elev.	1722.0	feet on	10-1-36	Storage	2.0	Acre Feet	
Max. Peak Inf.	508.2	C.F.S. from	7.00 A.M.	on	2-14-37	to 8.00 A.M.	on 2-14-37
Max. Peak Outf.	250.0	C.F.S. from	10.00 A.M.	on	2-18-37	to 12 Midnight	on 2-18-37

Gage Hts and storage as of midnight on day shown

RECORDS COLLECTED BY		SECOND 6 MONTHS			
R. E. Waddicor	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.
J. W. Luce	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked	M.W.R.
		Date	12-3-37		

F. C. Dist. Form 60 100 1/37

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 Pacoima Dam

In Pacoima Canyon for the Year Ending September 30, 19 37

File No.

Continuous Water Stage Recorder Au

Drainage Area 27.77 Square Miles. Capacity of Reservoir 5592.0 Ac. Ft. at Spillway Elev. 1950.0 Ft.

Gage Heights Read Daily

Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1920.8	3915.0	70.3	96.8	1931.5	4483.7	119.1	10.4	1941.3	5050.0	1 6.0	6.0	1938.5	4883.4	0.5	0.5	1919.4	3844.0	1 0.4	33.6	1895.7	2777.4	1 0.3	30.5	1
2	1919.7	3858.5	68.0	96.5	1931.9	4506.5	118.2	6.7	1941.5	5062.5	5.3	0	1938.2	4866.2	10.5	9.2	1918.8	3815.0	1 0.4	15.0	1894.2	2717.6	1 0.3	30.5	2
3	1918.4	3795.7	64.3	95.9	1932.5	4540.8	17.3	0	1941.7	5074.9	5.2	0	1937.2	4809.1	10.5	29.3	1918.8	3816.0	0.4	0.4	1892.6	2653.7	1 0.3	32.5	3
4	1917.0	3728.1	61.1	95.2	1933.0	4569.3	14.3	0	1941.8	5081.1	5.2	0	1936.2	4752.0	10.5	29.2	1918.8	3816.0	0.4	0.4	1891.1	2593.9	1 0.3	30.4	4
5	1915.3	3646.0	53.2	94.6	1933.5	4597.9	14.4	0	1941.8	5081.1	5.2	5.2	1935.1	4689.2	10.5	32.2	1918.7	3816.0	1 0.4	2.8	1889.5	2532.8	1 0.3	31.4	5
6	1913.5	3559.1	50.2	94.0	1934.1	4632.1	17.3	0	1941.7	5074.9	5.2	8.3	1934.7	4666.4	10.5	12.0	1918.2	3786.1	1 0.4	12.6	1887.9	2475.0	1 0.3	29.2	6
7	1911.6	3467.3	46.9	93.2	1934.6	4660.7	14.4	0	1941.7	5074.9	5.2	5.2	1934.7	4666.4	0.5	0.5	1916.8	3718.4	1 0.4	34.5	1887.3	2453.6	1 0.3	11.1	7
8	1909.7	3376.8	46.8	92.4	1934.9	4677.8	114.4	5.8	1941.9	5087.4	5.3	0	1934.7	4666.4	0.5	0.5	1915.4	3650.8	1 0.4	34.5	1887.3	2453.6	0.3	0.3	8
9	1910.1	3394.8	43.9	34.8	1935.1	4689.2	114.4	8.6	1942.1	5099.8	5.2	0	1934.3	4643.5	10.5	12.0	1914.9	3626.7	1 0.4	12.5	1887.3	2453.6	0.1	0.1	9
10	1911.4	3457.6	44.5	12.9	1935.6	4717.8	14.4	0	1942.2	5106.1	5.2	0	1933.2	4580.7	10.5	32.2	1914.9	3626.7	0.3	0.3	1886.7	2432.2	1 0	10.8	10
11	1912.6	3515.6	42.3	13.0	1936.0	4740.6	11.5	0	1942.3	5112.3	1 4.8	1.7	1932.0	4512.2	10.5	35.0	1914.9	3626.7	0.3	0.3	1885.2	2378.6	1 0	27.0	11
12	1914.1	3588.0	41.4	4.9	1936.4	4763.4	11.5	0	1942.2	5106.1	1 4.4	7.5	1931.6	4489.4	10.5	12.0	1914.9	3626.7	0.3	0.3	1883.5	2318.0	1 0	30.5	12
13	1915.7	3665.3	38.9	0	1936.8	4786.3	11.5	0	1942.1	5099.8	1 4.0	7.2	1931.6	4489.4	0.4	0.4	1914.4	3602.5	1 0.3	12.5	1881.8	2257.3	1 0	30.6	13
14	1917.2	3737.8	36.6	0	1937.1	4803.4	8.7	0	1942.0	5093.6	1 3.6	6.7	1931.6	4489.4	0.4	0.4	1913.2	3544.6	1 0.3	29.5	1880.2	2200.1	1 0	28.8	14
15	1918.6	3805.4	34.1	0	1937.5	4826.3	11.5	0	1942.1	5099.8	3.2	0	1931.5	4483.7	10.5	3.4	1911.8	3476.9	1 0.3	34.5	1878.5	2145.5	1 0	27.6	15
16	1919.9	3868.2	31.6	0	1937.8	4843.4	8.6	0	1942.2	5106.1	3.1	0	1931.2	4466.5	10.5	9.2	1911.4	3457.6	1 0.3	10.0	1876.7	2088.4	1 0	28.8	16
17	1920.7	3909.8	1 30.7	9.7	1938.1	4860.5	8.6	0	1942.3	5112.3	3.1	0	1930.0	4398.0	10.5	35.0	1911.4	3457.6	0.3	0.3	1875.0	2034.5	1 0	27.1	17
18	1921.5	3951.8	1 29.9	8.7	1938.4	4877.6	8.7	0	1942.3	5112.3	3.0	2.9	1928.9	4340.3	10.5	29.6	1911.3	3452.8	1 0.3	2.7	1873.1	1974.3	1 0	30.4	18
19	1922.6	4009.5	29.1	0	1938.7	4894.8	8.6	0	1941.8	5081.1	1 2.7	18.4	1928.5	4319.3	10.5	11.1	1911.3	3452.8	0.3	0.3	1871.2	1914.0	1 0	30.4	19
20	1923.7	4067.3	29.1	0	1939.0	4911.9	8.7	0	1941.3	5050.0	1 2.5	18.2	1928.5	4319.3	0.5	0.5	1910.6	3419.0	1 0.3	17.3	1869.4	1859.4	1 0	27.5	20
21	1924.7	4119.8	26.5	0	1939.2	4923.3	5.7	0	1941.1	5037.5	1 2.3	8.6	1928.5	4319.3	0.5	0.5	1909.2	3354.7	1 0.3	32.8	1867.5	1806.8	1 0	26.5	21
22	1925.6	4167.0	23.8	0	1939.5	4940.5	8.7	0	1941.2	5043.8	2.1	0	1928.4	4314.0	10.5	3.2	1907.9	3297.4	1 0.3	29.2	1865.6	1754.1	1 0	26.6	22
23	1926.5	4214.3	23.8	0	1939.8	4957.6	8.6	0	1941.3	5050.0	2.1	0	1928.1	4298.3	10.5	8.4	1907.0	3257.7	1 0.3	20.3	1863.8	1704.3	1 0	25.1	23
24	1927.0	4240.5	1 22.9	9.7	1940.1	4975.2	8.9	0	1941.3	5050.0	2.1	0	1926.9	4235.3	10.5	32.3	1905.5	3191.6	1 0.3	33.6	1861.8	1648.9	1 0	27.9	24
25	1927.5	4266.8	1 22.0	8.7	1940.4	4993.9	9.4	0	1941.0	5031.3	1.7	11.1	1925.7	4172.3	10.5	32.2	1904.0	3125.4	1 0.3	33.7	1860.0	1599.0	1 0	26.2	25
26	1928.3	4308.8	21.2	0	1940.8	5018.8	12.5	0	1940.0	4969.0	1 1.4	32.8	1925.3	4151.3	10.5	11.1	1902.5	3059.3	1 0.3	33.6	1858.0	1550.4	1 0	24.5	26
27	1929.1	4350.8	21.1	0	1941.1	5037.5	9.5	0	1938.9	4906.2	1 1.1	32.8	1925.3	4151.3	0.4	0.4	1901.0	2993.1	1 0.3	33.7	1857.2	1531.0	1 0	9.8	27
28	1929.8	4387.5	18.5	0	1941.3	5050.0	1 8.8	2.5	1938.5	4883.4	1 0.8	12.3	1924.5	4109.3	10.4	21.6	1899.5	2929.1	1 0.3	32.5	1857.2	1531.0	0	0	28
29	1930.5	4426.6	19.8	0	1941.3	5050.0	1 8.1	8.1	1938.5	4883.4	0.5	0.5	1923.2	4041.0	10.4	34.8	1898.5	2889.2	1 0.3	20.4	1857.2	1531.0	0	0	29
30	1931.2	4466.5	20.1	0	1941.3	5050.0	1 7.4	7.4	1938.5	4883.4	0.5	0.5	1922.0	3978.0	10.4	32.2	1898.3	2881.2	1 0.3	4.4	1857.2	1531.0	0	0	30
31					1941.3	5050.0	1 6.7	6.7					1920.7	3909.8	10.4	34.8	1897.2	2837.3	1 0.3	22.4					31
TOTAL			1112.6	861.0			350.4	56.2			101.9	185.9			14.8	505.7			10.3	550.9			2.5	661.1	
Inf. Ac. Ft.			2206.8				695.0				202.1				29.4				20.2				5.0	15736.8	
Outf. Ac. Ft.				1707.8				111.5				368.7				1003.0				1092.7			1311.3	14209.5	
Maximum Mean Daily Inflow			70.3				19.1				6.0				0.5				0.4				0.3	355.9	
Minimum Mean Daily Inflow			18.5				5.7				0.5				0.4				0.3				0	0	
Storage Change			+499.0				+583.5				-166.6				-973.6				-1072.5				-1306.3		-2527.3

REMARKS 1 interpolated { mean for period

Year

Max. W. S. Elev.	1942.4	feet on	6-18-37	Storage	5118.5	Acre Feet	
Min. W. S. Elev.	1722.0	feet on	10-1-36	Storage	2.0	Acre Feet	
Max. Peak Inf.	508.2	C.F.S. from	7.00 A.M.	on	2-14-37	to 8.00 A.M.	on 2-14-37
Max. Peak Outf.	250.0	C.F.S. from	10.00 A.M.	on	2-18-37	to 12.00 Mid.	on 2-18-37

Gage Hts. reduced to midnight on day shown

RECORDS COLLECTED BY		SECOND 6 MONTHS			
R. E. Waddicor	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.
J. W. Luce	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked	M.W.R.
		Date	12-3-37		

F. C. Dist. Form 88 100 1/37

Storages based on L.A.C.F.C.D. Survey of January 1936. (See map 64T11) corrected for debris loss following March 2, 1938 storm.

Daily Gage Height in feet and Operation Record of PACOIMA DAM Dam

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

In Pacoima Canyon for the Year Ending September 30, 1938

3-1-38 - 3-2-38
5992.0 - 5004.3

Drainage Area 27.77 Square Miles. Capacity of Reservoir Ac. Ft. at Spillway Elev. 1950.0 Ft.

Continuous Water Stage Recorder AU

Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1857.2	1531.0	0	0.3	1849.8	1391.7	0	24.2	1796.5	433.7	0	13.1	1745.6	49.5	0.9	0	1763.3	132.1	14.2	0	1855.2	2757.5	356.6	56.0	1
2	1857.2	1531.0	0	0.3	1847.5	1302.0	0	23.1	1794.3	407.7	0	13.1	1746.1	51.1	0.9	0	1767.6	159.6	13.8	0	1961.7	5783.4	2356.6	521.9	2
3	1857.2	1531.0	0	0.3	1845.3	1254.5	0	23.9	1792.2	383.0	0	12.5	1746.6	52.8	0.9	0	1790.1	358.2	100.2	0	1955.2	5340.3	1457.5	1680.3	3
4	1857.1	1528.5	0	0.3	1843.1	1207.0	0	24.0	1790.1	358.2	0	12.5	1747.2	54.8	0.9	0	1807.9	583.2	113.4	0	1952.3	5150.9	580.8	676.8	4
5	1857.1	1528.5	0	0.3	1841.1	1163.8	0	21.7	1787.8	335.0	0	11.7	1747.7	56.4	0.9	0	1815.1	691.6	54.6	0	1950.7	5048.8	364.4	415.6	5
6	1857.1	1528.5	0	0.3	1838.8	1116.4	0	23.9	1786.6	323.0	0	6.0	1748.2	58.1	0.7	0	1819.1	754.0	31.5	0	1949.0	4941.9	273.6	327.5	6
7	1857.0	1526.1	0	0.2	1836.6	1073.4	0	21.7	1784.7	304.0	0	9.6	1748.7	59.7	0.7	0	1821.9	801.4	23.9	0	1946.7	4799.9	205.7	277.3	7
8	1856.9	1523.7	0	0.2	1834.3	1028.3	0	22.7	1782.8	285.0	0	9.6	1749.1	61.0	0.7	0	1824.1	840.2	19.6	0	1942.6	4554.8	189.4	313.0	8
9	1856.9	1523.7	0	0.2	1832.0	983.2	0	22.8	1780.7	264.0	0	10.5	1749.5	62.4	0.7	0	1826.8	887.7	23.9	0	1937.2	4247.1	151.9	307.0	9
10	1856.9	1523.7	0	0.2	1829.4	936.2	0	24.2	1777.7	238.1	1.2 *	14.2	1749.8	63.3	0.7	0	1830.2	947.9	30.4	0	1931.2	3924.3	138.7	301.5	10
11	1856.9	1523.7	0	0.2	1827.2	894.7	0	20.4	1777.1	233.2	8.6 *	11.1	1750.1	64.5	0.6	0	1849.3	1340.9	198.1	0	1924.6	3692.0	126.5	294.0	11
12	1856.9	1523.7	0	0.2	1824.5	847.2	0	24.0	1775.0	216.0	2.4 *	11.1	1750.3	65.4	0.6	0	1859.8	1594.1	145.6	17.9	1927.3	3726.0	309.7	292.6	12
13	1856.8	1521.2	0	0.2	1823.4	827.8	0	9.7	1771.5	187.3	2.2 *	16.6	1750.8	66.8	0.5	0	1853.7	1701.5	83.8	29.7	1933.0	4019.1	444.6	296.4	13
14	1856.8	1521.2	0	0.2	1823.4	827.8	0	0	1767.9	161.8	2.0 *	15.0	1750.9	68.2	0.7	0	1856.7	1784.6	60.7	18.8	1935.3	4142.7	363.8	301.4	14
15	1856.8	1521.2	0	0.2	1823.4	827.8	0	0	1763.2	131.8	1.4 *	16.5	1752.1	73.9	2.9	0	1859.6	1854.9	46.7	5.2	1937.6	4269.3	303.9	290.1	15
16	1856.8	1521.2	0	0.2	1823.4	827.8	0	0	1758.2	102.5	1 1.2	15.8	1752.6	76.2	1.2	0	1872.3	1948.9	42.3	0	1935.8	4169.9	253.9	304.0	16
17	1856.8	1521.2	0	0.2	1821.1	787.4	0	20.4	1751.9	72.9	1 1.0	15.9	1753.1	78.6	1.2	0	1873.1	1974.3	38.4	25.6	1932.6	3997.8	214.7	301.5	17
18	1856.8	1521.2	0	0.2	1820.2	771.2	0	8.0	1744.3	45.2	1 0.8	14.8	1754.0	82.8	2.1	0	1873.3	1980.6	35.2	32.0	1928.2	3770.1	182.7	297.5	18
19	1856.8	1521.2	0	0.2	1818.1	738.4	0	16.7	1738.2	27.2	1 0.7	9.8	1754.7	86.1	1.7	0	1874.1	2006.0	35.2	22.4	1922.5	3505.5	158.6	292.0	19
20	1856.8	1521.2	0	0.2	1816.3	710.3	0	14.2	1731.6	13.8	1 0.6	7.3	1755.2	88.4	1.1	0	1873.9	1999.6	30.2	33.4	1916.8	3228.9	145.5	285.0	20
21	1856.7	1518.8	0	0.2	1814.4	680.5	0	14.9	1730.1	10.2	e 0.5	2.3	1755.5	89.9	0.8	0	1873.5	1987.0	27.0	33.4	1910.7	2965.8	1132.0	264.6	21
22	1856.7	1518.8	0	0.2	1812.6	652.5	0	14.2	1732.5	15.3	3.5 e	1.0	1755.8	91.3	0.7	0	1873.0	1971.1	26.4	33.4	1903.3	2669.4	118.6	268.0	22
23	1856.7	1518.8	0	0.2	1810.8	624.5	0	14.1	1734.7	19.9	2.4	0	1755.1	92.7	0.7	0	1872.4	1952.1	23.9	33.4	1895.6	2385.3	105.7	249.0	23
24	1856.7	1518.8	0	0.2	1808.9	596.9	0	13.9	1736.2	23.0	1.5	0	1756.3	93.6	0.6	0	1871.6	1926.7	20.5	33.4	1892.9	2291.2	1 96.4	143.8	24
25	1856.7	1518.8	0	0.2	1807.1	572.3	0	12.4	1737.9	26.8	1.8	0	1756.5	94.6	0.6	0	1871.2	1914.0	21.4	27.8	1891.8	2253.5	1 87.2	106.2	25
26	1856.7	1518.8	0	0.2	1805.1	544.9	0	13.9	1739.8	30.6	2.1	0	1756.7	95.5	0.6	0	1871.1	1910.9	20.9	22.4	1889.3	2219.6	78.0	120.3	26
27	1856.7	1518.8	0	0.2	1803.2	518.8	0	13.1	1741.3	35.3	2.3	0	1757.0	96.9	0.5	0	1872.2	1945.7	26.4	8.9	1888.3	2136.9	73.9	90.6	27
28	1856.7	1518.8	0	0.2	1801.9	501.0	0	9.0	1742.8	39.8	2.2	0	1757.3	98.3	0.5	0	1879.0	2161.3	118.1	9.4	1888.0	2126.6	70.8	75.8	28
29	1856.0	1501.8	0	8.5	1800.7	486.6	0	8.3	1743.9	42.9	1.7	0	1757.5	101.1	1.4	0					1888.3	2136.5	65.5	60.5	29
30	1854.0	1453.2	0	24.5	1798.7	459.7	0	12.5	1744.7	45.2	1.1	0	1758.2	102.5	0.7	0					1888.6	2146.4	62.3	57.3	30
31	1851.8	1393.7	0	27.0					1745.0	47.5	1.2	0	1758.5	104.0	0.8	0					1889.3	2169.6	60.7	49.0	31
TOTAL			0	66.2			0	473.9			42.4	250.2			28.5	0			1427.3	390.1			9629.9	9216.5	
Inf. Ac. Ft.			0				0				84.1				56.5				2831.0				18902.3	21873.9	
Outf. Ac. Ft.			131.3				940.0				496.3				0					773.7			18280.7	20622.0	
Maximum Mean Daily Inflow			0				0				8.6				2.9				198.1				2356.6	2356.6	
Minimum Mean Daily Inflow			0				0				0				0.5				13.8				60.7	0	
Storage Change			-131.3				-940.0				-412.2				+56.5				+2057.3		+8.3+ ooo			+638.6+ ooo	

REMARKS e = estimated. i = interpolated. (mean for period. ooo = 913.2 A.F. Debris 1/2 Year

Max. W. S. Elev.	1961.7	feet on 3-2-38	Storage 6396.5 Acre Feet	RECORDS COLLECTED BY			SECOND 6 MONTHS	
Min. W. S. Elev.	1751.7	feet on 9-27-38	Storage 0 Acre Feet	R. E. Waddicor	Dam Tender	Gage Hts. copied	H.A.V.	Checked O.C.G.
Max. Peak Inf.	8320	C.F.S. from 3:30 P.M. on 3-2-38 to 4:00 P.M. on 3-2-38		R. P. Dalton	Hydrographer	Storage applied	H.A.V.	Checked O.C.G.
Max. Peak Outf.	2062	C.F.S. from 12:30 A.M. on 3-3-38 to 2:00 A.M. on 3-3-38		A.W. Reber	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked O.C.G.
						Date	3-17-39	

Gage Heights and Storage as of midnight on day shown

* Outflows taken from flume rating curve. All outflows include evaporation, leakage and percolation.
* Storages are corrected for debris loss beginning 3-2-38. Loss = 587.7 A.F. at elevation 1950.0, the spillway lip.

F. C. Dist. Form 88 100 1/37

Storages based on L.A.C.F.C.D. Survey of January 1936 (See Map 64T11) corrected for debris loss following March 2, 1938 storm.

Daily Gage Height in feet and Operation Record of PACOIMA DAM Dam

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

In Pacoima Canyon for the Year Ending September 30, 1938

3-1-38 3-2-38
5992.0 - 5004.3

Drainage Area 27.77 Square Miles. Capacity of Reservoir Ac. Ft. at Spillway Elev. 1950 Ft.

Continuous Water Stage Recorder AU

Gage Heights Read Daily

Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1869.9	2189.4	59.5	49.5	1848.2	1060.6	25.8	0	1807.9	365.4	10.8	19.6	1762.7	93.4	1 5.0	10.5	1781.0	79.8	1 1.9	0.3	1767.5	4.6	0.6	M 0.7	1
2	1890.2	2199.5	55.1	50.0	1850.2	1104.2	1 23.3	1.4	1808.4	372.1	1 10.9	7.5	1761.4	82.9	1 5.0	10.3	1780.4	75.0	1 1.8	4.2	1767.5	4.6	1 0.7	0.7	2
3	1890.4	2206.2	53.4	50.0	1851.7	1137.5	20.8	4.0	1808.5	373.4	1 10.9	10.2	1780.1	72.7	1 5.0	10.1	1778.2	68.8	1 1.7	9.9	1767.5	4.6	1 0.7	0.7	3
4	1888.6	2146.4	46.6	76.8	1853.2	1171.5	21.2	4.0	1807.0	353.7	1 10.9	20.9	1778.8	63.1	1 5.0	9.9	1776.1	64.6	1 1.6	8.7	1767.5	4.6	1 0.7	0.7	4
5	1884.7	2020.8	45.1	108.4	1853.8	1185.2	19.0	12.1	1805.5	334.4	1 10.9	20.8	1777.3	58.6	1 5.0	10.3	1774.5	54.8	1 1.5	6.5	1767.5	4.6	1 0.7	0.7	5
6	1880.7	1897.1	43.6	106.0	1853.0	1167.0	18.9	28.1	1804.1	316.8	11.0 M	19.9	1775.9	43.8	5.1 M	9.8	1773.1	26.9	1 1.4	5.4	1767.4	4.4	1 0.6	0.7	6
7	1876.6	1775.3	42.1	103.5	1852.2	1148.8	17.9	27.1	1802.8	300.9	1 10.9	18.9	1774.4	34.2	1 5.0	9.5	1771.9	20.7	1 1.3	4.4	1767.4	4.4	1 0.7	M 0.7	7
8	1872.3	1653.0	38.8	100.5	1851.5	1133.1	18.2	26.1	1802.1	292.3	1 10.9	15.2	1772.6	25.3	5.0 M	9.5	1771.3	17.9	1 1.3	2.7	1767.5	4.6	1 0.7	0.6	8
9	1868.0	1536.2	38.5	97.3	1850.9	1119.7	18.5	25.2	1801.5	285.2	10.8 M	14.4	1771.1	17.0	1 4.4	8.5	1770.8	16.7	1 1.2	2.3	1767.5	4.6	1 0.7	0.7	9
10	1863.9	1422.1	36.9	94.5	1850.2	1104.2	16.4	24.3	1800.9	278.7	1 10.7	14.0	1769.7	11.2	1 3.9	6.8	1770.3	13.6	1 1.2	2.3	1767.5	4.6	1 0.7	0.7	10
11	1860.5	1347.1	1 36.4	74.2	1849.5	1091.0	16.8	23.4	1800.4	272.1	1 10.5	13.9	1769.3	9.8	1 3.4	4.1	1769.8	11.6	1.1	M 2.1	1767.5	4.6	1 0.8	0.8	11
12	1856.3	1243.1	1 34.2	89.5	1849.0	1078.0	15.9	22.5	1799.9	266.2	1 10.5	13.5	1769.2	9.4	2.9 M	3.1	1769.4	10.1	1 1.1	1.8	1767.5	4.6	1 0.8	0.8	12
13	1852.2	1148.8	35.6	83.3	1846.5	1067.1	17.0	22.5	1799.4	260.5	1 10.4	13.3	1768.9	8.4	1 2.7	3.2	1769.0	8.7	1 1.1	1.6	1767.3	4.2	1 0.8	1.0	13
14	1847.5	1045.6	1 34.5	86.5	1846.3	1020.1	17.3	41.0	1798.8	253.5	1 10.3	13.8	1768.4	6.9	1 2.5	3.3	1768.7	7.8	1 1.1	1.6	1767.1	3.7	1 0.8	1.1	14
15	1844.8	966.7	1 33.5	68.2	1843.4	959.9	18.9	49.2	1798.2	246.6	1 10.2	13.7	1768.4	6.9	1 2.3	3.3	1768.4	7.9	1 1.1	1.6	1766.9	3.3	0.8	M 1.0	15
16	1843.4	959.9	32.5	47.0	1840.4	899.6	1 17.7	48.1	1797.5	238.7	10.2 M	14.2	1769.4	10.1	2.3	0	1768.3	5.6	1 1.0	1.1	1766.9	3.3	1 1.0	1.0	16
17	1842.0	931.4	31.8	46.2	1839.6	883.8	16.4	24.6	1796.5	228.6	1 9.8	14.8	1770.4	14.0	2.3	0	1768.4	6.9	1 1.0	1.8	1766.9	3.3	1 1.0	1.0	17
18	1840.5	901.6	30.6	45.6	1838.7	866.3	15.8	24.6	1795.6	217.6	1 9.4	15.0	1771.3	17.9	2.3	0	1768.5	7.2	1 1.0	1.9	1766.9	3.3	1 1.0	1.0	18
19	1839.9	889.7	28.8	34.8	1837.8	848.9	15.9	24.7	1794.5	205.7	1 9.0	15.0	1772.2	22.2	2.3	0	1768.4	6.9	1 1.0	1.7	1766.8	3.2	1 1.0	1.1	19
20	1839.7	885.8	27.9	29.8	1836.8	829.9	15.2	24.7	1793.7	197.2	1 8.6	12.9	1773.1	26.9	2.3	0	1768.3	6.6	1 1.0	1.2	1766.9	3.3	1 1.0	1.0	20
21	1839.8	887.7	27.6	26.7	1833.1	761.1	15.9	51.6	1793.1	190.9	1 8.2	11.3	1774.0	31.8	2.3	0	1768.2	6.3	1 0.9	1.0	1765.2	1.0	1 1.0	1.4	21
22	1840.0	891.6	27.2	25.2	1828.2	674.2	17.6	61.4	1792.5	184.7	1 7.9	11.1	1775.0	37.7	2.3	0	1768.0	5.7	1 0.9	1.2	1764.2	0.3	0.9	M 1.3	22
23	1840.1	893.6	26.2	25.2	1823.5	595.4	16.9	56.7	1791.7	176.5	7.6 M	11.7	1775.8	42.7	2.2	0	1767.8	5.3	1 0.9	1.1	1763.6	0.1	1 1.0	1.1	23
24	1840.7	905.5	31.2	25.2	1821.5	563.2	16.2	32.4	1790.9	168.5	1 7.2	11.2	1776.5	47.2	2.2	0	1767.6	4.8	1 0.9	1.2	1763.5	0.1	1 1.0	1.0	24
25	1842.1	933.4	39.4	25.4	1820.2	542.7	1 14.2	24.5	1790.0	159.5	1 6.9	11.5	1777.2	51.9	2.2	0	1767.6	4.8	0.9	M 0.9	1763.5	0.1	1 1.0	1.0	25
26	1843.2	955.8	28.4	17.1	1818.4	510.2	12.2	28.6	1788.9	148.9	1 6.6	11.9	1777.9	56.6	2.1	0	1767.6	4.8	1 0.9	0.9	1763.3	0.1	1 1.0	1.0	26
27	1845.4	969.2	24.3	22.2	1816.0	478.7	11.1	27.0	1787.7	137.5	1 6.3	12.1	1778.5	61.0	2.1	0	1767.8	4.8	1 0.9	0.9	1762.2	0	1 1.0	1.0	27
28	1845.5	961.9	23.2	22.2	1814.2	452.4	12.1	25.4	1786.5	126.5	6.0 M	11.5	1779.1	65.3	2.1	0	1767.8	4.8	1 0.9	0.9	1761.7	0	1 1.0	1.0	28
29	1844.0	972.1	27.4	22.2	1812.4	426.8	10.9	25.8	1785.3	115.7	1 6.6	11.9	1779.7	69.7	2.1	0	1767.8	4.8	1 0.9	0.9	1761.7	0	1 1.0	1.0	29
30	1845.8	1009.5	28.1	9.3	1810.8	404.5	11.2	22.4	1784.0	104.3	5.0 M	10.7	1780.2	74.3	2.0	0	1767.8	4.8	1 0.9	0.9	1761.7	0	1 1.0	1.0	30
31					1809.2	382.8	11.0	21.0					1780.6	76.6	2.0	0	1767.8	4.8	1 0.9	0.9	1761.7	0	1 1.0	1.0	31
TOTAL			1068.4	1653.3			516.4	832.4			274.9	415.3			97.3	111.3			35.3	71.5			26.7	29.1	
Inf. Ac. Ft.			2119.1				1024.3				545.3				193.0				70.0				52.9	57.8	
Outf. Ac. Ft.			3279.3				1651.0				823.7				220.8				141.8				57.7	26796.3	
Maximum Mean Daily Inflow			59.5				25.8				11.0				5.1				1.9				1.0	2356.6	
Minimum Mean Daily Inflow			23.2				10.9				5.0				2.0				0.9				0.6	0	
Storage Change			-1160.1				-628.7				-278.5				-27.7				-71.8				-4.8	-1531.0+	

REMARKS i = interpolated. M = measured. (= Mean for period. E = Estimated. ooo = 613.2 A.F. Debris Year

Max. W. S. Elev.	1961.7	feet on 3-2-38	Storage 6396.5 Acre Feet	RECORDS COLLECTED BY			SECOND 6 MONTHS	
Min. W. S. Elev.	1751.7	feet on 9-27-38	Storage 0 Acre Feet	R. E. Waddicor	Dam Tender	Gage Hts. copied	H.A.V.	Checked O.C.G.
Max. Peak Inf.	8320	C.F.S. from 3:30 P.M. on 3-2-38 to 4:00 P.M. on 3-2-38		R. P. Dalton	Hydrographer	Storage applied	H.A.V.	Checked O.C.G.
Max. Peak Outf.	2062	C.F.S. from 12:30 A.M. on 3-3-38 to 2:00 A.M. on 3-3-38		A. W. Reber	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked O.C.G.
						Date	3-17-39	

Gage Heights and Storages as of midnight on day shown.

F. C. Dist. Form 84 100 1/37

Storages based on original Survey of 1915.

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In On Puddingstone Creek for the Year Ending September 30, 1937

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder National

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

Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	879.05	246.6	0	1.7	874.90	179.4	0	0	874.30	169.7	0	1.6	891.20	618.1	30.3	0	895.55	837.1	0	0	924.55	3569.1	3.9	0	1
2	878.85	243.4	0	1.6	874.90	179.4	0	0	874.00	164.8	0	2.5	892.30	677.2	59.3	0	895.60	839.5	1.2	0	924.65	3584.8	7.7	0	2
3	878.65	240.1	0	1.6	874.90	179.4	0	0	873.90	163.2	0	0.5	892.30	726.4	24.8	0	895.60	839.5	0	0	924.70	3592.8	3.9	0	3
4	878.45	236.9	0	1.6	874.90	179.4	0	0	873.90	163.2	0	0	893.30	726.4	0	0	895.60	839.5	0	0	924.70	3592.8	0	0	4
5	878.25	233.6	0	1.7	874.90	179.4	0	0	873.90	163.2	0	0	893.80	741.1	7.4	0	895.55	838.0	1.3	0	924.70	3592.8	0	0	5
6	878.05	230.4	0	1.6	874.90	179.4	0	0	873.90	163.2	0	0	894.40	780.5	19.9	0	905.20	1442.4	302.7	0	925.35	3692.5	50.6	0	6
7	877.80	226.4	0	2.0	874.90	179.4	0	0	873.90	163.2	0	0	894.50	785.4	7.4	0	908.35	1676.4	117.9	0	926.10	3809.2	58.3	0	7
8	877.55	222.3	0	2.1	874.90	179.4	0	0	873.90	163.2	0	0	894.50	785.4	0	0	910.20	1820.4	72.6	0	926.55	3903.1	42.8	0	8
9	877.40	219.9	0	1.2	874.90	179.4	0	0	873.85	162.4	0	0.4	894.55	787.9	1.3	0	911.25	1932.5	56.6	0	926.65	3893.1	0	0	9
10	877.25	217.4	0	1.3	874.90	179.4	0	0	873.45	155.9	0	3.2	894.55	787.9	0	0	911.65	1975.2	21.5	0	926.65	3893.1	0	0	10
11	877.00	213.4	0	2.0	874.90	179.4	0	0	873.15	151.0	0	2.4	894.55	787.9	0	0	912.05	2017.9	21.5	0	926.65	3893.1	0	0	11
12	876.70	208.5	0	2.5	874.90	179.4	0	0	873.10	150.2	0	0.4	894.90	805.1	8.7	0	912.40	2055.3	18.9	0	926.75	3900.5	7.8	0	12
13	876.50	205.3	0	1.6	874.90	179.4	0	0	872.95	147.8	0	1.2	895.00	810.0	2.4	0	914.25	2252.2	99.6	0	927.15	3970.3	31.1	0	13
14	876.30	202.1	0	1.6	874.90	179.4	0	0	873.00	148.6	0.4	0	895.05	812.5	1.3	0	913.00	2760.2	255.7	0	927.15	3970.3	0	0	14
15	876.05	198.0	0	2.1	874.90	179.4	0	0	874.30	169.7	10.6	0	895.05	812.5	0	0	920.50	2952.6	100.6	0	927.75	4062.8	46.7	0	15
16	875.85	194.8	0	1.6	874.90	179.4	0	0	874.45	172.1	1.2	0	895.05	812.5	0	0	921.75	3137.0	99.4	0	928.10	4116.8	27.2	0	16
17	875.80	194.0	0	0.4	874.90	179.4	0	0	874.50	172.9	0.4	0	895.10	814.9	1.2	0	922.80	3299.0	81.7	0	929.10	4271.1	77.8	0	17
18	875.80	194.0	0	0	874.90	179.4	0	0	874.50	172.9	0	0	895.10	814.9	0	0	923.55	3430.2	66.1	0	930.10	4431.6	80.9	0	18
19	875.80	194.0	0	0	874.85	178.6	0	0.4	874.50	172.9	0	0	895.10	814.9	0	0	923.90	3468.8	19.5	0	931.15	4658.8	114.6	0	19
20	875.80	194.0	0	0	874.85	178.6	0	0	874.50	172.9	0	0	895.10	814.9	0	0	924.10	3492.6	15.5	0	931.65	4767.0	58.5	0	20
21	875.80	194.0	0	0	874.85	178.6	0	0	874.50	172.9	0	0	895.10	814.9	0	0	924.10	3499.6	0	0	931.95	4832.0	39.8	0	21
22	875.80	194.0	0	0	874.85	178.6	0	0	874.50	172.9	0	0	895.10	814.9	0	0	924.10	3499.6	0	0	932.75	5005.1	87.3	0	22
23	875.65	191.5	0	1.2	874.85	178.6	0	0	874.50	172.9	0	0	895.10	814.9	0	0	924.10	3499.6	0	0	933.15	5091.6	43.6	0	23
24	875.40	187.5	0	2.1	874.85	178.6	0	0	874.50	172.9	0	0	895.10	814.9	0	0	924.15	3507.3	3.9	0	933.55	5178.2	43.6	0	24
25	875.10	182.6	0	2.4	874.85	178.6	0	0	874.50	174.5	0.8	0	895.10	814.9	0	0	924.45	3553.6	25.3	0	933.70	5210.7	16.4	0	25
26	874.80	177.8	0	2.4	874.85	178.6	0	0	874.50	174.5	0	0	895.10	814.9	0	0	924.45	3553.6	0	0	933.75	5221.5	5.5	0	26
27	874.55	173.7	0	2.1	874.85	178.6	0	0	874.30	216.6	21.2	0	895.10	814.9	0	0	924.45	3553.6	0	0	934.50	5333.8	81.8	0	27
28	874.50	172.9	0	0.4	874.85	178.6	0	0	874.30	230.7	17.2	0	895.10	814.9	0	0	924.80	3561.4	4.0	0	934.80	5448.7	32.7	0	28
29	874.55	173.7	0.4	0	874.75	176.9	0	0.9	874.45	253.1	1.2	0	895.10	814.9	0	0					934.80	5448.7	0	0	29
30	874.65	174.5	0.4	0	874.50	172.9	0	2.0	875.50	434.1	32.3	0	895.55	837.1	11.2						934.80	5448.7	0	0	30
31	874.90	179.4	2.5	0					880.90	561.0	66.5	0	895.55	837.1	0						934.80	5448.7	0	0	31
TOTAL			3.3	38.8			0	3.3			205.8	12.6			140.7	0			1373.5	0			951.5	0	
Inf. Ac. Ft.			6.5				0				410.2				273.1				2724.3				1887.3	5307.4	
Outf. Ac. Ft.				77.0				6.5				25.0				0				0			0	108.5	
Maximum Mean Daily Inflow			2.5				0				88.3				30.3				302.7				114.6	302.7	
Minimum Mean Daily Inflow			0				0				0				0				0				0	0	
Storage Change			- 70.5				- 6.5				+346.1				+279.1				+2724.3				+1887.3	+5198.8	

REMARKS * Indicates accumulated losses due to evaporation & percolation.

Max. W. S. Elev.	936.60 * feet	on 4-13-37	Storage 5838.2 Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS
Min. W. S. Elev.	872.90 feet	on 12-14-36	Storage 147.0 Acre Feet	F. A. Pollard	Dam Tender	Gage Hts. copied H. A. V. Checked MR
Max. Peak Inf.	1483.4 C.F.S. from 6 P.M.	on 2-6-37	to 7 P.M. on 2-6-37	R. P. Dalton	Hydrographer	Storage applied H. A. V. Checked MR
Max. Peak Outf.	11.0 (Mean Daily) C.F.S. from	on Various	~~x~~ times on		Hydrographer	Inf. & Outf. computed H. A. V. Checked MR

Gage Hts. & storage reduced to midnight on day shown. Date 10-1-37

1/2 Year

F. C. Dist. Form 84 100 1/37

Storages based on original Survey of 1915.

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In On PUDDINGSTONE CREEK for the Year Ending September 30, 1937

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder Rational

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

Gage Heights Read Daily

Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	934.80	5448.7	0	1.9	936.05	5719.2	0	3.1	934.50	5383.8	0	5.4	932.65	4983.4	0	10.9	930.50	4518.2	0	10.9	928.30	4147.7	0	3.9	1
2	934.80	5448.7	0	1.8	936.05	5719.2	0	3.1	934.40	5362.2	0	10.9	932.55	4961.8	0	10.9	930.40	4496.6	0	10.9	928.20	4132.3	0	7.7	2
3	934.80	5448.7	0	1.8	936.00	5708.4	0	3.1	934.35	5351.3	0	5.5	932.50	4951.0	0	5.5	930.35	4485.7	0	5.5	928.10	4116.8	0	7.9	3
4	934.75	5437.9	0	1.8	936.00	5708.4	0	3.1	934.25	5329.7	0	10.9	932.40	4929.4	0	10.9	930.30	4474.9	0	5.4	928.05	4109.1	0	3.8	4
5	934.75	5437.9	0	1.8	935.95	5697.6	0	5.1	934.25	5329.7	0	0	932.35	4918.5	0	5.5	930.25	4464.1	0	5.5	927.95	4093.7	0	7.8	5
6	934.70	5427.1	0	1.8	935.90	5686.8	0	3.1	934.20	5318.9	0	5.5	932.30	4907.7	0	5.4	930.20	4453.3	0	5.4	927.85	4078.2	0	7.8	6
7	935.05	5502.8	40.2	2.0	935.90	5686.8	0	3.2	934.15	5308.0	0	5.5	932.25	4896.9	0	5.4	930.15	4442.4	0	5.5	927.75	4068.8	0	7.8	7
8	935.60	5621.8	62.0	2.0	935.85	5675.9	0	5.5	934.10	5297.2	0	5.4	932.20	4886.1	0	5.5	930.05	4420.8	0	10.9	927.70	4055.1	0	3.9	8
9	935.90	5686.8	34.7	2.0	935.80	5665.1	0	5.4	934.05	5286.4	0	5.4	932.10	4864.4	0	10.9	929.95	4402.5	0	9.3	927.60	4039.7	0	7.7	9
10	936.20	5751.7	34.8	2.0	935.75	5654.3	0	5.5	934.00	5275.6	0	5.5	932.05	4853.6	0	5.5	929.90	4394.6	0	3.9	927.55	4032.0	0	3.9	10
11	936.40	5795.0	23.8	2.0	935.70	5643.5	0	5.4	933.90	5254.0	0	10.9	932.00	4842.8	0	5.4	929.85	4386.8	0	3.9	927.50	4024.3	0	3.9	11
12	936.55	5827.4	18.3	2.0	935.65	5632.6	0	5.5	933.85	5243.1	0	5.5	931.95	4832.0	0	5.5	929.80	4379.1	0	3.9	927.45	4016.5	0	3.9	12
13	936.55	5827.4	0	2.3	935.60	5621.8	0	5.4	933.85	5243.1	0	0	931.90	4821.3	0	5.4	929.75	4371.4	0	3.9	927.35	4001.1	0	7.8	13
14	936.55	5827.4	0	2.3	935.55	5611.0	0	5.5	933.80	5232.3	0	5.4	931.85	4810.3	0	5.5	929.70	4363.7	0	3.9	927.30	3993.4	0	3.9	14
15	936.55	5827.4	0	2.3	935.50	5600.2	0	5.4	933.75	5221.5	0	5.5	931.80	4799.5	0	5.5	929.65	4356.0	0	3.9	927.20	3978.0	0	7.7	15
16	936.50	5816.6	0	2.4	935.45	5589.4	0	5.5	933.65	5199.8	0	10.9	931.70	4777.9	0	10.8	929.60	4348.3	0	3.8	927.10	3962.5	0	7.9	16
17	936.50	5816.6	0	2.4	935.40	5578.6	0	8.2	933.60	5189.0	0	5.5	931.60	4756.2	0	11.0	929.50	4332.9	0	7.8	927.05	3954.8	0	3.8	17
18	936.45	5805.8	0	2.4	935.30	5556.9	0	8.2	933.55	5178.2	0	5.4	931.50	4734.6	0	10.9	929.45	4325.1	0	3.9	926.95	3939.4	0	7.8	18
19	936.45	5805.8	0	2.4	935.25	5546.1	0	8.2	933.50	5167.4	0	5.4	931.45	4723.8	0	5.4	929.35	4309.7	0	7.8	926.85	3923.9	0	7.8	19
20	936.40	5795.0	0	2.4	935.15	5524.4	0	8.2	933.45	5156.6	0	5.5	931.40	4713.0	0	5.5	929.25	4294.3	0	7.8	926.80	3916.2	0	3.9	20
21	936.40	5795.0	0	2.4	935.10	5513.6	0	5.4	933.40	5145.8	0	5.4	931.30	4691.3	0	10.9	929.15	4278.8	0	7.8	926.70	3900.8	0	7.8	21
22	936.35	5784.1	0	2.4	935.05	5502.9	0	5.4	933.35	5135.0	0	5.5	931.25	4680.5	0	5.5	929.05	4263.4	0	7.7	926.60	3885.4	0	7.7	22
23	936.30	5773.3	0	2.4	934.95	5481.2	0	10.9	933.25	5113.3	0	10.9	931.15	4658.8	0	10.9	928.95	4248.0	0	7.8	926.55	3877.7	0	3.9	23
24	936.30	5773.3	0	2.4	934.90	5470.4	0	5.5	933.15	5091.6	0	11.0	931.10	4648.0	0	5.4	928.85	4232.5	0	7.8	926.50	3870.0	0	3.9	24
25	936.25	5762.5	0	2.4	934.80	5448.7	0	10.9	933.10	5080.8	0	5.4	931.00	4626.4	0	10.9	928.75	4217.1	0	7.8	926.40	3854.6	0	7.8	25
26	936.25	5762.5	0	2.4	934.75	5437.9	0	5.5	933.00	5059.2	0	10.9	930.95	4615.6	0	5.5	928.65	4201.7	0	7.8	926.30	3839.1	0	7.8	26
27	936.20	5751.7	0	2.4	934.70	5427.1	0	5.4	932.90	5037.6	0	10.9	930.90	4604.8	0	5.4	928.60	4194.0	0	3.8	926.25	3831.4	0	3.8	27
28	936.20	5751.7	0	2.4	934.70	5427.1	0	0	932.85	5026.7	0	5.5	930.85	4593.9	0	5.5	928.55	4186.3	0	3.9	926.20	3823.7	0	3.9	28
29	936.15	5740.8	0	5.5	934.65	5416.2	0	5.5	932.80	5015.9	0	5.4	930.75	4572.3	0	10.9	928.50	4178.6	0	3.9	926.15	3815.9	0	4.0	29
30	936.10	5730.0	0	5.5	934.55	5394.6	0	10.9	932.75	5005.1	0	5.5	930.70	4561.5	0	5.4	928.40	4163.1	0	7.8	926.10	3808.2	0	3.8	30
31					934.55	5394.6	0	0					930.60	4539.8	0	11.0	928.35	4155.4	0	3.9					31
TOTAL			213.8	72.0			0	169.1			0	196.4			234.6				0	193.8			0	175.0	
Inf. Ac. Ft.			424.1				0				0				0				0				0	5731.5	
Outf. Ac. Ft.				142.8				335.4				389.6				465.3				384.4			347.1	2173.1	
Maximum Mean Daily Inflow			62.0				0				0				0				0				0	302.7	
Minimum Mean Daily Inflow			0				0				0				0				0				0	0	
Storage Change			+ 281.3				- 335.4				- 389.5				- 465.3				- 384.4				- 347.2	+3558.3	

REMARKS { Indicates mean loss for priod due to evaporation & percolation

E-Estimated

Max. W. S. Elev.	936.60 feet	on 4-13-37	Storage 5838.2 Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS
Min. W. S. Elev.	872.90 feet	on 12-14-36	Storage 147.0 Acre Feet	F. A. Pollard	Dam Tender	Gage Hts. copied H. A. V. Checked M. R.
Max. Peak Inf.	1483.4 C.F.S. from 6 P.M.	on 2-6-37	to 7 P.M. on 2-6-37	R. P. Dalton	Hydrographer	Storage applied H. A. V. Checked M. R.
Max. Peak Outf.	11.0 (Mean daily) C.F.S. from	on Various	~~x~~ times on		Hydrographer	Inf. & Outf. computed H. A. V. Checked M. R.

Gage Hts. & storage reduced to midnight on day shown. Date 11/23/37

Year

F. C. Dist. Form 88 100 1/37

Storages based on original Reconnaisance Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

File No.

In / On Puddingstone Creek for the Year Ending September 30, 19 38

Continuous Water Stage Recorder Rational

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

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	926.00	3792.8	0	7.8	923.75	3446.6	0	3.9	921.55	3106.2	0	7.8	921.95	3157.9	0	0	923.00	3389.9	42.8	0	932.80	5015.9	430.0	0	1
2	925.90	3777.4	0	7.7	923.65	3430.2	0	7.7	921.45	3090.7	0	7.8	921.95	3157.9	0	0	923.00	3389.9	0	0	949.90	9377.2	2199.0	0	2
3	925.80	3761.9	0	7.8	923.60	3422.5	0	3.9	921.40	3083.0	0	3.9	921.95	3157.9	0	0	923.35	3383.9	27.2	0	955.40	11330.6	984.6	0	3
4	925.70	3746.5	0	7.8	923.50	3407.1	0	7.8	921.40	3083.0	0	0	921.95	3157.9	0	0	923.50	3407.1	11.7	0	957.40	12043.4	359.4	0	4
5	925.60	3738.8	0	3.9	923.40	3391.6	0	7.8	921.40	3083.0	0	0	921.90	3150.2	0	3.9	923.50	3407.1	0	0	958.50	12435.4	197.6	0	5
6	925.60	3731.1	0	3.9	923.35	3383.9	0	3.9	921.35	3075.3	0	3.8	921.90	3150.2	0	0	923.50	3407.1	0	0	959.10	12649.8	107.8	0	6
7	925.55	3723.4	0	3.9	923.30	3378.2	0	3.9	921.30	3067.6	0	3.9	921.90	3160.2	0	0	923.50	3407.1	0	0	959.40	12756.2	102.4	48.4	7
8	925.45	3707.9	0	7.8	923.20	3360.8	0	7.7	921.25	3059.9	0	3.9	921.90	3160.2	0	0	923.55	3414.8	3.9	0	959.30	12720.5	67.4	85.4	8
9	925.35	3692.5	0	7.7	923.15	3353.0	0	3.9	921.25	3059.9	0	0	921.90	3160.2	0	0	924.20	3515.1	50.6	0	959.10	12613.6	45.7	199.6	9
10	925.25	3677.1	0	7.8	923.10	3345.3	0	3.9	921.30	3067.6	3.9	0	921.90	3160.2	0	0	924.25	3522.8	3.9	0	958.80	12542.1	63.1	99.1	10
11	925.15	3661.6	0	7.8	923.00	3329.7	0	7.9	921.70	3129.3	31.1	0	921.90	3160.2	0	0	924.90	3623.1	50.4	0	958.40	12399.8	27.3	99.1	11
12	925.05	3646.2	0	7.8	922.95	3322.2	0	3.8	921.80	3144.7	7.7	0	921.85	3152.4	0	3.9	925.20	3669.4	23.4	0	959.15	12667.0	134.7	0	12
13	925.00	3638.5	0	3.9	922.90	3314.5	0	3.9	921.85	3152.4	3.9	0	921.85	3152.4	0	0	925.25	3677.1	3.9	0	959.50	12791.8	118.2	55.3	13
14	924.95	3630.8	0	3.8	922.80	3299.0	0	7.8	921.90	3160.2	4.0	0	921.90	3160.2	3.9	0	925.30	3684.8	3.8	0	959.65	12845.2	125.0	98.1	14
15	924.90	3623.1	0	3.9	922.75	3291.3	0	3.9	921.90	3160.2	0	0	922.10	3191.0	15.5	0	925.30	3684.8	0	0	959.70	12863.1	107.6	198.5	15
16	924.85	3615.4	0	3.9	922.65	3275.9	0	7.7	921.90	3160.2	0	0	922.45	3245.0	27.3	0	925.35	3692.5	3.9	0	959.60	12827.4	80.9	198.9	16
17	924.75	3600.0	0	7.8	922.60	3268.2	0	3.9	921.90	3160.2	0	0	922.45	3245.0	0	0	925.35	3692.5	0	0	959.40	12756.2	63.4	99.3	17
18	924.70	3592.2	0	3.9	922.55	3260.5	0	3.9	921.90	3160.2	0	0	922.45	3245.0	0	0	925.35	3692.5	0	0	959.20	12684.9	28.4	64.4	18
19	924.60	3576.8	0	7.8	922.45	3245.0	0	7.8	921.90	3160.2	0	0	922.45	3245.0	0	0	925.40	3700.2	3.9	0	959.00	12613.6	64.1	100.0	19
20	924.55	3569.1	0	3.8	922.40	3237.3	0	3.9	921.90	3160.2	0	0	922.45	3245.0	0	0	925.40	3700.2	0	0	958.75	12524.5	55.0	100.0	20
21	924.45	3553.7	0	7.8	922.35	3229.6	0	3.9	921.90	3160.2	0	0	922.45	3245.0	0	0	925.40	3700.2	0	0	958.40	12399.8	37.2	100.0	21
22	924.35	3538.2	0	7.8	922.25	3214.2	0	7.7	921.90	3160.2	0	0	922.45	3245.0	0	0	925.40	3700.2	0	0	958.10	12292.8	31.0	85.0	22
23	924.25	3530.5	0	3.9	922.20	3206.5	0	3.9	921.90	3160.2	0	0	922.45	3245.0	0	0	925.40	3700.2	0	0	957.75	12168.1	36.2	99.0	23
24	924.20	3515.1	0	7.8	922.15	3198.7	0	3.9	921.95	3167.9	3.8	0	922.45	3245.0	0	0	925.40	3700.2	0	0	957.40	12043.4	36.1	99.0	24
25	924.15	3507.3	0	3.9	922.05	3183.3	0	7.8	921.95	3167.9	0	0	922.45	3245.0	0	0	925.40	3700.2	0	0	957.25	11985.9	15.3	42.3	25
26	924.10	3499.6	0	3.9	921.95	3167.9	0	7.8	922.00	3175.6	3.9	0	922.45	3245.0	0	0	925.40	3700.2	0	0	957.30	12007.7	12.0	6.0	26
27	924.05	3491.9	0	3.9	921.85	3152.4	0	7.8	922.00	3175.6	0	0	922.45	3245.0	0	0	925.55	3723.4	11.7	0	957.30	12007.7	16.1	16.1	27
28	923.95	3476.5	0	7.7	921.75	3137.0	0	7.8	922.00	3175.6	0	0	922.45	3245.0	0	0	928.40	4163.1	221.7	0	957.25	11989.9	7.1	16.1	28
29	923.90	3468.8	0	3.9	921.70	3129.3	0	3.8	921.95	3167.9	0	3.9	922.45	3245.0	0	0					957.25	11989.9	13.4	13.4	29
30	923.85	3461.1	0	3.5	921.65	3121.6	0	3.9	921.95	3167.9	0	0	922.45	3245.0	0	0					957.20	11972.1	15.2	9.7	30
31	923.80	3453.3	0	3.5					921.90	3157.9	0	0	922.45	3245.0	0	0					957.20	11972.1	15.2	9.7	31
TOTAL			0	178.9			0	167.2			68.3	39.0			46.7	7.8			462.9	0			5679.4	1642.4	
Inf. Ac. Ft.			0				0				116.6				92.6				918.1				11065.6	12192.9	
Outf. Ac. Ft.				354.8				-331.6			69.4				15.5				0				3257.7	4089.0	
Maximum Mean Daily Inflow				0				0			31.1				27.3				221.7				2199.0	2199.0	
Minimum Mean Daily Inflow				0				0			0				0				0				5.2	0	
Storage Change				-354.9				-331.7			+46.3				+77.1				+918.1				+7809.0	+8163.9	

REMARKS: Note: Outflow includes evaporation and leakage losses - as indicated by storage changes. i = Interpolated e = estimated

Year

Max. W. S. Elev. 959.75 feet on 3-15-38 Storage 12880.9 Acre Feet

Min. W. S. Elev. 921.25 feet on 12-8-37 Storage 3059.9 Acre Feet

Max. Peak Inf. 5312 C.F.S. from 4:00 P.M. on 3-2-38 to 5:00 P.M. on 3-2-38

Max. Peak Outf. 100 C.F.S. from Midnight on 3-16-38 to 10:30 A.M. on 3-22-38

RECORDS COLLECTED BY

F. A. Pollard — Dam Tender

R. P. Dalton — Hydrographer

Hydrographer

SECOND 6 MONTHS

Gage Hts. copied T.M. & H.A.V Checked C.O.C.G.-J.A.H

Storage applied T.M. & H.A.V Checked C.O.C.G.-J.A.H

Inf. & Outf. computed H.A.V. Checked J.A.H.

Date 2-15-39

Gage Heights and Storages as of midnight on day shown.

{ = mean for period

F. C. Dist. Form 88 100 1/37

Storage based on original Reconnaisance Survey

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

File No.

In / On PUDDINGSTONE CREEK for the Year Ending September 30, 19 38

Continuous Water Stage Recorder Rational

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

Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	957.20	11972.1	9.7	9.7	956.75	11611.7	0	2.7	955.95	11526.6	0	8.0	954.75	11098.9	0	7.2	953.30	10582.1	0	8.9	951.35	9887.1	0	34.2	1
2	957.20	11972.1	4.4	4.4	956.75	11611.7	0	2.7	955.90	11508.8	0	8.1	954.70	11081.1	0	7.2	953.25	10564.3	0	8.9	951.15	9815.9	0	34.2	2
3	957.20	11972.1	0	2.0	956.70	11793.9	0	2.7	955.85	11490.9	0	8.1	954.65	11063.3	0	7.2	953.20	10546.5	0	9.0	950.95	9744.6	0	34.1	3
4	957.15	11954.2	0	2.0	956.70	11793.9	0	2.7	955.80	11473.1	0	8.1	954.60	11045.4	0	7.2	953.15	10528.7	0	9.0	950.75	9673.3	0	34.1	4
5	957.15	11954.2	0	2.0	956.65	11776.0	0	2.7	955.75	11455.3	0	8.1	954.60	11045.4	0	7.2	953.10	10510.8	0	9.0	950.55	9602.0	0	34.1	5
6	957.15	11954.2	0	2.0	956.65	11776.0	0	2.7	955.70	11437.5	0	8.1	954.55	11027.6	0	7.2	953.05	10493.0	0	9.0	950.35	9530.7	0	31.2	6
7	957.15	11954.2	0	2.0	956.60	11758.2	0	2.7	955.65	11419.7	0	8.1	954.50	11009.8	0	7.2	953.00	10475.2	0	9.0	950.20	9477.3	0	31.2	7
8	957.10	11936.4	0	2.0	956.60	11758.2	0	2.7	955.60	11401.8	0	8.1	954.45	10992.0	0	7.2	952.95	10457.4	0	9.0	950.00	9406.0	0	31.2	8
9	957.10	11936.4	0	2.0	956.60	11758.2	0	2.7	955.60	11401.8	0	8.1	954.40	10974.2	0	7.1	952.90	10439.6	0	9.0	949.80	9349.4	0	31.2	9
10	957.10	11936.4	0	2.0	956.60	11758.2	0	2.7	955.55	11384.0	0	8.1	954.40	10974.2	0	7.1	952.85	10421.7	0	9.0	949.60	9292.7	0	31.1	10
11	957.10	11936.4	0	2.0	956.55	11740.4	0	4.4	955.55	11384.0	0	8.3	954.35	10956.3	0	8.9	952.80	10403.9	0	9.0	949.40	9236.1	0	27.2	11
12	957.05	11918.6	0	4.5	956.55	11740.4	0	4.5	955.50	11366.2	0	8.3	954.30	10938.5	0	8.9	952.75	10386.1	0	9.0	949.25	9193.6	0	27.2	12
13	957.05	11918.6	0	4.5	956.50	11740.4	0	4.5	955.50	11366.2	0	8.3	954.25	10920.7	0	9.0	952.70	10368.3	0	9.0	949.05	9137.0	0	27.1	13
14	957.05	11918.6	0	3.2	956.50	11722.6	0	4.5	955.45	11348.4	0	9.3	954.20	10903.0	0	9.0	952.65	10350.5	0	9.0	948.85	9080.4	0	27.1	14
15	957.00	11900.8	0	3.2	956.50	11722.6	0	4.5	955.40	11330.6	0	9.3	954.15	10885.1	0	9.0	952.60	10332.7	0	9.0	948.65	9023.7	0	27.1	15
16	957.00	11900.8	0	3.2	956.45	11704.8	0	4.5	955.35	11312.7	0	9.3	954.10	10867.2	0	9.0	952.55	10314.8	0	9.0	948.50	8981.2	0	26.4	16
17	956.95	11883.0	0	3.2	956.45	11704.8	0	4.5	955.30	11294.9	0	9.3	954.05	10849.4	0	9.0	952.50	10297.0	0	9.0	948.30	8924.5	0	25.4	17
18	956.90	11865.2	0	3.2	956.40	11687.0	0	4.5	955.25	11277.1	0	9.3	954.00	10831.6	0	9.0	952.45	10279.2	0	9.0	948.15	8882.1	0	25.4	18
19	956.90	11865.2	0	3.2	956.40	11687.0	0	4.5	955.25	11277.1	0	9.2	953.95	10813.8	0	9.0	952.40	10261.4	0	9.0	948.00	8839.6	0	25.4	19
20	956.85	11847.3	0	3.2	956.35	11669.1	0	4.5	955.20	11259.3	0	9.2	953.90	10796.0	0	9.0	952.35	10243.5	0	8.9	947.80	8783.0	0	25.4	20
21	956.85	11847.3	0	3.2	956.35	11669.1	0	5.7	955.15	11241.5	0	9.1	953.85	10778.1	0	9.0	952.30	10225.7	0	8.9	947.60	8726.3	0	2.4	21
22	956.80	11829.5	0	3.2	956.30	11651.3	0	5.7	955.10	11223.6	0	9.2	953.80	10760.3	0	9.0	952.25	10207.9	0	8.9	947.40	8669.7	0	25.4	22
23	956.80	11829.5	0	3.2	956.30	11651.3	0	5.7	955.05	11205.8	0	9.2	953.75	10742.5	0	9.0	952.20	10190.1	0	9.0	947.20	8613.0	0	25.3	23
24	956.80	11829.5	0	3.2	956.25	11633.5	0	5.7	955.00	11188.0	0	9.2	953.70	10724.7	0	9.0	952.15	10172.3	0	9.0	947.05	8570.6	0	25.3	24
25	956.80	11829.5	0	3.2	956.20	11615.7	0	5.7	955.00	11188.0	0	9.2	953.65	10706.9	0	9.0	952.10	10154.4	0	9.0	946.95	8542.3	0	14.3	25
26	956.80	11829.5	0	3.1	956.15	11597.9	0	5.7	954.95	11170.2	0	9.2	953.60	10689.0	0	9.0	952.05	10136.6	0	9.0	946.90	8528.1	0	7.1	26
27	956.75	11811.7	0	3.1	956.15	11597.9	0	5.7	954.90	11152.4	0	9.2	953.55	10671.2	0	9.0	952.00	10118.8	0	9.0	946.85	8514.0	0	7.1	27
28	956.75	11811.7	0	3.1	956.10	11580.0	0	5.7	954.90	11152.4	0	9.2	953.50	10653.4	0	9.0	951.95	10101.0	0	9.0	946.80	8499.8	0	3.6	28
29	956.75	11811.7	0	3.1	956.05	11562.2	0	5.7	954.85	11134.5	0	9.2	953.45	10635.6	0	9.0	951.80	10047.5	0	27.0	946.80	8492.8	0	3.6	29
30	956.75	11811.7	0	3.1	956.00	11544.4	0	5.8	954.80	11116.7	0	9.2	953.40	10617.8	0	9.0	951.65	9994.1	0	26.9	946.75	8485.6	0	7.2	30
31					956.00	11544.4	0	5.8					953.35	10599.9	0	8.9	951.50	9940.6	0	27.0					31
TOTAL			14.1	95.0			0	134.8			0	215.6			0	260.5			0	332.4			0	733.6	
Inf. Ac. Ft.			28.0				0				0				0				0				0	12220.9	
Outf. Ac. Ft.			158.4					267.4				427.6				516.7				659.3			1455.1	7543.5	
Maximum Mean Daily Inflow			9.7				0				0				0				0				0	2199.0	
Minimum Mean Daily Inflow			0				0				0				0				0				0	0	
Storage Change			-160.4				-267.3				-427.7				-516.8				-659.3				-1455.0	+4677.4 AF	

REMARKS: Note: Outflows include evaporation & leakage losses as indicated by storage changes. { = mean for period.

Year

Max. W. S. Elev. 959.75 feet on 3-15-38 Storage 12880.9 Acre Feet

Min. W. S. Elev. 921.25 feet on 12-8-37 Storage 3059.9 Acre Feet

Max. Peak Inf. 5312 C.F.S. from 4:00 P.M. on 3-2-38 to 5:00 P.M. on 3-2-38

Max. Peak Outf. 100 C.F.S. from Midnight on 3-16-38 to 10:30 A.M. on 3-22-38

RECORDS COLLECTED BY

F. A. Pollard — Dam Tender

R. P. Dalton — Hydrographer

Hydrographer

SECOND 6 MONTHS

Gage Hts. copied H.A.V.-C.O.C.G. Checked J.A.H

Storage applied H.A.V.-C.O.C.G. Checked C.O.C.G.

Inf. & Outf. computed H.A.V.-C.O.C.G. Checked J.A.H

Date 2-13-39

Gauge Hts. and storages as of midnight on day shown

F. C. Dist. Form ■ 100 1/37

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

Daily Gage Height in feet and Operation Record of Puddingstone Diversion Dam

In San Dimas Creek for the Year Ending September 30, 19 37

Drainage Area 2.57 Square Miles. Capacity of Reservoir 121.2 Ac. Ft. at Spillway Elev. 1152.5 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1													1145.8	55.0	14.3	13.9	Dry	0	0	0	1145.7	54.2	7.0	6.6	1
2													1145.8	55.0	15.5	15.5	Dry	0	0	0	1145.6	53.5	3.9	4.3	2
3													1145.6	53.5	14.3	15.1	Dry	0	0	0	1145.3	51.2	4.3	5.5	3
4													1142.8	34.4	0	* 9.6	Dry	0	0	0	1140.3	23.2	0	*14.1	4
5													1139.8	21.2	0	* 6.6	Dry	0	0	0	1144.5	45.8	12.6	1.2	5
6													1138.6	16.2	0	* 2.6	1142.7	35.0	17.6	0	1146.0	56.5	67.3	61.9	6
7													1137.8	13.8	0	* 1.2	1146.3	58.7	71.1	59.1	1146.0	56.5	66.7	66.7	7
8													11137.0	11.4	0	* 1.2	1146.0	56.5	68.4	69.5	1145.2	50.6	47.3	50.3	8
9													11136.1	9.0	0	* 1.2	1145.7	54.2	39.9	41.1	1143.0	36.6	0	* 7.0	9
10													11135.1	6.7	0	* 1.1	1145.7	54.2	13.2	13.2	1140.7	25.0	0	* 5.9	10
11													11134.0	4.6	0	* 1.1	1145.7	54.2	12.2	12.2	1139.0	18.0	0	* 3.5	11
12													11132.9	3.0	0	* 0.8	1145.7	54.2	12.3	12.3	1139.0	18.0	0	0	12
13													11131.8	1.8	0	* 0.6	1145.9	55.7	15.7	14.9	1139.9	21.6	5.6	3.8	13
14													11130.7	0.9	0	* 0.5	1146.2	58.0	63.9	62.8	1139.2	18.8	2.2	3.6	14
15		DRY				DRY				DRY			Dry	0	0	* 0.4	1146.1	57.2	80.9	81.3	1139.8	21.2	2.2	1.0	15
16													Dry	0	0	0	1146.1	57.2	79.8	79.8	1146.1	57.2	26.5	8.3	16
17													Dry	0	0	0	1146.1	57.2	77.5	77.5	1146.1	57.2	82.2	82.2	17
18													Dry	0	0	0	1145.7	54.2	60.0	61.5	1146.1	57.2	77.2	77.2	18
19													Dry	0	0	0	1145.7	54.2	20.2	20.2	1146.1	57.2	74.8	74.8	19
20													Dry	0	0	0	1145.1	49.9	13.2	15.3	1145.8	55.0	46.4	47.5	20
21													Dry	0	0	0	1143.3	38.3	0	* 5.9	1145.8	55.0	29.2	29.2	21
22													Dry	0	0	0	1141.5	28.7	0	* 4.8	1145.9	55.7	31.1	30.8	22
23													Dry	0	0	0	1139.7	20.8	0	* 4.0	1145.8	55.0	30.7	31.0	23
24													Dry	0	0	0	1139.1	18.4	0	* 1.2	1145.8	55.0	31.1	31.1	24
25													Dry	0	0	0	1139.5	20.0	1.3	0.5	1151.5	109.1	40.1	12.9	25
26									Dry	0	0	0	Dry	0	0	0	1141.3	27.7	3.9	0	1150.6	98.9	0	* 5.1	26
27									Dry	0	0	0	Dry	0	0	0	1144.4	45.1	8.7	0	1146.1	57.2	52.7	73.7	27
28									Dry	0	0	0	Dry	0	0	0	1145.6	53.5	5.8	1.5	1144.1	43.2	26.3	33.4	28
29									Dry	0	0	0	Dry	0	0	0					1141.0	26.4	[1.3	8.7	29
30									1134.3	5.1	2.6	0	Dry	0	0	0					1139.1	18.4	< 1.2	6.5	30
31									1145.7	54.2	25.2	0.5	Dry	0	0	0					1139.1	18.4	[1.2	1.0	31
TOTAL											27.8	0.5			44.1	71.4			665.6	638.6			771.1	788.8	
Inf. Ac. Ft.											55.1				87.5				1320.2				1529.5	2992.3	
Outf. Ac. Ft.												1.0				141.6				1266.7			1564.6	2973.9	
Maximum Mean Daily Inflow											25.2				15.5				80.9				82.2	82.2	
Minimum Mean Daily Inflow											0				0				0				0	0	
Storage Change											+54.2				-54.2				+53.5			-35.1		+18.4	

REMARKS *-Indicates computed losses & include percolation. Other outflows show combined Channel discharge & Gate discharge & do not include percolation. 1/2 Year

Max. W. S. Elev.	1151.65 feet on 3-25-37 Storage 110.9 Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS			
Min. W. S. Elev.	Dry feet on Various Times Storage 0 Acre Feet		Dam Tender	Gage Hts. copied	H.A.V.	Checked	MR
Max. Peak Inf.	82.2 C.F.S. from Mean Daily on 3-17-37 to on	R. P. Dalton	Hydrographer	Storage applied	H.A.V.	Checked	MR
Max. Peak Outf.	1664.0 C.F.S. from @ 7.53 AM on 3-27-37 to on	H.A.VanderGoot	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked	J.A.H.
Gage Hts. & Storage as of midnight on day shown. / Mean for period.				Date			

NOTE: The inflow into the diversion dam is necessarily less than shown by the U.S.G.S. Station due to high percolation rates in the gravel pit below the U.S.G.S. gaging station Inflows are computed with no allowance for percolation in the reservoir. Tests, under saturated conditions show this percolation rate to be from 2.0 to 5.0 c.f.s.

F. C. Dist. Form ■ 100 1/37

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

Daily Gage Height in feet and Operation Record of Puddingstone Diversion Dam

In San Dimas Creek for the Year Ending September 30, 19 37

Drainage Area 2.57 Square Miles. Capacity of Reservoir 121.2 Ac. Ft. at Spillway Elev. 1152.5 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1139.1	18.4	1.0	‡ 1.0	1138.3	15.4	0	* 0.2																	1
2	1139.1	18.4	1.0	‡ 1.0	1138.2	15.1	0	* 0.2																	2
3	1139.0	18.0	0.6	‡ 0.8	1138.1	14.8	0	* 0.1																	3
4	1139.0	18.0	0.6	‡ 0.6	1138.0	14.5	0	* 0.2																	4
5	1139.0	18.0	0.5	‡ 0.5	1137.9	14.1	0	* 0.2																	5
6	1143.0	36.6	11.8	1.5	1137.8	13.8	0	* 0.1																	6
7	1146.1	57.2	43.8	41.4	1137.7	13.5	0	* 0.2																	7
8	1145.8	55.0	47.5	48.6	1137.5	12.9	0	* 0.2																	8
9	1145.8	55.0	30.6	30.6	1137.4	12.6	0	* 0.2																	9
10	1145.8	55.0	30.1	30.1	1137.3	12.2	0	* 0.2																	10
11	1145.8	55.0	30.1	30.1	1137.2	12.0	0	* 0.1																	11
12	1144.0	42.6	12.9	19.2	1137.1	11.7	0	* 0.2																	12
13	1140.6	24.6	2.4	11.5	1137.0	11.4	0	* 0.1																	13
14	1139.1	18.4	0.7	3.8	1136.9	11.1	0	* 0.2																	14
15	1139.0	18.0	‡ 0.6	0.8	1136.7	10.6	0	* 0.2	Dry				Dry				Dry				Dry				15
16	1139.0	18.0	‡ 0.5	0.5	1136.6	10.3	0	* 0.2																	16
17	1139.0	18.0	‡ 0.4	0.4	1136.4	9.8	0	* 0.2																	17
18	1139.0	18.0	‡ 0.3	0.3	1136.2	9.3	0	* 0.3																	18
19	1139.0	18.0	‡ 0.2	0.2	1136.0	8.8	0	* 0.2																	19
20	1139.0	18.0	0.2	‡ 0.2	1135.8	8.3	0	* 0.3																	20
21	1138.9	17.6	0	[0.2	1135.4	7.3	0	* 0.5																	21
22	1138.9	17.6	0	0.1	1134.7	5.9	0	* 0.7																	22
23	1138.8	17.3	0	0.1	1133.6	4.0	0	* 0.9																	23
24	1138.8	17.3	0	0.1	1132.5	2.5	0	* 0.8																	24
25	1138.7	16.9	0	*< 0.1	1131.4	1.4	0	* 0.6																	25
26	1138.6	16.5	0	0.1	1130.3	0.6	0	* 0.4																	26
27	1138.6	16.5	0	0.1	Dry	0	0	* 0.3																	27
28	1138.6	16.5	0	0.1	Dry	0	0	0																	28
29	1138.5	16.2	0	0.1	Dry	0	0	0																	29
30	1138.4	15.8	0	0.1	Dry	0	0	0																	30
31					Dry	0	0	0																	31
TOTAL			222.9	224.3			0	8.0																	
Inf. Ac. Ft.			442.1				0																3434.4		
Outf. Ac. Ft.				444.7				15.8															3438.4		
Maximum Mean Daily Inflow			47.5				0																82.2		
Minimum Mean Daily Inflow			0				0																0		
Storage Change			-2.6				-15.8																0		

REMARKS 1 = Interpolated ‡ = Mean for period. * indicates computed losses and includes percolation. Year

Max. W. S. Elev.	1151.65 feet on 3-25-37 Storage 110.9 Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS			
Min. W. S. Elev.	Dry feet on Various Times Storage 0 Acre Feet		Dam Tender	Gage Hts. copied	H.A.V.	Checked	M.R.
Max. Peak Inf.	82.2 C.F.S. from Mean Daily on 3-17-37 to on	R.P. Dalton	Hydrographer	Storage applied	H.A.V.	Checked	M.R.
Max. Peak Outf.	1664.0 C.F.S. from @ 7.53 A.M. on 3-27-37 to on	H.A. Van der Goot	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked	J.A.H.
Gage Hts & Storage as of Midnight on day shown.				Date			

F. C. Dist. Form 66 100 1/37

Storages prior to Mar. 2, 1938 based on L.A.C.F.C.D. Survey of June, 1936.
Storages on and following Mar. 2, 1938; based on L.A.C.F.C.D. Survey of Mar. 11, 1938.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam — File No.

In SAN DIMAS CREEK On — for the Year Ending September 30, 1938

Drainage Area 2.57 Square Miles. Capacity of Reservoir 3-1-38: 121.2 3-2-38: 50.1 Ac. Ft. at Spillway Elev. 1152.5 Ft.

Continuous Water Stage Recorder H.C.F.

Gage Heights Read at various times

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	Day
1														0	0	0		0	0	0	1146.8	62.8	257.3	256.5	1
2														0	0	0		0	0	0	1149.2	* 23.0	1621.0	1610.2	2
3														0	0	0		0	0	0	1147.3	13.5	1006.8	1011.5	3
4														0	0	0		0	0	0	1147.2	13.1	414.2	414.5	4
5														0	0	0		0	0	0	1146.4	10.4	258.0	259.3	5
6														0	0	0		0	0	0	1146.3	10.1	129.6	129.6	6
7														0	0	0		0	0	0	1146.1	9.4	117.7	118.0	7
8														0	0	0		0	0	0	1146.0	9.1	79.7	79.9	8
9														0	0	0		0	0	0	1146.0	9.1	72.1	72.1	9
10														0	0	0		0	0	0	1145.7	8.4	44.3	44.6	10
11														0	0	0		0	0	0	1150.8	34.5	E 37.0	23.9	11
12														0	0	0	1139.6	20.4	10.3	0	1150.4	31.4	E 76.0	77.5	12
13														0	0	0	1142.8	35.5	10.0	2.4	1147.2	13.1	E 109.0	113.3	13
14														0	0	0	1144.2	43.8	9.2	5.0	1146.7	11.3	E 128.1	129.0	14
15		D	R	Y		D	R	Y		D	R	Y		0	0	0	1143.6	40.1	3.2	5.1	1146.1	10.1	113.6	113.2	15
16														0	0	0	1143.5	39.5	4.7	5.0	1146.4	10.4	66.4	66.2	16
17														0	0	0	1143.5	39.5	5.0	5.0	1145.6	8.1	61.2	62.1	17
18														0	0	0	1143.7	40.7	4.4	3.8	1146.2	9.7	27.4	26.6	18
19														0	0	0	1143.5	39.5	1.2	1.8	1146.6	11.0	71.2	70.5	19
20														0	0	0	1140.9	25.9	0	L 6.8	1146.2	9.7	56.8	57.5	20
21													1133.5	16.2	8.2	0	1139.0	18.0	0	L 4.0	1146.2	9.7	46.7	46.7	21
22													1137.1	11.7	-	L 2.3	1138.4	15.8	0	L 1.1	1146.2	9.7	46.2	46.2	22
23													1136.0	8.8	-	L 1.5	1137.8	13.8	0	L 1.0	1146.1	9.4	42.1	42.2	23
24														0	-	L 4.4	1137.3	12.2	0	L 0.8	1146.1	9.4	39.0	39.0	24
25														0	0	0	1136.8	10.9	0	L 0.7	1146.1	9.4	39.4	39.4	25
26														0	0	0	1136.1	9.0	0	L 1.0	1146.1	9.4	38.1	38.1	26
27														0	0	0	1138.3	15.4	3.3	0	1145.9	8.9	31.9	32.2	27
28														0	0	0	1146.6	61.2	76.6	53.5	1145.9	8.9	27.3	27.3	28
29														0	0	0					1145.9	8.9	27.3	27.3	29
30														0	0	0					1145.9	8.9	27.4	27.4	30
31														0	0	0					1145.9	8.9	27.2	27.2	31
TOTAL															8.2	8.2			127.9	97.0			5136.8	5132.2	
Inf. Ac. Ft.			-				-				-				16.3				253.7				10188.7	10450.6	
Outf. Ac. Ft.			-				-				-				16.3				192.4				10179.8	10380.4	
Maximum Mean Daily Inflow			-				-				-				8.2				76.6				1621.0	1621.0	
Minimum Mean Daily Inflow			-				-				-				0				0				27.2	0	
Storage Change			-				-				-				0				+61.2				-52.3+61.3A.F. debris	+8.9+61.3 debris	

REMARKS *Beginning 3-2-38 storages are corrected for debris loss. L = Loss as indicated by storage change and includes percolation. E = estimated. Year debris

Max. W. S. Elev.	1154.55	feet on 3-2-38	Storage	148.6	Acre Feet		
Min. W. S. Elev.	DRY	feet on Various Times	Storage	0	Acre Feet		
Max. Peak Inf.	5756.	C.F.S. from 5:25 P.M. on 3-2-38	to 5:40 P.M. on	3-2-38			
Max. Peak Outf. Chan. 3730	Spil. 2050.	C.F.S. from 5:25 P.M. on 3-2-38	to 5:40 P.M. on	3-2-38			

Gage Hts. and Storages as of midnight on day shown.

Estimated Flows are based on discharges from San Dimas Dam with allowances for diversions by San Dimas Water Co.

RECORDS COLLECTED BY

L. M. Keiser	Dam Tender	Gage Hts. copied	T. M.	Checked	J.A.H.
H. A. Van der Goot	Hydrographer	Storage applied	T. M.	Checked	J.A.H.
R. P. Dalton	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked	J.A.H.
		Date	1-20-39		

SECOND 6 MONTHS

F. C. Dist. Form 66 100 1/37

Storages based on L.A.C.F.C.D. Survey of Mar. 11, 1938

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam — File No.

In SAN DIMAS CREEK On — for the Year Ending September 30, 1938

Drainage Area 2.57 Square Miles. Capacity of Reservoir 3-1-38: 121.2 3-2-38: 50.1 Ac. Ft. at Spillway Elev. 1152.5 Ft.

Continuous Water Stage Recorder H.C.F.

Gage Heights Read at various times

Day	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1145.8	8.6	23.4	23.6	1140.2	0.4	E 5.0	5.6	1141.6	1.4	0	L 0.1	1138.3	-	0	0	DRY	0	0	0	DRY	0	0	0	1
2	1141.9	1.7	21.3	24.7	1141.3	1.2	E 5.0	4.6	1141.5	1.4	0	0	1137.7	0	0	0	"	0	0	0	"	0	0	0	2
3	1144.1	5.0	20.4	18.8	1139.5	0.2	E 5.0	5.5	1141.4	1.3	0	0	1137.7	0	0	0	"	0	0	0	"	0	0	0	3
4	1144.3	5.4	20.3	20.1	1139.4	0.2	E 5.0	5.0	1141.3	1.2	0	L 0.1	DRY	0	0	0	"	0	0	0	"	0	0	0	4
5	1144.1	5.0	20.5	20.7	1139.3	0.1	E 5.0	5.0	1141.2	1.1	0	0	"	0	0	0	"	0	0	0	"	0	0	0	5
6	1143.9	4.6	20.2	20.4	1139.0	0	E 3.0	3.1	1141.2	1.1	0	0	"	0	0	0	"	0	0	0	1138.6	-	0	0	6
7	1143.6	4.1	19.9	20.1	1138.8	0	0	0	1141.1	1.0	0	L 0.1	"	0	0	0	"	0	0	0	1139.0	0.1	0.1	0	7
8	1144.2	5.2	19.8	19.3	1138.7	0	0	0	1141.0	0.9	0	0	"	0	0	0	"	0	0	0	1140.6	0.7	E 1.3	1.0	8
9	1144.4	5.5	19.8	19.6	1138.6	0	0	0	1140.9	0.8	0	L 0.1	"	0	0	0	"	0	0	0	1142.1	1.9	E 1.8	1.2	9
10	1144.1	5.0	19.7	20.0	1138.7	0	0	0	1140.9	0.8	0	0	"	0	0	0	"	0	0	0	1143.0	3.1	E 2.2	1.6	10
11	1144.1	5.0	19.6	19.6	1137.6	-	0	0	1140.8	0.8	0	0	"	0	0	0	"	0	0	0	1143.6	4.1	E 2.0	1.5	11
12	1143.8	4.5	18.9	19.1	DRY	0	0	0	1140.7	0.7	0	0	"	0	0	0	"	0	0	0	1144.1	5.0	E 1.0	0.6	12
13	1139.2	0.1	8.2	10.4	"	0	0	0	1140.6	0.7	0	0	"	0	0	0	"	0	0	0	1144.6	5.9	E 1.9	1.4	13
14	1139.2	0.1	1.0	E 1.0	"	0	0	0	1140.5	0.6	0	L 0.1	"	0	0	0	"	0	0	0	1145.1	6.9	F 1.3	0.8	14
15	1139.0	-	0.4	E 0.5	"	0	0	0	1140.4	0.5	0	0	"	0	0	0	"	0	0	0	1139.6	0.2	F 6.7	10.1	15
16	1138.9		0	0	"	0	0	0	1140.4	0.5	0	0	"	0	0	0	"	0	0	0	1139.8	-0.3	F 12.6	12.5	16
17	1138.9		0	0	"	0	0	0	1140.3	0.5	0	0	"	0	0	0	"	0	0	0	1139.8	0.3	F 13.8	13.8	17
18	1138.8		0	0	"	0	0	0	1140.2	0.4	0	L 0.1	"	0	0	0	"	0	0	0	1139.8	0.3	E 9.6	9.6	18
19	1138.8		0	0	"	0	0	0	1140.1	0.4	0	0	"	0	0	0	"	0	0	0	1144.1	5.0	E 5.1	2.8	19
20	1138.7		0	0	"	0	0	0	1140.1	0.4	0	0	"	0	0	0	"	0	0	0	1145.5	7.9	3.2	E 1.7	20
21	1138.7		0	0	"	0	0	0	1140.0	0.3	0	0	"	0	0	0	"	0	0	0	1145.5	7.9	1.7	E 1.7	21
22	1138.6		0	0	"	0	0	0	1139.9	0.3	0	0	"	0	0	0	"	0	0	0	1145.6	8.1	E 1.8	1.7	22
23	1138.4		0	0	"	0	0	0	1139.8	0.3	0	0	"	0	0	0	"	0	0	0	1145.6	8.1	E 1.8	1.8	23
24	1138.7		0	0	"	0	0	0	1138.9		0	L 0.2	"	0	0	0	"	0	0	0	1145.5+	8.0	E 1.8	1.9	24
25	1138.9		0	0	"	0	0	0	1138.9		0	0	"	0	0	0	"	0	0	0	1145.5+	8.0	E 1.8	1.8	25
26	1139.0		0	0	"	0	0	0	1138.8		0	0	"	0	0	0	"	0	0	0	1145.5+	8.0	E 1.8	1.8	26
27	1139.0	-	0	0	DRY	0	0	0	1138.7		0	0	"	0	0	0	"	0	0	0	1145.5+	8.0	E 1.8	1.8	27
28	1139.0	0.2	E 2.3	2.2	1141.8	1.6	0.8	0	1138.7		0	0	"	0	0	0	"	0	0	0	1145.5+	8.0	E 1.8	1.8	28
29	1141.3	1.2	E 5.0	4.5	1141.8	1.6	0	0	1138.6		0	0	"	0	0	0	"	0	0	0	1145.5+	8.0	E 1.8	1.8	29
30	1141.7	1.5	E 5.0	4.8	1141.7	1.5	0	0	1138.5		0	0	"	0	0	0	"	0	0	0	1145.5+	8.0	E 1.8	1.8	30
31	-	-	-	-	1141.7	1.5	0	0	-	-	-	-	DRY	0	0	0	DRY	0	0	0	-	-	-	-	31
TOTAL			265.7	269.4			28.8	28.8			0	0.8			0	0			0	0			80.5	76.5	
Inf. Ac. Ft.			527.0				57.1				0				0				0				159.7	11194.4	
Outf. Ac. Ft.			534.3				57.1				1.6				0				0				151.7	11125.1	
Maximum Mean Daily Inflow			23.4				5.0				0				0				0				13.8	1621	
Minimum Mean Daily Inflow			0				0				0				0				0				0	0	
Storage Change			-7.4				0				-1.5				0				0				0	+8.0+61.3A.F.	

REMARKS L = Loss as indicated by storage change & includes percolation E = estimated Year debris

Max. W. S. Elev.	1154.55	feet on 3-2-38	Storage	148.6	Acre Feet		
Min. W. S. Elev.	DRY	feet on various times	Storage	0	Acre Feet		
Max. Peak Inf.	5756.	C.F.S. from 5:25 P.M. on 3-2-38	to 5:40 P.M. on	3-2-38			
Max. Peak Outf. Chan. 3730	Spil. 2050.	C.F.S. from 5:25 P.M. on 3-2-38	to 5:40 P.M. on	3-2-38			

Gage Hts. and Storages as of midnight on day shown.

RECORDS COLLECTED BY

L. M. Keiser	Dam Tender	Gage Hts. copied	H.A.V.	Checked	J.A.H.
H. A. van der Goot	Hydrographer	Storage applied	H.A.V.	Checked	J.A.H.
R. P. Dalton	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked	J.A.H.
		Date	1-20-39		

SECOND 6 MONTHS

F. C. Dist. Form 86 100 1/37

Storages based on U.S. Forest Service Survey of December, 1935.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In SAN DIMAS CANYON for the Year Ending September 30, 19 37

File No.

Continuous Water Stage Recorder All

Drainage Area 15.92 Square Miles. Capacity of Reservoir 1,372.9 Ac. Ft. at Spillway Elev. 1462.0 Ft. Gage Heights Read daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	Day
1	1393.5	32.3	0		1393.2	31.0	0		1392.7	28.9	0		1422.2	302.9	17.1	37.3	1434.3	536.4	9.9	0	1444.7	802.3	16.2	20.3	1
2	1393.5	32.3	0		1393.2	31.0	0		1392.6	28.5	0		1418.7	250.3	9.7	36.2	1435.0	551.7	7.7	0	1444.4	794.2	16.2	20.3	2
3	1393.5	32.3	0		1393.2	31.0	0		1392.6	28.5	0		1414.8	198.6	6.5	32.5	1435.6	566.4	7.5	0	1444.2	788.7	14.6	17.4	3
4	1393.5	32.3	0		1393.1	30.6	0		1392.5	28.1	0		1415.7	210.2	5.8	0	1436.1	578.7	6.2	0	1445.0	810.5	11.0	0	4
5	1393.5	32.3	0		1393.1	30.6	0		1392.5	28.1	0		1416.8	224.9	7.4	0	1436.7	593.4	7.4	0	1444.3	791.4	10.5	20.1	5
6	1393.5	32.3	0		1393.1	30.6	0		1392.4	27.7	0		1418.8	251.6	13.5	0	1444.3	791.4	106.0	6.2	1439.7	667.0	15.1	77.8	6
7	1393.4	31.8	0		1393.1	30.6	0		1392.4	27.7	0		1420.1	269.3	8.9	0	1444.3	791.4	114.5	114.5	1434.6	542.9	13.4	76.0	7
8	1393.4	31.8	0		1393.1	30.6	0		1392.4	27.7	0		1421.0	283.7	7.3	0	1441.5	715.2	54.2	92.6	1431.2	468.6	14.3	51.8	8
9	1393.4	31.8	0		1393.0	30.2	0		1392.4	27.7	0		1421.7	294.9	5.6	0	1439.6	664.6	36.9	62.4	1432.0	486.1	8.9	0	9
10	1393.4	31.8	0		1393.0	30.2	0		1392.3	27.3	0		1422.4	306.1	5.6	0	1439.4	659.7	24.0	26.5	1432.9	505.8	9.9	0	10
11	1393.3	31.4	0		1393.0	30.2	0		1392.3	27.3	0		1422.9	314.1	4.1	0	1438.9	647.4	20.2	26.4	1433.7	523.3	8.8	0	11
12	1393.3	31.4	0		1393.0	30.2	0		1392.3	27.3	0		1423.7	326.9	6.4	0	1438.2	630.2	17.6	26.3	1436.1	578.7	27.9	0	12
13	1393.3	31.4	0		1392.9	29.8	0		1392.3	27.3	0		1424.4	338.1	5.7	0	1438.5	637.6	30.1	26.3	1445.6	828.9	126.0	0	13
14	1393.3	31.4	0		1392.9	29.8	0		1392.3	27.3	0	* 0.8	1425.0	347.7	4.8	0	1445.3	819.5	154.0	62.3	1448.9	927.6	49.9	0	14
15	1393.3	31.4	0		1392.9	29.8	0		1392.5	32.3	2.5	0	1425.5	357.9	4.9	0	1444.8	805.1	81.3	88.6	1459.1	1028.9	51.1	0	15
16	1393.3	31.4	0		1392.9	29.8	0		1395.0	38.5	3.1	0	1426.0	366.6	4.7	0	1442.6	745.2	57.4	87.6	1453.5	1074.4	53.7	30.8	16
17	1393.3	31.4	0		1392.9	29.8	0		1395.5	41.3	1.5	0	1426.4	374.2	3.9	0	1439.5	662.1	44.0	85.9	1450.6	980.1	49.9	97.4	17
18	1393.3	31.4	0		1392.9	29.8	0		1395.8	42.9	0.8	0	1426.8	381.8	3.8	0	1436.7	593.4	36.0	70.6	1447.3	879.5	44.8	95.5	18
19	1393.3	31.4	0		1392.9	29.8	0		1396.1	44.6	0.8	0	1427.2	389.3	3.8	0	1436.7	593.4	30.4	30.4	1443.8	777.8	41.9	93.2	19
20	1393.3	31.4	0		1392.9	29.8	0		1396.4	46.2	0.8	0	1427.5	395.0	2.9	0	1437.2	605.7	26.5	20.3	1442.2	734.3	38.3	60.2	20
21	1393.3	31.4	0		1392.9	29.8	0		1396.6	47.3	0.6	0	1427.8	400.7	2.8	0	1438.9	647.4	21.0	0	1441.6	718.0	33.1	41.3	21
22	1393.3	31.4	0		1392.9	29.8	0		1396.9	49.0	0.8	0	1428.1	406.4	2.9	0	1440.4	685.3	19.1	0	1441.9	726.1	45.3	41.3	22
23	1393.3	31.4	0		1392.9	29.8	0		1397.1	50.1	0.6	0	1428.4	412.0	2.8	0	1441.7	720.7	17.8	0	1441.7	720.7	38.6	41.3	23
24	1393.2	31.0	0		1392.8	29.3	0		1397.3	51.2	0.5	0	1428.7	417.7	2.9	0	1443.1	758.8	19.3	0	1441.5	715.2	38.5	41.2	24
25	1393.2	31.0	0		1392.8	29.3	0		1397.8	53.9	1.4	0	1428.9	421.5	1.9	0	1444.7	802.3	21.9	0	1440.8	696.2	36.4	50.0	25
26	1393.2	31.0	0		1392.8	29.3	0		1398.2	56.1	1.1	0	1429.2	427.2	2.9	0	1445.3	819.5	18.9	10.2	1443.3	764.2	34.3	0	26
27	1393.2	31.0	0		1392.8	29.3	0		1404.1	94.9	19.6	0	1429.4	430.9	1.9	0	1445.2	816.5	18.8	20.4	1440.4	685.3	35.4	75.2	27
28	1393.2	31.0	0		1392.7	28.9	0		1409.0	136.8	21.1	0	1429.7	436.6	2.8	0	1445.0	810.5	17.4	20.4	1440.4	685.3	34.7	34.7	28
29	1393.2	31.0	0		1392.7	28.9	0		1410.5	151.2	7.3	0	1430.3	448.9	6.2	0					1442.6	745.2	30.2	0	29
30	1393.2	31.0	0		1392.7	28.9	0		1417.0	227.6	38.5	0	1431.9	483.9	17.7	0					1444.5	796.8	26.0	0	30
31	1393.2	31.0	0						1424.7	342.9	91.7	33.6	1433.4	516.7	16.5	0					1446.4	849.5	26.6	0	31
TOTAL				*0.7				* 1.1			192.7	34.4			193.6	106.0			1026.0	877.9			1008.6	985.8	
Inf. Ac. Ft.			0				0				382.2				384.0				2035.1				1994.4	4795.7	
Outf. Ac. Ft.			1.4				2.2					68.2				210.2				1741.3			1958.3	3978.8	
Maximum Mean Daily Inflow			0				0				91.7				17.7					154.0			126.0	154.0	
Minimum Mean Daily Inflow			0				0				0				1.9					6.2			8.8	0	
Storage Change			-1.3				-2.1				+ 314.0				+ 173.8					+ 293.8			+39.0	-817.2	

REMARKS *Indicates accumulated losses due to evaporation, percolation & leakage

Year

Max. W. S. Elev.	1460.1	feet on 5/30 to 6/7/37	Storage 1301.3	Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS
Min. W. S. Elev.	1392.3	feet on 12/10-14/37	Storage 27.3	Acre Feet	G. W. Rodgers	Dam Tender	Gage Hts. copied H.A.V. Checked MR
Max. Peak Inf.	296.4	C.F.S. from 7:00 P.M. on 2-6-37	to 8:00 P.M. on 2-6-37		R. P. Dalton	Hydrographer	Storage applied H.A.V. Checked MR
Max. Peak Outf.	127.0	C.F.S. from 10:30 A.M. on 2-7-37	to 8:00 A.M. on 2-8-37		H. A. Van der Goot	Hydrographer	Inf. & Outf. computed H.A.V. Checked MR
							Date 10-6-37

Gage Heights & Storage as of midnight on day shown

F. C. Dist. Form 86 100 1/37

Storages based on U. S. Forest Service Survey of Dec. 1935.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In SAN DIMAS CANYON for the Year Ending September 30, 1937

File No.

Continuous Water Stage Recorder All

Drainage Area 15.92 Square Miles. Capacity of Reservoir 1,372.9 Ac. Ft. at Spillway Elev. 1462.0 Ft. Gage Heights Read Daily

Day	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1447.9	897.6	24.3	0	1454.4	1103.7	8.2	0	1460.1	1301.3	4.0	4.0	1456.1	1161.5	(1.2	6.5	1446.3	849.5	(0.4	5.5	1434.0	529.8	(0.3	5.3	1
2	1449.5	945.6	24.2	0	1454.8	1116.7	6.6	0	1460.1	1301.3	4.0	4.0	1455.8	1151.1	(1.2	6.5	1446.0	840.5	(0.4	5.5	1433.6	521.1	(0.3	5.4	2
3	1451.1	996.4	25.6	0	1455.2	1130.2	6.8	0	1460.1	1301.3	4.0	4.0	1455.5	1140.6	(1.2	6.5	1445.6	828.5	(0.4	5.5	1433.2	512.3	(0.3	5.4	3
4	1452.4	1038.6	21.2	0	1455.6	1144.1	8.3	1.3	1460.1	1301.3	4.0	4.0	1455.3	1133.7	(1.2	6.4	1445.3	819.5	(0.4	5.5	1432.8	503.6	(0.3	5.4	4
5	1453.7	1080.9	21.4	0	1455.9	1154.6	7.9	2.6	1460.1	1301.3	4.0	4.0	1454.9	1119.9	(1.2	6.4	1444.9	807.8	(0.4	5.6	1432.2	494.9	(0.3	5.4	5
6	1453.9	1087.4	18.6	15.4	1456.1	1161.5	6.5	3.0	1460.1	1301.3	4.0	4.0	1454.6	1110.2	(1.1	6.6	1444.5	796.8	(0.4	5.6	1431.7	479.5	(0.3	5.5	6
7	1450.4	973.6	21.3	73.6	1456.3	1168.5	6.5	3.0	1460.1	1301.3	4.0	4.4	1454.3	1100.4	(1.1	6.6	1444.2	788.7	(0.4	5.6	1431.2	468.6	(0.3	5.5	7
8	1447.1	873.5	22.8	73.3	1456.5	1175.5	6.5	3.0	1460.0	1297.5	3.9	5.0	1453.9	1087.4	(1.1	6.7	1443.8	777.8	(0.4	5.6	1430.3	459.8	(0.3	5.5	8
9	1445.1	813.5	21.7	51.9	1456.7	1182.5	6.5	3.0	1460.0	1297.5	3.9	5.0	1453.6	1077.7	(1.1	6.7	1443.4	766.9	(0.4	5.6	1430.3	443.9	(0.3	5.6	9
10	1442.9	753.3	20.5	50.9	1456.9	1189.4	6.5	3.0	1459.9	1294.0	3.9	5.0	1453.2	1064.7	(1.0	6.6	1443.0	756.1	(0.4	5.6	1429.8	438.5	(0.3	5.6	10
11	1440.7	693.5	19.9	50.0	1457.2	1199.9	8.3	3.0	1459.9	1294.0	(3.6	5.0	1452.9	1054.9	(1.0	5.9	1442.6	745.2	(0.4	5.9	1429.2	427.2	(0.3	5.6	11
12	1440.7	693.5	18.6	18.6	1457.5	1210.4	7.3	2.0	1459.8	1290.5	(3.6	5.0	1452.6	1045.2	(1.0	5.9	1442.2	734.3	(0.4	5.9	1428.7	417.7	(0.3	5.6	12
13	1441.8	723.4	15.0	0	1457.7	1217.3	5.2	1.7	1459.7	1287.0	(3.6	5.0	1452.3	1035.4	(1.0	5.9	1441.8	723.4	(0.4	5.9	1428.2	408.2	(0.3	5.6	13
14	1442.9	753.3	15.1	0	1457.9	1224.3	5.2	1.8	1459.6	1283.6	(3.6	5.0	1452.0	1025.6	(1.0	5.9	1441.4	712.5	(0.4	5.9	1427.6	396.9	(0.3	5.7	14
15	1443.9	730.6	13.8	0	1458.1	1231.3	5.2	1.8	1459.5	1280.1	(3.6	5.0	1451.7	1015.9	(0.9	5.8	1441.0	701.6	(0.4	5.9	1427.0	385.5	(0.3	5.7	15
16	1444.8	805.1	12.3	0	1458.3	1238.2	4.3	1.8	1459.4	1276.6	(2.6	5.0	1451.4	1006.1	(0.9	5.8	1440.6	690.7	(0.4	5.4	1426.4	374.2	(0.3	5.8	16
17	1445.6	828.5	11.8	0	1458.4	1241.7	4.3	1.8	1459.3	1273.1	(2.6	5.0	1451.1	996.4	(0.9	5.8	1440.2	679.8	(0.4	5.4	1425.8	362.8	(0.3	5.8	17
18	1446.4	852.5	12.1	0	1458.6	1248.7	4.3	1.8	1459.1	1266.1	(2.5	5.0	1450.8	986.6	(0.8	5.8	1439.9	671.9	(0.4	5.4	1425.2	351.5	(0.3	5.8	18
19	1447.2	876.5	12.1	0	1458.7	1252.2	4.3	1.8	1459.0	1262.6	(2.5	5.0	1450.5	976.9	(0.7	5.5	1439.5	662.1	(0.4	5.3	1424.5	339.7	(0.3	5.8	19
20	1447.9	897.6	10.7	0	1458.8	1255.7	4.2	1.8	1458.8	1255.7	(2.5	5.0	1450.2	967.1	(0.7	5.4	1439.1	652.3	(0.4	5.5	1423.8	328.5	(0.3	5.8	20
21	1448.6	918.6	10.5	0	1458.9	1259.2	4.0	1.8	1458.6	1248.7	(2.2	5.7	1449.9	957.6	(0.6	5.4	1438.7	642.5	(0.4	5.5	1423.1	317.3	(0.3	5.8	21
22	1449.3	939.6	10.6	0	1459.0	1262.6	4.0	1.8	1458.4	1241.7	(2.0	5.5	1449.6	948.6	(0.6	5.4	1438.2	630.2	(0.4	5.5	1422.4	306.1	(0.3	5.8	22
23	1450.0	960.6	10.6	0	1459.2	1269.6	4.0	1.8	1458.2	1234.8	(1.8	5.3	1449.3	939.6	(0.5	5.5	1437.8	620.4	(0.3	5.5	1421.7	294.9	(0.3	5.8	23
24	1450.6	980.1	9.8	0	1459.3	1273.1	3.9	1.8	1458.0	1227.8	(1.6	6.0	1449.0	930.6	(0.5	5.5	1437.4	610.6	(0.3	5.5	1421.0	283.7	(0.3	5.8	24
25	1451.2	999.6	9.9	0	1459.5	1280.1	(5.2	(2.5	1457.7	1217.3	(1.6	6.0	1448.6	918.6	(0.5	5.5	1437.0	600.8	(0.3	5.5	1420.3	272.5	(0.3	5.8	25
26	1451.8	1019.1	9.8	0	1459.7	1287.0	(5.2	(2.5	1457.5	1210.4	(1.3	6.0	1448.3	909.6	(0.5	5.5	1436.6	591.0	(0.3	5.4	1219.6	262.3	(0.3	5.8	26
27	1452.4	1038.6	9.8	0	1459.8	1290.5	(5.2	(2.6	1457.2	1199.9	(1.3	6.0	1448.0	900.6	(0.4	5.5	1436.2	581.1	(0.3	5.4	1418.8	251.6	(0.3	5.8	27
28	1452.9	1054.9	8.3	0	1459.9	1294.0	(5.2	(2.6	1456.9	1189.4	(1.3	6.0	1447.6	883.6	(0.4	5.5	1435.8	571.3	(0.3	5.3	1418.1	242.3	(0.3	5.8	28
29	1453.4	1071.2	8.2	0	1460.0	1297.5	(5.2	(4.0	1456.7	1182.5	(1.3	5.7	1447.3	879.5	(0.4	5.5	1435.3	559.1	(0.3	5.3	1417.4	232.9	(0.4	(5.8	29
30	1453.9	1087.4	8.2	0	1460.1	1301.3	(5.2	(4.0	1456.4	1172.0	(1.3	5.7	1447.0	870.5	(0.4	5.5	1434.9	549.5	(0.3	5.3	1416.6	222.2	(0.4	(5.8	30
31					1460.1	1301.3	(5.2	(4.0					1446.6	858.5	(0.4	5.5	1434.5	540.8	(0.3	5.3					31
TOTAL			458.7	338.7			175.4	67.6			86.1	151.3			25.4	183.5			11.5	171.6			9.2	169.8	
Inf. Ac. Ft.			909.8				347.9				170.8				50.4				22.8				18.2	6315.6	
Outf. Ac. Ft.				671.8				134.1				300.1				364.0				340.4			336.8	6125.8	
Maximum Mean Daily Inflow			25.6				8.3				4.0				1.2				0.4				0.4	154.0	
Minimum Mean Daily Inflow			8.1				3.9				1.3				0.4				0.3				0.3	0	
Storage Change			+237.9				+213.9				-129.3				-313.5				-317.7	+			-318.6	+139.9	

REMARKS i = interpolated (= mean for period *interpolated between measurements @ U.S.G.S. station

Year

Max. W. S. Elev.	1460.1	feet on 5/30 to 6/7/37	Storage 1301.3	Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS
Min. W. S. Elev.	1392.3	feet on 12/10 - 14/37	Storage 27.3	Acre Feet	G. W. Rodgers	Dam Tender	Gage Hts. copied HAV Checked MMR
Max. Peak Inf.	296.4	C.F.S. from 7:00 P.M. on 2-6-37	to 8:00 P.M. on 2-6-37		R. P. Dalton	Hydrographer	Storage applied HAV Checked MMR
Max. Peak Outf.	127.0	C.F.S. from 10:30 A.M. on 2-7-37	to 8:00 A.M. on 2-8-37		H. A. Van der Goot	Hydrographer	Inf. & Outf. computed HAV Checked MMR
							Date 11/23/37

Gage Heights and storage as of midnight on day shown

F. C. Dist. Form 89 186 1/37

Storages based on U. S. Forest Service Survey of Dec.1935 and corrected for debris loss following Mar. 2, 1938 storm.

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

In / On San Dimas Canyon for the Year Ending September 30, 19 38

3-1-38 3-2-38

Drainage Area 15.92 Square Miles. Capacity of Reservoir 1372.9 1155.1 Ac. Ft. at Spillway Elev. 1462.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1416.1	215.5	E 0.4	3.8	1397.7	53.4	0.7	i 0.8	1397.5	52.3	0.8	0.8	DRY	0	2.2	2.2	1409.3	139.5	15.0	0	1449.3	939.6	344.7	238.4	1
2	1415.6	208.8	i 0.4	3.8	1397.6	52.8	0.7	i 0.8	1397.5	52.3	0.8	0.8	"	0	2.0	2.0	1410.4	150.1	5.4	0	1465.6	*1510.5	1600.6	1312.8	2
3	1415.2	203.5	i 0.4	3.0	1397.6	52.8	0.7	i 0.8	1397.5	52.3	0.8	0.8	"	0	1.8	1.8	1416.0	214.2	32.3	0	1450.5	776.2	430.3	689.3	3
4	1414.8	198.6	i 0.4	2.9	1397.5	52.3	0.7	i 0.8	1397.4	51.7	0.7	0.8	"	0	1.6	1.6	1420.4	274.1	30.2	0	1440.9	528.5	199.6	324.5	4
5	1414.4	194.2	i 0.4	2.6	1397.5	52.3	0.7	i 0.8	1397.4	51.7	0.7	0.8	DRY	0	1.4	1.4	1422.0	299.7	12.9	0	1434.4	407.4	138.9	199.9	5
6	1414.0	189.8	i 0.4	2.6	1397.5	52.3	0.7	i 0.8	1397.4	51.7	0.7	0.8	1382.2	2.3	1.2	0	1423.0	315.7	8.0	0	1433.1	387.1	94.0	104.3	6
7	1413.5	184.3	i 0.4	3.2	1397.5	52.2	0.7	i 0.8	1396.8	48.4	E 0.7	2.4	1384.2	4.2	1.2	0	1423.7	326.9	5.7	0	1430.7	361.1	60.7	78.8	7
8	1413.0	178.8	i 0.4	3.2	1397.5	52.3	0.7	i 0.8	1395.2	39.6	E 0.7	5.1	1385.7	6.8	1.2	0	1424.4	338.1	5.6	0	1431.3	359.9	71.6	67.2	8
9	1412.5	173.3	i 0.4	3.2	1397.5	52.3	0.8	i 0.8	1393.6	32.7	E 0.7	4.2	1386.8	9.6	1.2	0	1426.1	368.5	15.4	0	1430.4	346.7	60.4	67.0	9
10	1412.0	167.7	i 0.4	3.2	1397.5	52.2	0.8	M 0.8	1393.1	30.6	2.0	3.0	1387.8	12.1	1.2	0	1427.5	395.0	13.3	0	1431.2	358.5	52.1	46.2	10
11	1411.5	162.2	i 0.5	3.2	1397.5	52.3	0.8	i 0.8	1394.3	35.6	0.2	3.7	1388.7	14.4	1.2	0	1431.6	477.3	41.5	0	1433.0	385.5	50.6	37.0	11
12	1410.9	155.6	i 0.5	3.9	1397.5	52.3	0.8	i 0.8	1394.0	34.3	5.7	6.4	1389.5	16.6	1.0	0	1434.1	552.0	33.6	6.0	1437.7	463.5	115.3	76.0	12
13	1410.1	146.8	i 0.5	4.9	1397.5	52.2	0.8	i 0.8	1390.6	20.2	5.4	12.5	1390.2	18.5	1.0	0	1434.4	598.6	17.8	14.5	1438.8	484.6	119.7	109.0	13
14	1409.1	137.7	i 0.5	5.1	1397.5	52.3	0.8	i 0.8	1384.7	4.7	i 5.1	12.9	1390.9	21.4	4.5	0	1434.6	538.6	14.5	14.5	1435.4	423.5	97.3	128.1	14
15	1408.1	128.8	i 0.5	5.0	1397.5	52.3	0.8	i 0.8	DRY	0	i 4.8	7.2	1398.5	57.8	18.3	0	1434.0	528.8	10.1	14.5	1432.2	373.3	83.5	108.8	15
16	1407.1	119.9	i 0.5	5.0	1397.6	52.8	0.8	i 0.8	"	0	i 4.5	4.5	1400.2	97.4	4.9	0	1433.9	527.6	9.0	10.1	1432.8	382.4	72.2	67.6	16
17	1406.2	111.9	i 0.6	4.9	1397.6	52.8	0.8	i 0.8	"	0	i 4.2	4.2	1401.2	74.4	3.5	0	1433.6	521.1	8.0	11.3	1433.4	391.7	66.0	61.3	17
18	1405.2	103.0	i 0.6	4.8	1397.6	52.8	0.8	i 0.8	"	0	i 3.9	3.9	1402.2	81.5	3.6	0	1433.7	523.3	7.8	6.7	1436.6	443.8	58.3	32.1	18
19	1404.2	95.6	i 0.7	4.5	1397.6	52.8	0.8	i 0.8	"	0	i 3.6	3.6	1403.3	89.2	3.9	0	1434.4	538.6	7.7	0	1434.1	402.6	59.2	80.0	19
20	1403.2	88.5	i 0.7	4.4	1397.6	52.8	0.8	i 0.8	"	0	i 3.3	3.3	1404.0	96.2	2.5	0	1434.9	549.5	5.5	0	1433.0	385.5	55.0	63.6	20
21	1402.1	80.8	i 0.7	4.4	1397.6	52.8	0.8	i 0.8	"	0	i 3.0	3.0	1401.0	73.0	i 2.5	13.1	1435.4	561.5	6.1	0	1432.7	380.9	50.7	53.0	21
22	1401.0	73.0	i 0.7	4.5	1397.6	52.8	0.8	i 0.8	"	0	E 2.8	2.8	1401.7	78.0	2.5	0	1435.9	573.8	6.2	0	1432.0	370.3	47.6	52.9	22
23	1399.8	64.9	i 0.7	4.5	1397.5	52.3	0.8	i 0.8	"	0	4.3 M	4.3	1402.3	82.2	2.1	0	1436.3	583.6	4.9	0	1431.6	364.4	44.2	47.2	23
24	1398.6	58.3	i 0.7	4.4	1397.5	52.3	0.8	M 0.8	"	0	i 4.0	4.0	1402.9	86.4	2.2	0	1436.6	591.0	3.7	0	1431.4	361.4	42.5	44.0	24
25	1397.9	54.5	i 0.7	2.6	1397.5	52.3	0.8	i 0.8	"	0	i 3.7	3.7	1403.5	90.6	2.1	0	1436.9	598.3	3.7	0	1431.1	357.0	41.7	43.9	25
26	1397.8	53.9	i 0.7	1.1	1397.5	52.3	0.8	i 0.8	"	0	i 3.4	3.4	1404.0	94.2	1.8	0	1437.3	608.1	5.0	0	1430.4	346.7	38.3	43.5	26
27	1397.8	53.9	i 0.7	0.7	1397.5	52.3	0.8	i 0.8	"	0	i 3.2	3.2	1404.5	97.7	1.8	0	1437.7	618.0	10.5	5.5	1430.5	348.2	37.2	36.5	27
28	1397.8	53.9	i 0.7	0.7	1397.5	52.3	0.8	i 0.8	"	0	i 3.0	3.0	1404.9	100.5	1.4	0	1442.0	728.8	123.7	67.9	1431.0	355.5	35.5	31.8	28
29	1397.8	53.9	i 0.7	0.7	1397.5	52.3	0.8	i 0.8	"	0	i 2.8	2.8	1405.4	104.8	2.1	0	-	-	-	-	1431.5	382.9	35.7	32.0	29
30	1397.8	53.9	i 0.7	0.7	1397.5	52.3	0.8	i 0.8	"	0	i 2.6	2.6	1405.9	109.2	2.3	0	-	-	-	-	1431.6	384.4	32.8	32.0	30
31	1397.8	53.9	i 0.7	0.7	-	-	-	-	DRY	0	i 2.4	2.4	1406.4	113.7	2.2	0	-	-	-	-	1431.6	384.4	32.0	32.0	31
TOTAL			17.9	102.2			23.2	24.9			90.5	116.9			81.6	26.3			461.1	151.0			4258.2	4340.7	
Inf. Ac. Ft.			34.3				46.0				179.5				161.9				914.6				8465.8	9802.1	
Outf. Ac. Ft.			202.7				47.6				231.8				48.2				299.5				8609.6	9439.4	
Maximum Mean Daily Inflow			0.7				0.8				6.2				18.3				123.7				1600.6	1600.6	
Minimum Mean Daily Inflow			0.4				0.7				0.7				1.0				3.7				32.0	0.4	
Storage Change			-168.3				-1.6				-52.3				+113.7				+615.1				-364.4 + 2c		+122.2* **

REMARKS E=estimated; M=measured; i=interpolated; (=mean for period. *Basin, war.c. storage corrected for debris loss. ** = +220.6 A.F. Debris

Max. W. S. Elev. 1470.35 feet on 3-2-38 Storage 1703.7 Acre Feet

Min. W. S. Elev. DRY feet on Various times Storage 0 Acre Feet

Max. Pink Inf. 4919 C.F.S. from 3:10 P.M. on 3-2-38 to 3:15 P.M. on 3-2-38

Max. Peak Outf. 4689 C.F.S. from 5:00 P.M. on 3-2-38 to 5:15 P.M. on 3-2-38

Gage heights and storages as of midnight on date shown

RECORDS COLLECTED BY

G. W. Rodgers	Dam Tender	Gage Hts. copied	T.F.M. Checked C.C.G.
H. P. Dalton	Hydrographer	Storage applied	T.F.M. Checked C.C.G.
H. A. van der Goot	Hydrographer	Inf. & Outf. computed	H.A.V. Checked J.A.H.
		Date	1-23-38

SECOND 6 MONTHS

F. C. Dist. Form 89 100 1/37

Storages based on U. S. Forest Service Survey of Dec.1935.

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

In / On SAN DIMAS CANYON for the Year Ending September 30, 19 38

3-1-38 3-2-38

Drainage Area 15.92 Square Miles. Capacity of Reservoir 1372.9 1155.1 Ac. Ft. at Spillway Elev. 1462.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1451.8	367.3	31.3	29.8	1452.2	827.3	14.7 E	11.6	1458.0	1015.7	8.3 E	7.7	1457.6	1002.2	4.8 i	6.5	1451.5	806.0	2.4 i	6.3	1438.0	469.0	i 1.9	9.8	1
2	1452.3	374.9	30.2	26.3	1452.5	836.6	16.3 E	11.6	1458.0	1015.7	8.3 E	7.7	1457.5	998.8	4.8 i	6.5	1451.2	796.9	2.4 i	6.3	1437.1	452.5	i 1.9	10.2	2
3	1452.6	379.4	28.1	i 25.9	1452.6	839.6	13.1 E	11.6	1458.0	1015.7	8.3 E	7.7	1457.4	995.4	4.8 i	6.5	1451.0	790.9	2.4 i	6.2	1436.1	435.1	i 1.9	10.7	3
4	1452.9	384.0	28.3	i 25.5	1452.7	842.7	13.2 E	11.6	1458.0	1015.7	8.3 E	7.7	1457.3	992.0	4.8 i	6.5	1450.7	782.1	2.3 i	6.2	1435.0	416.9	i 1.9	11.0	4
5	1453.1	387.1	26.2	i 25.1	1452.7	842.7	11.6 E	11.6	1458.0	1015.7	8.3 E	7.7	1457.2	988.7	4.7 i	6.4	1450.4	773.2	2.3 i	6.2	1434.0	401.0	i 1.9	9.9	5
6	1453.2	388.6	25.5	i 24.7	1452.9	848.9	12.7	9.6	1458.1	1019.1	8.3 E	7.7	1457.1	985.3	4.1 i	6.4	1450.1	764.4	2.3 i	6.2	1432.9	384.0	i 1.9	10.5	6
7	1453.1	387.1	23.5	i 24.3	1453.3	861.5	13.1 E	6.7	1458.1	1019.1	8.2 E	7.7	1457.0	981.9	4.0 i	6.4	1449.9	758.5	2.3 i	6.2	1431.7	365.9	i 1.9	11.0	7
8	1453.0	385.5	23.2	i 24.0	1453.7	874.1	13.0 E	6.7	1458.1	1019.1	8.2 E	7.7	1456.8	975.3	4.0 i	6.4	1449.7	752.8	2.3 i	6.2	1430.3	345.3	i 1.9	12.3	8
9	1452.8	382.5	22.2	i 23.7	1454.1	886.8	13.1 E	6.7	1458.2	1022.5	8.2 M	7.7	1456.7	971.9	4.0 i	6.4	1449.4	744.1	2.3 i	6.1	1428.8	323.8	i 1.9	12.8	9
10	1452.5	377.9	21.1	i 23.4	1454.4	896.5	11.6 E	6.7	1458.2	1025.9	8.9 i	7.7	1456.5	965.3	4.0 i	6.4	1449.2	738.4	2.3 i	6.1	1427.2	301.3	i 1.9	13.2	10
11	1452.2	373.3	20.7	i 23.1	1454.7	906.2	11.6 E	6.7	1458.3	1029.3	8.8 i	7.6	1456.3	958.7	3.1 i	6.4	1448.9	729.8	2.1 i	6.1	1425.6	279.4	i 1.9	13.0	11
12	1452.1	371.8	22.1	22.8	1455.0	915.9	11.6 M	6.7	1458.4	1029.3	8.7 i	7.6	1456.2	955.3	3.1 i	6.4	1448.6	721.4	2.1 i	6.1	1424.1	259.3	i 1.9	12.0	12
13	1453.7	396.4	20.0	7.6	1455.3	925.7	11.6 i	6.7	1458.5	1032.8	8.1 i	7.5	1456.0	948.7	3.1 i	6.4	1448.3	713.0	2.1 i	6.1	1422.4	237.5	i 1.9	12.9	13
14	1453.8	430.1	17.0	0	1455.6	935.6	11.7 i	6.7	1458.5	1032.8	8.0 i	7.4	1455.7	938.9	3.0 i	6.4	1448.0	704.6	2.0 i	6.1	1420.7	216.9	i 1.9	12.3	14
15	1453.5	459.9	15.0	0	1455.9	945.4	11.7 i	6.7	1458.5	1032.8	7.8 i	7.3	1455.5	932.3	3.0 i	6.4	1447.7	696.4	2.0 i	6.0	1417.9	185.4	i 1.9	17.7	15
16	1453.1	490.6	15.5	0	1456.2	955.3	11.6 i	6.6	1458.5	1032.8	6.9 i	7.2	1455.3	925.7	2.8 i	6.4	1447.4	688.3	2.0 i	6.0	1412.8	134.4	i 1.8	27.6	16
17	1452.5	519.9	14.8	0	1456.5	965.3	11.6 i	6.6	1458.4	1029.3	6.8 i	7.1	1455.1	919.2	2.7 i	6.3	1447.2	682.8	2.0 i	6.0	1406.4	80.9	i 1.8	28.8	17
18	1451.8	548.5	14.4	0	1456.7	971.9	10.8 i	6.6	1458.4	1029.3	6.7 i	7.0	1454.9	912.7	2.7 i	6.3	1446.9	677.8	2.0 i	6.0	1398.7	35.7	i 1.8	24.6	18
19	1451.0	576.2	14.7 E	0.8	1457.0	981.9	10.8 M	6.6	1458.4	1029.3	6.5 i	6.9	1454.6	903.0	2.7 i	6.3	1446.6	666.8	2.0 i	6.0	1390.1	7.5	i 1.8	16.1	19
20	1444.1	602.9	15.5 E	2.1	1457.2	988.7	9.9 i	6.5	1458.4	1029.3	6.4 i	6.8	1454.4	896.5	2.7 i	6.3	1446.1	653.6	i 2.0	8.6	DRY	0	i 1.8	5.5	20
21	1445.1	627.9	14.7 M	2.1	1457.4	995.4	9.8 i	6.4	1458.4	1029.3	6.0 i	6.7	1454.2	890.1	2.8 i	6.3	1445.4	635.6	i 2.0	11.1	"	0	i 1.8	1.8	21
22	1446.1	653.6	15.1 E	2.1	1457.6	1002.2	9.8 i	6.4	1458.4	1029.3	5.9 i	6.6	1454.0	883.6	2.8 i	6.3	1444.8	620.3	i 2.0	9.7	"	0	1.8 M	1.8	22
23	1447.0	677.4	14.1 E	2.1	1457.7	1005.6	8.0 i	6.3	1458.3	1025.9	5.8 M	6.5	1453.7	874.1	2.8 i	6.3	1444.1	602.9	i 2.0	10.8	"	0	i 1.8	1.8	23
24	1448.1	707.4	16.7 E	1.6	1457.8	1008.9	8.0 i	6.3	1458.2	1022.5	5.8 i	6.5	1453.5	867.8	2.7 i	6.3	1443.6	590.7	i 2.0	8.1	"	0	i 1.8	1.8	24
25	1449.4	744.1	18.5	0	1457.9	1012.3	7.9 i	6.2	1458.2	1022.5	5.8 i	6.5	1453.3	861.5	2.7 i	6.3	1443.1	578.6	i 2.0	8.1	"	0	i 1.8	1.8	25
26	1450.4	773.2	14.7	0	1458.0	1015.7	7.9 M	6.2	1458.1	1019.1	4.8 i	6.5	1453.0	852.0	2.5 i	6.3	1442.4	562.3	i 2.0	10.3	"	0	i 1.8	1.8	26
27	1451.2	796.9	14.9	3.0	1457.8	1008.9	8.4 i	10.3	1458.0	1015.7	4.8 i	6.5	1452.8	845.8	2.4 i	6.3	1441.7	546.3	i 2.0	10.0	"	0	i 1.8	1.8	27
28	1451.6	809.0	15.0	8.9	1457.7	1005.6	8.4 i	11.6	1457.9	1012.3	4.8 i	6.5	1452.6	839.6	2.4 M	6.3	1441.0	530.6	i 2.0	9.9	"	0	i 1.8	1.8	28
29	1451.8	815.1	14.7 E	11.6	1457.8	1008.9	8.9 E	7.7	1457.8	1008.9	4.8 i	6.5	1452.3	830.4	2.4 i	6.3	1440.3	515.6	i 2.0	9.6	"	0	1.8 M	1.8	29
30	1452.0	821.1	14.6 E	11.6	1457.9	1012.3	8.8 E	7.7	1457.7	1005.6	4.8 i	6.5	1452.0	821.1	2.4 i	6.3	1439.6	500.9	i 2.0	9.4	DRY	0	i 1.8	1.8	30
31	-	-	-	-	1457.9	1012.3	8.8 E	7.7	-	-	-	-	1451.8	815.1	2.4 i	6.3	1438.8	484.6	i 2.0	10.2	-	-	-	-	31
TOTAL			582.4	352.1			340.0	243.6			211.3	214.7			101.2	197.3			65.6	232.2			55.5	299.9	
Inf. Ac. Ft.			1155.2				674.4				419.1				200.7				130.1				110.1	12/91.7	
Outf. Ac. Ft.			698.4				483.2				425.8				391.3				460.6				594.8	12/93.5	
Maximum Mean Daily Inflow			32.0				16.3				8.9				4.8				2.4				1.9	1600.6	
Minimum Mean Daily Inflow			14.1				7.9				4.8				2.4				2.0				1.8	0.4	
Storage Change			+458.2				+191.2				-6.7				-190.5				-330.5				-484.6	-222.2+ **	

REMARKS E=estimated M=measured i=interpolated (=mean for period ** = 220.6 A.F. Debris debris

Max. W. S. Elev. 1470.35 feet on 3-2-38 Storage 1703.7 Acre Feet

Min. W. S. Elev. Dry feet on Various times Storage 0 Acre Feet

Max. Peak Inf. 4919 C.F.S. from 3:10 P.M. on 3-2-38 to 3:15 P.M. on 3-2-38

Max. Peak Outf. 4689 C.F.S. from 5:00 P.M. on 3-2-38 to 5:15 P.M. on 3-2-38

Gage Hts. and storage as of midnight on day shown.

RECORDS COLLECTED BY

G. W. Rodgers	Dam Tender	Gage Hts. copied	HAV Checked CCG
R. P. Dalton	Hydrographer	Storage applied	HAV Checked CCG
H. A. Van Der Goot	Hydrographer	Inf. & Outf. computed	HAV Checked FAH
		Date	1-23-38

SECOND 6 MONTHS

F. C. Dist. Form 86 100 1/37

Beginning 3-2-38 Storages based on L.A.C.F.C.D. Survey of Oct. 1938

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam NO. 1

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

In SAN GABRIEL CANYON
On for the Year Ending September 30, 19 38

Continuous Water Stage Recorder Au

3-1-38 3-2-38

Drainage Area 202.16 Square Miles. Capacity of Reservoir 53344 47191 Ac. Ft. at Spillway Elev. 1453.0 Ft.

Gage Heights Read Daily

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	Day
1									1236.10	139.7	37.9	36.7	1269.25	1450.4	59.0	105.0	1248.70	400.7	214.5	132.7	1371.00	18784.	5317.	0	1
2									1236.10	141.3	37.9	37.1	1267.80	1356.0	58.2	105.8	1242.00	305.0	128.8	177.0	1459.45	50669.**	30750.	11544. oo	2
3									1236.10	142.5	38.4	37.8	1269.00	1407.8	56.7	30.6	1267.50	957.9	509.9	180.8	1456.05	48811.	14903.	15840.	3
4									1236.10	143.3	37.9	37.5	1270.70	1515.9	55.3	L 0.8	1283.40	2151.7	748.5	146.6	1455.00	48248.	6866.	7150.	4
5									1236.10	143.7	37.2	37.0	1272.20	1624.6	55.3	L 0.8	1284.60	2663.5	420.3	162.2	1454.65	48052.	4236.	4305.	5
6									1236.10	144.1	37.2	37.0	1273.60	1729.0	53.8	L 0.8	1286.80	2851.2	286.0	191.4	1454.45	47955.	3583.	3631.	6
7									1236.10	144.1	37.2	37.2	1273.70	1759.4	52.2	36.9	1287.65	2952.2	228.0	177.1	1454.30	47876.	3018.	3050.	7
8									1236.15	144.9	37.2	36.8	1272.25	1665.7	50.8	98.0	1287.70	2957.1	206.0	203.5	1454.35	47902.	2780.	2767.	8
9									1236.20	145.8	39.7	39.2	1270.85	1562.9	49.5	101.3	1289.55	3139.5	291.0	199.1	1454.20	47825.	3191.	3231.	9
10									1236.25	146.7	47.3	46.8	1271.80	1604.5	49.5	28.5	1292.05	3394.1	367.0	238.6	1453.40	47401.	2081.	2254.	10
11									1238.10	167.1	106.9	96.7	1273.10	1697.4	48.8	L 2.0	1303.90	4739.8	969.0	284.5	1452.70	47035.	1207.	1392.	11
12									1236.65	154.1	133.6	140.1	1274.40	1793.5	48.8	L 1.9	1312.85	5918.2	903.0	308.9	1454.20	47823.	4190.	3793.	12
13									1244.90	254.0	99.1	48.7	1275.55	1883.4	48.8	L 1.9	1317.90	6654.5	554.0	182.8	1453.85	47638.	3397.	3490.	13
14									1250.45	372.7	72.6	L 12.8	1276.20	1823.3	48.8	79.1	1321.85	7270.6	448.0	137.4	1453.70	47559.	2546.	2586.	14
15									1253.20	480.2	60.4	L 6.2	1278.95	2104.2	312.2	170.6	1322.95	7448.7	378.0	288.2	1453.30	47349.	2038.	2144.	15
16					Gate closed 8:00 AM 11-17-37				1255.45	580.7	56.1	L 5.4	1278.55	2134.7	170.9	155.5	1323.05	7465.1	329.0	320.7	1453.10	47244.	1467.	1520.	16
17					1232.05	45.0	39.4	16.7	1256.40	654.4	53.0	15.8	1278.70	2143.1	114.7	110.4	1323.05	7456.9	300.0	304.2	1452.80	47087.	1278.	1357.	17
18					1232.40	51.1	39.4	36.3	1255.25	648.0	50.8	54.0	1279.95	2248.4	97.1	44.0	1323.15	7481.5	294.0	281.6	1452.40	46878.	1225.	1330.	18
19					1232.80	58.4	39.4	35.8	1254.65	640.2	50.8	54.8	1278.80	2167.8	92.7	133.4	1320.35	7032.4	312.0	538.4	1451.80	46567.	1171.	1328.	19
20					1233.20	68.1	38.8	33.9	1256.50	694.5	42.6	15.2	1277.90	2022.3	85.4	458.7	1317.05	6526.6	269.0	524.0	1450.95	46128.	1105.	1326.	20
21					1233.65	78.5	38.3	33.9	1258.65	782.1	47.2	L 6.5	1274.60	1849.1	78.1	165.4	1313.30	5981.6	253.0	527.8	1451.40	46360.	1257.	1140.	21
22					1233.90	85.8	37.8	34.1	1260.45	854.6	49.5	L 6.5	1272.05	1669.4	72.2	162.8	1309.20	5419.8	249.0	532.2	1451.20	46257.	1389.	1381.	22
23					1234.15	92.7	36.8	33.4	1264.80	1080.8	120.6*	EL 6.5	1269.40	1486.4	69.6	161.9	1305.85	4883.2	236.0	506.5	1450.80	46052.	1278.	1381.	23
24					1234.60	101.8	38.2	33.6	1263.85	1080.5	64.4	64.6	1267.70	1368.5	66.8	125.2	1300.75	4388.2	239.0	503.7	1450.15	45720.	1212.	1379.	24
25					1235.15	110.8	38.9	34.3	1261.45	989.5	55.9	101.8	1269.80	1512.3	64.1	173.1	1296.20	3838.8	240.0	501.9	1449.40	45341.	1185.	1377.	25
26					1235.50	118.1	38.9	35.3	1260.75*	936.7	77.4	104.0	1259.70	951.4	62.5	163.8	1291.65	3352.8	233.0	478.0	1448.35	44815.	1110.	1375.	26
27					1235.75	124.2	38.4	35.3	1264.25	1083.4	100.5	26.6	1255.20	753.5	60.0	159.8	1290.20	3204.7	381.0	455.7	1447.15	44220.	1071.	1371.	27
28					1236.00	130.9	37.3	34.4	1266.90	1241.2	81.9	EL 2.8	1249.70	579.5	61.6	149.4	1327.60	8236.9	2825.0	288.0	1445.85	43583.	1048.	1369.	28
29					1236.10	134.6	37.9	35.5	1268.90	1377.5	69.7	L 2.4	1244.10	435.6	66.5	139.1	-	-	-	-	1444.10	42737.	937.	1364.	29
30					1236.10	137.3	37.9	36.6	1270.60	1498.1	64.6	L 2.4	1237.80	296.5	59.8	129.9	-	-	-	-	1442.90	41735.	854.	1359.	30
31					-	-	-	-	1270.85	1541.6	60.0	38.7	1236.30	238.5	56.9	86.2	-	-	-	-	1441.48	41476.	1 891.	932.	31
TOTAL							537.4	468.2			1903.1	1195.1			2325.6	2982.6			12806.0	8773.5			108395.	88506.	
Inf. Ac Ft.							1065.9(inc.)				3774.7				4612.8				25400.3				214998.	249852.	
Ouf. Ac Ft.							928.7(inc.)				2370.4				5915.9				17402.6				175549.	202166.	
Maximum Mean Daily Inflow							39.4(inc.)				133.6				312.2				2825.0				30723.	30723.	
Minimum Mean Daily Inflow							36.8(inc.)				37.9				48.8				128.8				801.	36.8	
Storage Change							+137.3				+1404.3				-1303.1				+7998.4				** + 33239.	** 41476*debr	

REMARKS * Only Res. W. S. above coffer dam shown. Storages are combined capacities above and below Diversion Dam - Water surface equal above elev. 1282.5* (= Mean for period. Year

Max. W. S. Elev.	1462.50 feet on 3-2-38	Storage 58600 Acre Feet	RECORDS COLLECTED BY			SECOND 6 MONTHS		
Min. W. S. Elev.	Dry feet on 10-1-37 to 11-15-37	Storage 0 Acre Feet	E. H. Stuver (Res. Engr.)	Data Tender	Gage Hts. copied	E.A.V.	Checked	C.G.G.
Max. Peak Inf.	89319 C.F.S. from 4:00 PM on 3-2-38	to 4:10 PM on 3-2-38	C. A. Cooper	Hydrographer	Storage applied	H.A.V.	Checked	C.G.G.&J.A.H.
Max. Peak Ouf.	56700 C.F.S. from 7:10 PM on 3-2-38	to 7:15 PM on 3-2-38		Hydrographer	Inf. & Ouf. computed	H.A.V.	Checked	J.A.H.
					Date			

Gage Hts. and Storage as of midnight on day shown. E = Estimated i = Interpolated.

Inflows = Sum of F.C.Gaging stations P3 & P4

L = Losses during periods of no outflow.

0 Indicates computed inflows on those days when storages increase is greater than the flow at P3 & P4.

** On 3-1-38 Storages are estimated from an extrapolated storage curve, beginning 3-2-38 storages are corrected for debris=56879-50669= 6210 A.F. debris

oo Outflow computed from spillway discharge hydrograph & valve openings Beginning 3-2-38.

F. C. Dist. Form 86 100 1/37

Begin - 3-2-38 storages are based on L.A.C.F.C.D. Survey of Oct. 1938

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam NO. 1

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

In San Gabriel Canyon
On for the Year Ending September 30, 19 39

Continuous Water Stage Recorder Au.

3-1-38 3-2-38

Drainage Area 202.16 Square Miles. Capacity of Reservoir 53344 47191 Ac. Ft. at Spillway Elev. 1453.0 Ft.

Gage Heights Reed Daily

Day	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1438.80	40233.	766.	1393.	1356.75	11858.	381.	• 1.	1380.65	18271.	225.	143.	1385.30	19668.	162.	146.	1355.10	11470.	232.	469.	1284.60	1391.	69.	133.	1
2	1429.80	36144.	763.	2824.	1359.80	12594.	372.	• 1.	1381.15	18419.	218.	144.	1385.20	19637.	163.	179.	1353.15	11082.	240.	465.	1275.90	882.	69.	326.	2
3	1420.25	32032.	693.	2772.	1361.85	13103.	362.	105.	1381.60	18553.	216.	143.	1385.05	19592.	155.	178.	1351.45	10644.	270.	462.	1270.20	642.	69.	190.	3
4	1410.25	28036.	688.	2705.	1362.65	13306.	352.	250.	1382.05	18687.	214.	147.	1384.85	19550.	147.	178.	1349.70	10262.	268.	460.	1277.60	877.	192.°	0.	4
5	1399.85	24329.	773.	2637.	1363.35	13434.	342.	252.	1382.45	18807.	208.	147.	1384.65	19469.	151.	132.	1348.25	9952.	301.	457.	1281.50	1061.	93.°	0	5
6	1388.75	27732.	747.	2565.	1364.00	13650.	332.	248.	1382.85	18926.	208.	148.	1384.50	19424.	147.	169.	1347.00	9691.	323.	455.	1284.10	1241.	90.°	0	6
7	1376.95	17191.	700.	2486.	1364.60	13818.	322.	238.	1383.25	19046.	210.	150.	1384.25	19348.	144.	183.	1345.55	9395.	303.	452.	1285.35	1418.	90.°	0	7
8	1364.15	13689.	632.	2397.	1365.15	13948.	312.	246.	1383.60	19152.	205.	151.	1384.25	19348.	182.	182.	1344.15	9114.	310.	451.	1286.85	1556.	69.°	0	8
9	1350.40	10413.	648.	2300.	1365.75	14105.	303.	224.	1383.95	19257.	202.	149.	1384.50	19424.	221.	182.	1343.40	8967.	303.	377.	1288.60	1723.	84.°	0	9
10	1335.05	7450.	692.	2186.	1366.45	14289.	297.	204.	1384.40	19394.	216.	147.	1384.80	19515.	227.	182.	1342.75	8841.	273.	337.	1290.25	1884.	82.°	0	10
11	1325.30	5957.	667.	1420.	1367.10	14461.	291.	205.	1384.75	19500.	208.	155.	1384.40	19394.	227.	288.	1340.80	8470.	258.	445.	1291.75	2033.	75.°	0	11
12	1328.35	6393.	719.	499.	1367.70	14620.	286.	205.	1385.05	19591.	201.	155.	1383.70	19182.	231.	337.	1338.40	8031.	221.	442.	1293.25	2185.	76.°	0	12
13	1329.55	6575.	597.	501.	1368.35	14794.	293.	206.	1385.25	19652.	197.	166.	1383.00	18971.	226.	333.	1335.60	7543.	192.	438.	1282.80*	892.	64.	966.	13
14	1330.20	6674.	554.	504.	1368.95	14955.	288.	206.	1385.30	19668.	196.	189.	1382.25	18747.	223.	336.	1332.20	6986.	151.	432.	1279.75*	316.	61.	101.	14
15	1330.35	6697.	516.	504.	1369.55	15119.	288.	206.	1385.35	19683.	197.	189.	1381.90	18642.	221.	274.	1329.55	6576.	220.	427.	1277.60*	261.	59.	87.	15
16	1330.15	6666.	488.	504.	1370.20	15296.	296.	207.	1385.35	19683.	190.	190.	1382.15	18747.	219.	181.	1327.90	6259.	301.	425.	1275.70*	215.	58.	81.	16
17	1329.75	6606.	471.	504.	1370.80	15459.	290.	207.	1385.35	19683.	192.	190.	1382.35	18777.	213.	183.	1325.90	5710.	107.	419.	1274.10*	180.	58.	76.	17
18	1329.40	6552.	475.	503.	1371.50	15597.	277.	208.	1385.30	19668.	184.	192.	1382.50	18822.	205.	182.	1319.10	5133.	105.	396.	1272.60*	151.	59.	73.	18
19	1329.30	6537.	496.	503.	1371.80	15736.	278.	208.	1385.25	19652.	185.	193.	1383.10	19001.	209.	119.	1314.90	4535.	89.	391.	1271.10*	126.	59.	72.	19
20	1329.35	6544.	506.	503.	1372.25	15861.	272.	209.	1385.20	19637.	186.	194.	1382.75	18896.	207.	260.	1309.10	3921.	34.	393.	1269.70*	106.	58.	68.	20
21	1329.15	6514.	486.	503.	1372.60	15958.	258.	209.	1385.15	19622.	187.	194.	1380.80	18315.	209.	502.	1303.75	3313.	77.	384.	1268.10*	87.	58.	67.	21
22	1328.80	6462.	476.	502.	1372.90	16041.	252.	210.	1385.85	19835.	180.	73.	1379.15	17830.	256.	500.	1298.20	2704.	67.	374.	1266.40*	70.	58.	67.	22
23	1328.55	6425.	482.	501.	1374.25	16421.	258.	66.	1385.75	19905.	173.	188.	1377.45	17336.	249.	498.	1292.40	2099.	57.	362.	1265.30*	61.	58.	63.	23
24	1328.60	6433.	505.	501.	1376.00	16918.	251.	• 1.	1385.65	19774.	167.	183.	1375.70	16832.	242.	497.	1287.85	1651.	63.	289.	1264.90*	57.	57.	59.	24
25	1333.00	7114.	511.	167.	1377.70	17407.	248.	• 1.	1385.55	19744.	168.	183.	1373.70	16266.	210.	496.	1281.30	1172.	56.	297.	1264.70*	56.	57.	57.	25
26	1338.10	7977.	436.	• 1.0	1378.40	17611.	i 248.	145.	1385.45	19713.	168.	183.	1371.10	15542.	199.	494.	1270.20	708.	85.	319.	1264.60*	55.	57.	58.	26
27	1342.35	8764.	398.	• 1.0	1378.25	17567.	i 247.	270.	1385.45	19713.	i 166.	166.	1368.25	14768.	101.	491.	1270.95	704.	i 96.	98.	1264.50*	55.	54.	54.	27
28	1346.25	9537.	390.	• 1.0	1378.60	17869.	247.	195.	1385.40	19698.	i 165.	173.	1365.30	13987.	91.	485.	1278.10	935.	116.	0	1264.45*	54.	52.	52.	28
29	1350.95	10337.	406.	• 1.0	1379.05	17301.	245.	177.	1385.35	19683.	i 164.	173.	1362.40	13242.	106.	481.	1282.20	1137.	102.°	0	1264.40*	54.	51.	51.	29
30	1353.50	11104.	387.	• 1.0	1379.55	17948.	235.	158.	1385.20	19657.	i 163.	187.	1359.45	12508.	106.	476.	1285.20	1338.	101.°	0	1264.35*	53.	51.	52.	30
31	-	-	-	-	1380.10	18109.	231.	159.	-	-	-	-	1357.10	11941.	136.	472.	1286.45	1518.	91.	0	-	-	-	-	31
TOTAL			1707.*	32387.			8950.	5418.			5757.	4987.			5766.	9646.			5442.	10717.			2014.	2753.	
Inf. Ac. Ft.			33866.				17752.				11419.				11437.				10834.				3995.	3321.55.	
Ouf. Ac. Ft.			64239.				10746.				9892.				19135.				21257.				5460.	332893.	
Maximum Mean Daily Inflow			766.				381.				225.				256.				310.				119.°	30723.	
Minimum Mean Daily Inflow			387.				231.				163.				91.				0				51.	36.8	
Storage Change			- 30372.				+7005.				+1528.				-7696.				-10423.				-1465.	+53*debris**	

REMARKS ** Total debris at Elev. 1459.35 = 6210 A.F. • Estimated Gate Leakage i = Interpolated. + No storage above Coffer Dam. Res. W.S. below coffer dam only. ° Inflow & storage Year bulked by debris.

Max. W. S. Elev.	1462.5 feet on 3-2-38	Storage 58600 Acre Feet	RECORDS COLLECTED BY			SECOND 6 MONTHS		
Min. W. S. Elev.	Dry feet on 10-1-37 to 11-15-37	Storage 0 Acre Feet	E. W. Stuver (Res. Engr.)	Data Tender	Gage Hts. copied J.A.H. & H.A.V.		Checked	C.C.G.&J.A.H.
Max. Peak Inf.	89319 C.F.S. from 4:00 P.M. on 3-2-38	to 4:10 P.M. on 3-2-38	T. A. Cooper	Hydrographer	Storage applied J.A.H.		Checked	
Max. Peak Ouf.	56700 C.F.S. from 7:10 P.M. on 3-2-38	to 7:15 P.M. on 3-2-38		Hydrographer	Inf. & Ouf. computed J.A.H.& H.A.V.		Checked	J.A.H. & H.A.V.
					Date 2-10-39.			

Gage Hts. and Storage as of midnight on day shown. * Elev. below Coffer Dam only.

NOT!: Outflows computed from valve discharge records - Inflows from storage change. Beginning 9-1-38 Inflows interpolated from measurements.

F. C. Dist. Form 86 100 1/37

Storages based on Survey of Oct. 1935.

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 File No.

In On SAN GABRIEL CANYON for the Year Ending September 30, 19 37

Continuous Water Stage Recorder Pressure

Drainage Area 40.42 Square Miles. Capacity of Reservoir 12298.4 Ac. Ft. at Spillway Elev. 2385.0 Ft. Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	2182.8	15.5	0.2	0.3	2183.5	17.1	5.1	9.6*	2192.5	60.7	2.0	0.3	2272.4	2043.3	101.6	35.9	2289.3	2881.3	55.0	20.6	2346.2	7360.7	71.9	103.4	1
2	2182.7	15.2	0.1	0.3	2185.0	20.5	2.0	0.2	2192.9	63.6	1.9	0.3	2273.7	2103.2	63.9	33.7	2290.3	2935.9	48.9	21.3	2345.6	7298.1	70.7	102.3	2
3	2182.6	15.0	0.1	0.3	2186.2	25.7	2.0	0.2	2184.0	18.2	2.8	25.7*	2274.6	2144.6	52.1	31.2	2291.2	2989.5	49.0	22.0	2345.0	7239.6	69.3	100.8	3
4	2182.5	14.8	0.1	0.2	2180.5	10.2	2.0	8.1*	2184.0	0	4.5	13.6*	2275.2	2172.2	42.2	28.3	2292.0	3037.2	46.6	22.6	2344.3	7162.6	61.9	98.7	4
5	2182.3	14.3	0.1	0.2	2177.5	5.7	1.9	5.1*		0	2.8	2.8*	2275.9	2204.4	43.9	27.6	2292.8	3084.9	47.1	23.0	2343.6	7089.7	61.0	97.7	5
6	2182.2	14.1	0.1	0.2	2179.0	7.7	1.8	0.8*		0	2.0	2.0*	2277.0	2255.0	53.1	27.6	2307.8	4034.6	513.3	34.5	2342.9	7016.7	59.3	96.1	6
7	2182.1	13.9	0.1	0.2	2180.9	11.1	1.8	0.1	Debris	0	2.0	2.0*	2277.8	2291.8	46.1	27.6	2319.1	4862.1	479.1	61.9	2342.1	6933.4	53.1	95.1	7
8	2182.9	13.6	0.1	0.2	2177.6	5.8	1.6	4.3*		0	2.2	2.2*	2278.3	2314.8	37.5	25.9	2339.0	5182.1	230.3	69.0	2341.3	6850.0	52.0	94.1	8
9	2181.9	13.4	0.1	0.2	2177.3	5.4	1.7	2.2*	Storage	0	3.7	3.7*	2278.7	2333.2	32.9	23.6	2325.3	5375.9	163.6	65.9	2340.5	6766.6	51.1	93.1	9
10	2181.8	13.2	0.1	0.2	2177.3	5.4	1.6	1.3*		0	1.9	1.9*	2279.0	2347.0	29.6	22.6	2326.7	5493.9	121.8	62.3	2339.7	6686.2	51.6	92.2	10
11	2181.7	12.9	0.1	0.2	2177.3	5.4	1.3	1.1*		0	2.8	2.8*	2279.2	2356.2	26.6	22.0	2327.7	5578.1	104.4	61.9	2338.9	6610.8	53.7	91.7	11
12	2181.7	12.9	0.1	0.2	2177.3	5.4	1.3	1.1*		0	2.8	2.8*	2279.7	2379.2	33.6	22.0	2328.5	5645.5	96.3	62.3	2340.5	6766.6	171.3	92.7	12
13	2181.6	12.7	0.1	0.2	2178.2	6.6	1.3	0.6*	2164.0	0	2.3	2.3*	2280.1	2398.3	31.6	22.0	2332.0	5960.4	258.7	100.0*	2347.4	7485.7	459.7	97.2	13
14	2181.5	12.5	0.1	0.2	2180.2	9.5	1.3	0.1	2169.0	0.2	1.5	1.4*	2280.3	2408.8	26.9	21.6	2339.7	6686.2	942.9	577.0*	2350.1	7768.2	239.0	96.6	14
15	2181.4	12.3	0.1	0.2	2181.4	12.3	1.3	0.1	2194.6	70.1	74.4	36.2*	2280.6	2424.5	29.2	21.3	2341.5	6870.8	514.1	421.0*	2353.7	8182.1	302.2	93.5	15
16	2181.4	12.3	0.2	0.2	2182.5	14.8	1.4	0.2	2198.0	108.3	85.1	68.8*	2280.8	2435.0	25.9	20.6	2343.3	7058.4	307.6	213.0	2358.6	8745.4	374.3	90.3	16
17	2181.4	12.3	0.4	0.4	2183.5	17.1	1.4	0.2	2170.0	0.3	34.0	88.5*	2281.0	2445.5	25.0	19.7	2345.9	7329.4	237.9	101.3	2361.4	9083.5	268.7	98.2	17
18	2187.7	32.3	11.0	1.0	2184.3	18.9	1.4	0.2		0	23.5	23.6*	2281.3	2461.3	27.3	19.3	2347.3	7475.3	179.7	106.1	2363.5	9349.0	228.5	94.7	18
19	2182.0	13.6	5.7	15.0*	2185.1	20.9	1.4	0.2		0	18.1	18.1*	2281.5	2471.8	24.3	19.0	2348.1	7558.7	152.0	110.0	2365.1	9551.4	197.2	95.1	19
20	2181.9	13.4	2.4	2.5*	2185.9	22.4	1.5	0.2		0	11.3	11.3*	2281.7	2482.3	24.0	18.7	2348.5	7600.4	133.4	112.4	2366.4	9715.8	181.6	98.7	20
21	2182.5	14.8	1.7	1.0*	2186.7	27.9	1.8	0.2	2170.0	0.3	6.5	6.2*	2281.8	2487.5	21.0	18.4	2348.6	7610.8	117.7	112.4	2367.3	9859.6	159.6	102.3	21
22	2182.0	13.6	1.5	2.1*	2187.4	31.0	1.8	0.2	2177.6	5.8	8.2	5.4*	2281.8	2487.5	18.4	18.4	2348.4	7589.9	100.7	111.2	2368.9	10031.9	207.5	105.5	22
23	2180.4	10.0	0.6	2.0	2188.1	34.0	1.7	0.2	2182.4	14.6	8.6	4.2*	2281.9	2492.8	21.1	18.4	2348.1	7553.7	94.8	110.6	2369.9	10158.4	173.2	109.4	23
24	2178.8	7.4	0.6	1.6	2188.7	36.6	1.7	0.2	2186.7	27.9	6.9	0.2	2281.9	2492.8	18.4	18.4	2348.0	7548.3	104.2	109.4	2370.8	10281.1	177.3	115.4	24
25	2179.9	8.9	0.6	0.2	2189.4	39.7	1.7	0.2	2192.0	57.0	15.0	0.3	2281.9	2492.8	18.4	18.4	2348.1	7558.7	112.6	109.4	2371.4	10362.6	162.1	120.5	25
26	2180.6	10.4	0.6	0.2	2190.0	42.3	2.0	0.3	2194.4	74.6	9.4	0.5	2281.8	2487.5	15.4	18.1	2347.7	7517.0	87.9	108.9	2371.9	10432.3	157.7	123.1	26
27	2179.3	8.1	0.5	1.4	2190.5	46.0	2.1	0.3	2232.9	711.0	336.1	15.3	2281.8	2487.5	18.1	18.1	2347.3	7475.3	86.8	107.8	2372.3	10487.4	150.2	122.4	27
28	2180.1	9.3	0.5	0.2	2191.0	49.7	2.1	0.3	2246.0	1064.4	203.0	24.8	2281.8	2487.5	18.1	18.1	2346.8	7423.2	79.2	105.5	2372.8	10556.1	149.3	114.7	28
29	2178.6	7.2	1.8	2.9*	2191.5	53.3	2.1	0.3	2248.7	1147.2	64.5	22.8	2282.3	2513.8	31.4	18.1	-	-	-	-	2373.1	10597.4	135.6	114.8	29
30	2180.0	13.6	3.4	0.2	2192.0	57.0	2.1	0.4	2256.2	1395.9	149.2	23.8	2285.6	2687.0	105.7	18.4	-	-	-	-	2373.2	10611.1	124.8	117.9	30
31	2186.3	26.1	6.6	0.3	-	-	-	-	2269.5	1912.9	295.9	35.2	2288.0	2813.0	83.2	19.7	-	-	-	-	2373.2	10611.1	120.6	120.5	31
TOTAL			39.7	34.5			54.2	38.5			1384.9	449.2			1146.5	692.7			5467.6	3143.3			4796.0	3188.7	
Inf. Ac. Ft.			78.7				107.5				2746.9				2274.0				10844.8				9512.7	25564.4	
Outf. Ac. Ft.			68.4				76.4				891.0				1373.9				6234.6				6324.7	14969.0	
Maximum Mean Daily Inflow			11.0				5.1				336.1				105.7				942.9				459.7	942.9	
Minimum Mean Daily Inflow			0.1				1.3				1.5				18.1				46.6				51.1	0.1	
Storage Change			+10.3				+31.1				+1855.9				+900.1				+4610.2				+3187.9	+10595.4	

REMARKS * Station 209 used for outflow during period of valve discharge, Sta. 251 used for outflow for remaining period. { = Mean for period Year

Max. W. S. Elev.	2373.2	feet	on 3-30- to 4-1-38	Storage	10611.1	Acre Feet	
Min. W. S. Elev.	Dry	feet	on Various times	Storage		Acre Feet	
Max. Peak Inf.	1244.2	C.F.S. from	2:00 A.M.	on 2-14-37	to 4:00 A.M.	on 2-14-37	
Max. Peak Outf.	752.0 +	C.F.S. from	12:30 A.M.	on 2-14-37	to 2:00 A.M.	on 2-14-37	

Gage Heights and Storage as of midnight on day shown.

RECORDS COLLECTED BY

R. Harrison	Dam Tender
R. A. Waddicor	Hydrographer
R. P. Dalton	Hydrographer

SECOND 6 MONTHS

Gage Hts. copied	H.A.V.	Checked	T.E.M.
Storage applied	H.A.V.	Checked	T.K.M.
Inf. & Outf. computed	H.A.V.	Checked	T.E.M.
Date	11-8-38		

F. C. Dist. Form 86 100 1/37

Storages based on Survey of October, 1935.

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 File No.

In On SAN GABRIEL CANYON - WEST FORK for the Year Ending September 30, 19 37

Continuous Water Stage Recorder Pressure

Drainage Area 40.42 Square Miles. Capacity of Reservoir 12298.4 Ac. Ft. at Spillway Elev. 2385.0 Ft. Gage Heights Read daily

Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	2373.2	10611.1	122.4	122.4	2357.0	8561.5	43.4	95.6	2322.5	5140.9	21.4	68.3	2272.1	2029.5	5.3	19.3	2251.7	1243.4	5.4	23.5*	2177.2	5.3	0.8	5.1*	1
2	2373.1	10597.4	116.9	123.8	2356.0	8446.5	37.1	95.1	2321.4	5047.3	21.4	65.5	2271.5	2001.9	5.3	19.3	2250.4	1200.3	5.4	24.8*	2177.2	5.3	0.9	2.1*	2
3	2372.9	10569.9	109.2	123.1	2355.0	8331.5	36.7	94.6	2320.2	4946.2	21.4	65.1*	2270.9	1974.3	5.3	19.1	2249.2	1162.5	5.4	27.1*	2177.2	5.3	0.9	1.8*	3
4	2372.6	10528.6	100.3	121.1	2354.1	8228.1	41.9	94.1	2317.0	4705.0	21.4	118.8*	2270.3	1946.7	5.3	19.1	2248.4	1138.9	5.4	19.3*	2177.2	5.3	0.9	1.6*	4
5	2372.3	10487.4	101.6	122.4	2353.1	8113.1	34.8	92.7	2309.5	4148.1	21.4	305.0*	2269.6	1916.9	5.3	19.1	2247.4	1107.3	5.4	19.4*	2177.2	5.3	0.9	1.5*	5
6	2371.9	10432.3	96.1	123.8	2352.1	7998.1	34.2	92.2	2302.2	3660.7	21.3	280.0*	2268.9	1888.8	5.3	18.9	2245.9	1061.3	4.1	25.7*	2177.2	5.3	1.5	1.5*	6
7	2371.3	10349.8	82.2	123.8	2351.1	7883.2	33.2	91.2	2295.5	3245.7	21.3	244.0*	2268.3	1864.8	5.3	18.8	2244.2	1011.2	4.0	28.0*	2177.2	5.3	1.5	1.5*	7
8	2370.8	10281.1	87.7	122.4	2350.1	7768.2	33.3	91.2	2287.7	2797.3	21.3	240.0*	2267.7	1840.8	5.3	18.3	2242.5	963.2	4.0	29.7*	2177.2	5.3	1.5	1.5*	8
9	2370.3	10212.3	78.1	112.8	2349.1	7662.9	37.2	90.3	2280.9	2440.3	21.3	191.0*	2267.1	1816.7	5.3	18.3	2240.9	918.0	4.0	28.8*	2177.2	5.3	1.4	1.4*	9
10	2370.0	10171.1	78.5	99.2	2348.1	7558.7	37.7	90.3	2280.6	2424.5	21.3	26.6	2266.4	1788.7	5.3	18.1	2239.1	869.1	4.0	28.0*	2177.2	5.3	1.2	1.2*	10
11	2369.7	10133.1	81.0	100.2	2347.1	7454.5	36.8	89.3	2280.2	2403.5	15.9	27.3	2265.8	1764.6	4.1	18.1	2237.4	824.6	2.9	26.1*	2177.2	5.3	1.1	1.1*	11
12	2369.4	10095.2	78.5	97.6	2346.0	7339.8	31.0	88.8	2279.9	2388.4	15.9	25.7	2265.1	1736.6	4.1	17.8	2235.7	780.2	2.8	25.7*	2177.2	5.3	1.2	1.2*	12
13	2369.1	10057.2	74.4	93.6	2344.9	7225.2	30.1	87.9	2279.5	2370.0	15.9	24.5	2264.5	1712.5	4.1	17.6	2234.1	740.1	2.8	23.5*	2177.2	5.3	1.2	1.2*	13
14	2368.8	10019.3	74.5	93.6	2343.8	7110.5	29.7	87.5	2279.1	2351.6	15.8	23.5	2263.8	1684.5	4.1	17.5	2232.1	691.5	2.8	25.7*	2177.2	5.3	1.2	1.2*	14
15	2368.4	9968.7	68.1	93.6	2342.7	6995.9	29.2	87.0	2278.8	2337.8	15.8	22.0	2263.2	1660.2	4.1	17.2	2230.0	640.5	2.8	28.0*	2177.2	5.3	1.1	1.1*	15
16	2368.0	9918.1	68.6	94.1	2341.5	6870.8	25.6	85.6	2278.5	2324.0	12.8	20.4	2262.5	1632.4	4.1	16.9	2228.1	598.1	1.3	27.1*	2177.2	5.3	1.0	1.0*	16
17	2367.5	9854.9	63.2	95.1	2340.3	6745.8	25.6	84.7	2278.3	2314.8	12.8	19.3	2261.9	1608.4	4.0	16.5	2226.9	571.3	1.3	27.1*	2177.2	5.3	1.0	1.0*	17
18	2367.0	9791.7	63.8	95.6	2339.2	6639.1	25.5	84.2	2278.0	2301.0	12.8	19.4	2261.2	1580.3	4.0	16.3	2223.3	494.4	1.2	28.0*	2177.1	5.1	1.0	1.1*	18
19	2366.4	9715.8	59.8	96.1	2338.0	6526.0	25.5	83.8	2277.7	2287.2	12.8	19.8	2260.6	1556.3	4.0	16.0	2220.1	429.7	1.2	31.4*	2177.0	5.0	1.1	1.1*	19
20	2365.7	9627.3	51.5	96.1	2336.8	6412.9	25.5	83.3	2277.3	2268.8	12.8	19.9	2260.0	1532.2	4.0	15.9	2217.4	380.9	1.2	23.5*	2177.0	5.0	1.1	1.1*	20
21	2365.0	9538.7	51.4	96.1	2335.5	6290.3	24.2	82.4	2276.9	2250.4	10.2	20.1	2259.3	1507.1	3.5	15.8	2215.0	337.7	0.9	18.7*	2177.0	5.0	1.2	1.2*	21
22	2364.3	9450.2	51.5	96.1	2334.3	6177.2	24.2	81.5	2276.5	2232.0	10.2	19.9	2258.7	1485.6	3.4	14.9	2212.8	302.7	0.9	19.3*	2177.0	5.0	1.1	1.1*	22
23	2363.6	9361.7	51.5	96.1	2333.1	6064.1	24.2	81.0	2276.1	2213.6	10.2	19.8	2258.2	1467.7	3.4	12.5	2210.8	270.8	0.9	18.7*	2177.0	5.0	1.2	1.2*	23
24	2362.9	9273.2	51.5	96.1	2331.9	5951.0	24.2	80.1	2275.7	2195.2	10.2	19.9	2257.6	1446.1	3.4	12.4	2208.6	238.4	0.8	18.1*	2177.1	5.1	1.4	1.4*	24
25	2362.1	9172.0	45.1	96.1	2330.8	5847.3	24.2	78.8	2275.2	2172.2	10.1	19.9	2257.1	1428.2	3.4	12.4	2206.5	208.9	0.8	16.2*	2177.2	5.3	1.3	1.2*	25
26	2361.3	9070.8	45.0	96.1	2329.6	5738.2	24.2	78.0	2274.7	2149.2	8.0	19.8	2256.6	1410.3	3.4	12.0	2204.4	180.6	0.8	13.8*	2177.2	5.3	1.1	1.1*	26
27	2360.5	8969.6	45.1	96.1	2328.4	5637.1	24.2	77.1	2274.2	2126.2	8.0	19.8	2256.1	1392.3	3.4	11.2	2202.0	151.9	0.8	13.8*	2177.1	5.1	1.0	1.1*	27
28	2359.7	8871.9	48.0	97.2	2327.1	5527.6	24.2	76.2	2273.7	2103.2	8.0	19.6	2255.6	1374.4	3.4	11.1	2199.1	119.1	0.8	18.1*	2177.0	5.0	1.2	1.2*	28
29	2358.8	8768.1	44.4	96.6	2325.9	5426.5	24.2	75.4	2273.2	2080.1	8.0	19.4	2255.0	1352.9	3.4	18.5	2194.8	77.5	0.8	18.7*	2177.1	5.1	1.2	1.2*	29
30	2357.9	8665.0	43.5	95.6	2324.7	5335.8	24.2	74.1	2272.7	2057.1	7.9	19.3	2254.0	1319.7	3.4	21.9*	2190.2	43.8	0.8	18.1*	2177.2	5.3	1.6	1.5*	30
31	-	-	-	-	2323.7	5241.1	24.2	72.4	-	-	-	-	2252.8	1280.0	3.4	22.1*	2185.0	20.5	0.8	17.3*	-	-	-	-	31
TOTAL			2131.4	3112.5			920.2	2646.4			447.6	2052.8			131.1	522.9			76.5	711.5			34.8	42.5	
Inf. Ac. Ft.			4227.6				1825.2				887.8				260.0				151.7				69.0	32985.7	
Outf. Ac. Ft.			6173.6				5249.1				4071.7				1037.2				1411.3				84.3	32996.2	
Maximum Mean Daily Inflow			122.4				43.4				21.4				5.3				5.4				1.6	942.9	
Minimum Mean Daily Inflow			43.5				24.2				7.9				3.4				0.8				0.8	0.1	
Storage Change			-1946.1				-3423.9				-3184.0				-777.1				-1259.5				-15.2	-10.4	

REMARKS * Station 209 used for outflow during periods of valve discharge, Station 251 used for outflow for remaining periods. { = Mean for period Year

Max. W. S. Elev.	2373.2	feet	on 3-30 to 4-1-38	Storage	10,611.1	Acre Feet	
Min. W. S. Elev.	Dry	feet	on Various times	Storage	0	Acre Feet	
Max. Peak Inf.	1244.2	C.F.S. from	2:00 A.M.	on 2-14-38	to 4:00 A.M.	on 2-14-38	
Max. Peak Outf.	752.0+	C.F.S. from	12:30 A.M.	on 2-14-38	to 2:00 A.M.	on 2-14-38	

RECORDS COLLECTED BY

R. Harrison	Dam Tender
R. A. Waddicor	Hydrographer
R. P. Dalton	Hydrographer

SECOND 6 MONTHS

Gage Hts. copied	H.A.V.	Checked	H. M. & M.W.R.
Storage applied	H.A.V.	Checked	T.M. & M.W.R.
Inf. & Outf. computed	H.A.V.	Checked	T.M.
Date	9-21-38		

F. C. Dist. Form 88 100 1/47

Storages based on L.A.C.F.C.D. Survey of Jan. 1936
corrected for debris following 3-2-38.

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

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

In SAN GABRIEL CANYON, West Fork for the Year Ending September 30, 1938

Prior 3-2-38

Drainage Area 49.42 Square Miles. Capacity of Reservoir 12,298.0 Ac. Ft. at Spillway Elev. 2385.0 Ft.

Continuous Water Stage Recorder Pressure

Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	2177.2	5.3	1.5	1.5	2177.0	5.0	1.9	1.9	2177.3	5.4	2.8	2.8	2210.3	262.8	10.1	4.1	2241.9	946.2	92.7	7.7	2369.8	10145.8	1376.0	150.5	1
2	2177.2	5.3	1.4	1.4	2177.0	5.0	1.9	1.9	2177.3	5.4	3.0	3.0	2210.9	272.4	9.0	4.2	2244.0	1005.5	39.1	9.2	2388.2	11253.9	7992.0	6664.0	2
3	2177.2	5.3	1.4	1.4	2177.0	5.0	1.9	1.9	2177.3	5.4	3.0	3.0	2211.4	280.3	8.3	4.3	2258.3	1471.3	246.4	11.5	2381.5	10294.1	2551.1	2715.0	3
4	2177.2	5.3	1.6	1.6	2177.1	5.1	1.9	1.8	2177.3	5.4	3.0	3.0	2211.9	288.3	8.3	4.2	2272.0	2024.9	394.8	25.7	2371.2	8928.7	955.5	1643.9	4
5	2177.2	5.3	1.6	1.6	2177.2	5.3	1.9	1.8	2177.3	5.4	3.0	3.0	2212.4	296.3	8.0	4.0	2276.4	2227.4	132.2	30.1	2369.8	8750.7	716.5	806.2	5
6	2177.2	5.3	1.6	1.6	2177.2	5.3	1.9	1.9	2177.3	5.4	3.1	3.1	2212.9	304.2	7.9	3.9	2278.2	2310.2	69.7	28.0	2364.9	8144.5	436.3	742.0	6
7	2177.2	5.3	1.5	1.5	2177.2	5.3	2.4	2.4	2177.3	5.4	3.1	3.1	2213.3	310.6	7.0	3.8	2279.4	2365.4	54.2	26.3	2355.3	7038.5	311.2	868.8	7
8	2177.2	5.3	1.5	1.5	2177.2	5.3	2.6	2.6	2177.3	5.4	3.1	3.1	2213.7	317.0	6.9	3.7	2280.3	2408.8	46.4	24.6	2344.5	5939.2	314.8	868.8	8
9	2177.2	5.3	1.5	1.5	2177.2	5.3	2.6	2.6	2177.5	5.7	3.2	3.1	2214.1	323.4	6.8	3.6	2283.5	2576.8	107.3	22.6	2320.5	3974.1	312.4	1293.1	9
10	2170.1	0.3	1.6	2.1	2177.2	5.3	2.3	2.3	2177.6	5.8	6.1	6.0	2214.5	329.7	6.8	3.6	2286.7	2744.8	109.3	24.6	2311.8	3408.5	312.5	597.7	10
11	2164.0	0	1.6	2.3	2177.2	5.3	2.8	2.8	2190.2	44.5	33.1	13.6	2214.9	336.1	6.9	3.5	2293.9	3774.2	548.8	29.8	2312.5	3442.2	629.9	512.4	11
12	2164.0	0	1.6	1.9	2177.2	5.3	2.7	2.7	2191.6	54.1	25.4	20.5	2215.2	341.3	6.2	3.6	2311.2	4471.2	288.2	37.6	2324.6	4263.9	853.1	539.7	12
13	2164.0	0	1.6	1.9	2177.2	5.3	2.7	2.7	2181.3	12.0	7.6	23.8	2215.5	346.7	6.4	3.7	2314.6	4525.5	162.4	34.1	2330.0	4675.2	539.1	331.8	13
14	2164.0	0	1.6	2.0	2177.2	5.3	3.0	3.0	2178.8	7.4	10.3	12.7	2215.9	353.9	7.4	3.8	2316.7	4682.6	113.3	34.1	2334.5	5045.3	469.3	282.7	14
15	2164.0	0	1.6	2.0	2177.3	5.4	3.0	3.0	2172.8	1.2	6.0	9.1	2223.8	504.5	81.0	5.0	2318.2	4794.8	91.0	34.4	2339.0	5434.6	387.9	191.6	15
16	2164.9	0	1.7	1.8	2177.3	5.4	2.8	2.8	2170.0	0.3	7.8	8.2	2226.9	571.3	39.1	5.5	2319.2	4869.6	71.0	33.3	2345.6	6044.2	321.1	13.8	16
17	2173.7	0.6	1.6	1.3	2177.3	5.4	2.7	2.7	2170.0	0.3	7.3	7.3	2228.5	607.0	24.0	6.0	2320.0	4929.4	60.5	30.4	2350.8	6562.2	275.8	14.6	17
18	2175.4	2.8	2.0	.9	2177.3	5.4	3.0	3.0	2174.9	2.2	7.4	6.5	2229.6	631.6	18.9	6.5	2321.1	5022.1	75.1	28.3	2354.2	6919.3	264.3	84.3	18
19	2176.2	3.9	1.4	.9	2177.3	5.4	2.8	2.8	2177.3	5.4	7.2	5.6	2230.7	657.5	19.6	6.5	2322.2	5114.7	73.0	26.3	2356.2	7136.6	238.2	128.6	19
20	2176.8	4.7	1.4	1.0	2177.3	5.4	3.0	3.0	2177.3	5.4	4.7	4.7	2231.5	677.0	15.8	6.0	2323.1	5190.6	62.2	24.0	2357.5	7281.1	227.3	154.5	20
21	2177.0	5.0	1.6	1.4	2177.3	5.4	3.0	3.0	2177.3	5.4	3.8	3.8	2232.2	694.0	14.4	5.8	2323.8	5249.5	53.0	23.3	2357.1	7236.6	203.0	225.4	21
22	2177.0	5.0	1.6	1.6	2177.3	5.4	3.0	3.0	2177.3	5.4	3.1	3.1	2232.7	706.1	11.9	5.8	2324.4	5300.1	47.8	22.3	2355.5	7060.2	196.7	285.6	22
23	2177.0	5.0	1.8	1.8	2177.3	5.4	3.0	3.0	2187.7	32.3	16.0	2.4	2233.2	718.2	12.9	5.9	2325.0	5350.6	47.1	21.6	2353.7	6865.9	189.8	287.8	23
24	2177.0	5.0	1.8	1.8	2177.3	5.4	3.1	3.1	2191.3	51.9	11.5	1.6	2233.6	727.9	10.8	5.9	2325.5	5392.8	42.3	21.0	2351.8	6665.4	184.5	285.6	24
25	2177.0	5.0	1.5	1.5	2177.3	5.4	3.1	3.1	2193.5	68.0	8.8	.7	2233.9	735.2	9.7	6.0	2326.0	5434.9	41.5	20.3	2349.8	6459.5	177.9	281.2	25
26	2177.0	5.0	1.5	1.5	2177.3	5.4	3.1	3.1	2197.6	104.4	20.1	1.8	2234.2	742.5	9.7	6.1	2326.5	5477.0	41.9	20.4	2347.6	6239.2	155.0	266.0	26
27	2177.0	5.0	1.8	1.8	2177.3	5.4	3.1	3.1	2203.0	163.9	33.1	3.1	2234.5	749.8	9.8	6.1	2329.3	5712.9	139.1	20.5	2345.3	6015.6	155.2	268.0	27
28	2177.0	5.0	1.8	1.8	2177.3	5.4	3.0	3.0	2205.6	196.3	19.6	3.2	2234.7	754.7	8.6	6.1	2349.6	7715.0	1032.2	22.8	2343.0	5798.2	162.8	278.4	28
29	2177.0	5.0	1.6	1.6	2177.3	5.4	2.7	2.7	2207.3	220.1	15.4	3.4	2235.1	764.6	11.1	6.1	-	-	-	-	2342.3	5732.0	144.5	177.4	29
30	2177.3	5.4	1.7	1.6	2177.3	5.4	2.7	2.7	2208.7	239.8	13.5	3.6	2235.3	769.8	8.7	6.1	-	-	-	-	2341.1	5714.4	125.9	135.2	30
31	2177.0	5.0	1.8	1.8	2177.3	5.4			2209.5	251.0	9.3	3.7	2235.6	777.6	10.1	6.2	-	-	-	-	2342.5	5751.7	111.4	92.6	31
TOTAL			49.8	50.6			80.1	80.1	79.9		304.4	180.6			421.2	155.7			4192.4	694.8			20978.8	21191.4	
Inf. Ac. Ft.			98.8				158.9				603.8				835.4				8315.5				41595.0	51607.4	
Outf. Ac. Ft.			99.2				158.5				358.2				308.8				1378.1				42032.5	44335.3	
Maximum Mean Daily Inflow			2.0				3.1				33.1				81.0				1032.2				7992.0	7992.0	
Minimum Mean Daily Inflow			1.4				1.9				2.8				6.2				41.5				111.4	1.4	
Storage Change			-0.3 A.F.				+0.4 A. F.				+245.6 A. F.				+526.6 A. F.				+6937.4 A. F.				-1963.3 + 00	+5746.4 - 00	

REMARKS: 1 = Interpolated. (= Mean for period. 00 = 1525.9 A. F. debris)

Max. W. S. Elev. 2396.2 feet on 2-2-38 Storage 14091.1 Acre Feet
Min. W. S. Elev. 2164.0 feet on 10-11-16-38 Storage 0 Acre Feet
Max. Peak Inf. 24710. C.F.S. from 4:00 P.M. on 3-2-38 to 4:30 P.M. on 3-2-38
Max. Peak Outf. 23430. C.F.S. from 4:30 P.M. on 3-2-38 to 5:00 P.M. on 3-2-38

Gage Hts. and Storage as of midnight on day shown.

RECORDS COLLECTED BY

		Gage Hts. copied	H.A.V.	Checked	J.A.H.
R. H. Harrison	Dam Tender	Storage applied	H.A.V. & C.C.G.	Checked	J.A.H.
E. Godfrey	Hydrographer	Inf. & Outf. computed	H.A.V. & J.A.H.	Checked	J.A.H. & H.A.V.
	Hydrographer	Date			

SECOND 6 MONTHS

Outflows as per Sta. 209 from 10-1 to 12-25 (incl.) and from 3-14 to 4-10 (incl.)
Outflows as per Sta. 251 from 12-26 to 2-25 (incl.)
Outflows computed from valve operation record and measurements from 2-26 to 3-13 (incl.)

F. C. Dist. Form 88 100 1/47

Storages as of L.A.C.F.C.D. Survey corrected for debris following 3-2-38.

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

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

In SAN GABRIEL CANYON, West Fork for the Year Ending September 30, 1938

Following 3-2-38

Drainage Area 49.42 Square Miles. Capacity of Reservoir 10786.8 Ac. Ft. at Spillway Elev. 2385.0 Ft.

Continuous Water Stage Recorder Pressure

Gage Heights Read Daily

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	2342.7	5770.2	106.5	97.1	2364.9	8144.5	45.6	8.9	2374.8	9394.4	19.8	11.6	2375.9	9538.8	11.4	15.1	2336.9	5250.4	12.1	157.4	Dry	0	6.7	6.7	1
2	2342.8	5779.6	100.6	95.9	2365.4	8205.1	39.5	8.9	2374.9	9407.5	19.7	11.6	2375.8	9525.7	11.4	15.1	2333.6	4969.7	12.1	157.4	"	0	6.6	6.6	2
3	2342.9	5788.9	100.6	95.9	2366.0	8277.9	45.6	8.9	2375.0	9420.7	19.7	11.6	2375.8	9525.7	11.4	15.1	2329.2	4812.4	12.1	209.4	"	0	6.5	6.5	3
4	2343.0	5798.2	99.4	94.7	2366.5	8339.6	40.0	8.9	2375.1	9433.8	19.7	11.9	2375.7	9512.5	11.4	15.1	2324.0	4619.9	12.1	196.8	"	0	6.4	6.4	4
5	2343.0	5798.2	94.7	94.7	2367.0	8401.4	39.8	8.7	2375.2	9446.9	19.7	12.2	2375.6	9499.4	11.3	15.2	2318.3	3825.4	12.1	216.8	"	0	6.3	6.3	5
6	2343.0	5798.2	93.6	93.6	2367.5	8463.1	40.3	9.2	2375.2	9460.0	19.2	12.4	2375.5	9486.3	11.3	15.2	2311.2	3371.5	12.1	234.0	"	0	6.2	6.2	6
7	2343.1	5807.6	79.0	74.2	2367.9	8512.5	34.1	9.2	2375.4	9473.2	19.2	12.4	2375.5	9486.3	11.3	15.2	2303.8	2926.7	12.1	222.0	"	0	6.0	6.0	7
8	2343.6	5854.1	79.0	55.6	2368.3	8562.5	34.1	8.9	2375.5	9486.3	19.1	12.4	2374.4	9341.9	11.6 e	75.6	2296.1	2489.8	12.1	231.4	"	0	5.8	5.8	8
9	2344.7	5958.3	77.1	24.5	2368.7	8612.7	34.6	9.2	2375.6	9499.4	19.1	12.4	2372.8	9134.2	11.6	113.4	2288.3	2080.6	12.1	220.0	"	0	5.6	5.6	9
10	2346.1	6092.2	74.5	7.0	2369.1	8662.9	34.7	9.4	2375.7	9512.5	19.1	13.0	2371.3	8941.5	11.6	110.8	2280.0	1689.5	12.0	201.6	"	0	5.5	5.5	10
11	2347.4	6219.6	69.9	5.7	2369.5	8713.1	35.0	9.7	2375.8	9525.7	18.8	13.0	2369.8	8750.7	11.5	110.8	2273.0	1395.9	12.0	180.1	"	0	5.5	5.5	11
12	2348.7	6348.8	71.1	5.9	2369.8	8750.7	28.8	9.9	2375.9	9538.8	18.7	13.0	2368.2	8562.5	11.5	110.8	2265.9	1125.1	12.0	144.6	"	0	5.5	5.5	12
13	2350.0	6479.6	72.0	6.1	2370.1	8788.5	29.0	9.9	2376.0	9551.9	18.7	13.2	2366.8	8376.7	11.5	110.8	2259.7	910.7	12.0	114.7	"	0	5.4	5.4	13
14	2351.2	6603.4	68.7	6.3	2370.4	8826.8	29.5	10.2	2376.1	9565.2	18.7	13.9	2365.1	8168.7	11.5	110.8	2254.6	743.7	12.0	84.8	"	0	5.3	5.3	14
15	2352.3	6717.7	64.6	7.0	2370.7	8865.0	29.8	10.5	2376.1	9565.2	18.7	13.9	2363.5	7975.8	11.5	110.8	2242.3	410.2	12.0	191.0	"	0	5.1	5.1	15
16	2353.3	6823.5	66.4	7.0	2371.0	8903.3	29.8	10.5	2376.2	9578.5	17.0	14.2	2361.8	7774.0	10.8	109.5	Dry	0	12.0	229.1	"	0	5.0	5.0	16
17	2354.3	6930.1	60.7	7.0	2371.3	8941.5	29.1	9.9	2376.2	9578.5	17.0	14.2	2360.3	7599.2	10.8	104.3	"	0	●61.0	61.0	"	0	4.9	4.9	17
18	2355.2	7027.7	56.2	7.0	2371.7	8992.5	36.2	10.5	2376.2	9578.5	17.0	14.3	2358.6	7404.9	10.8	105.6	"	0	●27.0	27.0	"	0	4.9	4.9	18
19	2356.1	7125.5	56.3	7.0	2372.0	9030.7	29.5	10.2	2376.2	9578.5	17.0	14.4	2356.8	7203.3	10.8	105.6	"	0	●17.0	17.0	"	0	4.9	4.9	19
20	2356.9	7214.4	52.1	7.2	2372.2	9069.5	30.1	10.5	2376.2	9591.8	17.0	14.5	2355.0	7006.0	10.8	101.3	"	0	●14.0	14.0	"	0	4.9	4.9	20
21	2357.7	7303.9	52.3	7.5	2372.6	9108.3	30.0	10.5	2376.2	9591.8	13.6	14.5	2353.1	6802.4	10.8	113.4	"	0	●12.0	12.0	"	0	4.9	4.9	21
22	2358.4	7382.1	47.6	7.9	2372.9	9147.1	30.1	10.5	2376.2	9591.8	13.6	15.1	2350.3	6510.6	10.8	157.4	"	0	●10.0	10.0	"	0	4.9	4.9	22
23	2359.1	7461.8	47.9	7.7	2373.1	9173.0	23.8	10.8	2376.2	9591.8	13.6	14.9	2347.5	6289.4	10.8	154.2	"	0	● 9.2	9.2	"	0	4.9	M 4.9	23
24	2359.9	7552.9	54.1	8.2	2373.3	9198.9	23.9	10.8	2376.2	9578.5	13.5	14.9	2344.8	5967.8	10.8	151.0	"	0	● 8.4	8.4	"	0	4.7	4.7	24
25	2360.8	7657.5	61.2	8.4	2373.5	9224.7	23.8	10.8	2376.2	9578.5	13.5	15.1	2343.0	5798.2	10.7	103.0	"	0	● 7.7	7.7	"	0	4.5	4.5	25
26	2361.6	7750.7	56.1	9.2	2373.7	9250.6	23.3	10.8	2376.2	9578.5	11.1	15.1	2342.9	5788.9	7.5	11.0	"	0	7.2	7.2	Dry	0	4.3	4.3	26
27	2362.2	7821.1	44.7	9.2	2373.9	9276.5	23.3	11.0	2376.1	9565.2	11.1	15.1	2342.9	5788.9	7.5	10.8	"	0	7.2	7.2	Dry	0	4.1	M 4.1	27
28	2362.8	7892.5	45.2	9.2	2374.1	9302.5	23.2	11.3	2376.1	9565.2	11.1	15.1	2342.8	5779.6	7.5	10.8	"	0	7.2	7.2	2181.4 *	2.8	4.1	e 2.7	28
29	2363.5	7975.8	51.2	9.2	2374.3	9328.8	23.2	11.3	2376.0	9551.9	11.1	15.1	2342.7	5770.2	7.5	10.8	"	0	7.2	7.2	2187.4 *	9.5	4.1	1 0.7	29
30	2364.3	8071.7	57.3	8.9	2374.5	9355.0	23.2	11.3	2375.9	9538.8	11.1	15.1	2342.3	5739.0	7.4	10.7	"	0	7.0	7.0	2191.6 *	16.5	4.2	M 0.7	30
31	-	-	-	-	2374.6	9368.2	23.2	11.3	-	-	-	-	2340.1	5532.4	7.4	105.7	Dry	0	6.8	6.8	-	-	-	-	31
TOTAL			2054.6	884.9			966.1	312.4			496.2	410.2			324.5	2344.4			401.8	3191.0			157.7	149.4	
Inf. Ac. Ft.			4075.2				1916.2				984.2				643.6				796.9				312.8	60336.3	
Outf. Ac. Ft.			1755.2				619.6				819.6				1650.0				6329.3				296.2	58799.3	
Maximum Mean Daily Inflow			106.5				45.6				24.8				11.6				+61.0				6.7	7992.0	
Minimum Mean Daily Inflow			44.7				18.0				8.2				7.4				6.8				4.1	1.4	
Storage Change			+ 2320.0 A. F.				+ 1296.5				+ 170.6				- 4006.4				- 5532.4				+ 16.5 +	11.2+ 1525.9	

REMARKS: * Storages corrected for Debris loss beginning 3-2-38. e = Computed storage. o = Computed. M = Measured. i = Interpolated e = Estimated. (= Mean for period. Debris

Max. W. S. Elev. 2396.4 feet on 3-2-38 Storage 14091.1 Acre Feet
Min. W. S. Elev. 2164.0 feet on 10-11-16-38 Storage 0 Acre Feet
Max. Peak Inf. 24710. C.F.S. from 4:00 P.M. on 3-2-38 to 4:30 P.M. on 3-2-38
Max. Peak Outf. 23430. C.F.S. from 4:30 P.M. on 3-2-38 to 5:00 P.M. on 3-2-38

Gage Heights and Storage as of midnight on day shown.

RECORDS COLLECTED BY

		Gage Hts. copied	H.A.V.	Checked	J.A.H.
R. H. Harrison	Dam Tender	Storage applied	H.A.V.& C.C.G.	Checked	J.A.H.
E. Godfrey	Hydrographer	Inf. & Outf. computed	H.A.V. & J.A.H.	Checked	J.A.H.& H.A.V.
	Hydrographer	Date	2-23-39		

SECOND 6 MONTHS

= Mean for period. Outflow as per Sta. 251 from 4-11 to 7-7 (incl). Outflows as per Sta. 209 from 7-9 to 9-18 (incl.).
● Inflow probably bulked by debris and bank storage.

F. C. Dist. Form 88 100 1/37

Storages based on U. S. Soil Conservation Survey of February, 1936

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In SANTA ANITA CANYON for the Year Ending September 30, 19 37

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Drainage Area 10.82 Square Miles. Capacity of Reservoir 1014.3 Ac. Ft. at Spillway Elev. 1316.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1239.2	261.0	0	2.2	1228.0	198.1	1.9	1.9	1213.4	131.2	0.6	1.6	1278.3	566.6	26.3	51.5	1259.4	401.4	17.3	20.0	1271.1	499.6	23.0	30.3	1
2	1238.5	256.9	0	2.2	1227.8	197.0	1.3	1.9	1212.9	129.2	0.6	1.6	1271.4	502.3	17.1	49.5	1259.0	398.4	15.3	16.8	1270.5	494.1	21.2	24.0	2
3	1237.8	252.7	0	2.2	1227.6	196.0	1.4	1.9	1212.5	127.6	0.8	1.6	1266.8	462.1	12.6	32.9	1258.8	396.8	13.8	14.6	1270.1	490.5	18.2	20.0	3
4	1237.2	249.1	0	2.2	1227.2	194.0	0.9	1.9	1212.1	126.0	0.8	1.6	1263.3	432.8	10.5	25.3	1258.3	393.0	12.6	14.6	1269.7	487.0	18.2	20.0	4
5	1236.5	244.9	0	2.2	1226.8	191.9	0.9	1.9	1211.8	124.8	1.0	1.6	1260.1	406.8	12.2	25.3	1258.3	393.0	12.8	12.8	1269.0	481.0	17.0	20.0	5
6	1235.8	240.8	0	2.2	1226.3	189.4	0.6	1.9	1211.4	123.2	0.8	1.6	1261.2	415.7	16.7	12.2	1283.5	618.3	114.0	0.4	1268.0	472.4	15.7	20.0	6
7	1235.0	236.0	0	2.2	1225.8	186.8	0.6	1.9	1211.0	121.7	0.9	1.6	1259.2	399.9	12.1	20.0	1287.0	654.7	105.6	87.2	1268.8	479.3	16.9	13.4	7
8	1234.2	231.6	0	2.2	1225.3	184.2	< 0.6	1.9	1210.6	120.1	0.7	1.6	1256.6	380.0	< 9.9	20.0	1283.3	616.2	60.6	80.0	1273.0	516.8	19.3	0.4	8
9	1233.4	227.1	0	2.1	1224.8	181.8	0.6	1.9	1210.2	118.5	0.8	1.6	1254.2	362.0	9.3	18.4	1277.5	559.0	45.1	74.0	1274.8	533.2	15.3	7.1	9
10	1232.6	222.7	0	2.1	1224.2	178.9	0.6	1.9	1209.7	116.6	0.7	1.6	1252.5	349.8	9.1	15.2	1273.3	519.6	37.6	57.4	1275.6	549.7	14.6	10.8	10
11	1231.9	218.8	0	2.1	1223.7	176.6	0.6	1.9	1209.1	114.4	0.5	1.6	1250.6	336.0	8.2	15.2	1270.4	493.2	37.1	50.4	1276.5	549.4	14.5	10.1	11
12	1231.1	214.4	0	2.1	1223.2	174.2	0.6	1.9	1208.5	112.2	0.6	1.7	1249.0	324.9	9.6	15.2	1266.6	460.4	33.8	50.4	1281.2	595.0	27.8	4.8	12
13	1230.3	210.0	0	2.1	1222.6	171.4	0.6	1.9	1207.9	110.0	0.6	1.7	1247.2	312.7	9.1	15.2	1271.0	498.7	48.2	28.9	1290.6	693.4	63.4	13.8	13
14	1229.4	205.2	0	2.1	1222.1	169.0	0.6	1.9	1207.3	107.8	0.5	1.7	1244.9	297.1	7.3	15.2	1298.9	789.1	192.4	46.0	1289.6	682.4	35.9	41.4	14
15	1228.6	201.1	0	2.1	1221.5	166.2	0.6	1.9	1223.3	174.7	33.8	0	1242.4	281.1	7.2	15.2	1296.6	761.8	126.3	140.0	1293.0	720.4	48.9	29.8	15
16	1227.8	197.0	0	2.1	1221.0	163.8	0.6	1.9	1233.0	224.9	25.3	0	1239.9	265.2	6.8	14.9	1288.6	671.8	91.6	137.0	1296.8	764.1	61.2	39.2	16
17	1227.8	197.0	1.9	1.9	1220.5	161.5	0.6	1.9	1235.6	239.6	7.4	0	1237.1	248.5	6.5	14.9	1277.5	559.0	73.1	130.0	1295.0	742.8	49.3	60.0	17
18	1230.1	208.9	7.6	1.6	1219.9	158.7	0.6	1.9	1237.2	249.1	4.8	0	1236.3	243.7	7.6	10.0	1266.7	461.2	57.7	107.0	1293.1	721.5	47.0	57.7	18
19	1231.1	214.4	2.9	0.1	1219.3	156.1	0.6	1.9	1238.3	255.7	3.3	0	1237.4	250.3	8.4	5.1	1263.5	434.4	50.6	64.1	1287.2	656.9	40.9	73.5	19
20	1231.3	215.5	1.7	1.2	1218.8	153.9	0.6	1.7	1239.3	261.6	3.0	0	1238.4	256.3	8.2	5.1	1266.4	458.6	43.4	51.2	1280.9	592.0	39.2	71.9	20
21	1230.9	213.2	0.9	2.0	1218.2	151.3	0.6	1.7	1240.2	267.1	2.8	0	1239.2	261.0	7.4	5.1	1266.0	455.2	38.8	40.5	1279.0	575.5	38.3	47.8	21
22	1230.5	211.1	0.9	2.0	1217.7	149.2	0.6	1.7	1240.3	267.7	1.9	1.6	1239.8	264.6	6.9	5.1	1265.9	454.3	35.1	35.6	1287.0	654.7	48.6	7.5	22
23	1229.9	207.8	0.5	2.0	1217.3	147.4	< 0.6	1.6	1239.6	263.4	1.9	4.1	1240.5	269.0	9.6	4.3	1266.0	455.2	51.2	30.7	1290.4	691.2	58.6	20.2	23
24	1229.3	204.7	0.5	1.9	1216.9	145.7	0.6	1.6	1238.9	259.2	2.1	4.2	1241.0	272.2	5.9	4.3	1268.2	474.1	33.4	23.9	1292.3	712.5	41.4	30.7	24
25	1228.7	201.6	0.5	1.9	1216.4	143.5	0.6	1.6	1239.5	261.6	5.4	4.2	1241.5	275.4	5.9	4.3	1275.2	535.3	58.9	8.2	1293.0	709.1	40.7	42.4	25
26	1228.2	199.1	0.4	1.9	1215.9	141.4	0.6	1.6	1238.9	259.2	2.9	4.1	1242.0	278.6	5.7	4.1	1274.7	532.3	29.8	31.1	1289.7	683.5	37.0	49.9	26
27	1227.6	196.0	0.4	2.0	1215.5	139.7	0.6	1.6	1257.5	386.9	81.4	17.0	1242.4	281.1	5.4	4.1	1273.9	525.0	27.4	31.1	1287.4	659.0	37.2	49.5	27
28	1227.0	192.9	0.4	1.9	1215.0	137.5	0.6	1.6	1267.4	467.2	50.8	10.4	1242.8	283.7	5.4	4.1	1272.7	514.1	24.8	30.3	1284.9	652.4	35.5	49.0	28
29	1226.5	190.4	0.4	1.9	1214.5	135.5	0.5	1.6	1265.7	452.6	17.3	24.6	1246.4	307.2	12.0	0.2					1283.5	618.3	33.4	40.5	29
30	1226.1	188.3	0.8	1.9	1213.9	133.1	< 0.5	1.6	1272.6	513.2	41.9	11.4	1255.5	371.6	32.7	0.2					1284.5	628.4	33.9	28.8	30
31	1228.0	198.1	6.9	1.9					1283.3	616.2	83.2	31.2	1260.1	406.8	27.8	10.1					1285.7	640.9	31.6	25.3	31
TOTAL			26.7	60.5			21.2	54.0			379.1	135.5			336.4	442.0			1448.3	1394.2			1023.7	959.8	
Inf. Ac. Ft.			53.0				42.1				751.9				667.2				2872.7				2030.5	6417.4	
Outf. Ac. Ft.				120.0				107.1				268.8				876.7				2765.4			1903.8	6041.8	
Maximum Mean Daily Inflow			7.6				1.9				83.2				32.7				192.4				63.4	192.4	
Minimum Mean Daily Inflow			0				0.5				0.5				5.4				12.6				14.5	0	
Storage Change			-67.1				-65.0				+683.1				-209.4				+107.3				+ 126.8	+375.7	

REMARKS Outflows as of Sta. No. 119 (x) Outflows computed from storage changes { = Mean for period 1/2 Year

Max. W. S. Elev.	1316.5	feet on 5/26to6/19/37	Storage	1021.6	Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS
Min. W. S. Elev.	1207.3	feet on 12/14/36	Storage	107.8	Acre Feet	J. R. Probst	Dam Tender	Gage Hts. copied H.A.V. Checked M.W.R.
Max. Peak Inf.	313.0	C.F.S. from 6:00 P.M. on 2-6-37	to 7:00 P.M. on	2-6-37		R. P. Dalton	Hydrographer	Storage applied H.A.V. Checked M.W.R.
Max. Peak Outf.	140.0	C.F.S. from Various Times —beginning— on		2-14-37			Hydrographer	Inf. & Outf. computed H.A.V. Checked M.W.R.

Gage Hts. & Storage reduced to midnight on day shown

Date 11/24/37

F. C. Dist. Form 88 100 1/37

Storages based on U. S. Soil Conservation Survey of February, 1936.

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 19 37

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Drainage Area 10.82 Square Miles. Capacity of Reservoir 1014.3 Ac. Ft. at Spillway Elev. 1316.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1286.6	650.5	30.1	25.3	1311.5	951.8	10.8	8.0	1316.5	1021.6	8.1	* 8.1	1316.1	1015.8	< 3.5	* 5.4	1305.1	866.1	< 1.6	4.9	1284.0	623.3	< 1.1	5.6	1
2	1287.5	660.1	30.2	25.3	1311.8	955.9	10.1	8.0	1316.5	1021.6	7.6	7.6	1315.9	1012.9	< 3.5	* 5.4	1304.6	859.8	< 1.6	4.9	1283.1	614.2	< 1.0	5.6	2
3	1288.0	665.4	28.0	25.3	1312.1	960.1	10.1	8.0	1316.5	1021.6	7.2	7.2	1315.6	1008.7	< 3.4	5.2	1304.1	853.5	< 1.6	4.9	1282.2	605.1	< 1.0	5.6	3
4	1288.2	667.5	26.5	25.3	1312.8	969.8	11.0	6.1	1316.5	1021.6	7.4	7.4	1315.3	1004.6	< 3.4	5.2	1303.5	846.0	< 1.6	4.9	1281.3	596.0	< 1.0	5.6	4
5	1288.3	668.6	25.9	25.3	1313.7	982.3	11.2	4.9	1316.5	1021.6	8.0	8.0	1315.0	1000.4	< 3.4	5.2	1303.0	839.7	< 1.5	4.9	1280.4	586.9	< 1.0	5.6	5
6	1288.3	668.6	25.3	25.3	1314.3	990.7	10.6	6.4	1316.5	1021.6	7.8	7.8	1314.7	996.2	< 3.0	5.1	1302.4	832.2	< 1.3	4.8	1279.5	578.1	< 0.9	5.6	6
7	1288.4	669.6	25.8	25.3	1314.6	994.8	10.1	8.0	1316.5	1021.6	7.2	7.2	1314.4	992.1	< 3.0	5.1	1301.9	825.9	< 1.3	4.7	1278.5	568.5	< 0.9	5.6	7
8	1287.9	664.3	22.6	25.3	1314.8	997.6	9.4	8.0	1315.5	1021.6	6.7	6.7	1314.1	987.9	< 3.0	5.1	1301.3	818.4	< 1.3	4.7	1277.5	559.0	< 0.8	5.6	8
9	1287.7	662.2	22.2	25.3	1315.0	1000.4	9.4	8.0	1316.5	1021.6	6.9	6.9	1313.8	983.7	< 3.0	5.1	1300.8	812.1	< 1.3	4.7	1276.5	549.4	< 0.8	5.6	9
10	1287.0	654.7	21.2	25.0	1315.6	1008.7	10.5	6.3	1316.5	1021.6	6.8	6.8	1313.5	979.6	< 3.0	5.1	1300.2	804.6	< 1.3	4.7	1275.5	539.8	< 0.8	5.6	10
11	1286.3	647.3	21.2	25.0	1316.2	1017.2	* 10.4	* 6.1	1316.5	1021.6	6.5	6.5	1313.1	974.0	< 2.9	5.1	1299.7	798.5	< 1.3	4.8	1274.5	530.5	< 0.9	5.4	11
12	1287.1	655.8	15.8	13.2	1316.2	1017.2	10.3	10.3	1316.5	1021.6	6.2	6.2	1312.8	969.8	< 2.9	5.1	1299.1	791.4	< 1.3	4.7	1273.5	521.4	< 0.9	5.4	12
13	1289.0	676.0	19.9	9.6	1316.2	1017.2	* 10.2	* 10.2	1316.5	1021.6	6.0	6.0	1312.5	965.7	< 2.9	5.1	1298.5	784.3	< 1.3	4.8	1272.5	512.3	< 0.9	5.4	13
14	1291.1	699.0	19.4	7.2	1316.2	1017.2	10.1	10.1	1316.5	1021.6	6.0	6.0	1312.2	961.5	< 2.9	5.1	1296.0	768.4	< 1.3	4.8	1271.5	503.2	< 0.9	5.4	14
15	1293.5	725.0	19.8	7.2	1316.2	1017.2	10.0	10.0	1316.5	1021.6	6.0	6.0	1311.9	957.3	< 2.9	5.1	1427.4	1711.3	< 1.3	4.8	1270.9	497.8	< 0.8	5.4	15
16	1295.6	749.9	17.5	5.4	1316.2	1017.2	9.9	9.9	1316.5	1021.6	5.4	5.8	1311.6	953.1	< 2.8	5.1	1296.8	764.1	< 1.3	4.8	1270.4	493.2	< 0.7	5.7	16
17	1297.7	774.8	17.7	5.2	1316.2	1017.2	9.8	9.8	1316.5	1021.6	5.4	5.8	1311.3	949.2	< 2.8	5.1	1296.1	755.8	< 1.3	5.2	1269.9	488.7	< 0.7	5.6	17
18	1299.6	797.4	16.6	5.2	1316.2	1017.2	9.7	9.7	1316.5	1021.6	< 5.4	5.7	1311.0	944.8	< 2.8	5.1	1295.4	747.5	< 1.3	5.8	1269.5	485.3	< 0.6	5.6	18
19	1301.3	818.4	15.7	5.1	1316.2	1017.2	9.6	9.6	1316.5	1021.6	5.4	5.8	1310.7	940.6	< 2.8	5.1	1294.7	739.4	< 1.3	5.7	1269.1	481.3	< 0.7	5.6	19
20	1302.9	838.5	15.3	5.2	1316.2	1017.2	9.5	9.5	1316.4	1020.1	5.4	5.1	1310.3	935.1	< 2.8	5.1	1293.9	730.5	< 1.2	5.6	1268.7	476.4	< 0.7	5.6	20
21	1304.1	853.5	14.7	7.1	1316.2	1017.2	9.4	9.4	1316.4	1020.1	< 4.6	4.9	1309.9	929.6	< 2.4	5.1	1293.1	721.5	< 1.2	5.6	1268.3	475.0	< 1.0	5.6	21
22	1305.2	867.4	15.0	8.0	1316.2	1017.2	9.3	9.3	1316.4	1020.1	< 4.6	4.8	1309.5	924.3	< 2.4	5.1	1292.4	713.6	< 1.2	5.6	1268.0	472.4	< 1.0	5.6	22
23	1306.5	882.0	15.4	8.0	1316.2	1017.2	9.2	9.2	1316.4	1020.1	< 4.6	4.7	1309.1	919.0	< 2.4	5.1	1291.6	704.7	< 1.2	5.6	1267.7	469.8	< 1.0	5.6	23
24	1307.1	892.6	13.3	8.0	1316.2	1017.2	9.1	9.1	1316.4	1020.1	< 4.5	4.6	1308.7	913.7	< 2.4	5.1	1290.8	695.7	< 1.2	5.6	1267.3	466.4	< 1.0	5.6	24
25	1307.8	901.8	12.6	8.0	1316.4	1020.1	9.0	7.5	1316.3	1018.7	< 4.5	4.5	1308.3	908.4	< 2.3	5.0	1290.0	686.7	< 1.2	5.6	1266.9	462.9	< 1.1	5.6	25
26	1308.5	911.1	12.7	8.0	1316.5	1021.6	8.9	8.2	1316.3	1018.7	4.5	4.3	1307.9	903.1	< 2.0	5.0	1289.2	678.2	< 1.1	5.6	1266.5	459.5	< 1.1	5.6	26
27	1309.3	921.6	13.3	8.0	1316.5	1021.6	8.9	8.9	1316.3	1018.7	4.2	4.2	1307.5	897.9	< 2.0	5.0	1288.3	668.6	< 1.1	5.6	1266.0	455.2	< 1.1	5.6	27
28	1310.0	930.9	12.7	8.0	1316.5	1021.6	8.8	8.8	1316.3	1018.7	4.2	4.2	1307.0	891.2	< 2.0	5.0	1287.5	660.1	< 1.1	5.6	1265.7	452.6	< 1.1	5.7	28
29	1310.6	939.2	12.2	8.0	1316.5	1021.6	9.2	9.2	1316.3	1018.7	4.1	4.1	1306.6	886.0	< 2.0	5.0	1286.6	650.5	< 1.0	5.6	1265.4	450.0	< 1.1	5.7	29
30	1311.1	946.2	11.5	8.0	1316.5	1021.6	9.3	9.3	1316.3	1018.7	3.8	* 3.8	1306.1	879.3	< 2.0	5.0	1285.8	641.9	< 1.0	5.6	1265.1	447.5	< 1.2	5.7	30
31					1316.5	1021.6	9.0	* 9.0					1305.6	872.7	< 2.0	5.0	1284.9	632.4	< 1.0	5.6					31
TOTAL			570.8	416.9			302.8	264.8			174.8	176.3			84.7	158.3			39.6	160.7			27.8	121.0	
Inf. Ac. Ft.			1132.2				600.6				346.7				168.0				78.5				55.1	8798.5	
Outf. Ac. Ft.				826.9				525.2				349.7				314.0				318.7			240.0	8616.3	
Maximum Mean Daily Inflow			30.2				10.8				8.1				3.5				1.6				1.2	192.4	
Minimum Mean Daily Inflow			11.5				8.8				3.8				2.0				1.0				0.6	0	
Storage Change			+ 305.3				+75.4				-2.9				-146.0				-240.3				-184.9	+182.3	

REMARKS Outflows as of Sta. 119 * Outflow includes flow over spillway { = Mean for period I = Interpolated Year

Max. W. S. Elev.	1316.5	feet on 5/26 to 6/19	Storage	1021.6	Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS
Min. W. S. Elev.	1207.3	feet on 12/14/37	Storage	107.8	Acre Feet	J. R. Probst	Dam Tender	Gage Hts. copied H.A.V. Checked M.W.R.
Max. Peak Inf.	313.0	C.F.S. from 9:00 P.M. on	2-6-37	to 7:00 P.M. on	2-6-37	R. P. Dalton	Hydrographer	Storage applied H.A.V. Checked M.W.R.
Max. Peak Outf.	340.0	C.F.S. from Various Times —beginning— on		2-14-37			Hydrographer	Inf. & Outf. computed H.A.V. Checked M.W.R.

Gage Hts. & Storage reduced to midnight on day shown

Date 11/24/37

F. C. Dist. Form 88 100 1/37

Storages from 10-1-37 to 3-1-38 inclusive, based on U. S. Soil Conservation Survey of February, 1936.
Storages from 3-2-38 to 3-31-30 based on Survey of U.S. Soil Conservation Survey of July, 1938.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam — File No.

In Santa Anita Canyon for the Year Ending September 30, 19 38

3-1-38 - 3-2-38
1014.3 - 688.4

Drainage Area 10.82 Square Miles. Capacity of Reservoir Ac. Ft. at Spillway Elev. 1316.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1264.9	449.8	2.0	3.3	1206.1	103.3	1.3	2.3	1164.3	9.6	1.5	9.0	1220.1	159.6	3.7	0	1253.2	354.8	17.9	8.1	1283.4	617.2	423.1	569.3	1
2	1264.4	441.7	2.0	3.2	1205.5	101.1	1.3	2.4	1159.9	4.8	1.5	3.9	1221.4	165.7	3.1	0	1252.1	346.9	7.6	11.6	1324.0*	760.5	1777.9	1517.6	2
3	1264.1	439.3	2.0	3.2	1204.9	99.0	1.4	2.4	1159.8	4.8	1.5	1.5	1222.8	172.3	3.3	0	1269.5	485.3	74.5	4.7	1319.5	727.1	660.7	687.7	3
4	1263.9	437.7	2.0	3.2	1204.4	97.3	1.4	2.3	1159.8	4.8	1.5	1.5	1223.6	176.1	3.0	1.0	1276.2	546.2	74.1	43.2	1318.4	714.7	275.4	281.6	4
5	1263.6	435.2	1.9	3.2	1203.9	95.6	1.4	2.2	1159.8	4.8	1.5	1.5	1224.0	178.0	2.5	1.6	1272.6	513.2	28.9	45.7	1317.9	709.2	186.2	189.0	5
6	1261.6	419.0	1.9	10.1	1203.4	93.9	1.4	2.3	1159.8	4.8	1.5	1.5	1224.4	179.9	2.6	1.6	1270.2	491.4	17.5	28.5	1317.7	707.0	143.7	144.8	6
7	1258.3	393.0	1.9	15.0	1203.0	92.6	1.4	2.1	1159.8	4.8	1.5	1.5	1224.9	182.2	2.7	1.6	1266.8	462.1	13.7	28.5	1317.6	704.8	120.9	122.0	7
8	1255.2	369.3	1.8	13.7	1202.6	91.2	1.4	2.1	1159.8	4.8	1.5	1.5	1225.4	184.7	2.9	1.6	1260.4	409.2	11.1	37.7	1317.4	703.7	105.2	105.8	8
9	1252.2	347.6	1.8	12.8	1202.1	89.6	1.4	2.2	1159.8	4.8	1.7	1.7	1225.7	186.3	2.4	1.6	1262.1	423.1	20.8	13.8	1317.2	701.5	93.9	95.0	9
10	1249.4	327.6	1.8	11.8	1201.7	88.2	1.4	2.1	1160.0	4.9	2.0	2.0	1226.0	187.8	2.3	1.6	1266.7	461.2	19.2	0	1317.1	700.4	85.0	85.5	10
11	1246.2	305.9	1.7	12.7	1201.3	86.9	1.4	2.0	1185.5	44.7	21.8	1.7	1226.2	188.8	2.2	1.6	1276.5	549.4	63.6	19.2	1317.2	701.5	79.8	79.3	11
12	1242.8	283.7	1.7	12.9	1200.8	85.2	1.4	2.3	1174.8	24.7	6.7	16.8	1226.5	190.4	2.4	1.6	1275.3	537.9	50.0	55.8	1317.6	705.9	146.8	143.6	12
13	1239.0	259.8	1.7	13.7	1200.4	83.8	1.5	2.2	1163.9	9.1	3.4	14.3	1226.7	191.4	2.1	1.6	1270.3	492.3	32.0	54.9	1317.5	704.8	129.1	129.6	13
14	1235.1	237.8	1.6	12.7	1200.0	82.5	1.5	2.1	1168.8	15.5	5.9	2.6	1227.0	192.9	2.3	1.6	1266.2	466.9	25.4	43.3	1317.3	702.6	108.1	109.2	14
15	1231.8	218.3	1.6	11.5	1199.6	81.3	1.5	2.1	1168.8	15.5	3.3	3.3	1233.6	228.2	16.4	0.6	1263.1	431.2	18.8	31.8	1317.2	701.5	92.9	93.5	15
16	1229.2	204.2	1.6	8.7	1199.3	80.4	1.5	2.0	1168.7	15.3	3.3	3.0	1236.3	243.7	7.8	0	1261.5	418.2	16.5	23.0	1317.2	701.5	85.0	85.0	16
17	1226.9	192.4	1.5	7.4	1199.0	79.5	1.5	2.0	1172.5	21.2	5.2	1.2	1238.2	255.1	5.8	0	1261.1	414.9	15.2	26.9	1317.1	700.4	78.0	78.5	17
18	1224.3	179.4	1.5	8.1	1198.7	78.5	1.5	1.9	1177.2	28.9	< 3.2	0	1240.0	265.8	5.4	0	1262.0	422.2	15.5	11.8	1317.1	700.4	73.5	73.5	18
19	1221.8	167.6	1.5	7.4	1198.4	77.7	1.5	2.0	1180.8	35.4	3.2	0	1241.7	276.6	5.4	0	1264.0	438.5	16.6	8.4	1317.0	699.3	69.4	70.0	19
20	1219.3	156.1	1.4	7.2	1198.0	76.6	1.5	2.2	1183.8	41.2	3.2	0	1243.3	286.9	5.2	0	1264.4	441.7	13.2	11.6	1317.0	699.3	67.5	67.8	20
21	1216.9	145.7	1.4	6.7	1197.6	75.3	1.6	2.2	1185.5	44.7	3.2	1.0	1244.7	295.8	4.5	0	1264.4	441.7	11.4	11.4	1317.0	699.3	62.0	62.0	21
22	1215.2	138.4	1.4	5.0	1197.2	74.0	1.6	2.2	1186.3	45.5	3.2	1.7	1245.0	304.5	4.4	0	1264.3	440.9	11.0	11.4	1316.9	698.2	58.5	59.0	22
23	1213.9	133.1	1.4	4.1	1196.8	72.8	1.6	2.2	1192.5	61.3	7.5	0	1247.1	312.0	3.8	0	1264.0	438.5	9.9	11.1	1316.9	698.2	55.0	55.0	23
24	1212.8	128.8	1.3	3.5	1196.4	71.5	1.6	2.2	1196.3	71.3	5.0	0	1248.1	318.8	3.4	0	1263.7	436.0	9.9	11.1	1316.9	698.2	51.0	51.0	24
25	1211.8	124.8	1.3	3.3	1196.0	70.4	1.6	2.2	1199.1	79.8	4.3	0	1248.7	322.9	3.4	1.3	1263.2	432.0	8.9	10.9	1316.4	682.0	1 49.1	57.3	25
26	1210.8	120.9	1.3	3.3	1195.6	69.2	1.6	2.2	1204.0	95.9	8.1	0	1249.0	324.9	3.0	2.0	1262.7	427.9	8.5	10.6	1316.4	682.0	1 47.2	41.8	26
27	1209.9	117.3	1.3	3.1	1195.2	68.0	1.6	2.3	1209.4	115.5	9.9	0	1249.3	326.9	3.0	2.0	1253.1	431.2	16.0	14.3	1316.2	690.6	1 45.3	45.4	27
28	1208.9	113.7	1.3	3.1	1194.9	67.1	1.5	1.9	1212.2	126.4	5.5	0	1249.6	329.0	3.1	2.1	1306.7	887.3	337.6	107.7	1316.4	692.8	1 43.4	42.3	28
29	1208.1	110.7	1.3	2.8	1187.6	48.0	1.5	11.1	1214.6	135.9	4.8	0	1249.9	331.0	3.2	2.2					1316.7	696.0	1 41.5	39.8	29
30	1207.3	107.8	1.3	2.8	1174.7	24.5	1.5	13.4	1215.7	144.8	4.5	0	1250.2	333.1	3.3	2.2					1316.3	691.7	1 39.6	41.8	30
31	1206.6	105.2	1.3	2.6					1218.4	152.2	3.7	0	1250.5	335.3	3.3	2.2					1316.0	688.4	1 37.7	39.4	31
TOTAL			49.5	228.1			44.4	85.1			133.6	71.2			123.9	31.6			965.3	687.0			5331.4	5253.8	
Inf. Ac. Ft.			98.2				88.1				269.0				245.8				1914.6				10574.7	13190.4	
Outf. Ac. Ft.			440.5				168.8				141.2				62.7				1362.6				10420.8	12596.6	
Maximum Mean Daily Inflow			2.0				1.6				21.8				18.4				337.6				1777.9	1777.9	
Minimum Mean Daily Inflow			1.3				1.3				1.5				2.1				7.6				37.7	1.3	
Storage Change			-342.3				-80.7				+127.7				+183.1				+552.0				-196.9+	+240.9**	

REMARKS: 1 - interpolated * Beginning March 2, Storages as of U.S. Soil Conservation Survey of July 1938. (= mean for period — °353.0 A.F. Debris

Max. W. S. Elev.	1328.7	feet on	3-2-38	Storage	1202.4	Acre Feet	
Min. W. S. Elev.	Dry	feet on	9-6-38 to 9-30-38	Storage	0	Acre Feet	
Max. Peak Inf.	5143	C.F.S. from	4:00 P.M.	on 3-2-38	to 4:30 P.M.	on	3-2-38
Max. Peak Outf.	5068	C.F.S. from	4:00 P.M.	on 3-2-38	to 4:30 P.M.	on	3-2-38

Gage Heights and Storage as of midnight on day shown

RECORDS COLLECTED BY		
J.R. Probst	Dam Tender	
R. P. Dalton	Hydrographer	
R. E. Lindsay	Hydrographer	

SECOND 6 MONTHS			
Gage Hts. copied	T.M.	Checked	C.O.G.
Storage applied	T.M.	Checked	C.O.G.
Inf. & Outf. computed	H.A.V.	Checked	J.A.H.
Date	3-5-39		

10-1-37 to 12-8-37 (incl.) Inflows as per U.S.G.S. Station. Outflows computed
12-9-37 to 2-27-38(incl.) Outflows as per Station #119. Inflows computed.
2-28-37 to 3-24-38 (incl.) Outflows computed from valve and Spillway discharge records.

F. C. Dist. Form 88 100 1/37

Storages based on U.S. Soil Conservation Survey of July, 1938.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam — File No.

In Big Santa Anita Canyon for the Year Ending September 30, 1938

3-1-38 - 3-2-38
1014.3 - 688.4

Drainage Area 10.82 Square Miles. Capacity of Reservoir Ac. Ft. at Spillway Elev. 1316.0 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1315.8	686.3	1 35.8	36.9	1316.4	692.8	21.0	21.0	1315.6	694.9	9.5	9.0	1316.1	689.5	6.0	6.6	1231.8	62.9	2.7	9.2	1212.1	1.0	2.5	2.9	1
2	1315.2	679.8	1 33.9	37.1	1316.4	692.8	21.0	21.0	1316.5	693.9	9.	9.5	1315.2	679.8	6.0	10.8	1228.9	50.9	2.7	8.7	1211.9	0.8	2.5	2.6	2
3	1314.5	672.4	1 32.0	35.8	1316.7	696.0	1 19.8	18.2	1316.5	693.9	9.	9.0	1313.7	664.0	5.0	14.0	1225.5	37.6	2.7	9.4	1211.5	0.6	2.4	2.5	3
4	1313.8	665.0	1 30.2	33.9	1316.8	697.1	1 16.6	18.0	1316.5	693.9	9.	9.0	1310.8	634.0	6.0	21.1	1223.7	30.9	2.7	6.1	1212.1	1.0	2.4	2.2	4
5	1312.7	653.6	1 28.4	34.1	1316.8	697.1	17.	17.	1316.5	693.9	8.5	8.5	1304.7	573.1	5.5	36.2	1221.9	24.5	2.7	5.9	1206.1	0	2.3	2.8	5
6	1311.3	639.1	c 26.6 M	34.0	1316.8	697.1	17.1	17.1	1316.4	692.8	8.5	9.1	1300.0	528.4	6.	28.6	1218.8	14.2	2.7	7.9	Dry		2.3	2.8	6
7	1309.7	622.8	1 26.6	34.8	1316.8	697.1	16.4	16.4	1316.5	693.9	9.0	8.4	1296.8	499.0	5.	19.8	1216.7	8.6	2.7	5.5	Dry		M 2.3	2.3	7
8	1308.0	605.5	c 26.7 M	35.3	1316.8	697.1	15.6	15.6	1316.4	692.8	9.0	9.6	1293.5	469.6	5.	19.8	1216.3	7.7	3.0	5.5	Dry		2.2	2.3	8
9	1306.2	587.6	1 26.6	35.6	1316.7	696.0	15.0	15.2	1316.4	692.8	9.0	9.0	1290.5	443.5	4.9	18.1	1214.8	4.9	2.7	4.2	Dry		2.2	2.2	9
10	1304.0	566.3	1 26.5	37.4	1316.7	696.0	14.9	14.9	1316.5	693.9	9.5	8.9	1286.5	426.5	4.9	13.5	1215.4	5.7	2.7	2.2	Dry		2.1	2.2	10
11	1300.2	538.0	1 26.5	20.6	1316.7	696.0	14.5	14.5	1316.4	692.8	9.5	10.1	1288.1	423.1	4.6	6.3	1214.8	4.6	2.7	3.2	Dry		2.1	2.1	11
12	1310.4	629.9	c 26.5 e 0.3	11.6	1316.7	696.0	14.5	14.5	1316.4	692.8	9.5	9.5	1287.9	421.5	4.6	5.4	1215.0	4.9	2.7	2.6	Dry		2.0	2.1	12
13	1315.2	679.8	1 26.3	1.1	1316.7	696.0	14.1	14.1	1316.5	693.9	9.	8.4	1286.6	410.6	4.6	10.1	1215.0	4.9	2.7	2.7	Dry		2.0	2.0	13
14	1316.5	693.9	1 26.1	19.0	1316.7	696.0	13.8	13.8	1316.4	692.8	8.5	9.1	1284.3	391.7	4.6	14.1	1214.8	4.6	2.7	2.8	Dry		1.9	2.0	14
15	1316.5	693.9	26.0	26.0	1316.7	696.0	13.4	13.4	1316.3	691.7	8.	8.5	1281.2	366.9	4.3	16.8	1214.9	4.7	2.7	2.7	Dry		1.9	1.9	15
16	1316.5	693.9	26.0	26.0	1316.7	696.0	14.9	14.9	1316.4	692.8	8.	7.5	1278.0	341.9	4.0	16.6	1215.8	6.6	2.7	1.7	Dry		1.8	1.9	16
17	1316.5	693.9	26.0	25.0	1316.7	696.0	14.1	14.1	1316.5	693.9	7.5	6.9	1275.2	320.6	3.7	14.4	1216.4	7.9	2.7	2.1	Dry		1.8	1.8	17
18	1316.5	693.9	24.0	24.0	1316.6	694.9	13.6	14.1	1316.4	692.8	7.5	8.1	1273.0	304.2	4.0	12.3	1216.1	7.2	2.7	3.0	Dry		1.7	1.8	18
19	1316.5	693.9	24.0	24.0	1316.5	693.9	14.	14.6	1316.3	691.7	7.5	8.0	1270.8	288.2	4.0	12.1	1216.6	8.4	2.7	2.1	Dry		1.7	1.7	19
20	1316.5	693.9	24.0	24.0	1316.6	694.9	13.	12.5	1316.4	692.8	7.5	7.0	1267.9	267.4	4.0	14.5	1218.1	12.2	2.7	0.8	Dry		M 1.6	1.7	20
21	1316.5	693.9	24.0	24.0	1316.5	693.9	12.	12.5	1316.4	692.8	7.0	7.0	1266.0	254.1	4.0	10.7	1217.4	10.3	2.7	3.7	Dry		1.6	1.6	21
22	1316.4	692.8	23.4	24.0	1316.5	693.9	12.	12.0	1316.3	691.7	6.5	7.0	1263.9	239.6	4.0	11.3	1217.5	10.9	2.7	2.0	Dry		1.6	1.6	22
23	1316.4	692.8	22.5	22.5	1316.5	693.9	11.	11.0	1316.3	691.7	6.5	6.5	1261.2	220.9	3.7	13.1	1217.4	10.3	M 2.7	3.0	Dry		1.6	1.6	23
24	1316.4	692.8	22.5	22.5	1316.5	693.9	11.	11.0	1316.4	692.8	6.5	6.0	1258.2	202.1	3.5	13.0	1216.9	9.1	2.7	3.3	Dry		1.7	1.6	24
25	1316.4	692.8	23.0	23.0	1316.5	693.9	11.	11.0	1316.4	692.8	6.5	6.5	1255.8	186.9	3.2	11.3	1218.8	14.2	2.7	0.1	Dry		1.7	1.7	25
26	1316.4	692.8	22.5	22.5	1316.6	694.9	10.	9.5	1316.4	692.8	6.0	6.0	1252.9	169.1	3.5	12.5	1217.4	10.3	2.7	4.7	Dry		1.7	1.7	26
27	1316.4	692.8	21.0	21.0	1316.6	694.9	10.	10.0	1316.2	690.6	6.0	7.1	1249.9	151.9	3.2	11.9	1215.0	4.9	2.7	5.4	Dry		1.7	1.7	27
28	1316.4	692.8	21.0	21.0	1316.5	693.9	10.	10.4	1316.2	690.6	6.0	6.0	1245.6	128.2	3.2	15.1	1215.5	6.7	2.7	2.1	Dry		1.8	1.7	28
29	1316.4	692.8	20.0	20.0	1316.5	693.9	10.	10.0	1316.3	691.7	6.5	5.9	1241.2	106.4	3.2	14.2	1217.8	11.4	c 2.7	0	Dry		1.8	1.8	29
30	1316.4	692.8	20.5	20.5	1316.4	692.8	10.	10.6	1316.2	690.6	6.5	7.1	1237.8	90.0	3.0	11.3	1216.8	8.8	2.6	3.9	Dry		• 1.8	1.8	30
31					1316.5	693.9	9.5	8.9					1234.7	75.7	3.0	10.2	1212.9	1.8	2.6	6.2				1.8	31
TOTAL			768.1	765.9			433.3	432.7			236.5	238.2			135.7	445.7			83.8	121.1			58.7	59.6	
Inf. Ac. Ft.			1523.5				859.4				469.1				269.2				166.2				116.4	16594.2	
Outf. Ac. Ft.			1519.1				858.2				472.5				884.6				240.2				118.2	16688.8	
Maximum Mean Daily Inflow			35.8				21.0				9.5				6.0				2.7				2.5	1777.9	
Minimum Mean Daily Inflow			20.0				9.5				6.0				3.0				2.6				1.6	1.3	
Storage Change			+4.4				+1.1				-3.3				-614.9				-73.9				-1.8	-447.5**	

REMARKS: M = measured 1 = interpolated E = estimated c = computed °° Debris loss + 353.0 A.F.

Max. W. S. Elev.	1328.7	feet on	3-2-38	Storage	1202.4	Acre Feet	
Min. W. S. Elev.	Dry	feet on	9-5-38 to 9-30-38	Storage	0	Acre Feet	
Max. Peak Inf.	5143	C.F.S. from	4:00 P.M.	on 3-2-38	to 4:30 P.M.	on	3-2-38
Max. Peak Outf.	5068	C.F.S. from	4:00 P.M.	on 3-2-38	to 4:30 P.M.	on	3-2-38

Gage Heights and Storage as of midnight on day shown

RECORDS COLLECTED BY		
J. R. Probst	Dam Tender	
R. P. Dalton	Hydrographer	
R. E. Lindsay	Hydrographer	

SECOND 6 MONTHS			
Gage Hts. copied	H.A.V.	Checked	J.A.H.
Storage applied	H.A.V.	Checked	J.A.H.
Inf. & Outf. computed	H.A.V.	Checked	J.A.H.
Date	3-5-39		

4-19-38 to 5-4-38 (incl.) Outflows as indicated by Spillway Curve. Inflows computed. 9-10-38 to 9-30-38 (incl.) Inflows interpolated between
5- 5-38 to 5-18-38 (incl.) Outflows as indicated by rating of west section of Spillway. U.S.G.S. measurements.
5-19-38 to 9-30-38 (incl.) Inflows as per U.S.G.S. gaging station

F. C. Dist. Form 69 100 1/37

Storages based on L.A.C.F.C.D. Survey of October, 1935-See Map 54T2

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 19 37

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder Au

Drainage Area 3.27 Square Miles. Capacity of Reservoir 389.0 Ac. Ft. at Spillway Elev. 1360.0 Ft.

Gage Heights Read daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1					Dry	0	0.1	0	1270.1	4.4	0.05	0	1309.4	85.8	4.7	5.0	1306.2	75.5	3.3	6.5	1303.2	66.3	4.9	5.7	1
2					1264.2	0.1	0.1	0	1270.2	4.5	0.05	0	1308.4	82.6	14.3	5.9	1304.0	68.7	2.2	5.7	1302.2	63.4	4.3	5.7	2
3					1264.7	0.3	0.1	0	1270.3	4.6	0.05	0	1306.9	77.7	13.9	6.4	1303.0	65.8	2.1	3.5	1301.3	60.8	4.0	5.3	3
4					1265.2	0.6	0.1	0	1270.4	4.7	0.05	0	1305.3	72.6	13.5	6.1	1303.3	66.6	1.8	1.4	1301.1	60.2	3.6	3.9	4
5					1265.7	1.0	0.1	0	1270.5	4.8	0.05	0	1304.0	68.7	13.1	5.0	1303.6	67.5	1.8	1.4	1302.2	63.4	3.3	1.7	5
6					1266.0	1.2	0.1	0	1270.6	4.9	0.05	0	1305.5	73.2	12.7	0.5	1310.2	88.5	20.7	10.1	1303.5	67.2	1.9	0	6
7					1266.3	1.5	0.1	0	1270.7	5.0	0.05	0	1306.9	77.7	2.3	0	1309.5	86.1	17.6	18.8	1304.7	70.7	1.8	0	7
8					1266.6	1.7	0.1	0	1270.8	5.1	0.05	0	1308.1	81.6	2.0	0	1305.9	74.5	15.0	20.8	1305.9	74.5	1.9	0	8
9					1266.9	1.9	0.1	0	1270.9	5.2	0.05	0	1309.1	84.8	1.6	0	1302.4	64.0	10.0	15.3	1307.0	78.1	1.8	0	9
10					1267.1	2.1	0.1	0	1270.9	5.2	0.05	0	1309.2	85.2	1.3	1.1	1300.9	59.6	6.3	8.5	1308.0	81.3	1.6	0	10
11					1267.3	2.2	0.1	0	1271.0	5.3	0.05	0	1309.2	85.2	1.6	1.6	1300.6	58.7	1.5.6	6.1	1309.0	84.5	1.6	0	11
12					1267.6	2.4	0.1	0	1271.1	5.4	0.05	0	1309.2	85.2	1.9	1.9	1303.9	68.4	4.9	0	1308.5	82.9	5.4	6.2	12
13					1267.8	2.6	0.1	0	1271.2	5.5	0.05	0	1309.2	85.2	1.9	1.9	1309.7	86.8	9.7	0.4	1309.5	86.1	12.2	10.6	13
14					1268.0	2.7	0.1	0	1271.3	5.6	0.05	0	1309.2	85.2	1.6	1.6	1310.7	90.3	35.8	34.1	1309.4	85.8	6.9	7.0	14
15					1268.2	2.9	0.05	0	1276.9	11.9	3.1	0	1309.2	85.2	1.4	1.4	1309.7	86.8	22.2	23.9	1309.4	85.8	11.1	11.1	15
16					1268.3	3.0	0.05	0	1279.8	15.7	1.9	0	1309.2	85.2	1.4	1.4	1306.3	75.8	15.1	20.7	1307.2	78.7	12.5	16.1	16
17					1268.5	3.1	0.05	0	1281.2	17.8	1.1	0	1309.2	85.2	1.3	1.3	1301.4	61.1	12.0	19.4	1304.7	70.7	8.5	12.5	17
18					1268.6	3.2	0.05	0	1282.1	19.2	0.7	0	1308.1	81.6	11.2	3.0	1297.3	50.0	9.8	15.4	1303.6	67.5	8.3	10.0	18
19					1268.7	3.3	0.05	0	1282.7	20.1	0.4	0	1306.4	76.1	11.1	3.9	1299.0	54.4	9.3	7.1	1303.7	67.8	7.9	7.7	19
20					1268.9	3.4	0.05	0	1283.3	21.0	0.5	0	1304.8	71.0	11.0	3.6	1302.6	64.6	1.8.1	2.9	1304.7	70.7	7.5	6.0	20
21					1269.0	3.5	0.05	0	1283.7	21.7	0.3	0	1303.4	66.9	10.9	2.9	1302.1	63.1	1.7.0	7.8	1305.4	72.9	7.1	6.0	21
22					1269.1	3.6	0.05	0	1284.1	22.3	0.3	0	1302.2	63.4	10.9	2.7	1301.1	60.2	5.9	7.3	1307.8	80.6	9.9	6.0	22
23					1269.3	3.7	0.05	0	1284.5	22.9	0.3	0	1302.0	62.8	10.8	1.1	1300.6	58.7	5.1	5.9	1307.8	80.6	7.8	7.8	23
24					1269.5	3.9	0.05	0	1284.9	23.5	0.3	0	1302.5	64.3	0.8	0	1302.2	63.4	6.6	4.2	1306.6	76.8	7.9	9.9	24
25					1269.6	4.0	0.05	0	1285.7	25.0	0.8	0	1302.9	65.5	0.6	0	1304.6	70.4	7.9	4.4	1304.9	71.3	7.2	9.9	25
26					1269.7	4.0	0.05	0	1286.2	25.9	0.4	0	1303.1	66.1	0.3	0	1305.1	71.9	6.1	5.3	1302.9	65.5	6.9	9.9	26
27					1269.8	4.1	0.05	0	1298.5	53.1	13.8	0	1303.2	66.3	0.1	0	1306.2	75.5	5.5	3.7	1300.6	58.7	6.5	9.9	27
28					1269.9	4.2	0.05	0	1304.7	70.7	8.8	0	1303.4	66.9	0.3	0	1303.7	67.8	5.1	9.0	1298.1	52.1	6.6	9.9	28
29					1270.0	4.3	0.05	0	1306.7	77.1	3.3	0	1304.1	69.0	1.0	0					1297.3	50.0	5.9	7.0	29
30					1270.1	4.4	0.05	0	1310.1	88.1	7.6	2.1	1307.5	79.7	5.4	0					1299.8	56.5	5.5	2.2	30
31	1264.2	0.1	0.05	0					1309.6	86.4	13.3	13.2	1308.2	81.9	4.3	3.2					1303.8	68.1	5.9	0	31
TOTAL			0.	0			2.2				56.6	15.3			59.2	61.5			262.5	269.6			188.2	188.0	
Inf. Ac. Ft.			0.1				4.4				112.3				117.4				520.7				373.3	1128.2	
Outf. Ac. Ft.				0				0				30.3				122.0				534.8			372.9	1060.0	
Maximum Mean Daily Inflow			0.05				0.1				13.8				5.4				35.8				12.5	35.8	
Minimum Mean Daily Inflow			0				0.05				0.05				0.1				1.8				1.6	0	
Storage Change			+ 0.1				+ 4.3				+82.0				- 4.5				- 14.1				+0.3	+68.1	

REMARKS { Mean for period ; Interpolated

Year

Max. W. S. Elev.	1311.5 feet on 2-14-37 Storage 93x2 Acre Feet	RECORDS COLLECTED BY			SECOND 6 MONTHS	
Min. W. S. Elev.	Dry feet on Various Dates Storage 0 Acre Feet	M. L. Packer	Dam Tender	Gage Hts. copied H.A.V.	Checked M.W.R.	
Max. Peak Inf.	35.8 C.F.S. from Mean daily on 2-14-37 to on	R.P. Dalton	Hydrographer	Storage applied H.A.V.	Checked M.W.R.	
Max. Peak Outf.	34.1 C.F.S. from Mean daily on 2-14-37 to on		Hydrographer	Inf. & Outf. computed H.A.V.	Checked M.W.R.	
				Date 10-19-37		

Gage Hts reduced to midnight on day shown

F. C. Dist. Form 69 100 1/37

Storages based on L.A.C.F.C.D. Survey of October, 1935-See Map 54T2

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In SAWPIT CANYON for the Year Ending September 30, 19 37

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder Au

Drainage Area 327 Square Miles. Capacity of Reservoir 389.0 Ac. Ft. at Spillway Elev. 1360.0 Ft.

Gage Heights Read Daily

Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1307.2	78.7	5.3	0	1309.5	86.1	2.3	2.3	1309.3	85.5	1.0	1.0	1309.0	84.5	0.1	0.1	1287.0	27.4	0.1	0	1289.5	32.1		0	1
2	1308.1	81.6	4.9	3.4	1309.5	86.1	2.3	2.3	1309.3	85.5	0.9	0.9	1309.0	84.5	0.1	0.1	1287.1	27.6	0.1	0	1289.5	32.1		0	2
3	1307.1	78.4	3.7	5.3	1309.5	86.1	2.3	2.3	1309.3	85.5	0.7	0.7	1308.1	81.6	0.1	1.6	1287.2	27.8	0.1	0	1289.6	32.3		0	3
4	1306.2	75.5	3.8	5.3	1309.5	86.1	2.3	2.3	1309.3	85.5	0.8	0.8	1306.7	77.1	0.1	2.3	1287.4	28.2	0.1	0	1289.6	32.3		0	4
5	1306.0	74.8	3.8	4.1	1309.5	86.1	2.3	2.3	1309.3	85.5	0.7	0.7	1305.3	72.6	0.1	2.4	1287.5	28.4	0.1	0	1289.6	32.3		0	5
6	1306.4	76.1	3.6	3.0	1309.2	85.2	2.3	2.8	1309.3	85.5	0.7	0.7	1303.7	67.8	0.1	2.5	1287.6	28.5	0.1	0	1289.6	32.3		0	6
7	1304.7	70.7	3.9	6.6	1309.0	84.5	1.4	1.7	1309.3	85.5	0.7	0.7	1302.2	63.4	0.1	2.3	1287.7	28.7	0.1	0	1289.6	32.3		0	7
8	1303.2	66.3	3.9	6.1	1309.0	84.5	0.6	0.6	1309.2	85.2	0.5	0.7	1301.1	60.2	0.1	1.8	1287.8	28.9	0.1	0	1289.7	32.5		0	8
9	1303.5	67.2	3.6	3.2	1309.1	84.8	0.8	10.7	1309.2	85.2	0.7	0.7	1300.6	58.7	0.1	0.8	1287.9	29.1	0.1	0	1289.7	32.5		0	9
10	1303.8	68.1	3.7	3.2	1309.2	85.2	1.0	0.8	1309.2	85.2	0.7	0.7	1299.0	54.4	0.1	2.3	1287.9	29.3	0.1	0	1289.7	32.5	Ineligible	0	10
11	1304.6	70.4	3.6	2.4	1309.2	85.2	0.7	0.7	1309.2	85.2	0.7	0.7	1297.0	49.3	0.1	2.6	1288.0	29.3	0.1	0	1289.7	32.5		0	11
12	1307.1	78.4	4.0	0	1309.2	85.2	0.7	0.7	1309.2	85.2	0.7	0.7	1295.4	45.1	0.1	2.3	1288.1	29.5	0.1	0	1289.7	32.5		0	12
13	1303.5	67.2	3.9	9.6	1309.2	85.2	0.7	0.7	1309.2	85.2	0.7	0.7	1293.5	40.8	0.1	2.2	1288.2	29.7	0.1	0	1289.7	32.5		0	13
14	1300.8	59.3	13.6	7.5	1309.2	85.2	0.7	0.7	1309.2	85.2	0.7	0.7	1292.1	37.7	0.1	1.7	1288.3	29.8	0.1	0	1289.8	32.7		0	14
15	1303.0	66.8	3.2	0	1309.2	85.2	0.7	0.7	1309.2	85.2	0.7	0.7	1291.3	35.9	0.1	1.0	1288.4	30.0	0.1	0	1289.8	32.7		0	15
16	1305.2	72.3	3.3	0	1309.2	85.2	0.7	0.7	1309.2	85.2	0.6	0.6	1290.5	34.1	0.1	1.0	1288.5	30.2	0.1	0	1289.8	32.7		0	16
17	1307.0	78.1	2.9	0	1309.3	85.5	0.9	0.7	1309.2	85.2	0.5	0.5	1289.6	32.3	0.1	1.0	1288.5	30.2	0.1	0	1289.8	32.7		0	17
18	1308.7	83.5	2.8	0	1309.3	85.5	0.7	0.7	1309.2	85.2	0.5	0.5	1288.8	30.8	0.1	0.9	1288.6	30.4	0.1	0	1289.8	32.7		0	18
19	1309.3	85.5	2.9	1.9	1309.3	85.5	0.7	0.7	1309.2	85.2	0.4	0.4	1287.9	29.1	0.1	0.9	1288.7	30.6	0.1	0	1289.8	32.7		0	19
20	1309.3	85.5	12.5	2.5	1309.3	85.5	0.7	0.7	1309.2	85.2	0.3	0.3	1286.8	27.0	0.1	1.2	1288.8	30.8	0.1	0	1289.8	32.7		0	20
21	1309.4	85.8	2.1	2.0	1309.3	85.5	0.7	0.7	1309.2	85.2	0.3	0.3	1285.7	25.0	0.1	1.1	1288.9	31.0	0.1	0	1289.8	32.7		0	21
22	1309.4	85.8	2.4	2.4	1309.3	85.5	0.7	0.7	1309.1	84.8	0.1	0.3	1285.4	24.4	0.1	0.4	1289.0	31.2	0.1	0	1289.8	32.7		0	22
23	1309.4	85.8	2.5	2.5	1309.3	85.5	0.8	0.8	1309.1	84.8	0.3	0.3	1285.7	25.0	0.2	0	1289.0	31.2	0.1	0	1289.8	32.7		0	23
24	1309.5	86.1	2.7	2.5	1309.3	85.5	0.9	0.9	1309.1	84.8	0.3	0.3	1285.8	25.2	0.2	0	1289.1	31.3	0.1	0	1289.8	32.7		0	24
25	1309.5	86.1	2.5	2.5	1309.3	85.5	1.0	1.0	1309.1	84.8	0.2	0.2	1286.0	25.5	0.2	0	1289.2	31.5	0.1	0	1289.8	32.7		0	25
26	1309.5	86.1	2.6	2.6	1309.3	85.5	1.0	1.0	1309.1	84.8	0.2	0.2	1286.1	25.7	0.2	0	1289.3	31.7	0.1	0	1289.8	32.7		0	26
27	1309.5	86.1	2.6	2.6	1309.3	85.5	1.0	1.0	1309.0	84.5	0.1	0.2	1286.3	26.1	0.1	0	1289.3	31.7	0	0	1289.8	32.7		0	27
28	1309.5	86.1	2.5	2.5	1309.3	85.5	1.0	1.0	1309.0	84.5	0.2	0.2	1286.4	26.3	0.1	0	1289.4	31.9	0	0	1289.8	32.7		0	28
29	1309.5	86.1	2.5	2.5	1309.3	85.5	1.0	1.0	1309.0	84.5	0.1	0.1	1286.5	26.5	0.1	0	1289.4	31.9	0	0	1289.8	32.7		0	29
30	1309.5	86.1	2.4	2.4	1309.3	85.5	1.0	1.0	1309.0	84.5	0.1	0.1	1286.7	26.9	0.1	0	1289.4	31.9	0	0	1289.8	32.7		0	30
31					1309.3	85.5	1.0	1.0					1286.8	27.0	0.1	0	1289.5	32.1	0	0					31
TOTAL			97.7	88.6			34.9	35.2			15.1	15.6			3.5	32.5			2.6	0			0.3	0	
Inf. Ac. Ft.			193.8				69.2				29.9				6.9				5.1				0.6	1433.7	
Outf. Ac. Ft.			175.7					69.8				30.9				64.5			0				0	1400.9	
Maximum Mean Daily Inflow			5.3				2.3				1.0				0.2				0.1				0	35.8	
Minimum Mean Daily Inflow			2.1				0.6				0.1				0.1				0				0	0	
Storage Change			+18.0				- 0.6				- 1.0				- 57.5				+5.1				+0.6	+32.7	

REMARKS 1 - Interpolated E - Estimated * Inflows estimated beginning 7/3/37 { = mean for period

Year

Max. W. S. Elev.	1311.5 feet on 2-14-37 Storage 93.2 Acre Feet	RECORDS COLLECTED BY			SECOND 6 MONTHS	
Min. W. S. Elev.	Dry feet on Various Dates Storage Acre Feet	M. L. Packer	Dam Tender	Gage Hts. copied H.A.V.	Checked M.W.R.	
Max. Peak Inf.	35.8 C.F.S. from Mean Daily on 2-14-37 to on	R. P. Dalton	Hydrographer	Storage applied H.A.V.	Checked M.W.R.	
Max. Peak Outf.	34.1 C.F.S. from Mean Daily on 2-14-37 to on		Hydrographer	Inf. & Outf. computed H.A.V.	Checked M.W.R.	
				Date 10-19-37		

Gage Hts as of midnight on day shown

F. C. Dist. Form 88 100 1/37

Storages prior to March 2, 1938, based on L.A.C.F.C.D. Survey of October, 1935
Storages on and following March 2, 1938, corrected for debris loss following March 2, storm.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAWPIT Dam

File No.

In Sawpit Canyon for the Year Ending September 30, 1938

Drainage Area 3.27 Square Miles. Capacity of Reservoir 3-1-38 389.0 3-2-38 319.7 Ac. Ft. at Spillway Elev. 1360.0 Ft.

Continuous Water Stage Recorder AU

Gage Heights Read Daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1289.8	32.7	0	0	1289.6	32.3	0	0	1289.5	32.1	0	0	1296.6	45.7	0.2	0	1296.5	48.0	3.4	0	1326.4	157.4	82.9	63.1	1
2	1289.8	32.7	0	0	1289.6	32.3	0	0	1289.5	32.1	0	0	1295.8	45.2	0.2	0	1297.6	50.8	1.4	0	1364.2	*354.5	383.9	247.3	2
3	1289.8	32.7	0	0	1289.6	32.3	0	0	1289.5	32.1	0	0	1296.9	46.4	0.2	0	1310.0	87.7	21.5	2.9	1360.3	322.1	128.5	144.9	3
4	1289.8	32.7	0	0	1289.6	32.3	0	0	1289.5	32.1	0	0	1296.1	46.9	0.1	0	1309.6	86.4	15.4	16.2	1364.7	379.8	59.6	75.8	4
5	1289.8	32.7	0	0	1289.6	32.3	0	0	1289.5	32.1	0	0	1296.2	47.2	0.1	0	1308.1	81.6	6.0	8.4	1344.1	270.1	36.5	71.3	5
6	1289.8	32.7	0	0	1289.6	32.3	0	0	1289.4	31.9	0	e 0.1	1296.2	47.2	0.1	0	1305.5	73.2	3.0	7.3	1332.6	145.6	35.1	67.7	6
7	1289.8	32.7	0	0	1289.6	32.3	0	0	1289.4	31.9	0	0	1296.3	47.5	0.2	0	1303.9	68.4	2.1	4.2	1318.0	82.1	27.1	59.1	7
8	1289.7	32.5	0	0.1	1289.6	32.3	0	0	1289.4	31.9	0	0	1296.4	47.7	0.1	0	1298.8	53.9	0.7	7.8	1310.2	58.3	1 21.1	33.1	8
9	1289.7	32.5	0	0	1289.6	32.3	0	0	1289.4	31.9	0	0	1296.6	48.0	0.1	0	1295.1	44.4	4.7	9.5	1310.1	58.1	15.1	M 15.2	9
10	1289.7	32.5	0	0	1289.5	32.3	0	0	1289.4	31.9	0	0	1296.6	48.2	0.1	0	1298.6	53.4	4.6	0	1310.1	58.1	e 12.0	e 12.0	10
11	1289.7	32.5	0	0	1289.6	32.3	0	0	1290.7	34.6	1.4	0	1296.7	48.5	0.1	0	1300.8	59.3	9.7	6.8	1310.4	58.8	e 11.3	e 11.0	11
12	1289.7	32.5	0	0	1289.6	32.3	0	0	1291.2	35.7	0.5	0	1296.8	48.7	0.1	0	1300.5	58.4	9.1	9.5	1311.1	60.7	21.0	20.0	12
13	1289.7	32.5	0	0	1289.6	32.3	0	0	1291.6	36.6	0.5	0	1296.8	48.7	0.1	0	1297.8	51.3	5.8	9.4	1311.2	60.9	16.8	16.7	13
14	1289.7	32.5	0	0	1289.5	32.1	0	0.1 e	1291.8	37.0	0.2	0	1297.0	49.3	0.3	0	1295.7	45.9	4.8	7.5	1311.2	60.9	16.0	16.0	14
15	1289.7	32.5	0	0	1289.5	32.1	0	0	1291.9	37.2	0.4	0	1297.4	51.6	1.4	0	1294.4	42.8	3.3	4.8	1311.2	60.9	14.5	1 14.5	15
16	1289.7	32.5	0	0	1289.5	32.1	0	0	1292.0	37.5	0.4	0	1298.3	52.6	0.5	0	1293.4	40.6	1 3.3	4.4	1311.0	60.4	13.7	M 14.0	16
17	1289.7	32.5	0	0	1289.5	32.1	0	0	1292.1	37.7	0.1	0	1298.7	53.6	0.5	0	1292.6	38.8	1 3.2	4.1	1311.2	60.9	1 13.1	12.8	17
18	1289.7	32.5	0	0	1289.5	32.1	0	0	1292.3	37.9	0.1	0	1299.2	54.9	0.7	0	1293.8	41.5	1 3.1	1.7	1311.1	60.7	1 12.5	12.5	18
19	1289.7	32.5	0	0	1289.5	32.1	0	0	1292.3	38.1	0.1	0	1299.7	56.2	0.5	0	1296.3	47.5	3.0	0	1311.7	62.2	1 11.9	11.2	19
20	1289.7	32.5	0	0	1289.5	32.1	0	0	1292.4	38.4	0.2	0	1300.1	57.3	0.6	0	1298.2	52.4	2.4	0	1311.7	62.2	1 11.3	11.3	20
21	1289.7	32.5	0	0	1289.5	32.1	0	0	1292.5	38.6	0.1	0	1300.2	57.8	0.2	0	1299.3	55.2	1.5	0	1311.9	62.7	1 10.7	10.4	21
22	1289.7	32.5	0	0	1289.5	32.1	0	0	1292.7	39.0	0.2	0	1299.5	55.7	1 0.2	1.2	1300.2	57.6	1.2	0	1311.9	62.7	1 10.1	10.1	22
23	1289.7	32.5	0	0	1289.5	32.1	0	0	1292.9	39.5	0.2	0	1298.8	53.9	1 0.2	1.1	1301.2	60.5	1.4	0	1309.6	56.8	1 9.5	12.5	23
24	1289.7	32.5	0	0	1289.5	32.1	0	0	1293.2	40.1	0.3	0	1297.9	51.6	1 0.2	1.4	1302.2	63.4	1.5	0	1309.6	56.8	1 9.0	9.0	24
25	1289.7	32.5	0	0	1289.5	32.1	0	0	1293.5	40.8	0.4	0	1296.8	49.0	1 0.2	1.5	1303.1	66.1	1.4	0	1309.9	57.6	8.5	M 8.1	25
26	1289.7	32.5	0	0	1289.5	32.1	0	0	1294.1	42.1	0.5	0	1295.9	46.4	1 0.2	1.5	1303.8	68.1	1.0	0	1310.0	57.8	1 8.5	8.4	26
27	1289.6	32.3	0	0.1	1289.5	32.1	0	0	1294.5	43.2	0.5	0	1294.3	42.6	1 0.2	2.1	1300.8	59.3	1.1	5.6	1310.0	57.8	1 8.5	8.5	27
28	1289.6	32.3	0	0	1289.5	32.1	0	0	1295.0	44.1	0.5	0	1293.3	40.3	1 0.2	1.4	1317.9	118.2	48.2	18.5	1310.1	58.1	1 8.5	8.3	28
29	1289.6	32.3	0	0	1289.5	32.1	0	0	1295.2	44.6	0.2	0	1293.5	40.8	0.2	0					1309.6	56.8	1 8.6	9.3	29
30	1289.6	32.3	0	0	1289.5	32.1	0	0	1295.3	44.9	0.2	0	1293.7	41.2	0.2	0					1309.8	57.3	8.7	M 8.4	30
31	1289.6	32.3	0	0					1295.4	45.4	0.2	0	1293.7	41.2	0.1	0					1309.9	57.6	1 8.4	8.4	31
TOTAL			0	0.2			0	0.1			6.6	0.1			8.1	10.2			167.6	129.0			1036.6	1029.9	
Inf. Ac. Ft.			0				0				13.5				16.0				332.6				2056.1	2418.4	
Outf. Ac. Ft.			0.4				0.2				0.2				20.2					255.8			2042.8	2319.6	
Maximum Mean Daily Inflow			0				0				1.4				1.1				48.2				383.9	383.9	
Minimum Mean Daily Inflow			0				0				0				0.1				1.0				8.4	0	
Storage Change			-0.4				-0.2				+13.3				-4.2				+ 77.0				- 60.6 + °		+ 24.9 + °	

REMARKS i = interpolated. M = measured. E = estimated. * Begin 3-2-38. Storages corrected for debris loss. ° = Debris loss = 73.9 A.F. Year

Max. W. S. Elev.	1320.1	feet on 3-2-38	Storage	446.9	Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS		
Min. W. S. Elev.	Dry	feet on various times	Storage	0	Acre Feet	M. L. Packer	Dam Tender	Gage Hts. copied	T.M.	Checked C.O.G.
Max. Peak Inf.	1069	C.F.S. from 4:00 P.M. on 3-2-38	to	4:30 P.M. on	3-2-38	R. P. Dalton	Hydrographer	Storage applied	T.M.	Checked C.O.G.
Max. Peak Outf.	665	C.F.S. from 6:00 P.M. on 3-2-38	to	7:00 P.M. on	3-2-38	R. L. Lindsey	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked J.A.H.
								Date	3-7-39	

Gage Heights and Storages as of midnight on day shown.

F. C. Dist. Form 88 100 1/37

Storages based on L.A.C.F.C.D. Survey of October, 1935 and corrected for debris loss.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAWPIT Dam

File No.

In Sawpit Canyon for the Year Ending September 30, 1938

Drainage Area 3.27 Square Miles. Capacity of Reservoir 3-1-38 389.0 3-2-38 319.7 Ac. Ft. at Spillway Elev. 1360.0 Ft.

Continuous Water Stage Recorder AU

Gage Heights Read Daily

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1309.4	56.3	1 8.1	8.8	1309.6	56.8	1 3.3	3.3	1309.1	55.6	0.5	M 0.5	1274.4		1 0.4	0.4			1 0.1	0.1			e 0.1	0.1	1
2	1309.6	56.8	1 7.9	7.9	1309.6	56.8	3.2	M 3.2	1309.2	55.8	1 0.5	0.4	1274.6		1 0.4	0.4			1 0.1	0.1			e 0.1	0.1	2
3	1309.7	57.1	1 7.7	7.9	1309.8	56.8	1 3.0	3.0	1309.2	55.8	1 0.5	0.5	1275.5		1 0.4	0.4			1 0.1	0.1			e 0.1	0.1	3
4	1309.4	56.3	1 7.5	7.9	1309.6	56.8	1 2.9	2.9	1309.2	55.8	1 0.5	0.5	1275.0		1 0.4	0.4			1 0.1	0.1			e 0.1	0.1	4
5	1309.5	56.6	1 7.3	7.1	1309.5	56.6	2.8	M 2.9	1309.2	55.8	1 0.5	0.5	1274.6		1 0.4	0.4			1 0.1	0.1			e 0.1	0.1	5
6	1309.5	56.8	7.1	M 7.1	1309.5	56.6	1 2.7	2.7	1309.2	55.8	1 0.5	0.5	1274.8		1 0.3	0.3			1 0.1	0.1			e 0.1	0.1	6
7	1309.4	56.3	1 6.9	9.7	1309.6	56.8	1 2.7	2.5	1309.2	55.8	1 0.4	0.4	1274.0		1 0.3	0.3			1 0.1	0.1			e 0.1	0.1	7
8	1309.4	56.3	6.0	M 9.0	1309.6	56.8	1 2.5	2.5	1309.2	55.8	1 0.4	0.4	1274.0		1 0.3	0.3			1 0.1	0.1			e 0.1	0.1	8
9	1309.5	56.6	1 5.9	5.7	1309.6	56.8	2.4	M 2.4	1308.5	54.1	1 0.4	1.2	1274.1		1 0.3	0.3			1 0.1	0.1			e 0.1	0.1	9
10	1309.6	56.8	1 5.8	5.7	1309.6	56.8	1 2.4	2.4	1307.3	51.1	1 0.4	1.9	1274.2		1 0.3	0.3			0.1	M 0.1			e 0.1	0.1	10
11	1309.4	56.3	1 5.7	6.0	1309.6	56.8	1 2.3	2.3	1307.7	52.1	0.4	0	1273.9		1 0.2	0.2			e 0.1	0.1			e 0.1	0.1	11
12	1309.5	56.6	1 5.7	5.5	1309.6	56.8	2.3	M 2.3	1308.0	52.8	0.4	0	1273.9		1 0.2	0.2			e 0.1	0.1			e 0.1	0.1	12
13	1309.5	56.6	1 5.6	5.8	1309.4	56.3	1 2.1	2.4	1308.0	52.8	e 0.4	0.4	1273.9		1 0.2	0.2			e 0.1	0.1				0.05 M	0.05	13
14	1309.6	52.8	5.6	M 5.5	1309.4	52.3	1 2.0	2.0	1305.0	45.7	e 0.4	4.0	1273.9		0.2	M 0.2			e 0.1	0.1			0.05	0.05	14
15	1309.5	56.6	1 5.4	5.5	1309.4	56.3	1 1.9	1.9	1301.0	36.8	e 0.4	4.9	1273.8		1 0.2	0.2			e 0.1	0.1	Dry		0.05	0.05	15
16	1309.2	56.6	1 5.3	5.3	1309.4	56.3	1 1.8	1.8	1291.0	17.6	e 0.4	10.1			1 0.2	0.2			e 0.1	0.1			0.05	0.05	16
17	1309.6	56.8	1 5.2	5.1	1309.3	56.1	1 1.7	1.8	1291.9	19.1	0.7	0			1 0.2	0.2			e 0.1	0.1			0.05	0.05	17
18	1309.8	56.8	1 5.1	5.1	1309.1	55.6	1.6	M 1.8	1292.5	20.4	0.6	0			1 0.2	0.2			e 0.1	0.1			0.05	0.05	18
19	1309.6	56.8	1 5.0	5.0	1309.0	55.3	1 1.4	1.6	1293.1	21.3	0.5	0			1 0.2	0.2			e 0.1	0.1			0.05	0.05	19
20	1309.6	56.8	1 4.9	4.9	1308.9	55.1	1 1.2	1.3	1293.4	22.0	0.5	0			1 0.2	0.2			e 0.1	0.1			0.05	0.05	20
21	1309.6	56.8	4.8	M 4.8	1309.1	55.6	1 1.1	0.8	1278.4	1.1	1 0.5	11.1			1 0.2	0.2			e 0.1	0.1			0.05	0.05	21
22	1309.5	56.8	e 4.8	4.8	1309.1	55.6	1 1.0	1.0	1280.9	3.1	0.5	0			1 0.2	0.2			e 0.1	0.1			0.05	0.05	22
23	1309.6	52.8	e 4.8	4.8	1309.1	55.6	1 0.9	0.9	1282.1	4.3	0.5	0			1 0.2	0.2			e 0.1	0.1			0.05	0.05	23
24	1309.6	56.8	e 5.0	5.0	1309.0	55.3	1 0.8	1.0	1282.9	5.3	0.5	0			1 0.2	0.2			e 0.1	0.1			0.05	0.05	24
25	1309.5	56.6	5.0	M 5.1	1309.0	55.3	0.7	M 0.7	1283.6	6.2	0.5	0			1 0.2	0.2			e 0.1	0.1			0.05	0.05	25
26	1309.4	56.3	1 4.4	4.6	1309.0	55.3	1 0.7	0.7	1284.2	7.0	0.5	0			1 0.2	0.2			e 0.1	0.1			0.05	0.05	26
27	1309.4	56.3	1 3.9	3.9	1309.0	55.3	1 0.7	0.7	1284.7	7.7	0.5	0			1 0.2	0.2			e 0.1	0.1			0.05	0.05	27
28	1309.5	56.6	3.4	M 3.2	1309.1	55.6	1 0.6	0.4	1285.0	8.1	0.5	0			0.2	M 0.2			e 0.1	0.1			0.05	0.05	28
29	1309.5	56.6	1 3.4	3.4	1309.1	55.6	1 0.6	0.6	1276.9	0.3	1 0.4	4.4			1 0.2	0.2			e 0.1	0.1			0.05	0.05	29
30	1309.6	56.8	1 3.3	3.2	1309.1	55.6	1 0.6	0.6	1275.0	0	1 0.4	0.5			1 0.2	0.2			e 0.1	0.1			0.05	0.05	30
31					1309.1	55.6	1 0.5	0.5							0.2	0.2			e 0.1	0.1					31
TOTAL			166.1	166.6			54.3	54.9			14.2	42.2			7.7	7.7			3.1	3.1			2.1	2.1	
Inf. Ac. Ft.			329.4				107.7				28.1				15.3				6.1				4.2	2909.2	
Outf. Ac. Ft.			330.2				108.9				83.7				15.3				6.1				4.2	2868.0	
Maximum Mean Daily Inflow			8.1				3.5				0.7				0.4				0.1				0.1	383.9	
Minimum Mean Daily Inflow			3.3				0.5				0.4				0.2				0.1				0.05	0	
Storage Change			-0.8				-1.2				-55.6				0				0				0	-38.7 ° °	

REMARKS e = estimated i = interpolated M = measured { = Mean for period °°+ Debris loss = 73.9 A.F. Year

Max. W. S. Elev.	1366.1	feet on 3-2-38	Storage	446.9	Acre Feet	RECORDS COLLECTED BY		SECOND 6 MONTHS		
Min. W. S. Elev.	Dry	feet on various times	Storage	0	Acre Feet	M. L. Packer	Dam Tender	Gage Hts. copied	H.A.V.	Checked C.O.G.
Max. Peak Inf.	1069	C.F.S. from 4:00 P.M. on 3-2-38	to	4:30 P.M. on	3-2-38	R. P. Dalton	Hydrographer	Storage applied	H.A.V.	Checked C.O.G.
Max. Peak Outf.	665	C.F.S. from 5:00 P.M. on 3-2-38	to	7:00 P.M. on	3-2-38	R. L. Lindsey	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked J.A.H.
								Date	3-7-39	

Gage Heights and Storage as of midnight on day shown

F. C. Dist. Form 68 100 1/37

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

for Thompson Creek for the Year Ending September 30, 1937

Continuous Water Stage Recorder None

Drainage Area 3.91 Square Miles. Capacity of Reservoir 812.0 Ac. Ft. at Spillway Elev. 1640.0 Ft. — Gage Heights Read at various times

Day	OCTOBER Gage Height	OCTOBER Acre Ft. Storage	OCTOBER C.F.S. Inflow	OCTOBER C.F.S. Outflow	NOVEMBER Gage Height	NOVEMBER Acre Ft. Storage	NOVEMBER C.F.S. Inflow	NOVEMBER C.F.S. Outflow	DECEMBER Gage Height	DECEMBER Acre Ft. Storage	DECEMBER C.F.S. Inflow	DECEMBER C.F.S. Outflow	JANUARY Gage Height	JANUARY Acre Ft. Storage	JANUARY C.F.S. Inflow	JANUARY C.F.S. Outflow	FEBRUARY Gage Height	FEBRUARY Acre Ft. Storage	FEBRUARY C.F.S. Inflow	FEBRUARY C.F.S. Outflow	MARCH Gage Height	MARCH Acre Ft. Storage	MARCH C.F.S. Inflow	MARCH C.F.S. Outflow	Day
1													1583.9	13.7	0	0	1583.0	11.4	0	0	1606.7	144.1	0	°1.2	1
2													1583.8	13.5	0	0	1583.0	11.4	0	0	1606.4	141.7	0	°1.2	2
3													1583.7	13.2	0	0	1583.0	11.4	0	0	1606.0	138.5	0	°1.6	3
4													1583.6	13.0	0	0	1583.0	11.4	0	0	1605.7	136.1	0	°1.2	4
5													1583.5	12.7	0	0	1583.0	11.4	0	0	1605.4	133.7	0	°1.3	5
6													1583.5	12.7	0	0	1594.0	58.0	23.5	0	1605.0	130.5	0	°1.6	6
7													1583.5	12.7	0	0	1600.4	97.3	19.8	0	1604.7	128.3	0	°1.1	7
8													1583.4	12.4	0	0	1601.5	105.0	3.9	0	1604.3	125.3	0	°1.5	8
9													1583.4	12.4	0	0	1601.8	107.1	1.0	0	1604.0	123.0	0	°1.1	9
10													1583.4	12.4	0	0	1601.9	107.8	0.4	0	1603.7	120.8	0	°1.2	10
11													1583.4	12.4	0	0	1601.8	107.1	0	°0.4	1603.6	120.0	0	°0.4	11
12													1583.4	12.4	0	0	1601.7	106.4	0	°0.3	1603.8	121.5	0.8	0	12
13													1583.4	12.4	0	0	1601.7	106.4	0	0	1605.0	130.5	4.5	0	13
14													1583.4	12.4	0	0	1606.7	144.1	19.0	0	1605.4	133.7	1.6	0	14
15		- DRY -				- DRY -				- DRY -			1583.4	12.4	0	0	1609.5	169.5	12.8	0	1606.1	139.3	2.9	0	15
16													1583.4	12.4	0	0	1610.5	180.0	5.3	0	1607.0	146.5	3.6	0	16
17													1583.3	12.2	0	0	1610.9	184.4	2.2	0	1608.2	157.3	5.4	0	17
18													1583.3	12.2	0	0	1611.0	185.5	0.6	0	1609.1	165.5	4.2	0	18
19													1583.3	12.2	0	0	1610.9	184.4	0	°0.6	1609.7	171.5	3.0	0	19
20													1583.3	12.2	0	0	1610.4	178.9	0	°2.8	1610.1	175.6	2.1	0	20
21													1583.2	11.9	0	0	1609.7	171.5	0	°3.7	1610.5	180.0	2.2	0	21
22													1583.2	11.9	0	0	1609.1	165.5	0	°3.0	1611.2	187.8	3.9	0	22
23													1583.2	11.9	0	0	1608.6	160.9	0	°2.3	1611.7	193.6	2.9	0	23
24													1583.1	11.7	0	0	1608.3	158.2	0	°1.4	1612.1	198.2	2.4	0	24
25													1583.1	11.7	0	0	1608.0	155.5	0	°1.3	1612.5	203.0	2.4	0	25
26													1583.1	11.7	0	0	1607.7	152.8	0	°1.4	1612.6	204.2	0.6	0	26
27									Dry	0	0	0	1583.1	11.7	0	0	1607.4	150.1	0	°1.4	1612.6	204.2	0	0	27
28									Dry	0	0	0	1583.0	11.4	0	0	1607.0	146.5	0	°1.8	1612.6	204.2	0	0	28
29									Dry	0	0	0	1583.0	11.4	0	0					1612.6	204.2	0	0	29
30									1575.0	0.6	0.3	0	1583.0	11.4	0	0					1612.6	204.2	0	0	30
31									1584.1	14.3	6.9	0	1583.0	11.4	0	0					1612.6	204.2	0	0	31
TOTAL											7.2	0			0	°1.4			88.5	20.4			42.5	13.4	
Inf. Ac. Ft.											14.3				0				175.5				84.3	274.1	
Outf. Ac. Ft.												0				2.8				40.5			26.6	69.9	
Maximum											6.9				0				23.5				5.4	23.5	
Mean Daily Inflow Minimum											0				0				0				0	0	
Mean Daily Inflow											+14.3				-2.9				135.1				+57.7	+204.2	
Storage Change																									

REMARKS: Inflows = Net inflows in excess of reservoir percolation. No valve releases were made. °Outflows shown = percolation & evaporation loss

Year 1/2

Max. W. S. Elev.	1612.6	feet on 3/26 to 4/1/37 Storage	204.2	Acre Feet	RECORDS COLLECTED BY	SECOND 6 MONTHS
Min. W. S. Elev.	Dry	feet on Various times Storage	0	Acre Feet	Dam Tender	Gage Hts. copied H.A.V. Checked M.R.
Max. Peak Inf.	23.5	C.F.S. from Mean daily on 2-6-37	to	on	Hydrographer R. P. Dalton	Storage applied H.A.V. Checked M.R.
Max. Peak Outf.		C.F.S. from	on to	on	Hydrographer H. A. Vander Goot	Inf. & Outf. computed H.A.V. Checked M.R.

Gage Hts. as of midnight on day shown

Date 11-5-38

F. C. Dist. Form 68 100 1/37

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

for Thompson Creek for the Year Ending September 30, 1937

Continuous Water Stage Recorder None

Drainage Area 3.91 Square Miles. Capacity of Reservoir 812.0 Ac. Ft. at Spillway Elev. 1640 Ft. — Gage Heights Read at various times

Day	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	JUNE Gage Height	JUNE Acre Ft. Storage	JUNE C.F.S. Inflow	JUNE C.F.S. Outflow	JULY Gage Height	JULY Acre Ft. Storage	JULY C.F.S. Inflow	JULY C.F.S. Outflow	AUGUST Gage Height	AUGUST Acre Ft. Storage	AUGUST C.F.S. Inflow	AUGUST C.F.S. Outflow	SEPTEMBER Gage Height	SEPTEMBER Acre Ft. Storage	SEPTEMBER C.F.S. Inflow	SEPTEMBER C.F.S. Outflow	Day
1	1612.6	204.2	0	0	1601.9	107.8	0	1.4	1591.5	45.0	0	0.5	1587.0	24.5	0	0.3	1582.8	10.9	0	0.2	1578.7	3.4	0	0.1	1
2	1612.5	203.0	0	0.6	1601.5	105.0	0	1.4	1591.2	43.5	0	0.5	1586.9	24.1	0	0.3	1582.6	10.5	0	0.2	1578.6	3.3	0	0.1	2
3	1612.4	201.8	0	0.6	1601.1	102.2	0	1.4	1591.0	42.5	0	0.5	1586.7	23.3	0	0.3	1582.5	10.3	0	0.2	1578.5	3.2	0	0.1	3
4	1612.3	200.6	0	0.6	1600.7	99.4	0	1.4	1590.8	41.5	0	0.5	1586.6	22.9	0	0.3	1582.4	10.0	0	0.2	1578.3	2.9	0	0.1	4
5	1612.2	199.4	0	0.6	1600.2	95.9	0	1.8	1590.7	41.0	0	0.4	1586.4	22.1	0	0.3	1582.2	9.6	0	0.2	1578.2	2.8	0	0.1	5
6	1612.0	197.0	0	1.2	1599.8	93.2	0	1.4	1590.6	40.5	0	0.4	1586.3	21.7	0	0.3	1582.1	9.3	0	0.2	1578.0	2.6	0	0.1	6
7	1611.7	193.6	0	1.7	1599.4	90.6	0	1.3	1590.4	39.5	0	0.4	1586.1	20.9	0	0.3	1582.0	9.1	0	0.2	1577.9	2.5	0	0.1	7
8	1611.3	189.0	0	2.4	1599.1	88.7	0	0.9	1590.3	39.0	0	0.4	1586.0	20.5	0	0.3	1581.8	8.7	0	0.1	1577.7	2.3	0	0.1	8
9	1611.0	185.5	0	1.7	1598.7	86.1	0	1.4	1590.1	38.0	0	0.4	1585.8	19.8	0	0.3	1581.7	8.5	0	0.1	1577.6	2.2	0	0.1	9
10	1610.6	181.1	0	2.2	1598.3	83.5	0	1.3	1590.0	37.5	0	0.4	1585.7	19.5	0	0.2	1581.6	8.3	0	0.1	1577.4	2.1	0	0.1	10
11	1610.2	176.7	0	2.3	1598.0	81.5	0	1.0	1589.8	36.6	0	0.3	1585.6	19.1	0	0.2	1581.5	8.1	0	0.1	1577.3	2.0	0	0.1	11
12	1609.8	172.5	0	2.1	1597.6	79.1	0	1.2	1589.7	36.2	0	0.3	1585.4	18.4	0	0.2	1581.3	7.6	0	0.1	1577.1	1.8	0	0.1	12
13	1609.4	168.5	0	2.0	1597.2	76.7	0	1.2	1589.6	35.7	0	0.3	1585.3	18.1	0	0.2	1581.2	7.4	0	0.1	1577.0	1.7	0	0.1	13
14	1609.0	164.5	0	2.0	1596.8	74.3	0	1.2	1589.4	34.8	0	0.3	1585.2	17.7	0	0.2	1581.1	7.2	0	0.1	1576.8	1.6	0	0.1	14
15	1608.5	160.0	0	2.3	1596.5	72.5	0	0.9	1589.3	34.4	0	0.3	1585.0	17.0	0	0.2	1580.9	6.8	0	0.1	1576.7	1.5	0	0.1	15
16	1608.1	156.4	0	1.8	1596.1	70.1	0	1.2	1589.2	33.9	0	0.3	1584.9	16.7	0	0.2	1580.8	6.6	0	0.1	1576.5	1.4	0	0.1	16
17	1607.7	152.8	0	1.8	1595.8	68.3	0	0.9	1589.0	33.0	0	0.3	1584.8	16.4	0	0.2	1580.7	6.5	0	0.1	1576.4	1.3	0	0	17
18	1607.3	149.2	0	1.8	1595.4	65.9	0	1.2	1588.9	32.6	0	0.3	1584.7	16.1	0	0.2	1580.6	6.3	0	0.1	1576.2	1.2	0	0	18
19	1606.8	144.9	0	2.2	1595.0	63.5	0	1.2	1588.7	31.7	0	0.3	1584.5	15.5	0	0.2	1580.4	6.1	0	0.1	1576.0	1.1	0	0	19
20	1606.4	141.7	0	1.6	1594.7	61.9	0	0.9	1588.6	31.2	0	0.3	1584.4	15.2	0	0.2	1580.3	5.7	0	0.1	1575.9	1.1	0	0	20
21	1606.0	138.5	0	1.6	1594.4	60.2	0	0.9	1588.4	30.3	0	0.3	1584.3	14.9	0	0.2	1580.2	5.6	0	0.1	1575.7	1.0	0	0	21
22	1605.6	135.3	0	1.6	1594.1	58.6	0	0.9	1588.3	29.9	0	0.3	1584.1	14.3	0	0.2	1580.1	5.4	0	0.1	1575.6	0.9	0	0	22
23	1605.2	132.1	0	1.6	1593.8	56.9	0	0.8	1588.1	29.0	0	0.3	1584.0	14.0	0	0.2	1580.0	5.2	0	0.1	1575.5	0.9	0	0	23
24	1604.7	128.3	0	2.0	1593.5	55.3	0	0.8	1588.0	28.5	0	0.3	1583.9	13.7	0	0.2	1579.9	5.1	0	0.1	1575.3	0.8	0	0	24
25	1604.3	125.3	0	1.5	1593.3	54.2	0	0.8	1587.8	27.7	0	0.3	1583.7	13.2	0	0.2	1579.8	4.9	0	0.1	1575.2	0.7	0	0	25
26	1603.9	122.3	0	1.5	1593.0	52.5	0	0.7	1587.7	27.3	0	0.3	1583.6	13.0	0	0.2	1579.7	4.8	0	0.1	1575.0	0.6	0	0	26
27	1603.5	119.3	0	1.5	1592.7	51.0	0	0.7	1587.5	26.5	0	0.3	1583.4	12.4	0	0.2	1579.5	4.5	0	0.1	1574.9	0.6	0	0	27
28	1603.1	116.3	0	1.5	1592.5	50.0	0	0.6	1587.4	26.1	0	0.3	1583.3	12.2	0	0.2	1579.4	4.3	0	0.1	1574.8	0.5	0	0	28
29	1602.7	113.4	0	1.5	1592.2	48.5	0	0.6	1587.3	25.7	0	0.3	1583.2	11.9	0	0.2	1579.2	4.0	0	0.1	1574.6	0.5	0	0	29
30	1602.3	110.6	0	1.4	1592.0	47.5	0	0.6	1587.2	25.3	0	0.3	1583.0	11.4	0	0.2	1579.1	3.9	0	0.1	1574.5	0.4	0	0	30
31						1591.7	46.0	0	0.6				1582.9	11.2	0	0.2	1578.9	3.6	0	0.1					31
TOTAL			0	47.2			0	32.6			0	10.4			0	7.1			0	3.8			0	1.6	
Inf. Ac. Ft.			0				0				0				0				0				0	274.1	
Outf. Ac. Ft.				93.6				64.7				20.6				14.1				7.5			3.2	273.6	
Maximum			0				0				0				0				0				0	23.5	
Mean Daily Inflow Minimum			0				0				0				0				0				0	0	
Mean Daily Inflow																									
Storage Change			-93.6				-64.6				-20.7				-14.1				-7.6				-3.2	+0.4	

REMARKS: Mean for period. All outflows are storage losses in c.f.s. No valve releases were made

Year

Max. W. S. Elev.	1612.6	feet on 3/26 to 4/1/37 Storage	204.2	Acre Feet	RECORDS COLLECTED BY	SECOND 6 MONTHS
Min. W. S. Elev.	Dry	feet on Various Times Storage	0	Acre Feet	Dam Tender	Gage Hts. copied H.A.V. Checked M.R.
Max. Peak Inf.	23.5	C.F.S. from Mean Daily on 2-6-38	to	on	Hydrographer R. P. Dalton	Storage applied H.A.V. Checked M.R.
Max. Peak Outf.		C.F.S. from	on to	on	Hydrographer H. A. Vander Goot	Inf. & Outf. computed H.A.V. Checked M.R.

Gage Hts. as of midnight on day shown.

Date 11/26/37

F. C. Dist. Form 89 100 1/37

Storages based on L.A.C.F.C.D. Survey of November, 1932

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

In Thompson Creek for the Year Ending September 30, 19 38

Drainage Area 3.91 Square Miles. Capacity of Reservoir 812.0 Ac. Ft. at Spillway Elev. 1640.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder None

Gage Heights Read at various times

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1574.3	0.4	0	0													1568.6		0	0	1605.4	132.9	42.3	0	1
2	1574.3	0.3	0	0													1568.6		0	0	1633.8	615.5	259.2	•15.9	2
3	1573.9	0.3	0	0													1569.2		0	0	1633.8	615.5	56.1	•95.9	3
4	1573.6	0.3	0	0													1572.0	0.1	0	0	1630.6	531.7	38.6	•81.0	4
5	1573.3	0.2	0	0.1													1572.0	0.1	0	0	1629.3	500.6	25.2	•40.9	5
6	1573.5	0.2	0	0													1571.8		0	0	1628.5	482.3	22.4	•31.6	6
7	1573.3	0.2	0	0													1571.5		0	0	1627.8	466.6	•• 9.2	•17.2	7
8	1573.2	0.1	0	0													1571.1		0	0	1626.7	442.7	0	12.0	8
9	1573.1	0.1	0	0													1572.7	0.1	0	0	1624.8	403.6	0	19.7	9
10	1573.0	0.1	0	0					DRY					DRY			1573.4	0.2	0.1	0	1622.4	357.9	0	23.1	10
11	1572.9	0.1	0	0													1577.4	2.1	1.0	0	1620.0	315.0	3.4	•25.0	11
12	1572.8	0.1	0	0													1583.4	12.4	5.2	0	1621.5	341.5	13.9	• 0.5	12
13	1572.7	0.1	0	0													1585.4	22.1	4.8	0	1622.4	357.5	11.3	• 3.1	13
14	1572.6	0.1	0	0													1586.4	22.1	0	0	1621.9	348.7	5.4	•10.0	14
15	1572.5	0.1	0	0													1586.4	22.1	0	0	1621.0	332.5	1.8	•10.0	15
16	1572.4	0.1	0	0													1586.5	22.5	0.2	0	1619.7	309.9	0	11.4	16
17	1572.3	0.1	0	0													1586.5	22.5	0	0	1618.2	284.8	0	12.6	17
18	1572.2	0.1	0	0													1586.5	22.5	0	0	1616.5	258.0	0	13.5	18
19	1572.2	0.1	0	0													1586.5	22.5	0	0	1614.9	234.6	0	11.8	19
20	1572.1	0.1	0	0													1586.5	22.5	0	0	1613.2	211.6	0	11.6	20
21	1572.0	0.1	0	0.1													1586.5	22.5	0	0	1612.4	201.8	0	5.0	21
22	1571.9		0	0													1586.4	22.1	0	0.1	1612.2	199.4	0	1.2	22
23	1571.8		0	0													1586.4	22.1	0	0.1	1612.0	197.0	0	1.2	23
24	1571.7		0	0													1586.3	21.7	0	0.1	1611.7	193.6	0	1.7	24
25	1571.7		0	0													1586.3	21.7	0	0.1	1611.4	190.1	0	1.8	25
26	1571.6		0	0													1586.2	21.3	0	0.1	1611.1	186.7	0	1.7	26
27	1571.5		0	0													1586.2	21.3	0	0.1	1610.7	182.2	0	2.2	27
28	1571.5		0	0													1592.3	49.0	14.0	0	1610.3	177.8	0	2.3	28
29	1571.4		0	0																	1609.9	173.5	0	2.1	29
30	1571.4		0	0																	1609.5	169.5	0	2.0	30
31	1571.3		0	0																	1609.1	165.5	0	2.1	31
TOTAL			0	0.2			0	0			0	0			0	0			25.3	0.6			528.8	470.1	
Inf. Ac Ft.			0				0				0				0				50.2				1048.9	1099.1	
Outf. Ac. Ft.			0.4				0				0				0				1.2				932.4	934.0	
Maximum Mean Daily Inflow			0				0				0				0				14.0				259.2	259.2	
Minimum Mean Daily Inflow			0				0				0				0				0				0	0	
Storage Change			-0.4				0				0				0				+49.0				+116.5	+165.1	

Storage Negligible

REMARKS Outflows include evaporation and percolation loss as indicated by storage charges. °°Major portion of inflow diverted to Spreading Grounds Year

Max. W. S. Elev.	1634.4	feet on	3-3-38	Storage	632.4	Acre Feet	RECORDS COLLECTED BY 38		SECOND 6 MONTHS	
Min. W. S. Elev.	Dry	feet on	various times	Storage	0	Acre Feet	Rickart-3-1-18-38;Oliver-3-18-4- Dam Tender	Gage Hts. copied	T.M.	Checked H.A.V.
Max. Peak Inf.	580.0	C.F.S. from	2:00 P.M. on	3-2-38	to 3:00 P.M. on	3-2-38	R. P. Dalton Hydrographer	Storage applied	T.M.	Checked H.A.V.
Max. Peak Outf.	120.0	C.F.S. from	2:00 P.M. on	3-3-38	to 4:00 P.M. on	3-3-38	H.A. Vander Goot Hydrographer	Inf. & Outf. computed	H.A.V.	Checked J.A.H.
								Date		

Gage Heights and Storages at midnight on day shown. ° Indicates known outflow quantities.

{ = mean for period.

F. C. Dist. Form 89 100 1/37

Storages based on L.A.C.F.C.D. Survey of November, 1932

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

In On Thompson Creek for the Year Ending September 30, 19 38

Drainage Area 3.91 Square Miles. Capacity of Reservoir 812.0 Ac. Ft. at Spillway Elev. 1640.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder None

Gage Heights Read at various times.

Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1608.7	161.8	0	1.7	1598.9	87.4	0	0.8	1592.6	50.5	0	0.4	1589.3	34.4	0	0.3	1585.1	17.4	0	0.2	1582.1	9.3	0	0.1	1
2	1608.3	158.2	0	1.7	1598.5	86.4	0	0.8	1592.5	50.0	0	0.4	1589.2	33.9	0	0.3	1584.8	16.4	0	0.2	1581.9	8.9	0	0.1	2
3	1607.9	154.6	0	1.7	1598.4	84.1	0	0.8	1592.4	49.5	0	0.4	1589.1	33.5	0	0.3	1584.6	15.8	0	0.2	1581.8	8.7	0	0.1	3
4	1607.6	151.9	0	1.7	1598.2	82.8	0	0.8	1592.2	48.5	0	0.4	1589.0	33.0	0	0.3	1584.5	15.5	0	0.2	1581.7	8.5	0	0.1	4
5	1607.2	148.3	0	1.6	1597.9	80.9	0	0.8	1592.1	48.0	0	0.4	1588.9	32.6	0	0.3	1584.4	15.2	0	0.2	1581.6	8.3	0	0.1	5
6	1606.8	144.9	0	1.6	1597.7	79.7	0	0.8	1591.9	47.0	0	0.4	1588.8	32.1	0	0.3	1584.3	14.9	0	0.2	1581.5	8.1	0	0.1	6
7	1606.5	142.5	0	1.6	1597.4	77.9	0	0.7	1591.8	46.5	0	0.4	1588.7	31.7	0	0.3	1584.3	14.9	0	0.2	1581.4	7.8	0	0.1	7
8	1606.1	139.3	0	1.6	1597.2	76.7	0	0.7	1591.6	46.5	0	0.4	1588.6	31.2	0	0.3	1584.2	14.6	0	0.2	1581.3	7.6	0	0.1	8
9	1605.7	136.1	0	1.6	1596.9	74.9	0	0.7	1591.5	45.0	0	0.3	1588.5	30.8	0	0.3	1584.2	14.6	0	0.2	1581.2	7.4	0	0.1	9
10	1605.3	132.9	0	1.6	1596.7	73.7	0	0.7	1591.3	44.0	0	0.3	1588.4	30.3	0	0.3	1584.1	14.3	0	0.2	1581.1	7.2	0	0.1	10
11	1604.9	129.8	0	1.3	1596.5	72.5	0	0.7	1591.2	43.5	0	0.3	1588.3	29.9	0	0.3	1584.1	14.3	0	0.2	1581.0	7.0	0	0.1	11
12	1604.6	127.5	0	1.3	1596.2	70.7	0	0.7	1591.1	43.0	0	0.3	1588.2	29.4	0	0.3	1584.1	14.3	0	0.2	1580.9	6.8	0	0.1	12
13	1604.3	125.3	0	1.3	1596.0	69.5	0	0.6	1591.0	42.5	0	0.3	1588.1	29.0	0	0.3	1584.1	14.3	0	0.1	1580.8	6.6	0	0.1	13
14	1603.9	122.1	0	1.3	1595.8	68.3	0	0.6	1590.9	42.0	0	0.3	1587.9	28.1	0	0.3	1584.0	14.0	0	0.1	1580.7	6.5	0	0.1	14
15	1603.6	120.0	0	1.3	1595.6	67.1	0	0.6	1590.8	41.5	0	0.3	1587.8	27.7	0	0.3	1584.0	14.0	0	0.1	1580.6	6.3	0	0.1	15
16	1603.2	117.0	0	1.3	1595.4	65.9	0	0.6	1590.7	41.0	0	0.3	1587.7	27.3	0	0.3	1583.9	13.7	0	0.1	1580.4	5.9	0	0.1	16
17	1602.9	114.6	0	1.3	1595.2	64.7	0	0.6	1590.6	40.5	0	0.2	1587.6	26.9	0	0.3	1583.8	13.5	0	0.1	1580.3	5.7	0	0.1	17
18	1602.6	112.7	0	1.2	1595.0	63.5	0	0.6	1590.5	40.0	0	0.2	1587.5	26.5	0	0.3	1583.7	13.2	0	0.1	1580.2	5.6	0	0.1	18
19	1602.2	109.9	0	1.2	1594.8	62.4	0	0.6	1590.4	39.5	0	0.2	1587.4	26.1	0	0.3	1583.6	13.0	0	0.1	1580.1	5.4	0	0.1	19
20	1601.9	107.8	0	1.2	1594.6	61.3	0	0.6	1590.3	39.0	0	0.2	1587.3	25.7	0	0.3	1583.5	12.7	0	0.1	1579.9	5.1	0	0.1	20
21	1601.6	105.7	0	1.0	1594.4	60.2	0	0.5	1590.2	38.5	0	0.2	1587.1	24.9	0	0.3	1583.4	12.4	0	0.1	1579.8	4.9	0	0.1	21
22	1601.3	103.6	0	1.0	1594.2	59.1	0	0.5	1590.1	38.0	0	0.2	1587.0	24.5	0	0.3	1583.2	11.9	0	0.1	1579.7	4.8	0	0.1	22
23	1601.0	101.5	0	1.0	1594.0	58.0	0	0.5	1590.0	37.5	0	0.2	1586.9	24.1	0	0.2	1583.1	11.7	0	0.1	1579.6	4.6	0	0.1	23
24	1600.7	99.4	0	1.0	1593.8	56.9	0	0.5	1589.9	37.1	0	0.2	1586.8	23.7	0	0.2	1583.0	11.4	0	0.1	1579.5	4.5	0	0.1	24
25	1600.4	97.3	0	1.0	1593.7	56.4	0	0.5	1589.8	37.1	0	0.2	1586.6	22.9	0	0.2	1582.8	10.9	0	0.1	1579.4	4.3	0	0.1	25
26	1600.2	95.9	0	1.0	1593.5	55.3	0	0.5	1589.8	36.6	0	0.2	1586.5	22.5	0	0.2	1582.7	10.7	0	0.1	1579.3	4.2	0	0.1	26
27	1599.9	93.9	0	0.9	1593.3	54.2	0	0.4	1589.7	36.2	0	0.2	1586.3	21.7	0	0.2	1582.6	10.5	0	0.1	1579.2	4.0	0	0.1	27
28	1599.6	91.9	0	0.9	1593.2	53.6	0	0.4	1589.6	35.7	0	0.2	1586.2	21.3	0	0.2	1582.5	10.3	0	0.1	1579.1	3.9	0	0.1	28
29	1599.4	90.6	0	0.9	1593.0	53.1	0	0.4	1589.5	35.3	0	0.2	1586.9	20.2	0	0.2	1582.4	10.0	0	0.1	1579.0	3.7	0	0.1	29
30	1599.1	88.7	0	0.9	1592.9	52.0	0	0.4	1589.4	34.8	0	0.2	1586.6	19.1	0	0.2	1582.3	9.8	0	0.1	1578.9	3.6	0	0.1	30
31					1592.8	51.5	0	0.4					1585.3	18.1	0	0.2	1582.2	9.6	0	0.1					31
TOTAL			0	38.7			0	18.8			0	8.4			0	8.4			0	4.3			0	3.0	
Inf. Ac. Ft.			0				0				0				0				0				0	1099.1	
Outf. Ac. Ft.			76.8				37.3				16.7				16.7				8.5				6.0	1096.0	
Maximum Mean Daily Inflow			0				0				0				0				0				0	259.2	
Minimum Mean Daily Inflow			0				0				0				0				0				0	0	
Storage Change			-76.8				-37.2				-15.7				-16.7				-8.5				-6.0	+3.2	

REMARKS Outflows include evaporation and percolation losses as indicated by storage changes. { = mean for period. Year

Max. W. S. Elev.	1634.4	feet on	3-3-38	Storage	632.4	Acre Feet	RECORDS COLLECTED BY 38		SECOND 6 MONTHS	
Min. W. S. Elev.	Dry	feet on	various times	Storage	0	Acre Feet	Rickart3-1-18-38;Oliver-3-18-4-21- Dam Tender	Gage Hts. copied	H.A.V.	Checked C.C.G.
Max. Peak Inf.	580.0	C.F.S. from	2:00 P.M. on	3-2-38	to 3:00 P.M. on	3-2-38	R. F. Dalton Hydrographer	Storage applied	H.A.V.	Checked C.C.G.
Max. Peak Outf.	120.0	C.F.S. from	2:00 P.M. on	3-3-38	to 4:00 P.M. on	3-3-38	H. H. Vander Goot Hydrographer	Inf. & Outf. computed	H.A.V.	Checked J.A.H.
								Date	3-2-38	

Gage Heights and Storage as of midnight on day shown

F. C. Dist. Form 88 100 1/37

Storages based on original reconnaissance survey

Daily Gage Height in feet and Operation Record of TUJUNGA Dam #1

In Big Tujunga Canyon for the Year Ending September 30, 1937

Drainage Area 81.35 Square Miles. Capacity of Reservoir 6240 Ac. Ft. at Spillway Elev. 2290.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder AU

Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	2163.7	477.9	0.6	4.7	2143.0	189.0	2.6	3.7	2142.9	187.9	1.3	1 1.3	2203.4	1438.8	41.9	0	2221.3	2082.0	22.2	0	2244.5	3149.0	65.3	120.0	1
2	2163.2	469.4	0.6	4.7	2143.0	189.0	2.1	2.1	2143.0	189.0	1.9	1 1.3	2205.0	1490.0	25.9	0	2222.2	2118.0	18.1	0	2242.3	3034.6	60.3	118.0	2
3	2162.8	462.6	0.6	4.2	2142.9	187.9	1.2	1.8	2143.0	189.0	1.3	M 1.3	2206.2	1530.8	20.5	0	2223.1	2154.0	18.2	0	2239.9	2910.1	55.3	118.0	3
4	2162.5	457.5	0.6	2.8	2142.9	187.9	1.1	M 1.1	2143.1	190.1	1.9	1 1.4	2207.2	1564.8	17.2	0	2223.9	2186.0	16.1	0	2237.5	2792.5	58.7	118.0	4
5	2161.7	443.9	0.6	8.2	2142.9	187.9	1.1	1 1.1	2143.2	191.2	2.0	1 1.4	2208.3	1602.2	18.8	0	2224.9	2226.8	20.2	0	2236.3	2733.7	54.4	84.0	5
6	2160.9	430.3	0.6	7.9	2142.9	187.9	1.0	1 1.0	2143.2	191.2	1.4	1 1.4	2209.7	1649.8	24.0	0	2246.6	3263.0	522.8	0	2237.5	2787.6	50.2	23.0	6
7	2160.3	420.1	0.6	5.8	2142.9	187.9	1.0	1 1.0	2143.2	191.2	1.5	1 1.5	2210.7	1685.2	17.9	0	2263.2	4238.4	537.8	46.0	2238.4	2836.6	49.7	25.0	7
8	2159.6	409.0	0.6	6.5	2142.9	187.9	0.9	1 0.9	2143.2	191.2	1.5	1 1.5	2211.5	1714.0	14.5	0	2265.6	4388.4	182.6	107.0	2239.3	2880.7	47.2	25.0	8
9	2158.9	398.5	0.6	5.3	2142.9	187.9	0.9	1 0.9	2143.2	191.2	1.5	M 1.5	2212.1	1735.6	10.9	0	2265.8	4401.2	113.4	107.0	2240.1	2920.2	44.9	25.0	9
10	2158.5	392.5	0.6	3.2	2142.9	187.9	0.8	1 0.8	2143.3	192.3	1.5	1.4	2212.7	1757.2	10.9	0	2265.2	4362.8	90.7	110.0	2240.7	2951.4	40.8	25.0	10
11	2158.1	386.5	0.6	3.7	2142.9	187.9	0.7	M 0.7	2143.1	190.1	1.5	1.8	2213.4	1782.4	12.7	0	2264.0	4288.0	72.3	110.0	2241.5	2993.0	46.0	25.0	11
12	2157.8	382.0	0.6	3.2	2142.9	187.9	0.7	1 0.7	2143.0	189.0	41.5	2.1	2214.3	1814.8	16.3	0	2262.9	4219.8	75.6	110.0	2247.2	3296.0	185.2	12.5	12
13	2157.2	373.0	0.6	3.6	2142.9	187.9	0.7	1 0.7	2143.0	189.0	1.5	1.8	2214.9	1836.4	10.9	0	2265.8	4401.2	170.4	79.0	2262.4	4188.8	450.1	0	13
14	2155.9	353.5	0.7	10.2	2142.9	187.9	0.7	1 0.7	2143.3	192.3	3.4	1.8	2215.6	1862.8	13.3	0	2285.0	5810.0	803.3	93.0	2268.8	4593.2	203.9	0	14
15	2155.0	340.0	0.7	6.9	2142.9	187.9	0.7	1 0.7	2146.9	232.8	24.9	4.5	2216.2	1885.6	11.5	0	2286.0	5896.0	379.3	336.0	2273.8	4936.0	241.8	69.0	15
16	2154.0	326.0	0.7	7.9	2142.9	187.9	0.7	1 0.7	2150.7	279.8	23.7	0	2216.7	1904.6	9.6	0	2283.1	5654.2	242.1	364.0	2278.9	5316.4	392.8	201.0	16
17	2153.3	316.2	0.7	6.5	2142.9	187.9	0.7	1 0.7	2151.7	293.8	7.1	0	2217.3	1927.4	11.5	0	2278.8	5508.8	189.9	364.0	2278.5	5286.0	234.7	250.0	17
18	2152.8	323.2	0.7	4.7	2142.9	187.9	0.7	1 0.7	2152.4	303.6	4.9	0	2217.8	1946.4	9.6	0	2273.6	4922.0	165.0	360.0	2276.6	5141.6	239.2	312.0	18
19	2154.2	338.8	0.7	0	2142.9	187.9	0.7	M 0.7	2153.0	312.0	4.3	0	2218.2	1961.6	10.9	3.3	2268.0	4542.0	155.4	347.0	2273.8	4936.0	204.3	308.0	19
20	2153.2	314.8	0.7	6.9	2142.9	187.9	0.7	1 0.7	2153.5	319.0	3.5	0	2218.2	1961.6	10.8	10.8	2263.0	4226.0	112.7	272.0	2270.5	4705.0	187.6	304.0	20
21	2151.0	284.0	0.7	13.5	2142.9	187.9	0.8	1 0.8	2153.9	324.6	2.8	0	7218.0	1954.0	9.7	13.5	2260.1	4046.2	117.4	308.0	2266.7	4458.8	171.9	296.0	21
22	2149.2	260.4	0.7	11.4	2142.9	187.9	0.8	1 0.8	2154.3	330.2	2.8	0	2217.8	1946.4	9.7	13.5	2255.5	3740.0	83.6	238.0	2264.2	4300.4	212.1	292.0	22
23	2147.7	242.4	0.7	8.6	2142.9	187.9	0.9	1 0.9	2154.6	334.4	2.2	0	2217.5	1935.0	7.7	13.5	2251.9	3560.2	103.3	194.0	2262.3	4182.6	166.6	226.0	23
24	2146.6	229.2	0.7	7.1	2142.9	187.9	0.9	1 0.9	2155.0	340.0	2.8	0	2217.3	1927.4	9.7	13.5	2249.7	3433.5	93.2	157.0	2261.4	4126.8	161.9	190.0	24
25	2145.6	217.6	0.7	5.8	2142.9	187.9	1.0	M 1.0	2156.2	358.0	9.1	0	2217.1	1919.8	9.6	13.5	2251.9	3560.2	107.8	44.0	2261.2	4114.4	150.7	157.0	25
26	2144.8	208.8	0.7	5.3	2142.9	187.9	1.0	1 1.0	2156.8	367.0	4.5	0	2216.8	1908.4	7.8	13.5	2250.2	3461.6	78.3	128.0	2260.1	4046.2	152.6	187.0	26
27	2143.3	192.3	0.7	7.8	2142.9	187.9	1.1	1 1.1	2173.8	666.0	150.7	0	2216.6	1900.8	9.7	13.5	2248.4	3362.0	74.8	125.0	2258.9	3974.0	150.6	187.0	27
28	2142.9	187.9	0.7	2.4	2142.9	187.9	1.1	1 1.1	2182.5	860.0	97.8	0	2216.4	1893.2	9.6	13.5	2246.5	3257.5	70.3	123.0	2257.5	3902.0	150.7	187.0	28
29	2142.9	187.9	0.7	1.1	2142.9	187.9	1.2	1 1.2	2184.9	917.6	29.1	0	2216.6	1900.8	17.4	13.5					2257.4	3884.0	140.9	150.0	29
30	2142.9	187.9	0.7	1.1	2142.9	187.9	1.2	1 1.2	2189.9	1047.4	65.4	0	2218.6	1976.8	47.0	8.7					2257.8	3908.0	132.1	120.0	30
31	2143.2	191.2	5.3	3.7					2200.8	1355.6	155.4	0	3220.2	2058.0	30.8	0					2257.9	3914.0	128.0	120.0	31
TOTAL			26.0	174.7			29.7	31.4			614.7	26.0			488.3	144.3			4636.8	4022.0			4605.5	4274.5	
Inf. Ac. Ft.			49.6				58.9				1219.3				968.5				9197.1				9136.0	80628.4	
Outf. Ac. Ft.				346.5				62.3				51.6			286.2					7977.6			8478.3	17202.5	
Maximum																									
Mean Daily Inflow			5.3				2.6				155.4				47.0				803.3				450.1	803.3	
Minimum			0.6				0.7				1.3				7.7				16.1				40.8	0.6	
Storage Change			- 296.9				- 3.3				+1167.7				+ 682.4				-1219.5				+656.5	+3425.9	

REMARKS F.C. Sta. 168 used for outflow during periods of discharge unless otherwise indicated. M - measurement i - interpolated. Year

Max. W. S. Elev.	2290.3	feet	on 7-5 to 7-7-37 Storage	6265.8	Acre Feet	
Min. W. S. Elev.	2142.9	feet	on Various Times Storage	187.9	Acre Feet	
Max. Peak Inf.	1735.1	C.F.S. from	5.00 P.M. on 2-6-37	to 6.00 P.M. on 2-6-37		
Max. Peak Outf.	366.0	C.F.S. from	10.00 A.M. on 2-15-37	to 8.00 A.M. on 2-19-37		

RECORDS COLLECTED BY

Sam Browne	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.
L.J. Turner	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked	M.W.R.
		Date 10-29-37			

SECOND 6 MONTHS

Gage Hts. as of midnight on day shown. (Indicates mean flow for the period.

F. C. Dist. Form 88 100 1/37

Storages based on original Survey

Daily Gage Height in feet and Operation Record of Big Tujunga Dam #1

In Big Tujunga Canyon for the Year Ending September 30, 1937

Drainage Area 81.35 Square Miles. Capacity of Reservoir 6240 Ac. Ft. at Spillway Elev. 2290 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder AU

Gage Heights Read daily

Day	APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	2257.8	3908.0	120.0	123.0	2282.1	5572.2	32.9	20.5	2290.1	6248.6	19.2	10.5	2268.0	6068.0	3.8	18.0	2272.4	4838.0	1 1.9	26.6	2245.6	3208.0	1 1.1	29.6	1
2	2257.7	3902.0	117.0	120.0	2282.4	5596.8	34.2	21.8	2290.2	6257.2	18.4	14.1	2287.6	6033.6	3.8	18.0	2271.7	4789.0	1 1.8	26.5	2244.6	3154.2	1 1.1	29.6	2
3	2257.2	3872.0	104.8	120.0	2282.7	5621.4	34.2	21.8	2290.2	6257.2	15.9	12.4	2287.3	6007.8	3.8	19.3	2271.0	4740.0	1 1.7	26.4	2243.5	3097.0	1 1.1	29.6	3
4	2256.5	3830.0	98.9	120.0	2283.3	5670.6	33.5	8.7	2290.2	6257.2	15.9	14.5	2286.9	5973.4	3.8	19.3	2270.3	4691.0	1 1.6	26.3	2242.5	3045.0	1 1.1	29.6	4
5	2255.6	3776.0	90.7	118.0	2284.0	5728.0	29.0	0	2290.3	6265.8	15.9	15.5	2286.6	5947.6	3.7	18.0	2269.5	4638.0	M 1.5	26.4	2241.4	2987.8	1 1.1	29.6	5
6	2256.4	3824.0	91.2	87.0	2284.6	5777.2	31.3	6.5	2290.3	6265.8	15.9	16.8	2286.2	5913.2	3.0	18.0	2268.7	4586.8	1 1.5	26.4	2240.3	2930.6	1 1.1	29.5	6
7	2257.8	3908.0	80.4	38.0	2285.1	5818.6	31.2	10.4	2290.3	6265.8	15.2	14.5	2285.9	5887.4	3.0	18.0	2268.0	4542.0	1 1.5	26.3	2239.2	2875.8	1 1.1	29.5	7
8	2258.8	3968.0	78.2	48.0	2285.5	5853.0	27.8	10.4	2290.2	6257.2	15.1	24.1	2285.5	5853.0	3.0	18.0	2267.2	4490.8	1 1.4	26.3	2238.0	2817.0	M 1.1	29.5	8
9	2259.4	4004.0	74.2	56.0	2285.9	5887.4	27.7	10.4	2290.1	6248.6	15.1	15.5	2285.2	5827.2	3.0	19.3	2266.4	4439.6	1 1.4	26.3	2236.9	2763.1	1 1.1	29.5	9
10	2260.1	4046.2	77.2	56.0	2286.3	5921.8	27.8	10.4	2290.1	6248.6	14.5	14.5	2284.8	5793.6	3.0	19.3	2265.7	4394.8	1 1.4	26.3	2235.7	2704.3	1 1.1	29.5	10
11	2260.6	4077.2	71.7	56.0	2286.6	5947.6	26.6	13.6	2290.1	6248.6	13.5	13.5	2284.4	5760.8	2.5	19.3	2264.9	4343.8	1 1.3	26.5	2234.6	2651.6	1 1.1	27.8	11
12	2261.0	4102.0	68.5	56.0	2286.8	5964.8	25.4	16.8	2290.1	6248.6	12.8	12.4	2284.0	5728.0	2.4	19.3	2264.1	4294.2	1 1.3	26.4	2233.5	2601.0	1 1.1	27.8	12
13	2261.9	4157.8	65.1	37.0	2286.9	5973.4	22.4	18.0	2290.1	6248.6	12.4	12.4	2283.6	5695.2	2.4	19.3	2263.3	4244.6	1 1.3	26.4	2232.3	2545.8	1 1.1	27.7	13
14	2262.9	4219.8	56.3	25.0	2287.2	5999.2	24.2	11.2	2290.1	6248.6	13.5	13.5	2283.2	5662.4	2.4	19.3	2262.5	4195.0	1 1.2	26.4	2231.2	2495.2	1 1.1	27.7	14
15	2264.4	4312.8	57.4	10.5	2287.6	6033.6	23.1	5.8	2290.1	6248.6	13.5	13.5	2282.7	5621.4	2.4	21.8	2261.7	4145.4	1 1.2	26.4	2230.0	2440.0	1 1.1	27.7	15
16	2266.0	4414.0	51.0	0	2288.0	6068.0	23.8	6.4	2290.1	6248.6	13.5	13.5	2282.2	5580.4	2.1	23.3	2260.9	4095.8	1 1.2	27.4	2228.8	2389.6	1 1.1	25.9	16
17	2267.5	4510.0	48.4	0	2288.2	6085.2	20.3	11.7	2290.1	6248.6	13.5	13.5	2281.7	5539.4	2.1	23.3	2260.1	4046.2	1 1.1	27.5	2227.6	2339.2	1 1.1	25.9	17
18	2269.0	4606.0	48.4	0	2288.4	6102.4	24.2	15.5	2290.1	6248.6	12.4	12.4	2281.2	5498.4	2.1	21.8	2259.2	3992.0	1 1.1	27.5	2226.5	2293.0	1 1.1	25.9	18
19	2270.4	4698.0	46.4	0	2288.5	6111.0	19.8	15.5	2290.1	6248.6	11.4	11.4	2280.7	5457.4	2.0	21.8	2258.3	3938.0	M 1.1	27.5	2225.3	2242.6	1 1.1	25.9	19
20	2271.7	4789.0	45.8	0	2288.6	6119.6	19.9	15.5	2290.1	6248.6	10.4	10.4	2280.3	5424.6	2.0	19.3	2257.4	3884.0	1 1.1	27.5	2224.1	2194.0	1 1.0	25.8	20
21	2273.0	4880.0	45.9	0	2288.7	6128.2	19.8	15.5	2290.1	6248.6	9.6	10.4	2279.8	5384.8	2.1	18.0	2256.5	3830.0	1 1.1	28.4	2222.9	2146.0	1 1.0	24.9	21
22	2274.2	4964.0	42.4	0	2288.8	6136.8	19.9	15.5	2290.1	6248.6	9.5	10.4	2279.2	5339.2	2.1	21.8	2255.6	3776.0	1 1.1	28.5	2221.7	2098.0	1 1.0	24.8	22
23	2275.3	5042.8	39.7	0	2288.9	6145.4	19.8	15.5	2290.1	6248.6	9.5	10.4	2278.6	5293.6	2.1	26.2	2254.7	3722.6	1 1.1	28.5	2220.5	2050.0	1 1.0	24.8	23
24	2276.4	5126.4	42.1	0	2289.0	6154.0	21.1	16.8	2290.0	6240.0	9.5	15.8	2278.0	5248.0	2.1	26.2	2253.7	3664.6	1 1.1	28.5	2219.3	2003.4	1 1.0	24.8	24
25	2277.5	5210.0	42.2	0	2289.2	6171.2	25.5	16.8	2289.7	6214.2	9.5	18.0	2277.3	5194.8	2.1	27.7	2252.8	3612.4	1 1.1	28.5	2218.1	1957.8	1 1.0	24.8	25
26	2278.5	5286.0	38.5	0	2289.4	6188.4	25.5	16.8	2289.4	6188.4	5.7	18.0	2276.6	5141.6	2.1	27.7	2251.8	3554.4	1 1.1	30.0	2216.9	1912.2	1 1.0	24.2	26
27	2279.6	5369.6	42.2	0	2289.5	6197.0	23.6	19.3	2289.2	6171.2	5.6	18.0	2275.9	5088.4	2.0	29.2	2250.8	3496.4	1 1.1	30.0	2215.6	1862.8	1 1.0	24.2	27
28	2280.6	5449.2	40.1	0	2289.5	6197.0	19.3	18.3	2288.9	6145.4	5.6	18.0	2275.2	5035.2	2.0	29.2	2249.8	3439.0	1 1.1	30.0	2214.4	1818.4	1 1.0	24.1	28
29	2281.4	5514.8	44.2	10.1	2289.6	6205.6	21.1	16.8	2288.6	6119.6	5.6	18.0	2274.5	4985.0	2.0	29.2	2248.8	3384.0	1 1.1	30.0	2213.2	1775.2	1 1.0	24.1	29
30	2281.8	5547.6	36.4	19.9	2289.8	6222.8	24.2	15.5	2288.3	6093.8	5.6	16.8	2273.8	4936.0	2.0	29.2	2247.8	3329.0	1 1.1	30.0	2211.9	1728.4	E 1.0	24.1	30
31					2289.9	6231.4	19.8	15.5					2273.1	4887.0	2.0	29.2	2246.7	3268.5	1 1.1	30.0					31
TOTAL			1905.1	1081.5			777.9	433.2			363.3	432.7			78.9	687.5			39.7	855.7			31.9	808.4	
Inf. Ac. Ft.			3778.8				1543.0				720.6				156.5				78.7				63.3	26969.3	
Outf. Ac. Ft.				2145.1				859.2				858.2				1363.3				1697.3			1603.4	25729.0	
Maximum Mean Daily Inflow			120.0				34.2				19.2				3.8				1.9				29.6	803.3	
Minimum Mean Daily Inflow			36.4				18.3				5.6				2.0				1.1				1.0	0.6	
Storage Change			+1633.6				+638.8				-137.6				-1206.8				-1618.5				-1540.1	+1240.3	

REMARKS { Mean for period Outflows as of station 168 until 8/1/37 Inflows interpolated between measurements beginning 8/1/37 M-Measurements i-Interpolated

Max. W. S. Elev.	2290.3	feet	on 6-5 to 7-37 Storage	6265.8	Acre Feet	
Min. W. S. Elev.	2142.9	feet	on Various times Storage		Acre Feet	
Max. Peak Inf.	1735.1	C.F.S. from	5.00 P.M. on 2-6-37	to 6.00 P.M. on 2-6-37		
Max. Peak Outf.	366.0	C.F.S. from	10.00 A.M. on 2-15-37	to 8.00 A.M. on 2-19-37		

RECORDS COLLECTED BY

Sam Browne	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.
L.J. Turner	Hydrographer	Inf. & Outf. computed	H.A.V.	Checked	M.W.R.
		Date 10-29-37			

SECOND 6 MONTHS

Gage Hts as of midnight on day shown

F. C. Dist. Form 84 100 1/37

Storages based on original survey (See Map 61T18) and corrected for debris loss following March 2, 1938 storm.

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam #1

In CMK BIG TUJUNGA CANYON for the Year Ending September 30, 1938

Drainage Area 81.35 Square Miles. Capacity of Reservoir 3-1-38 - 3-2-38 6240.0 - 4733.6 Ac. Ft. at Spillway Elev. 2290.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder Au.

Gage Heights Read daily

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	FEBRUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MARCH Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	2210.7	1585.2	1.0	23.3	2158.3	389.5	1.7	9.5	2148.2	248.4	2.1	2.1	2167.7	548.6	6.4	0	2192.7	1122.9	65.7	13.2	2280.6	5449.2	1247.7	627.9	1
2	2209.4	1539.6	1.0	24.8	2157.8	379.8	1.7	7.0	2148.2	248.4	2.4	2.4	2168.3	559.4	5.4	0	2194.0	1168.0	39.0	21.3	2297.1*	5289.2	2030.2	1321.6	2
3	2208.2	1498.8	1.0	26.2	2156.9	356.6	1.6	7.1	2148.2	248.4	2.1	2.1	2168.9	570.2	5.4	0	2201.5	1378.0	118.0	7.1	2292.2	4899.8	2402.9	2593.3	3
4	2206.9	1454.6	1.0	27.7	2156.4	361.0	1.8	9.5	2148.2	248.4	2.4	2.4	2169.4	579.2	4.6	0	2210.3	1670.8	150.1	2.5	2291.4	4838.9	936.6	956.3	4
5	2205.7	1414.8	1.0	26.2	2156.0	350.0	1.9	9.0	2148.3	244.6	2.7	2.4	2169.4	588.0	4.6	0	2211.7	1761.2	65.6	40.2	2291.3	4831.3	1645.0	648.8	5
6	2204.4	1470.8	1.1	26.2	2155.7	350.5	1.9	4.1	2148.3	249.5	2.7	2.4	2170.4	598.0	5.0	0	2211.1	1699.6	34.2	45.1	2291.5	4846.5	1475.0	467.3	6
7	2203.1	1429.2	1.1	23.3	2155.4	345.0	2.0	4.3	2148.4	250.8	3.0	2.4	2171.0	610.0	5.0	0	2210.0	1660.0	25.2	45.1	2277.5	3877.1	1395.0	863.8	7
8	2201.7	1384.4	1.1	24.8	2154.5	333.0	2.0	8.5	2148.8	255.3	5.2	2.8	2171.5	620.0	5.1	0	2208.8	1619.2	24.5	45.1	2262.1	2982.9	0293.2	744.0	8
9	2200.1	1333.2	1.1	27.7	2153.4	317.5	2.1	9.8	2149.4	262.8	5.5	1.8	2172.0	630.0	5.0	0	2212.1	1736.6	58.7	0	2244.2	2133.9	252.0	680.0	9
10	2198.1	1274.9	1.1	29.2	2152.5	305.0	2.1	8.5	2150.2	272.8	5.0	0	2172.5	640.0	5.0	0	2217.0	1916.0	90.9	0	2236.8	1837.0	243.3	393.0	10
11	2196.2	1219.8	1.2	27.7	2151.5	292.4	2.2	8.5	2153.0	312.0	19.8	0	2173.0	650.0	5.1	0	2240.5	2946.2	532.3	12.9	2237.4	1860.2	208.2	196.5	11
12	2194.3	1166.1	1.2	27.7	2150.8	281.2	2.2	7.9	2159.2	343.0	15.6	0	2173.5	660.0	5.0	0	2247.1	3290.5	228.4	54.8	2240.1	2391.7	825.3	527.4	12
13	2192.3	1112.1	1.2	27.7	2150.1	271.4	2.3	7.2	2159.2	358.0	7.9	0	2174.0	670.0	5.1	0	2248.4	3362.0	111.9	75.8	2247.4	2871.2	558.3	619.0	13
14	2190.3	1058.1	1.2	27.7	2149.6	265.2	2.3	5.4	2156.9	368.5	5.3	0	2174.5	680.0	5.0	0	2248.6	3373.0	81.3	75.8	2248.4	2315.3	409.0	382.8	14
15	2188.4	1008.4	1.3	25.2	2149.2	259.4	2.4	4.9	2157.5	379.0	5.2	0	2177.1	736.2	28.3	0	2248.9	3389.5	65.1	56.8	2249.6	2369.1	346.9	319.8	15
16	2186.5	959.0	1.3	25.2	2148.9	265.8	2.4	4.2	2158.2	388.0	4.6	0	2178.6	759.2	16.7	0	2249.8	3439.0	51.4	26.4	2243.6	2108.9	301.4	432.6	16
17	2184.6	910.4	1.3	24.8	2148.7	264.4	2.5	3.7	2158.6	394.0	4.1	1.1	2179.6	791.2	11.1	0	2249.4	3417.0	38.8	49.9	2235.1	1772.1	259.1	428.9	17
18	2182.7	864.8	1.3	24.8	2148.3	253.2	2.5	3.1	2158.8	397.0	4.3	2.8	2180.5	812.0	10.5	0	2249.6	3428.0	36.8	31.3	2234.5	1749.5	271.6	283.0	18
19	2180.8	819.2	1.4	23.3	2148.5	252.0	2.6	3.2	2158.9	398.5	4.0	3.2	2181.5	836.0	12.1	0	2250.2	3461.6	55.0	38.0	2234.2	1738.2	241.8	247.5	19
20	2178.9	775.6	1.4	21.8	2148.4	250.8	2.5	3.2	2159.0	400.0	3.9	3.2	2182.4	857.6	10.8	0	2249.7	3433.5	42.8	57.0	2233.8	1723.3	205.4	213.0	20
21	2177.0	734.0	1.4	21.8	2148.3	249.6	2.7	3.3	2159.1	401.5	3.6	2.8	2183.1	874.4	8.5	0	2249.0	3395.0	37.6	57.0	2232.4	1671.4	198.9	225.0	21
22	2175.2	694.4	1.4	20.5	2148.2	248.4	2.7	3.3	2159.3	404.5	3.9	2.4	2183.8	891.2	8.5	0	2248.3	3356.5	37.6	57.0	2232.2	1664.1	187.4	191.8	22
23	2173.5	660.0	1.5	19.3	2148.2	248.4	2.8	2.8	2159.2	418.4	9.4	2.4	2184.5	908.0	8.5	0	2247.5	3312.5	34.8	57.0	2233.0	1693.5	183.7	188.9	23
24	2171.9	628.0	1.5	18.0	2148.2	248.4	2.8	2.8	2159.8	428.6	7.0	1.8	2185.1	922.6	7.3	0	2246.6	3263.0	32.1	57.0	2231.7	1645.8	171.0	195.0	24
25	2170.1	592.0	1.5	18.0	2148.2	248.4	2.8	2.8	2161.3	437.1	5.8	1.5	2185.6	935.6	6.6	0	2246.8	3219.0	34.8	57.0	2226.9	1840.9	165.5	167.2	25
26	2167.7	546.6	1.5	20.5	2148.2	248.4	2.4	2.4	2162.4	445.8	11.3	1.8	2186.2	951.2	7.8	0	2245.0	3175.0	34.8	57.0	2235.5	1787.3	143.0	170.0	26
27	2165.4	507.2	1.6	20.5	2148.2	248.4	2.4	2.4	2163.8	479.6	12.0	0	2186.7	964.2	6.6	0	2248.3	3356.5	110.5	19.0	2233.5	1712.1	133.1	171.0	27
28	2163.4	472.8	1.5	16.8	2148.2	248.4	2.4	2.4	2164.8	496.3	8.5	0	2187.2	977.2	6.5	0	2262.9	4219.8	495.2	60.0	2233.4	1708.4	142.0	143.9	28
29	2161.3	437.1	1.6	18.0	2148.2	248.4	2.4	2.4	2165.6	510.8	7.2	0	2188.0	998.0	10.5	0					2235.4	1783.5	134.9	97.0	29
30	2159.7	410.5	1.5	13.5	2148.2	248.4	2.1	2.1	2165.3	523.4	6.3	0	2188.6	1013.6	7.9	0					2236.8	1837.0	126.0	99.0	30
31	2158.8	397.0	1.6	7.1					3167.0	536.0	6.4	0	2188.8	1018.8	e 8.0	5.4					2237.8	1875.7	116.6	97.0	31
TOTAL			40.1	711.3			68.5	143.4			188.9	43.9			248.8	5.4			2733.1	1119.3			2421.0	2450.9	
Inf. Ac. Ft.			79.5				135.9				374.7				493.5				5421.0				48089.7	54534.3	
Outf. Ac. Ft.			1410.8				284.4				87.1				10.7				2220.1				46812.4	52825.5	
Maximum Mean Daily Inflow			1.5				2.8				19.8				28.3				532.3				12030.8	12030.8	
Minimum Mean Daily Inflow			1.0				1.7				2.1				4.5				24.5				116.5	1.0	
Storage Change			-1331.4				-148.6				+287.6				+482.8				+3201.0		-2344.1 + °°			+ 147.3°°°	

REMARKS * Beginning 3-2-38 Storages shown are corrected for debris loss °° Loss = 1561.4 A.F. at elevation 2297.1 i = interpolated { = mean for period. Year

Max. W. S. Elev.	2306.88 feet on 3-2-38 Storage 7719.2 Acre Feet	RECORDS COLLECTED BY			SECOND 6 MONTHS		
Min. W. S. Elev.	Dry feet on Various times Storage 0 Acre Feet	Sam Browne and Robertson	Dam Tender	Gage Hts. copied H.A.V.	Checked C.C.G.		
Max. Peak Inf.	32940 C.F.S. from 4:30 P.M. on 3-2-38 to 5:00 P.M. on 3-2-38	R. A. Waddicor and Lind	Hydrographer	Storage applied H.A.V.	Checked C.C.G.		
Max. Peak Outf.	32600 C.F.S. from 5:00 P.M. on 3-2-38 to 5:20 P.M. on 3-2-38		Hydrographer	Inf. & Outf. computed H.A.V.	Checked J.A.H.		
				Date 3-30-39			

Gage Heights and Storage are of midnight on day shown
Outflows as per station 158 from 10-1 to 10-31 from 11-23 to 1-25 (incl.)
Outflows as per valve operation records and measurements from 1-27 to 5-31 (incl.)

F. C. Dist. Form 84 100 1/37

Storages based on original survey (See Map 61 T-18) and corrected for debris loss following March 2, 1938 storm.

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam #1

In CMK BIG TUJUNGA CANYON for the Year Ending September 30, 19 38

Drainage Area 81.35 Square Miles. Capacity of Reservoir 4733.6 Ac. Ft. at Spillway Elev. 2290.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

File No.

Continuous Water Stage Recorder Au

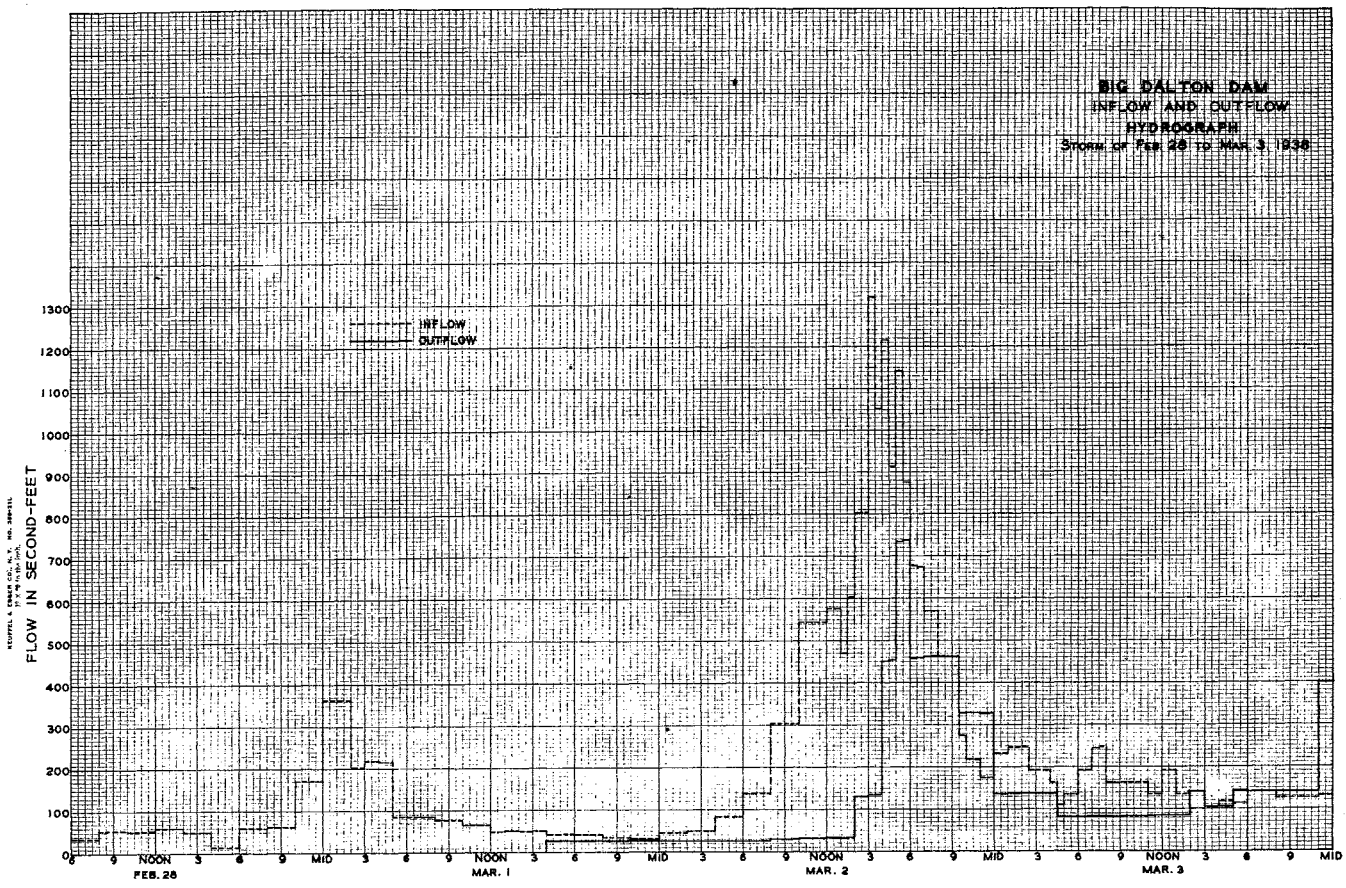
Gage Heights Read daily

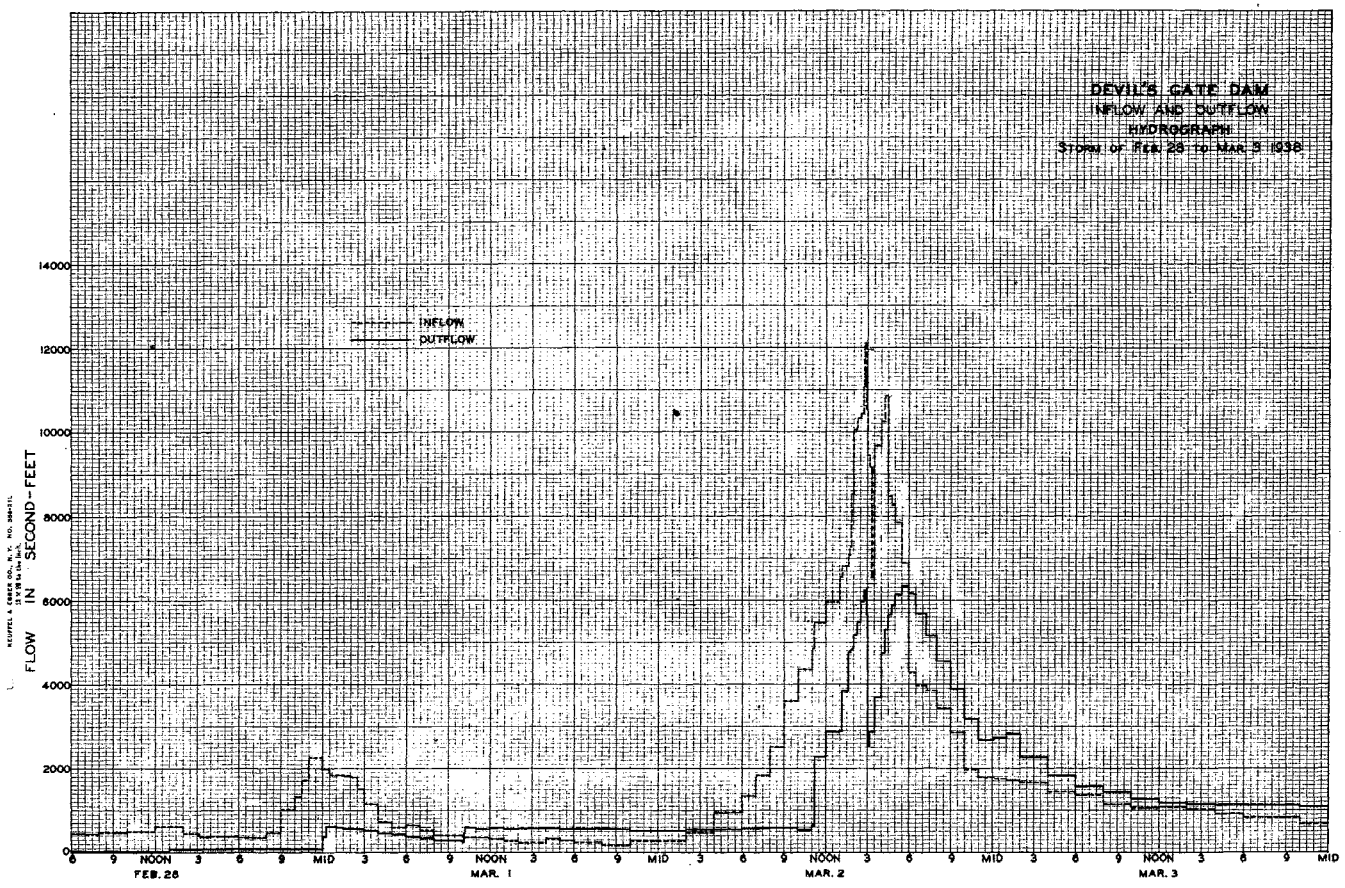
Day	APRIL Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	MAY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JUNE Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JULY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	AUGUST Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	SEPTEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	2238.4	1699.2	111.8	100.0	2272.0	3539.1	57.2	54.2	2288.9	4652.4	24.8	18.0	2289.8	4718.8	16.2	10.1	2197.0	597.6	12.2	66.4	Dry	0	7.8	7.8	1
2	2238.8	1914.9	117.0	109.0	2272.5	3559.1	54.4	39.3	2289.1	4667.1	24.8	19.6	2289.5	4696.7	16.2	21.2	2191.9	476.0	12.2	72.1		0	7.7	7.7	2
3	2239.0	1922.7	114.9	111.0	2274.3	3677.9	54.9	0	2289.2	4674.5	24.8	21.3	2289.3	4681.9	16.2	21.2	2186.8	362.6	12.2	63.5		0	7.6	7.6	3
4	2239.0	1922.7	108.0	108.0	2275.9	3776.5	49.7	0	2289.1	4667.1	24.8	28.1	2289.1	4667.1	16.2	21.2	2181.6	257.1	12.2	60.1		0	7.5	7.5	4
5	2237.4	1852.5	101.5	136.9	2277.4	3870.7	47.5	0	2289.0	4659.7	24.8	29.6	2287.9	4579.6	16.2	52.3	2177.2	177.4	12.2	54.1		0	7.3	7.3	5
6	2233.4	1708.4	82.4	152.0	2278.8	3960.0	45.0	0	2288.9	4652.4	25.0	31.8	2286.4	4472.4	16.2	75.2	2173.5	116.6	12.1	41.4		0	7.2	7.2	6
7	2229.4	1562.7	61.3	155.0	2280.2	4040.7	45.7	0	2288.4	4645.1	25.0	31.1	2284.8	4330.2	16.2	75.0	2169.9	69.0	< 12.1	36.7		0	7.1	7.1	7
8	2228.3	1523.7	84.0	103.7	2281.5	4136.4	43.2	0	2288.7	4637.8	< 20.0	28.9	2282.8	4223.4	< 16.2	89.7	2166.8	32.6	12.1	30.1		0	7.0	7.0	8
9	2229.1	1552.0	82.3	68.0	2282.8	4223.4	43.9	0	2288.7	4637.8	24.9	24.4	2280.6	4077.0	16.2	88.4	2154.8	0	12.1	°23.3		0	6.8	6.8	9
10	2229.8	1577.0	81.6	69.0	2284.0	4305.0	41.1	0	2288.7	4637.8	24.9	19.6	2278.5	3940.8	16.2	83.4	2144.0	0	12.1	°19.5		0	6.7	6.7	10
11	2230.5	1602.2	83.7	71.0	2285.1	4381.0	38.3	0	2288.7	4637.8	20.3	18.0	2276.0	3782.7	16.2	94.3	Dry	0	12.1	°15.8		0	6.5	6.5	11
12	2231.2	1627.5	84.8	72.0	2286.2	4458.2	39.0	0	2288.7	4637.8	20.3	19.9	2273.1	3605.1	16.2	106.7		0	12.1	°15.2		0	6.3	6.3	12
13	2232.2	1664.1	91.4	73.0	2287.1	4522.1	42.4	10.2	2288.7	4637.8	20.3	19.6	2270.1	3427.4	16.1	105.0		0	12.1	°14.6		0	6.2	6.2	13
14	2232.6	1676.8	81.4	74.0	2287.9	4579.6	40.0	11.0	2288.7	4637.8	20.3	19.6	2267.1	3255.9	16.1	106.7		0	12.1	°13.8		0	6.0	6.0	14
15	2234.2	1738.2	79.8	49.8	2288.6	4630.5	36.6	11.0	2288.7	4637.8	< 20.3	21.2	2264.0	3084.7	16.1	105.0		0	-12.1	°13.0		0	5.9	5.9	15
16	2237.3	1856.3	77.9	18.4	2289.0	4659.7	41.4	26.7	2288.6	4630.5	20.3	22.1	2260.6	2904.2	14.2	105.0		0	12.4	12.4		0	5.8	5.8	16
17	2240.1	1966.3	73.4	17.9	2288.9	4652.4	42.4	46.0	2288.6	4630.5	20.3	21.2	2257.2	2730.6	14.2	106.7		0	11.7	11.7		0	5.8	5.8	17
18	2243.2	2092.2	71.7	8.2	2288.5	4623.3	40.1	54.8	2288.6	4630.5	20.3	19.6	2253.6	2554.8	14.2	103.3		0	11.2	11.2		0	5.8	5.8	18
19	2246.2	2219.0	65.6	2.7	2287.5	4550.9	44.5	81.0	2288.7	4637.8	20.3	19.6	2250.0	2387.1	14.2	101.7		0	10.4	10.4		0	5.7	5.7	19
20	2249.2	2351.0	66.5	0	2285.8	4500.7	41.5	65.8	2288.8	4645.1	20.3	18.8	2246.1	2214.6	14.2	98.3		0	9.8	9.8		0	5.7	5.7	20
21	2251.9	2474.5	62.3	0	2287.1	4522.1	36.2	25.4	2288.8	4645.1	18.2	18.8	2242.1	2047.0	14.2	96.7		0	9.3	9.3		0	5.7	5.7	21
22	2254.4	2593.2	59.8	0	2287.5	4550.9	39.5	25.0	2288.8	4645.1	18.1	20.4	2237.9	1879.6	14.2	98.3		0	8.8	8.8		0	5.7	5.7	22
23	2256.9	2715.7	61.8	0	2287.8	4572.4	33.8	23.0	2288.7	4637.8	< 18.1	21.2	2233.4	1708.4	< 14.2	95.0		0	8.2	8.2		0	5.7	5.7	23
24	2259.7	2857.6	71.5	0	2288.2	4601.4	33.1	18.4	2288.6	4630.5	18.1	19.6	2228.8	1541.3	14.2	95.0		0	7.7	7.7		0	5.7	5.7	24
25	2262.1	2983.6	68.9	0	2288.6	4630.5	32.4	17.8	2288.6	4630.5	18.1	18.0	2224.3	1385.7	14.2	93.4		0	7.2	7.2		0	5.7	5.7	25
26	2264.9	3117.4	62.4	0	2289.0	4659.7	31.7	17.0	2288.5	4623.3	15.7	18.0	2219.9	1240.9	14.2	91.3		0	7.0	7.0		0	5.6	5.6	26
27	2265.7	3233.5	58.6	0	2289.0	4659.7	129.9	29.9	2288.6	4630.5	15.7	13.1	2215.9	1115.5	14.2	78.3		0	7.2	7.2		0	5.6	5.6	27
28	2266.7	3346.7	57.0	0	2288.3	4608.7	128.2	53.9	2288.9	4652.4	< 15.7	4.6	2212.8	1022.3	14.2	60.2		0	7.3	7.3		0	5.6	5.6	28
29	2270.9	3474.2	64.3	0	2288.2	4601.4	26.4	30.1	2289.2	4674.5	15.6	4.6	2209.2	918.6	14.2	70.3		0	7.4	7.4		0	5.6	5.6	29
30	2271.9	3533.2	61.2	31.4	2288.5	4623.3	125.9	14.9	2289.5	4696.7	15.6	4.6	2205.2	808.4	14.2	67.6		0	7.6	7.6	Dry	0	5.6	5.6	30
31					2288.8	4645.1	125.3	14.3					2201.2	703.3	14.2	66.4	Dry	0	7.7	7.7					31
TOTAL			2369.7	1534.0			1231.3	670.7			620.7	594.6			469.9	2483.2			322.9	677.5			188.9	188.9	
Inf. Ac. Ft.			4700.2				2442.2				1231.1				932.0				640.5				374.7	64855.0	
Outf. Ac. Ft.			3042.6				1330.3				1179.4				4925.4				1343.8				374.7	65021.7	
Maximum Mean Daily Inflow			117.0				57.3				25.0				16.2				12.2				7.8	12030.8	
Minimum Mean Daily Inflow			57.0				25.3				15.6				14.2				7.7				5.6	1.0	
Storage Change			+1557.5				+1111.9				+51.6				-3993.4				-703.3				0	-1738.4°°°	

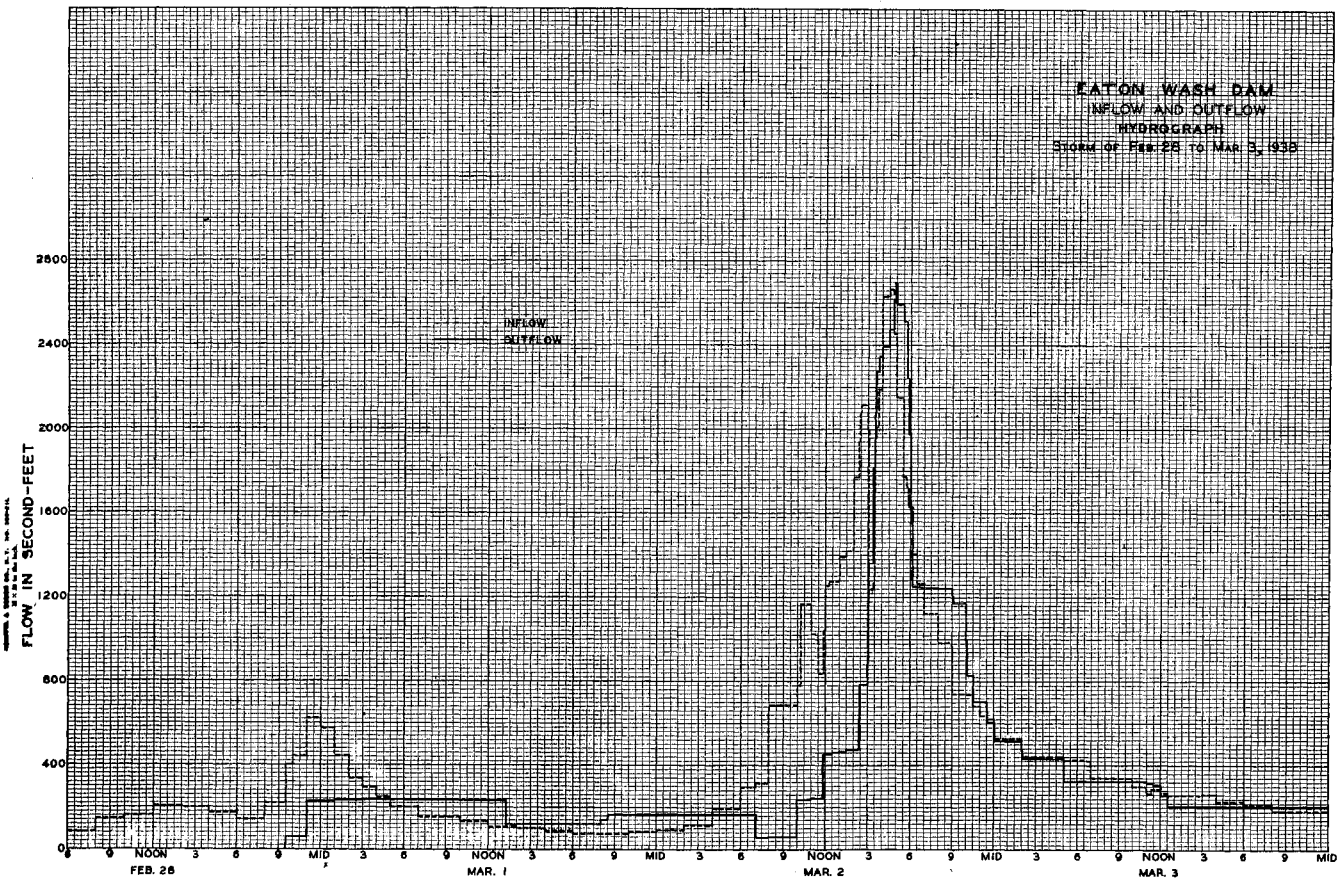
REMARKS i = interpolated { = mean for period. * Flows probably bulked by bank storage. °°Debris loss = 1561.4 A.F. at elevation 2297.1 Year

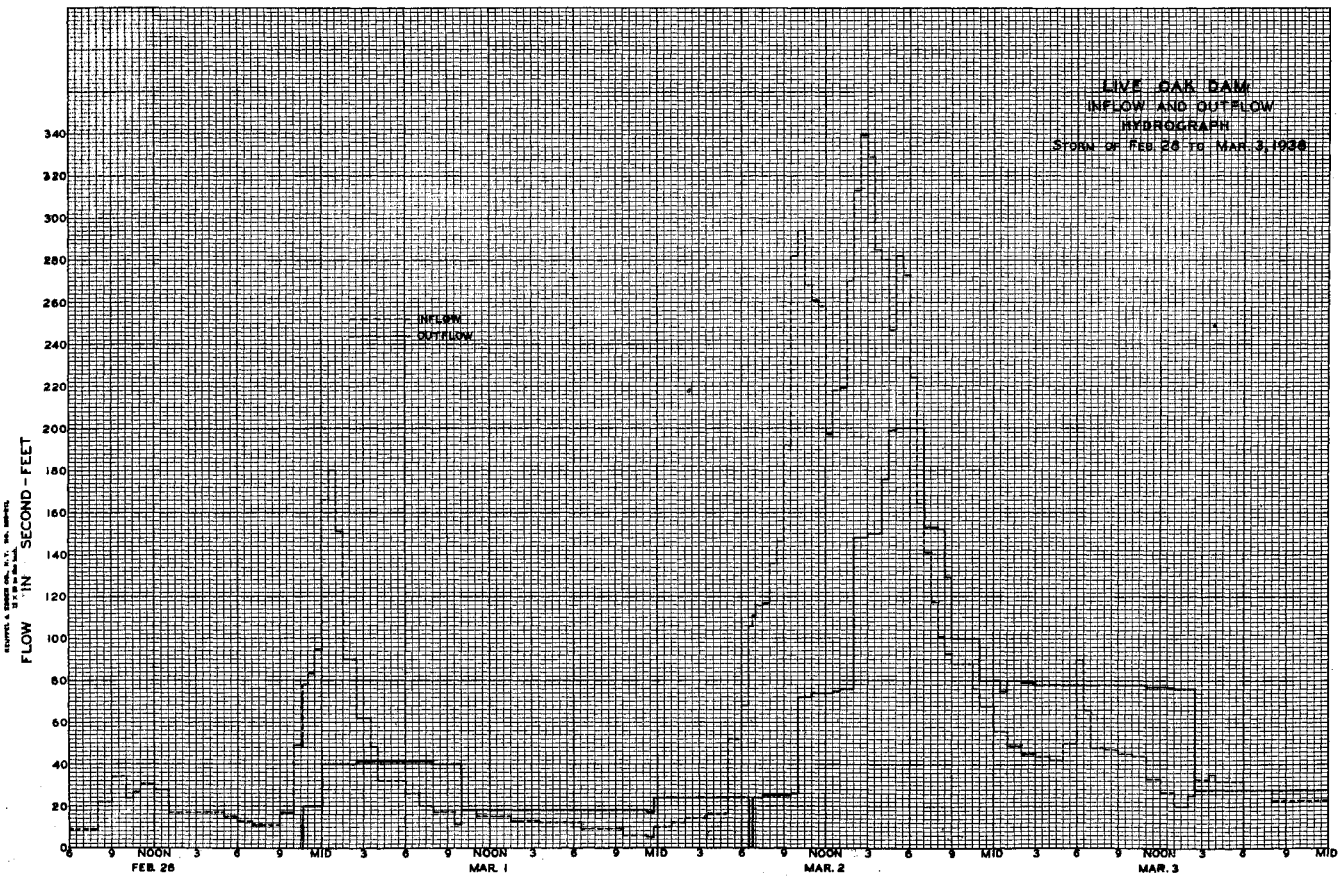
Max. W. S. Elev.	2306.88 feet on 3-2-38 Storage 7719.2 Acre Feet	RECORDS COLLECTED BY			SECOND 6 MONTHS		
Min. W. S. Elev.	Dry feet on Various times Storage 0 Acre Feet	Sam Browne and Robertson	Dam Tender	Gage Hts. copied H.A.V.	Checked CCG-JAH/		
Max. Peak Inf.	32940 C.F.S. from 4:30 P.M. on 3-2-38 to 5:00 P.M. on 3-2-38	R. A. Waddicor and Lind	Hydrographer	Storage applied H.A.V.	Checked CCG-JAH		
Max. Peak Outf.	32500 C.F.S. from 5:00 P.M. on 3-2-38 to 5:20 P.M. on 3-2-38		Hydrographer	Inf. & Outf. computed H.A.V.	Checked JAH.		
				Date 3-30-39			

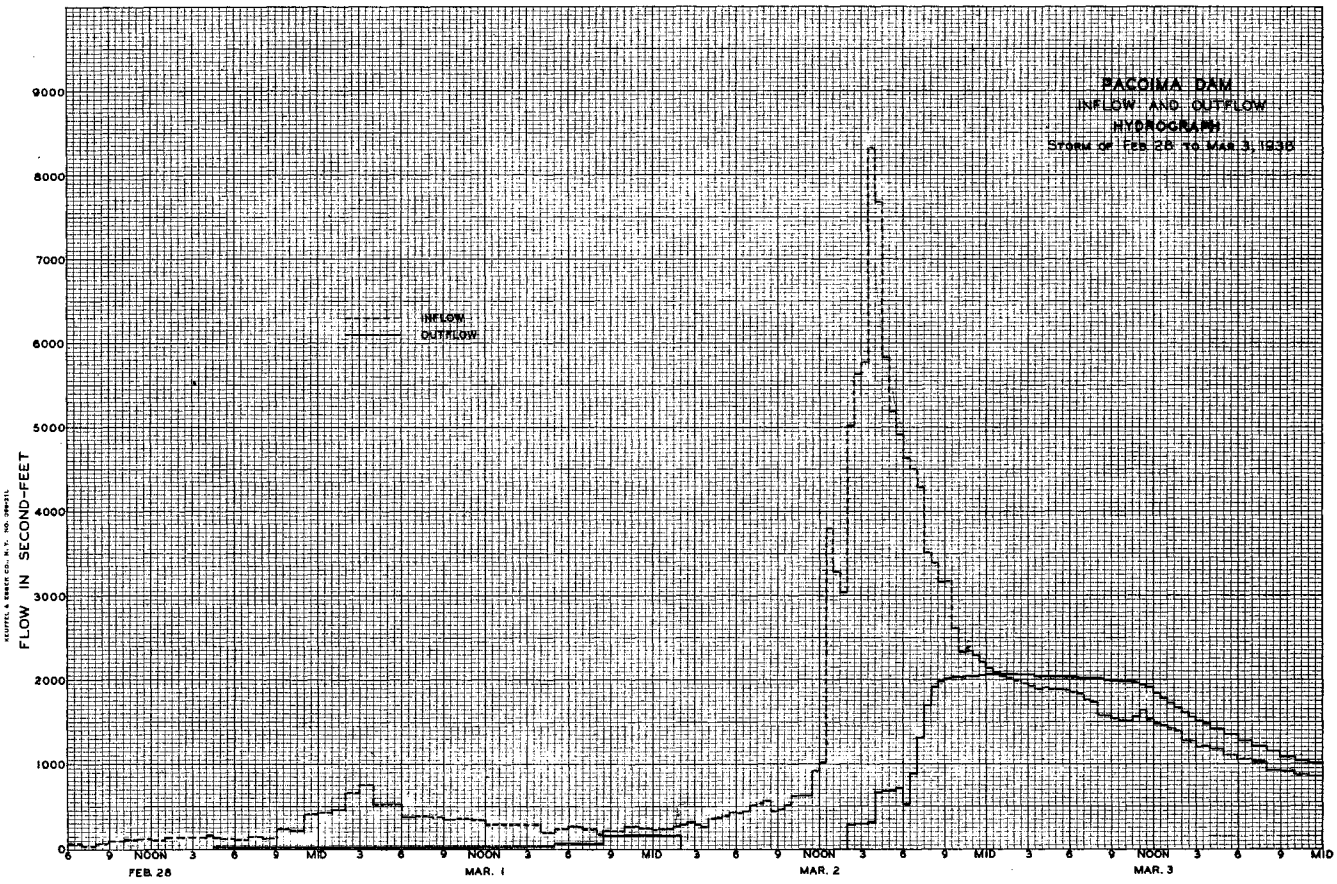
Gage Heights and Storage as of midnight on day shown.
Outflows as per station 158 from 5-1 to 9-30 (incl.)

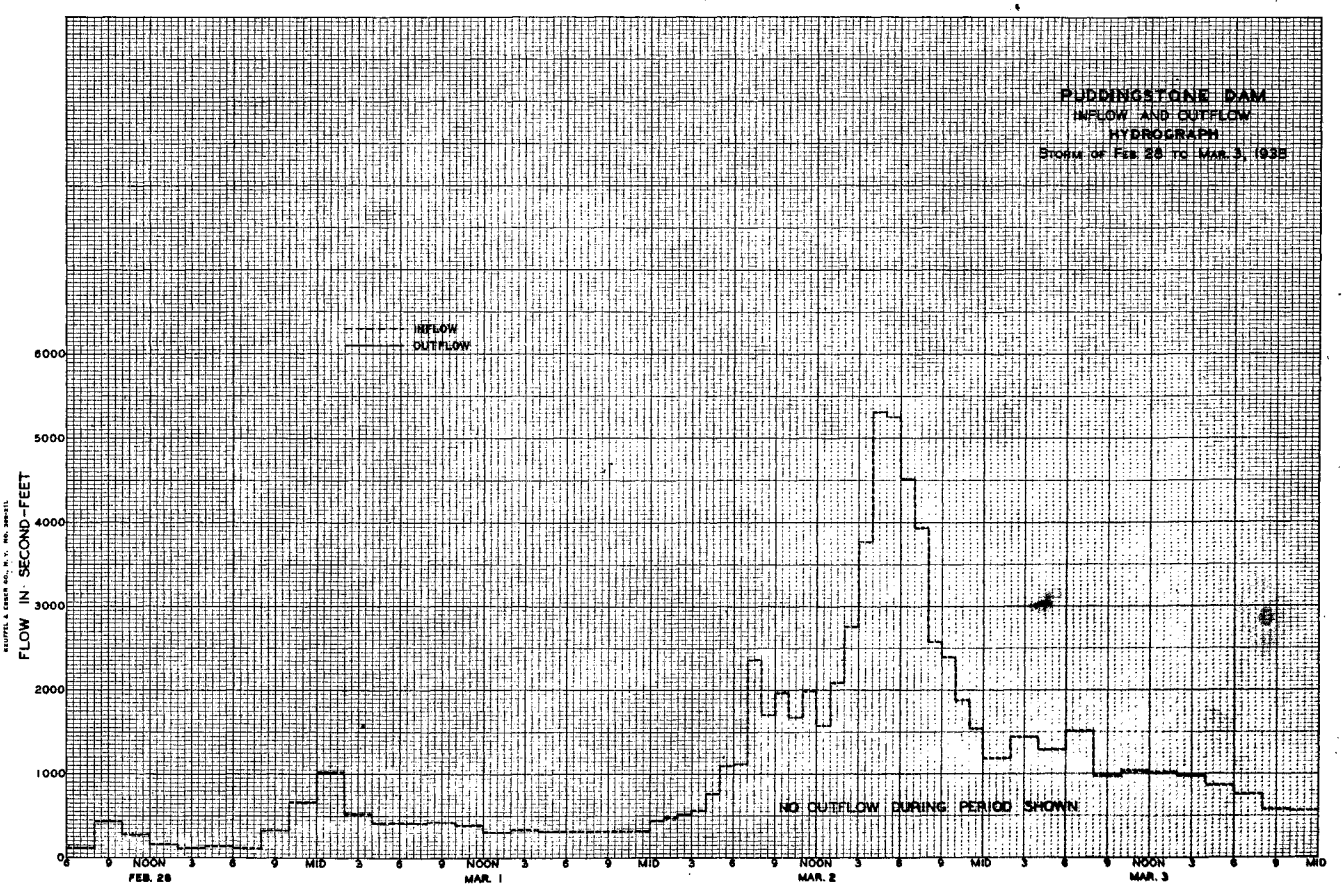

BIG DALTON DAM
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3

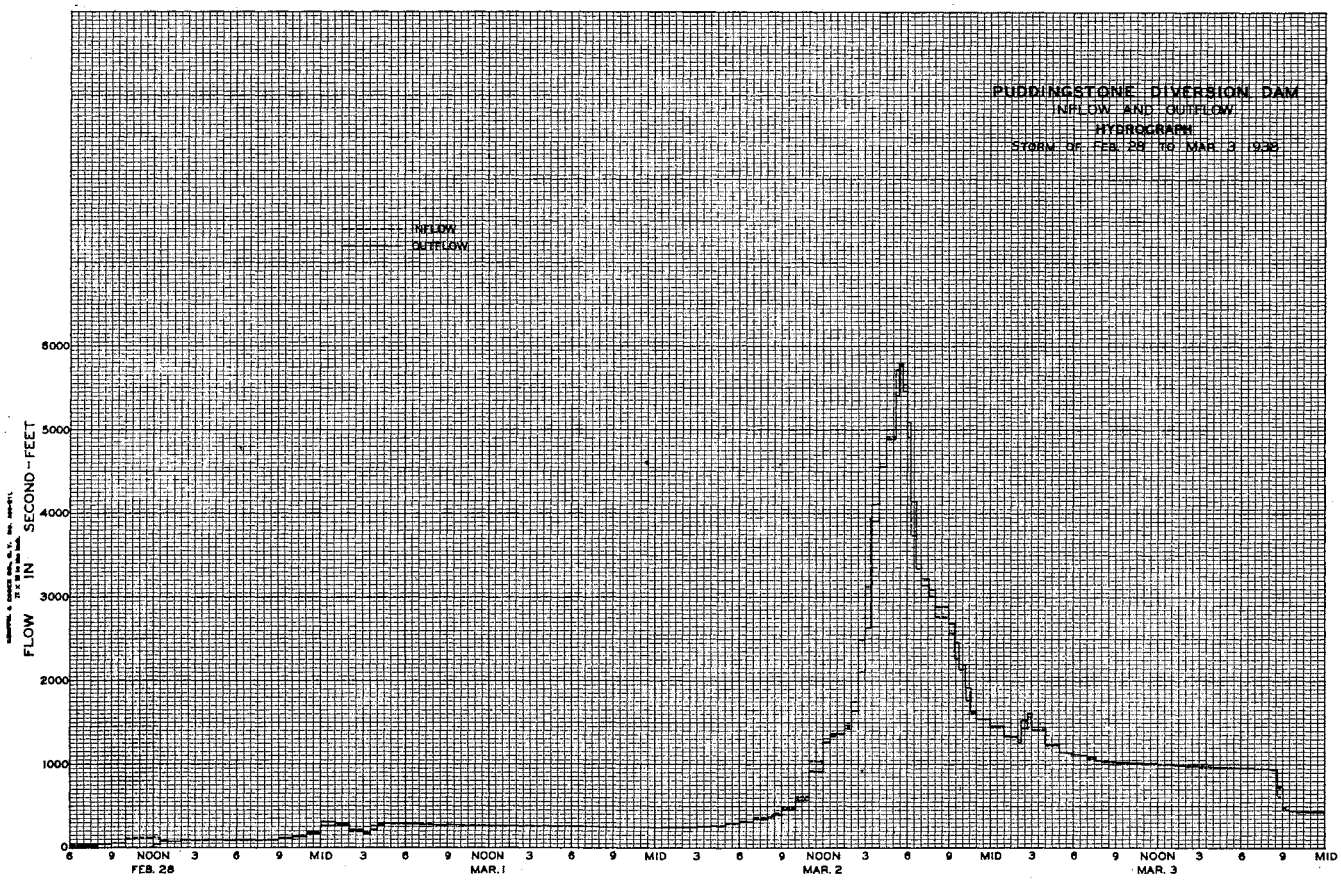

DEVIL'S GATE DAM
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
0
2000
4000
6000
8000
10000
12000
14000
6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3

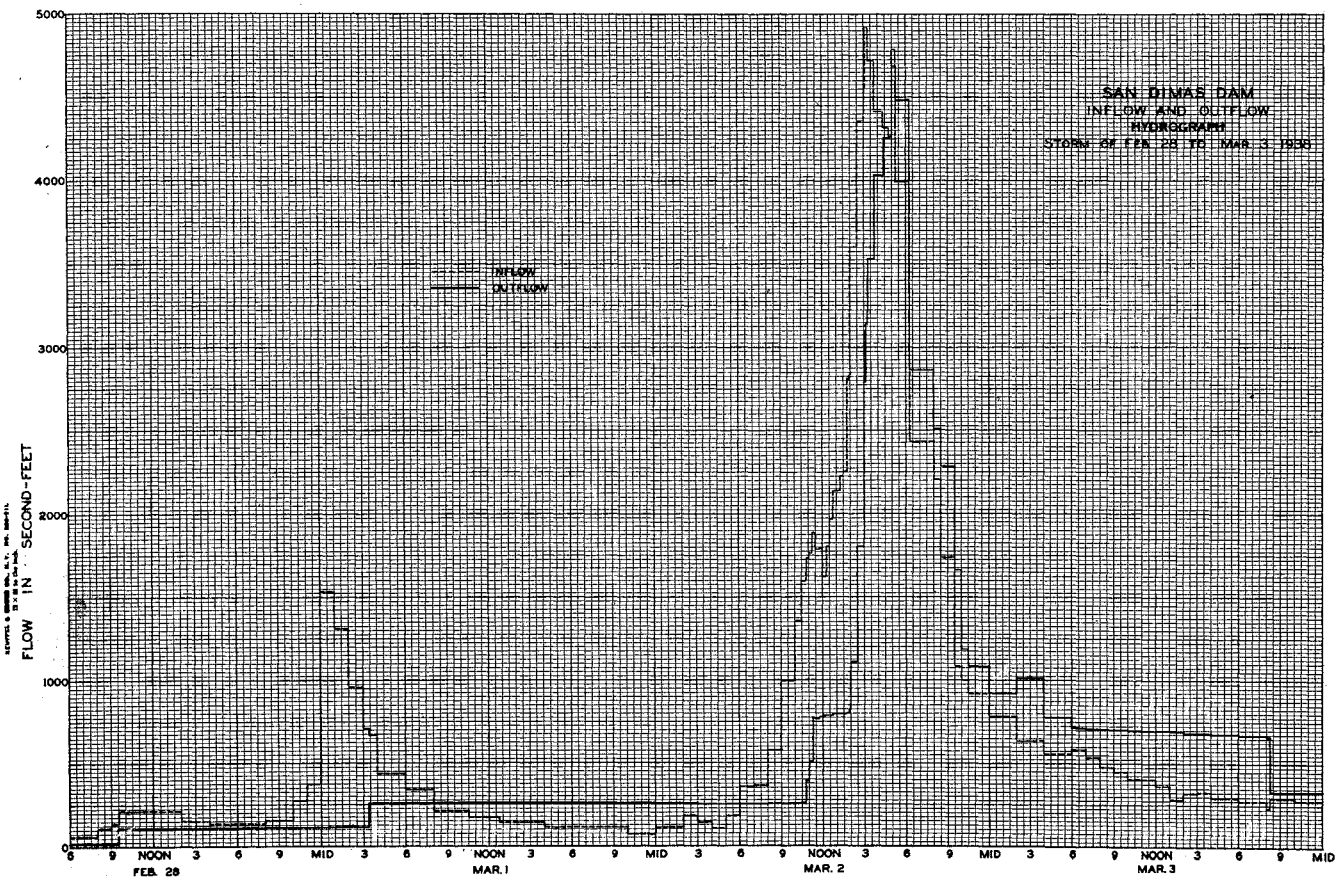

EATON WASH DAM
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3, 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
2800
2400
2000
1600
1200
800
400
0
NOON
FEB. 28
MID
NOON
MAR. 1
MID
NOON
MAR. 2
MID
NOON
MAR. 3
MID

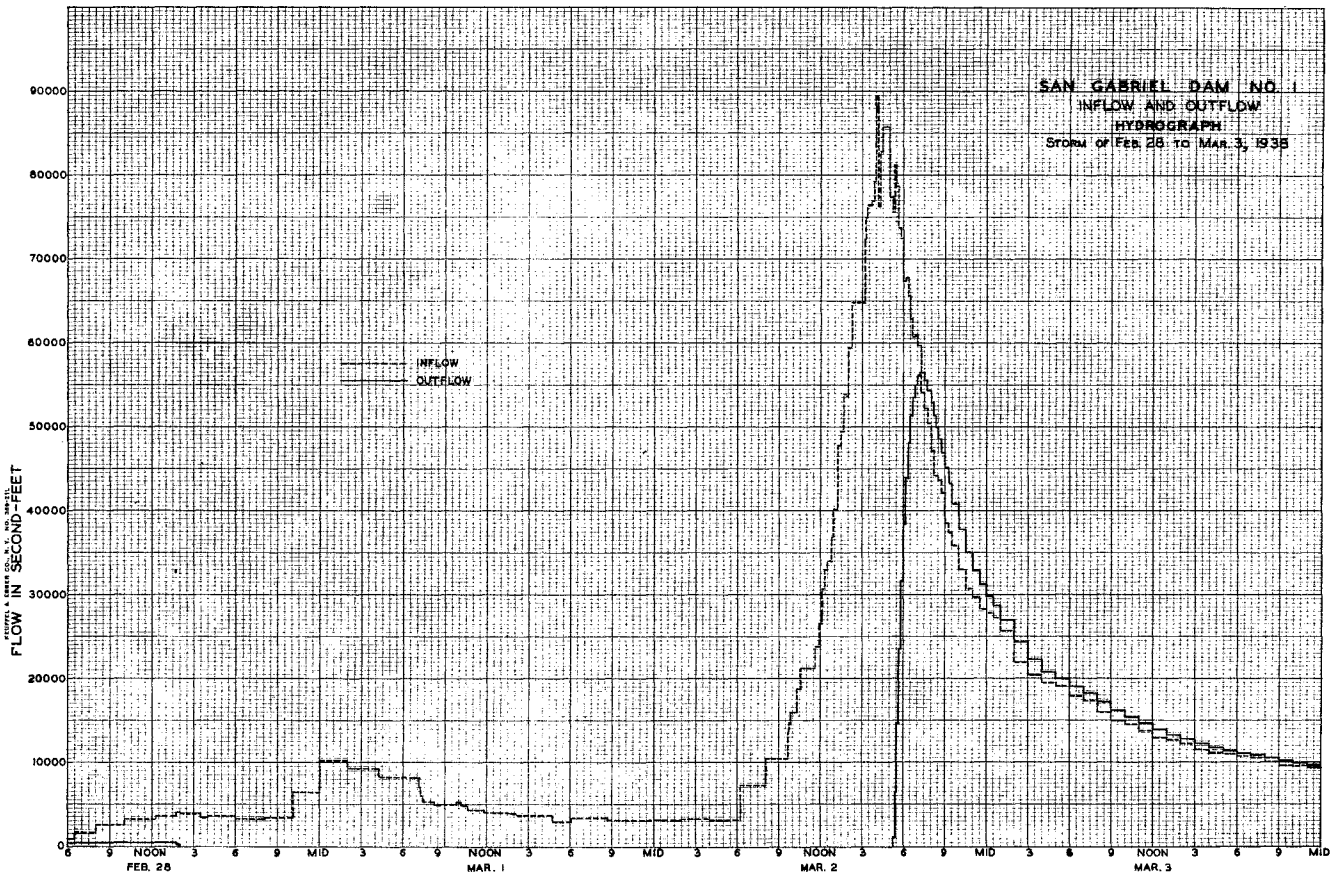

LIVE OAK DAM
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3, 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
NOON
FEB. 28
MID
NOON
MAR. 1
MID
NOON
MAR. 2
MID
NOON
MAR. 3
MID

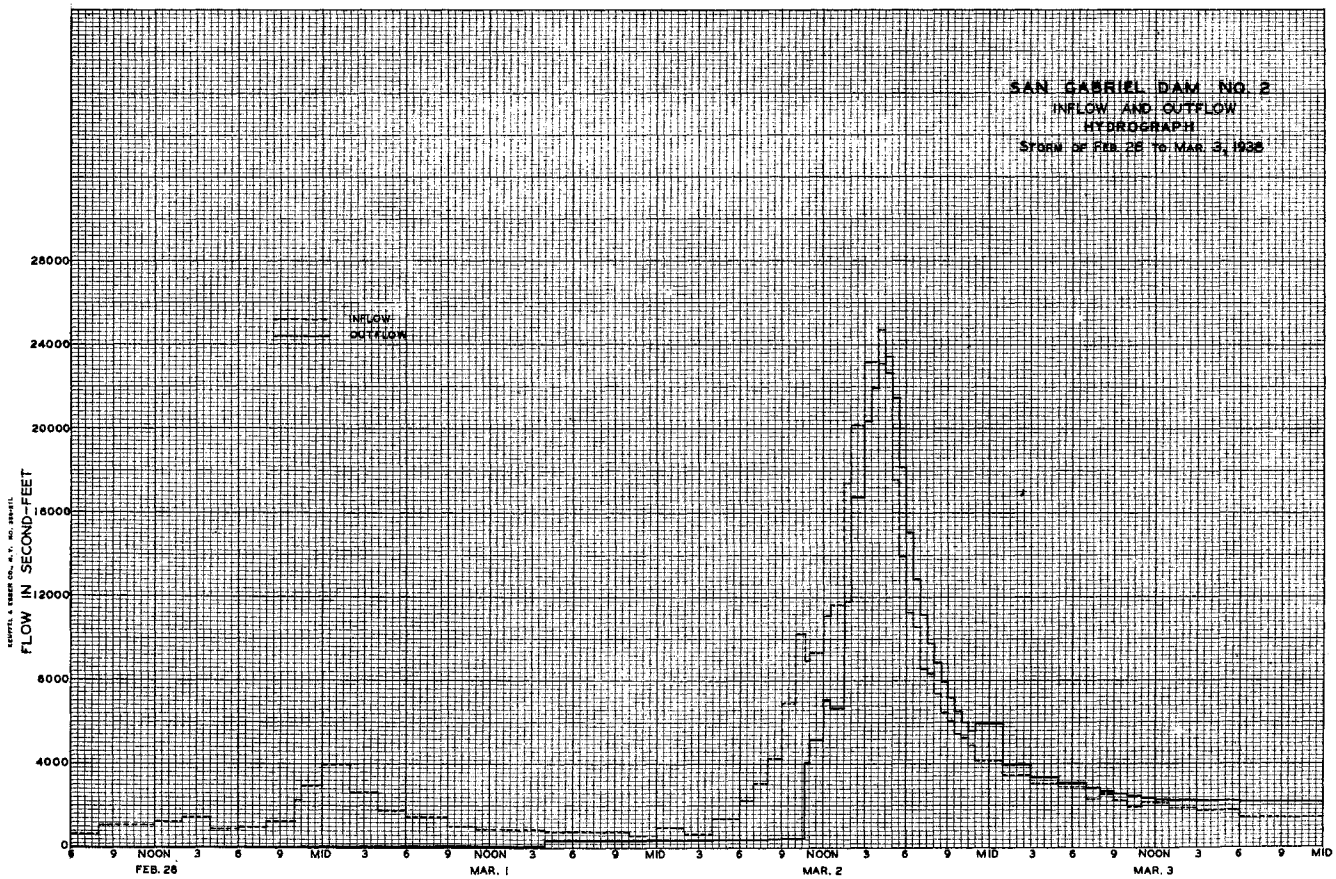

PACOIMA DAM
INFLOW AND OUTFLOW
HYDROGRAPH
Storm of Feb. 28 to Mar. 3, 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3

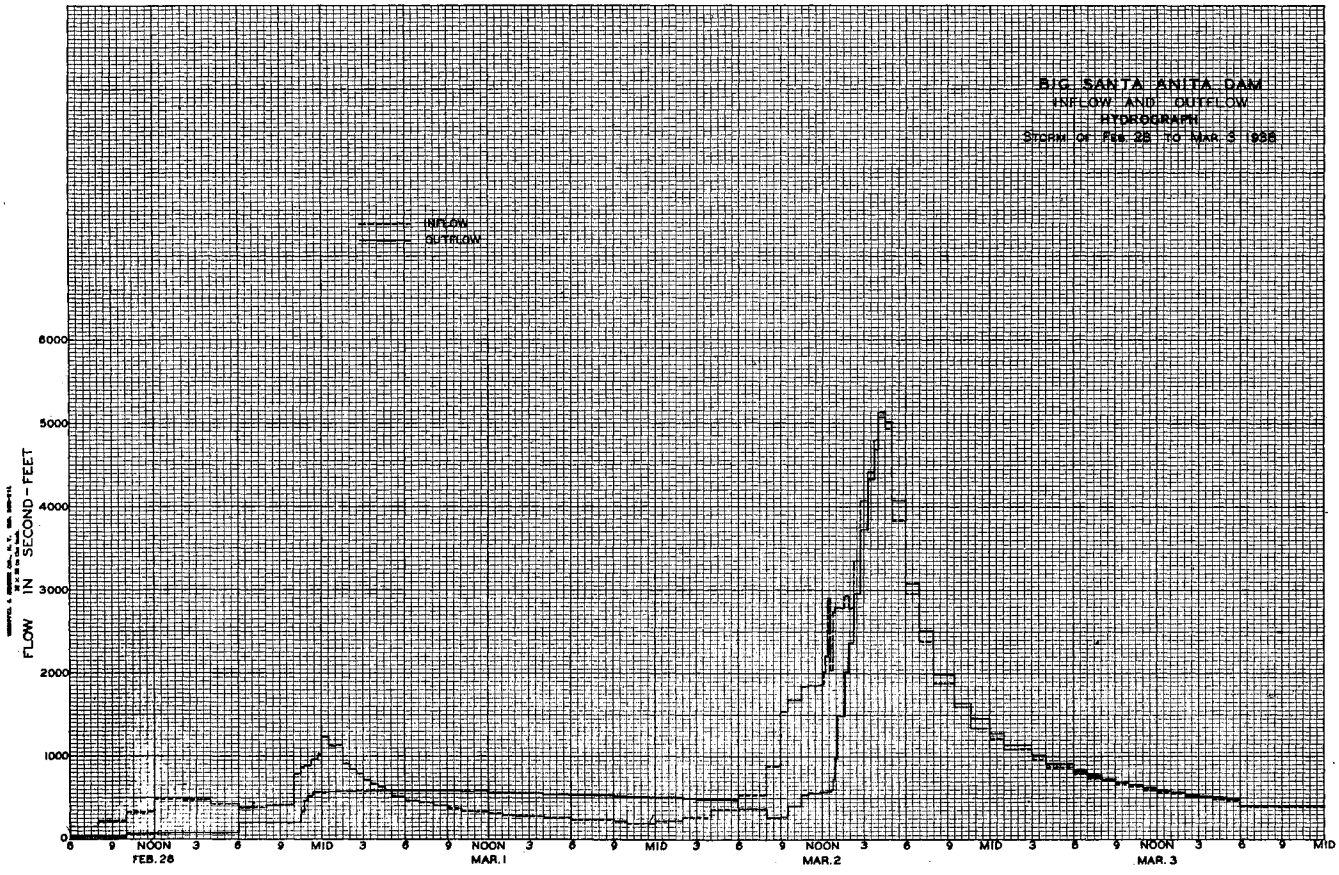

PUDDINGSTONE DAM
INFLOW AND OUTFLOW
HYDROGRAPH
Storm of Feb. 28 to Mar. 3, 1938
INFLOW
OUTFLOW
NO OUTFLOW DURING PERIOD SHOWN
FLOW IN SECOND-FEET
6000
5000
4000
3000
2000
1000
0
6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3

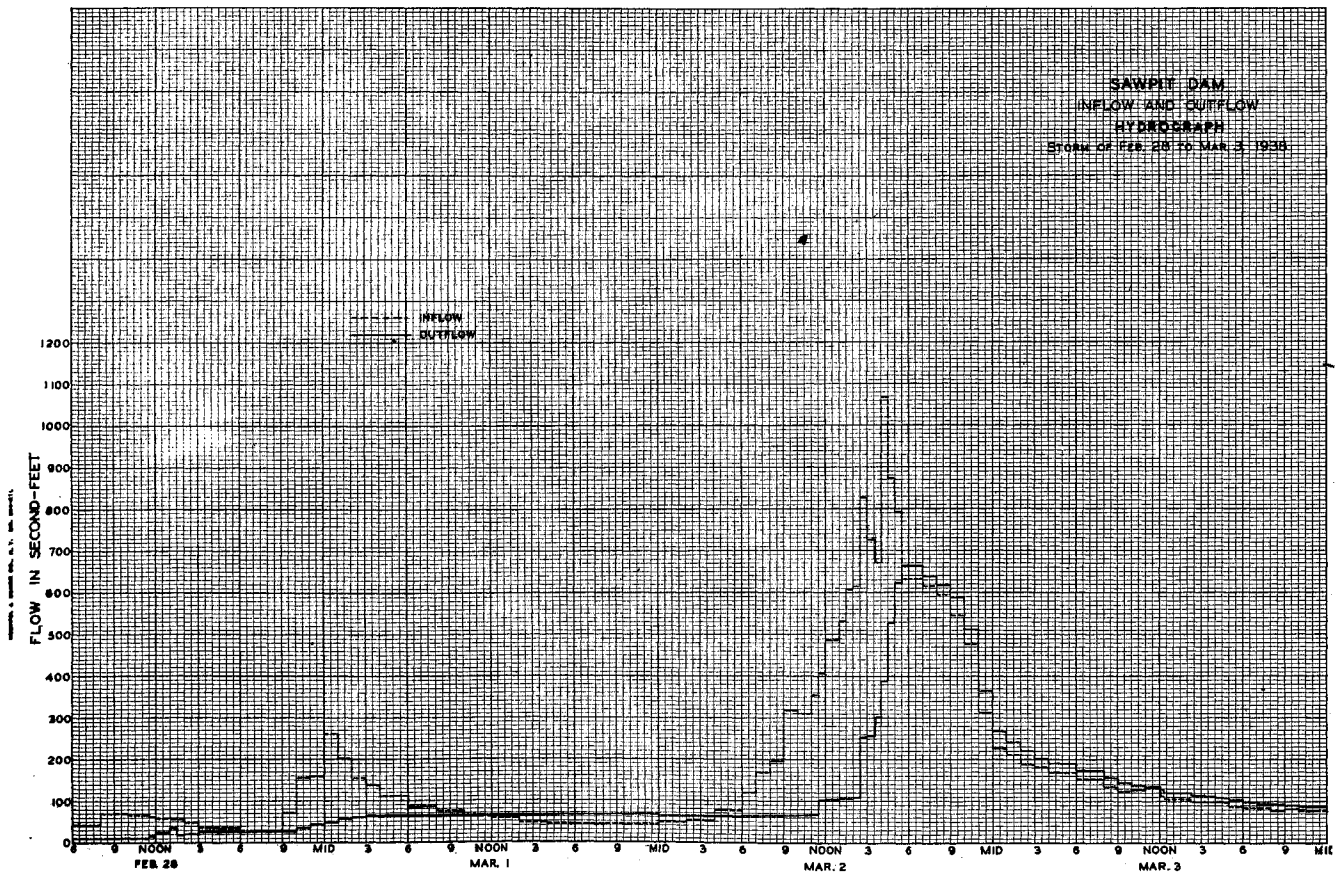

PUDDINGSTONE DIVERSION DAM
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
0
1000
2000
3000
4000
5000
6000
6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3

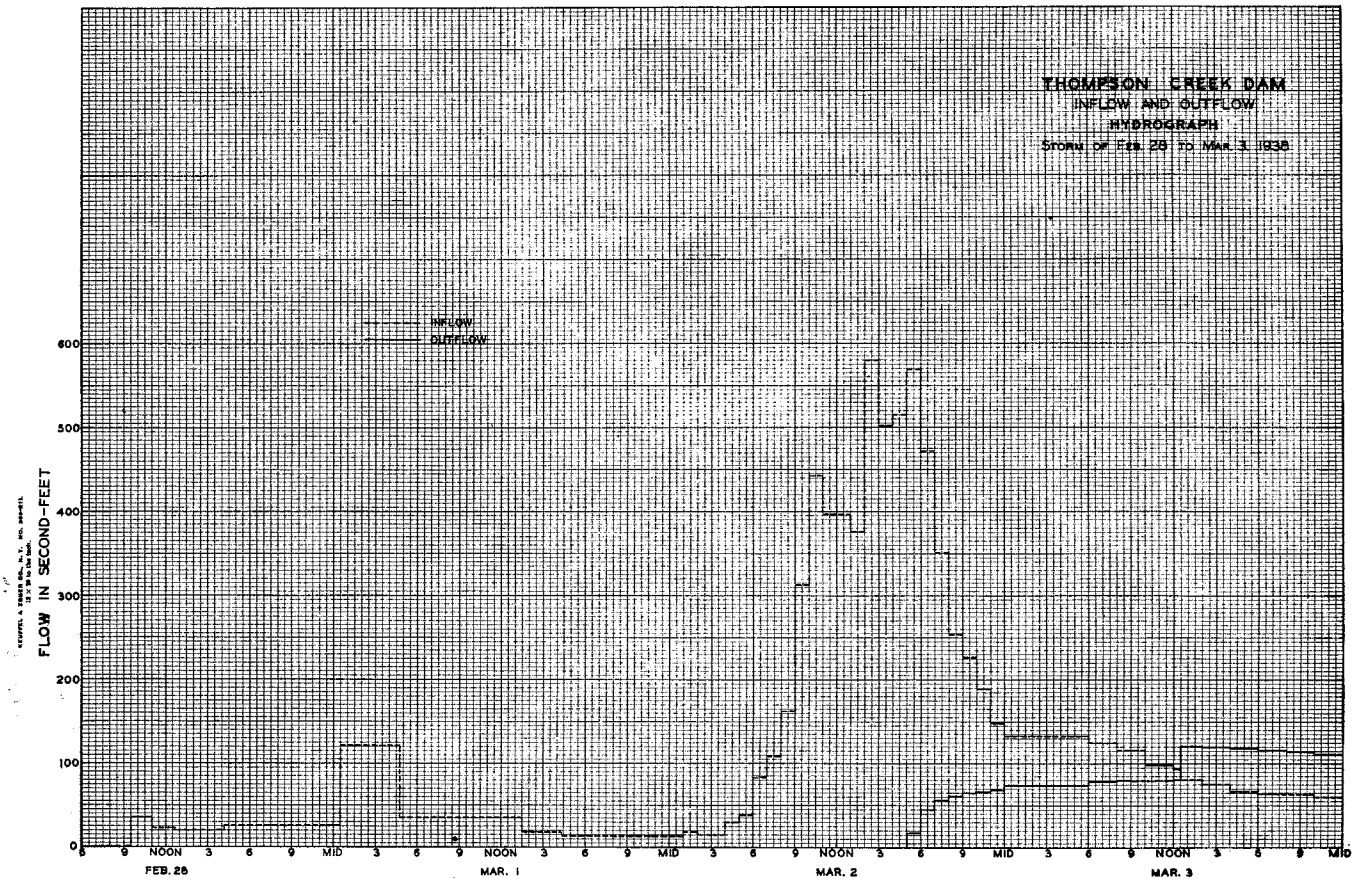

SAN DIMAS DAM
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
0
1000
2000
3000
4000
5000
6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3

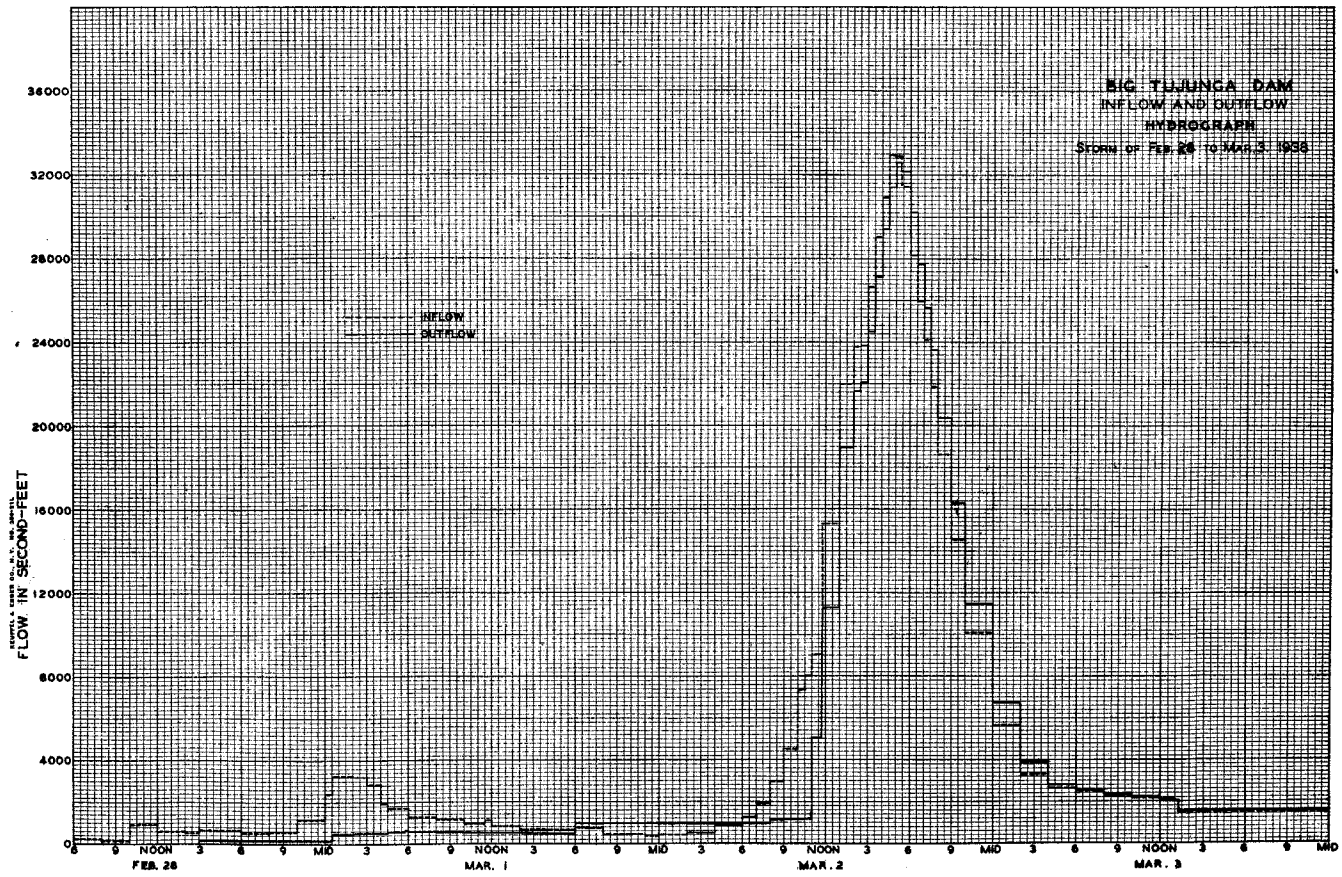

SAN GABRIEL DAM NO. 1
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3, 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3


SAN GABRIEL DAM NO. 2
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3, 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
28000
24000
20000
16000
12000
8000
4000
0
6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3


BIG SANTA ANITA DAM
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
6000
5000
4000
3000
2000
1000
0
6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3


SAWPIT DAM
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3


THOMPSON CREEK DAM
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3, 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
0
100
200
300
400
500
600
9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3


BIG TUJUNGA DAM
INFLOW AND OUTFLOW
HYDROGRAPH
STORM OF FEB. 28 TO MAR. 3, 1938
INFLOW
OUTFLOW
FLOW IN SECOND-FEET
0
4000
8000
12000
16000
20000
24000
28000
32000
36000
9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID 3 6 9 NOON 3 6 9 MID
FEB. 28
MAR. 1
MAR. 2
MAR. 3

RUNOFF RECORDS

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Department

RUNOFF RECORDS

Seasons of 1936-37 and 1937-38

FOREWORD:

Following the formation of the Flood Control District in Los Angeles County in 1915 with its resultant increase in flood control protective work, the lack of basic hydrologic records of sufficient length and scope became more apparent. In 1927, to satisfy this need for more basic design data, the Hydraulic Department was organized in order to establish and maintain permanent gaging stations on various streams and channels in the County. Some of these records continue uninterruptedly since 1927.*

PURPOSE:

The collection of streamflow data has three general purposes: (1) Dam Operation, (2) Design, and (3) Conservation.

Complete hydrologic data is necessary in order to properly determine and correlate rainfall, runoff, and dam outflow. It also provides the information necessary to determine the adequacy of present flood control and conservation structures as well as to properly plan for future construction. In addition, the development of agriculture and the growth of communities demand this type of data in order to develop an adequate program of conservation and determine the available water supply.

EXTENT AND TYPE OF RECORD:

This report contains complete or partial records of 68 recorder stations operated by the Flood Control District and of 13 recorder stations operated by the U.S.G.S. Water Resources Branch with the cooperation of the Flood Control District. The locations of all stations are shown on Map No. 7.

The stations are located on various natural, permanently constructed or temporarily constructed channels. The slope and cross-section of these channels vary greatly between the mountain and valley areas. All of these factors have some effect on the records at the station locations.

The types of control sections at the station locations vary considerably. In general the following types may be noted:

(1) Natural controls - shifting sand and gravel, or permanent rock.

* Earlier records, on some streams, are available in either the office of the U.S.G.S. Water Resources Branch or in the office of the State Division of Water Resources. Reference to these records, if available, can be found under "Station Descriptions" herein published.

(2) Artificial controls - concrete, placed rock, flumes and weirs.

(3) Concrete lined or riprap channels with no definite control point.

The water stage is recorded by various types of automatic recorders usually mounted over a concrete or corrugated iron pipe stilling well. The type of recorder used at a station is determined by the importance of the particular record and the practicability of frequent access by a district hydrographer.

Type of Recorders in Use

Type	No. in Use	Time - Duration
Au	26	continuous
*H.C.F.	26	continuous
Stevens (Type A)	2	continuous
Stevens (Type L)	8	Weekly or Daily
Rational (Vertical)	6	12 Day or Daily
Rational (Horizontal)	3	Weekly

*The H.C.F. recorder was developed in the District's Hydraulic Department in order to have available a recorder which more nearly satisfies the particular needs of the District at a smaller cost than comparable commercial recorders.

RECORDS PRESENTED:

(1) "Station Description" giving the pertinent data in regards to location, drainage areas, channels and controls, available measurements, recorders, regulation, diversions, available records, extremes of discharge, accuracy of records, and operation.

(2) "List of Measurements" giving all the actual meter measurements together with observed water stage, areas of cross-section, and mean velocities.

(3) "Mean Daily Runoff Tabulation" giving mean daily runoff in second-feet; total monthly and yearly runoff in second-foot days and acre-feet.

(4) "Hydrographs" showing a curve of instantaneous flow versus time for the larger storms of the period. In general the storm producing the peak flow of the season at the maximum number of stations was selected so that the hydrographs on a major stream system might be compared. More than one storm hydrograph was plotted in some instances where the magnitude or volume varied enough to be considered of sufficient interest.

Records of 1138 measurements taken at various staff gage stations are also included herein. These measurements are correlated with the water stage at an established metering section. Included in this type of record are the measurements of "Rising Water at Whittier Narrows" which are taken weekly, at established staff gage stations.

In addition to the above, the report includes 1304 miscellaneous measurements taken in various drainage areas throughout the County. These data were collected as additional information and is insufficient to determine mean daily flow.

Percolation measurements taken during the period of this report are very limited. They consist of 13 sets taken on reaches of the Big Dalton, Big Tujunga, Little Dalton, and San Dimas Washes.

COOPERATION:

Certain records included in this report were obtained with the cooperation of the U.S.G.S. Water Resources Branch and the United States Engineer Department, Los Angeles Office.

RESPONSIBILITY:

The collection of the field data was the responsibility of the following district hydrographers:

District	Name
1A	T. A. Cooper
1B&3	R. E. Lindsay
2	C. L. Brewster
4	E. S. Bondiman
5A&5B	J. Prickett and T. E. Moon, after 9-15-38
6	C. E. Bollinger
8	L. J. Turner and R. A. Waddicor, after 11-1-37 W. T. Lind, after 2-15-38
7-9&10	J. W. Luce

The compilation of the records was performed under the direction of O. A. Wait and H. A. Van der Goot.

RUNOFF SUMMARY:

The period (1936-37 and 1937-38) covered by this report produced the largest flood and had the greatest seasonal runoffs since records have been made available by the District. It is probable that the March 2, 1938 flood produced higher peak flows and greater volumes than either the floods of 1913-1914 or 1915-1916; and it is possible that the 1938 flood exceeded that of 1889-1890, for which no runoff records are available.

Table No. 1, Page 79, shows the drainage areas and yearly runoff for the two year period. Table No. 2, Page 80, gives a comparison of the maximum peak flows since and including the storm of December 31, 1933 to January 1, 1934.

LIMITATIONS:

(1) During the March 2, 1938 flood several recorder stations and records were lost entirely and in other instances the records were found to be so unreliable that they were of little value. This fact is noted in the "Station Descriptions". In some instances the records were estimated by means of comparison graphs or other methods.

(2) Measurements other than meter measurements are in general not published i.e., quantities determined by float velocities and computed cross-sectional areas. Some float and surface velocity measurements were published when the areas were determined by actual soundings.

(3) Descriptions of certain stations are published without records. The records are available in the office of the Hydraulic Department of the Los Angeles County Flood Control District.

(4) The "Mean Daily Runoff Tabulations" are qualified under "Accuracy" in the Station Descriptions, showing those periods that were estimated. Such estimates may have been made by comparison, interpolation, extrapolation or comparative runoff per square mile.

(5) In those cases where stations were moved, the records of the various locations were combined when no appreciable change in drainage area occurred; otherwise they are shown as separate records.

(6) The legend used in plotting the hydrographs has the following significance:

The solid line indicates the portion of the hydrograph lying below the maximum meter measurement taken during the period of the storm, unless the control was sufficiently stable to make other measurements applicable.

The dotted line indicates computed flow based on water stage records and stage discharge relation determined by float measurements or extrapolation.

The dash line indicates estimated flow for periods when the water stage record was lost or was considered unreliable. A number of recorder records were lost when the stations were washed out in the March 2, 1938 flood.

LEGEND:

Prefix F	-	indicates stations owned and operated by the Los Angeles County Flood Control District.
Prefix U	-	indicates stations owned and operated by the U.S.G.S. Water Resources Branch.
Prefix P	-	indicates stations operated by the District and formerly operated by the Pasadena Water Department.
Prefix L	-	indicates station operated in cooperation with the Little Rock Palmdale Irrigation Company.
Suffix R	-	indicates recorder stations.
Suffix S	-	indicates staff gage stations.
Suffix B or C etc.		indicates that the station has been moved. B - represents second location and C - represents third location, etc.
Inc.		indicates incomplete yearly totals. No records of less than three complete consecutive months are totaled.

TABLE I

RUNOFF IN ACRE-FEET AT RECORDER STATIONS

Seasons 1936-37 and 1937-38

F.C. No.	Station Location	Drainage Area in Sq. Mi.	Runoff in Acre-feet 1936-37	1937-38
F81D-R	ALHAMBRA WASH above Short Street	14.5	3880	5520
F38B-R	BALLONA CREEK at Sawtelle Blvd.	111.	40680	52500
F111B-R	BIG TUJUNGA CREEK above Edison Road	67.0	19440	45600
F110-R	BIG TUJUNGA - FOX CREEK above mouth	9.4	3810	
F168-R	BIG TUJUNGA CREEK below Big Tujunga Dam #1	81.7	25850	*9610
F213-R	BIG TUJUNGA CREEK below submerged dam	106.	36260	83960
F20-R	BIG TUJUNGA WASH at Stonehurst Avenue	148.	35580	* 5940
F105-R	BIG TUJUNGA - WEST WASH at Magnolia Blvd.	Split	51	
F106-R	BIG TUJUNGA - EAST WASH at Magnolia Blvd.	Split	2720	*2140
F2-R	BROWN'S CANYON WASH at Devonshire Ave. Chatsworth	14.3	439	2120
F37-R	COMPTON CREEK at Rosecrans Avenue	21.7	*6240	*6850
F41C-R	COYOTE CREEK at Del Amo Street	110.	*13680	15070
F53-R	DUME CREEK at Roosevelt Highway	8.8	1900	
F104-R	EATON WASH at Sunset Avenue	18.4	1300	4170
F65-R	LITTLE DALTON CREEK at mouth of canyon	3.3	1430	2660
L1-R	LITTLE ROCK CREEK above Little Rock Dam	49.0	21950	*4690
F67B-R	LITTLE SANTA ANITA CREEK below Sierra Madre Dam	2.4	835	2350
F19-R	LITTLE TUJUNGA CREEK at Foothill Boulevard	21.0	4760	8960
F31-R	LIVE OAK CREEK near mouth of canyon	2.6	429	794
F5-R	LOS ANGELES RIVER at Van Nuys Boulevard	157.	10920	*18330
F57B-R	LOS ANGELES RIVER below Dayton Avenue	510.	24470	132600
F34B-R	LOS ANGELES RIVER at Firestone Boulevard	614.	48630	201300
F180-R	LOS ANGELES RIVER at State St., Long Beach	Split	91110	408000
F100-R	MAIN SPREADING CANAL at mouth of San Gabriel Canyon - and	Regulated	22280	20220
	SAN GABRIEL RIVER- AZUSA DUARTE TUNNEL DIV.	Regulated	30640	27776
F130-R	MALIBU CREEK at Crater Camp	103.	23940	34100
F22-R	MONROVIA CREEK above junction with Sawpit Cr.	1.9	456	1430
F195-R	MONROVIA STORM DRAIN near Peck Road	4.5	539	1130
F118B-R	PACOIMA CREEK flume below Pacoima Dam	28.2	14540	22740
F16-R	PACOIMA WASH at Parthenia Street	50.6	356	*1130
F40-R	PUDDINGSTONE CREEK below Puddingstone Dam	33.1	203	4810
F192-R	RIO HONDO at Lower Azusa Road	Split	27960	174300
F64&64B-R	RIO HONDO 1000 feet above Mission Bridge	Split	50900	209300
F45-R	RIO HONDO at Stewart and Gray Road	Split	26870	172100
F83-R	RIO HONDO SLOUGH at San Gabriel Boulevard		10840	*14220
F82C-R	RUBIO WASH at Glendon Way	13.4	*2600	4180
F151-R	SAN ANTONIO CREEK at mouth of canyon	28.0	22570	42300
F228-R	SAN GABRIEL RIVER - W. FORK above S. G. Dam #2	14.4	19050	*837
F227-R	SAN GABRIEL RIVER - DEVILS CANYON above S.G. Dam #2	15.4	8980	*547
F209-R	SAN GABRIEL RIVER - W. FORK below S.G. Dam #2	41.	33580	58920
F99B-R	SAN GABRIEL RIVER - BEAR CR. above Heat Fork	27.9	27440	*2670
F98-R	SAN GABRIEL RIVER - NORTH FORK above mouth	18.8	16750	*4260
F3&F3B-R	SAN GABRIEL RIVER - W. FORK above Forks	102.	96590	*171900
F4-R	SAN GABRIEL RIVER - E. FORK above Forks	91.4	107400	150800
F233-R	SAN GABRIEL RIVER near Roberts Relay Station	201.	*26350	
F28-R	SAN GABRIEL RIVER at Edison Intake	202.	*182600	
F250-R	SAN GABRIEL - AZUSA CONDUIT at sand box weir	Regulated	19740	11160
F220-R	SAN GABRIEL - AZUSA CONDUIT at north Portal #4-B Tunnel	Regulated	21030	11910
F190-R	SAN GABRIEL RIVER at Foothill Boulevard	230.	117400	*50820
F261-R	SAN GABRIEL RIVER near Elliot Avenue	Split	*6790	
F263-R	SAN GABRIEL RIVER at Beverly Boulevard	Split	*31720	94810
F63-R	SAN GABRIEL RIVER at Whittier Boulevard	Split	*2520	
F262-R	SAN GABRIEL RIVER at Florence Avenue	Split	*5120	
F42-R	SAN GABRIEL RIVER at Spring Street	Split	13510	88020
F48-R	SAN JOSE CREEK at Workman Mill Road	85.0	9600	15450
F119-R	SANTA ANITA CREEK Parshall flume below Santa Anita Dam	10.8	7920	*1850
F260-R	SANTA ANITA CREEK above junction with Little Santa Anita Creek	12.9	6450	*1230
F260B-R	SANTA ANITA CREEK at Foothill Blvd.	19.2		*2220
F193-R	SANTA ANITA WASH below Arrow Highway	18.4	2090	*682
F92-R	SANTA CLARA RIVER at old highway bridge W. of Saugus	355.	4850	26900
F185-R	SEPULVEDA CREEK at Charnock Road	25.7	5010	*4440
F44-R	SYCAMORE LOWER STORM DRAIN at Adams Square	6.2	*1760	
F54-R	TOPANGA CREEK at highway bridge above mouth	18.0	6680	15310
F252-R	VERDUGO CHANNEL at Estelle Avenue	22.4	*1560	5450
F47-R	WALNUT CREEK at Covina Boulevard	99.0	4300	12610

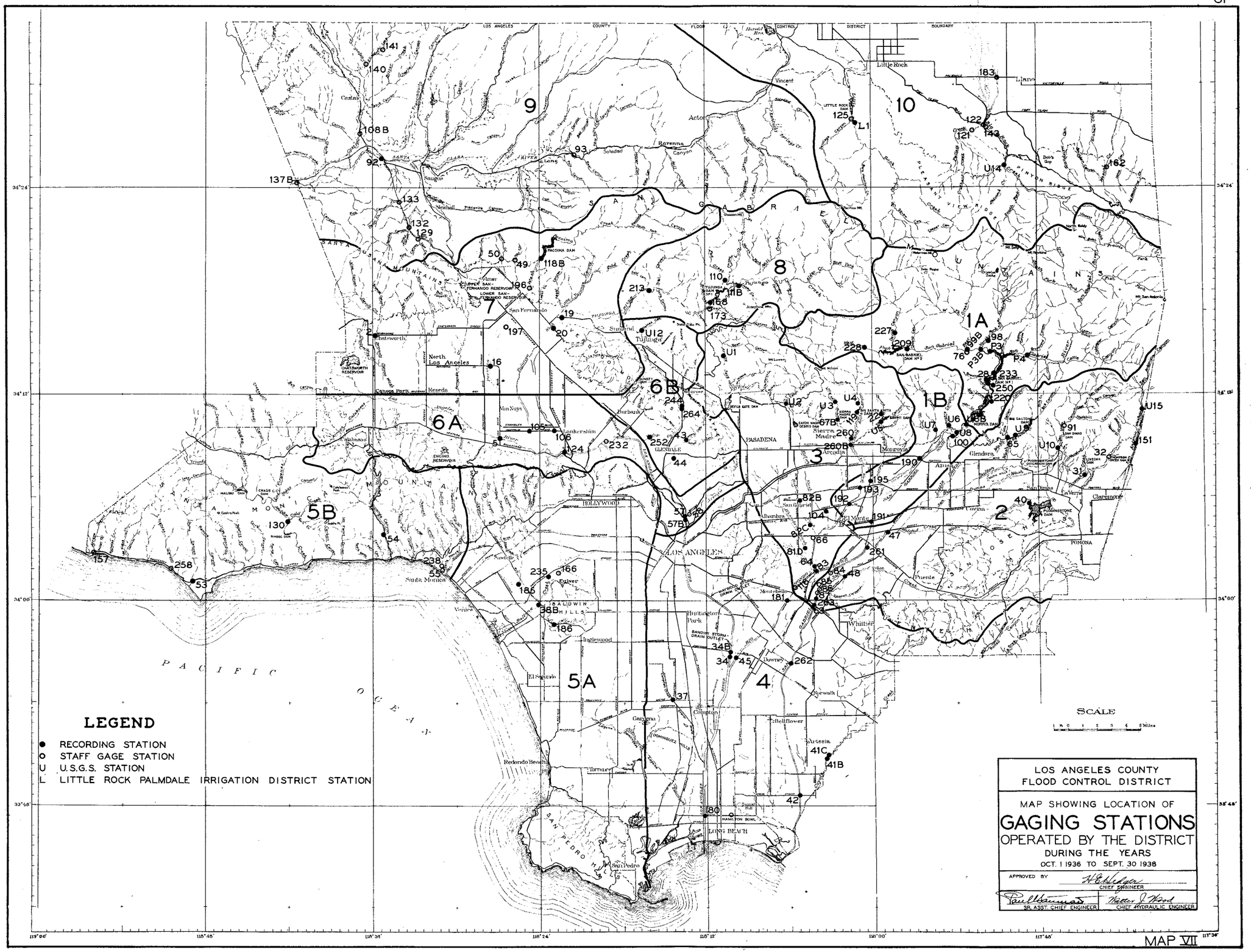
* Indicates incomplete yearly totals. See "Station Description" for further details.

TABLE II

COMPARISON OF FLOOD PEAKS AT RECORDER STATIONS

F. C. No.	Station Location	Flood Peaks in Second-Feet Dec.31,1933 Jan. 1,1934	Feb.6, 1937	Feb.13-14, 1937	Feb.28, Mar.1,1938	March 2, 1938
F81D-R	ALHAMBRA WASH 250 ft. above Short St.		1180	1050	3090	3670
F38B-R	BALLONA CREEK at Sawtelle Boulevard	11300	7440	8080	15280	19000
F111B-R	BIG TUJUNGA CREEK above Edison Road	1520	1030	1010	2480	N.D.
F110-R	BIG TUJUNGA - FOX CREEK ¼ mi. above mouth	215	227	N.D.	N.D.	N.D.
F168-R	BIG TUJUNGA CREEK below Big Tujunga Dam #1	44	5.8	308	N.D.	E33000
F213-R	BIG TUJUNGA CREEK below submerged dam	1450	248	266	1180	E50000
F20-R	BIG TUJUNGA WASH at Stonehurst Avenue	3750	404	550	1300	E54000
F105-R	BIG TUJUNGA- WEST WASH at Magnolia Blvd.	145	53	50	N.D.	N.D.
F106-R	BIG TUJUNGA- EAST WASH at Magnolia Blvd.	3110	681	338	1880	N.D.
F2-R	BROWN'S CANYON WASH at Devonshire Avenue, Chatsworth	N.D.	126	140	94	E1100
F37-R	COMPTON CREEK at Rosecrans Avenue	960	1220	1080	1560	N.D.
F41-B-C-R	COYOTE CREEK at Del Amo Street	2020	4190	4050	1940	3610
F53-R	DUMM CREEK at Roosevelt Highway	2750	624	494	N.D.	N.D.
F104-R	EATON WASH at Sunset Avenue	2180	261	251	670	E1900
F65-R	LITTLE DALTON CREEK at mouth of canyon	201	84	79	391	E960
L1-R	LITTLE ROCK CREEK 2 miles above Little Rock Dam	N.D.	1550	1070	N.D.	E17000
F67B-R	LITTLE SANTA ANITA CREEK 270 ft. below Sierra Madre Dam	39	30	39	135	E620
F19-R	LITTLE TUJUNGA CREEK at Foothill Blvd.	1360	542	964	1140	E8500
F31-R	LIVE OAK CREEK near mouth of canyon	35	25	29	37	257
F5-R	LOS ANGELES RIVER at Van Nuys Boulevard	7380	2390	2630	3220	E12000
F124-R	LOS ANGELES RIVER at Vineland	9140	2630	2770	N.D.	E37700
F57&57B-R	LOS ANGELES RIVER below Dayton Avenue	22000	2410	2410	9920	E68000
F34&34B-R	LOS ANGELES RIVER at Firestone Boulevard	29400	5200	7560	18500	E79000
F160-R	LOS ANGELES RIVER at State St., Long Beach	37500	10700	20500	23300	E99000
F130-R	MALIBU CREEK at Crater Camp	9650	2660	2760	5960	E10000
F22-R	MONROVIA CREEK 200 ft. above junction with Sawpit Creek	108	32	39	97	N.D.
F195-R	MONROVIA STORM DRAIN near Peck Road	554	189	137	436	E1200
F181-R	MONTEBELLO STORM DRAIN at outlet into Rio Hondo at Mines Ave.	1360	N.D.	N.D.	N.D.	E1400
F118B-R	PACOIMA CREEK flume below Pacoima Dam	54	1.7	49	166	685
F16-R	PACOIMA WASH at Parthenia Street	305	159	154	319	•E2400
F40-R	PUDDINGSTONE CREEK below Puddingstone Dam	N.D.	18	12	15	38
F192-R	RIO HONDO at Lower Azusa Road	5860	328	485	4000	E31000
F64&64B-R	RIO HONDO at Mission Bridge	E11800	3150	3250	5670	E28000
F45-R	RIO HONDO at Stewart and Gray Road	16000	3050	4800	7600	•E24400
F83-R	RIO HONDO SLOUGH at San Gabriel Blvd.	166	60	84	91	N.D.
F82C-R	RUBIO WASH at Glendon Way	2070	823	493	1480	2400
F151-R	SAN ANTONIO CREEK at mouth of canyon	200	190	238	1220	E23400
F228-R	SAN GABRIEL RIVER - W. Fork 3-1/2 miles above San Gabriel Dam No. 2	1850	583	596	N.D.	N.D.
F227-R	SAN GABRIEL RIVER - DEVIL'S CANYON 2 miles above San Gabriel Dam No. 2	1560	367	321	N.D.	N.D.
F209-R	SAN GABRIEL RIVER - W. FORK 1/2 mile below San Gabriel Dam No. 2	4400	N.D.	752	N.D.	E25000
F99B-R	SAN GABRIEL RIVER - BEAR CREEK 500 ft. above West Fork	1600	721	736	N.D.	E12500
F98-R	SAN GABRIEL RIVER - NORTH FORK 1 mile above mouth	276	121	165	1020	N.D.
P3&P3B-R	SAN GABRIEL RIVER - W. FORK 2 miles above Forks	5320	1170	2000	3460	E34000
P4-R	SAN GABRIEL RIVER - E. FORK 2 miles above Forks	8500	1710	2180	N.D.	E40000
F28-R	SAN GABRIEL RIVER at Edison Intake	18000	2760	4240	N.D.	N.D.
F190-R	SAN GABRIEL RIVER at Foothill Boulevard	5550	514	454	2530	E62000
F263-R	SAN GABRIEL RIVER at Beverly Boulevard	22000	6100	6970	7920	E22700
P42-R	SAN GABRIEL RIVER at Spring St., Long Beach	15000	5690	4560	7370	E27300
P48-R	SAN JOSE CREEK at Workman Mill Road	13100	3840	4070	2900	9350
F119-R	SANTA ANITA CREEK Parshall flume below Santa Anita Dam	N.D.	103	139	N.D.	N.D.
F260-R	SANTA ANITA CREEK 770 ft. above junction with Little Santa Anita Creek	N.D.	133	162	812	N.D.
F193-R	SANTA ANITA WASH below Arrow Highway	399	96	107	N.D.	N.D.
F92-R	SANTA CLARA RIVER - at old highway bridge 4 miles W. of Saugus	3670	308	627	1570	E24000
F185-R	SEPULVEDA CREEK at Charnock Road	1150	1410	1980	3220	E3140
F44-R	SYCAMORE LOWER STORM DRAIN at Adams Square	1150	171	181	547	E2800
F54R	TOPANGA CREEK at highway bridge 2 miles above mouth	4510	640	913	6630	E9300
F252-R	VERDUGO CHANNEL at Estelle Avenue		380	274	1390	E4400
F47-R	WALNUT CREEK at Covina Boulevard	8060	1980	1530	3450	4290

N.D. Not Determined.
E Estimated
• Peak retarded to March 3, 1938.


LOS ANGELES COUNTY FLOOD CONTROL DISTRICT BOUNDARY
9
10
8
7
6A
6B
5A
5B
4
3
2
1A
1B
SANTA MONICA MOUNTAINS
SAN GABRIEL MOUNTAINS
PACIFIC OCEAN
Little Rock
Llano
Vincent
Acton
Ravenna Canyon
Soledad
Saugus
Newhall
Placerita Canyon
Castaic
Long
Pacoima
Tujunga
Sunland
San Fernando
Chatsworth
North Los Angeles
Canoga Park
Reseda
Van Nuys
Burbank
Glendale
Pasadena
Sierra Madre
Arcadia
Monrovia
Glendora
Azusa
San Dimas
La Verne
Claremont
Pomona
Covina
San Gabriel
Rosemead
El Monte
Whittier
Puente
Montebello
Downey
Norwalk
Compton
Gardena
Inglewood
Culver
Venice
Santa Monica
Malibu
Topanga
Calabasas
Hollywood
Los Angeles
Huntington Park
Bandini
Bell
Bellflower
Artesia
Redondo Beach
Torrance
San Pedro
Long Beach
Palos Verdes Hills
Baldwin Hills
Dominguez Hills
Elysian Park
Griffith Park
Big Santa Anita Dam
Big Dalton Dam
Sawpit Dam
Morris Dam
Eaton Wash Debris Dam
Devils Gate Dam
Hansen Dam
Lopez Dam
Little Rock Dam
Pacoima Dam
Tujunga Dam
Lower San Fernando Reservoir
Chatsworth Reservoir
Encino Reservoir
Hollywood Reservoir
Ridge Dam
Malibu Dam
Crags Country Club Dam
Puddingstone Dam
Live Oak Dam
Walnut Dam
Sawpit Dam
Bandini Storm Drain Outlet
Hamilton Bowl
Pleasant View Ridge
Mt. Lowe
Mt. Wilson
Mt. San Antonio
Mt. Baldy
Mt. Harvard
Mt. Islip
Mt. Lukens
Mt. Gleason
Mt. Disappointment
Mt. Waterman
Mt. Lowe
Mt. Markham
Mt. Hillyer
Mt. Olympus
Mt. Hollywood
Mt. Lee
Mt. Hollywood
Mt. Lee
Mt. Hollywood
Mt. Lee

RECORDER STATION DATA

STATION F81D-R

ALHAMBRA WASH 250 ft. above Short Street

LOCATION:

On east (left) side of channel about 250 feet above Short Street and 2650 feet below Garvey Avenue.
Abandoned stations F81R, F81B-R, and F81C-R were 2650 feet, 4050 feet, and 1750 feet, respectively, upstream from station F81D-R.

DRAINAGE AREA:

14.5 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

At low flow by wading near station.
At high flows from footbridge at station.

RECORDER:

Installed September 2, 1936, in F. C. standard type house over a 3.2 ft. x 4.0 ft. concrete stilling well.
An Au continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

At station F81R January 14, 1930 to September 30, 1934.
At station F81C-R October 1, 1934 to February 25, 1935.
At station F81C-R February 25, 1935 to April 27, 1936.
At station F81B-R April 27, 1936 to May 22, 1936.
At station F81D-R September 2, 1936 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 2470 second-feet March 15.
Minimum no flow most of year.
1937-1938
Maximum 3670 second-feet March 2.
Minimum no flow most of year.
1929-1934 (at station F81R)
Maximum 4890 second-feet January 1, 1934.
Minimum no flow most of each year.
1935-1938 (at stations F81B-R, F81C-R, F81D-R)
Maximum 3670 second-feet March 2, 1938.
(at station F81D-R)
Minimum no flow most of each year.

ACCURACY:

1936-1937 - Fair.
Sand and gravel in bottom of channel except at high flows.
Clock Stopped:
October 17, 18, 31, December 27, 28, 1936.
Communication trouble at times.

1937-1938 - Fair.
Estimated:
March 3, 4, August 16-19, 1938.

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 Department.

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 81 D-R

DISCHARGE MEASUREMENTS OF ALHAMBRA WASH

~~XXX~~ MEAN 250 ft. above Short Street DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/17	Lindsay	18.0	1.96	1.53	.45	3.0		.6	7	-.02	745A 752A	FC 28
2	10/17	"	18.5	2.51	1.83	.39	4.6		.6	6	-.02	1015A 1022A	"
3	10/29	Cole-Baustian	19.0	4.75	3.44	.63	16		.6	6	+.01	925P 940P	FC 7
4	10/31	" "	40.0	24.15	4.08	1.15	98			8	-.10	433A 458A	"
5	12/14	" "	39.5	22.6	3.77	1.04	85		.6	6	-.05	1017P 1025P	
6	12/15	Lindsay-McArthur	29.5	10.28	4.37	.48	45		.6	6	-.03	1005A 1015A	FC 28
7	12/15	Cole-Baustian	28.5	9.52	3.98	.51	38		.6	7	-.03	245P 256P	FC 7
8	12/15	" "	39.5	26.15	5.37	.93	142		.6	9	-.09	522P 539P	"
9	12/27	" "	40.0	49.8	6.19	1.42	308		.6	6	-.20	937A 946A	"
10	12/27 12/28	" "	40.0	36.6	6.07	1.18	222		.6	6	-.07	1150P 1202A	"
11	12/30	" "	39.5	21.19	3.69	.65	78		.6	11	+.04	430P 450P	"
12	12/30	" "	39.9	104.1	10.75	3.14	1120		.6	6	+.08 -.08	1035P 1050P	"
13	12/30	" "	39.9	89.8	9.32	2.82	837		.6	6	-.32	1102P 1120P	"
14	1/6	" "	39.5	23.23	2.48	1.15	58		.6	11	-.14	740A 758A	FC 7
15	1/12	" "	22.3	7.18	3.65	.66	26		.6	7	-.01	437P 446P	"
16	1/29	Lindsay	39.0	13.71	3.06	.82	42		.6	9	-.03	825A 837A	FC 28
17	1/30	Cole-Baustian	39.2	14.6	3.30	.85	48		.6	11	-.05	300P 312P	FC 7
18	1/30	" "	39.9	67.33	7.90	2.28	532		.6	6	-.04 +.05	550P 605P	"
19	2/6	" "	39.9	124.3	9.72	2.90	1210			6	-.06	1020A 1029A	"
20	2/6	" "	39.9	55.92	7.99	2.13	447		.6	6	-.05	250P 256P	"
21	2/7	" "	17.3	3.97	1.45	.72	5.8		.6	5	0	1215A 1221A	"
23	2/13	Cole-Baustian	39.9	88.	8.24	2.72	725		.6	6	+.16	1139P 1200P	FC 26
24	2/14	" "	39.5	24.47	3.86	1.44	94		.6	10	-.17	825A 842A	"
25	2/24 2/25	" "	26.5	5.70	1.50	1.06	8.6		.6	7	-.03	1150P 1202A	FC 36
26	2/25	" "	39.9	20.75	3.54	1.35	74		.6	10	-.02	135P 145P	"
27	3/13	" "	39.9	24.74	3.38	1.41	84		.6	11	-.06	730A 740A	"
28	3/15	" "	39.9	154.8	14.03	4.24	2170		.6		+.64 -.21	740P 834P	"
29	3/22	" "	39.9	15.35	2.44	1.39	38		.6	14	-.03	935A 952A	FC 1
31	4/29	Lindsay	15.0	3.00	2.36	1.00	7.1		F1	1		849A 850A	

F. C. D. FORM 104 1M 8-38

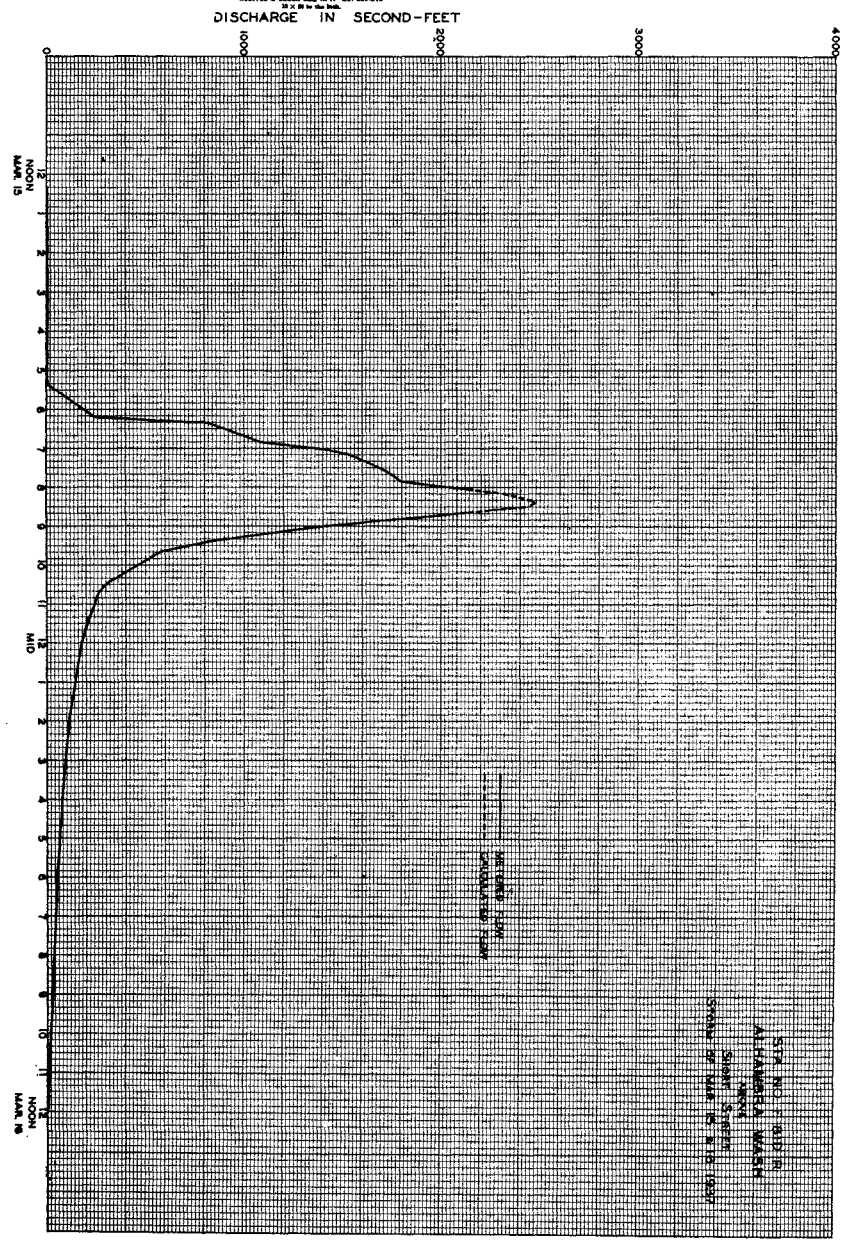
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 81 D-R

DISCHARGE MEASUREMENTS OF ALHAMBRA WASH

~~XXX~~ 250 ft. above Short Street DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
33	12/23	Lindsay-Ingram	39.0	16.41	4.25	.84	70.		.6	8	-.07	445A 455A	FC 28
34	12/26	" "	37.0	12.01	2.94	.64	35.		.6	7	-.03	1237P 1245P	"
35	1/15	" "	36.5	9.05	2.42	.62	22.		.6	6	+.01	700A 708A	"
36	1/15	Haig-Baustian	39.9	47.91	10.20	1.64	492.		.6	6	-.25	1000A 1014A	Pitot
37	2/1	Lindsay-Ingram	39.0	9.60	2.30	.75	22.		.6	7	0	758A 807A	FC 28
38	2/3	" "	39.9	29.15	6.23	1.42	181.		.6	10	-.02	1226P 1239P	"
39	2/3	Haig-Baustian	38.8	12.48	2.95	.88	37.		.6	13	-.05	913P 933P	FC 1
40	2/4	" "	38.2	6.35	1.49	1.03	9.4		.6	15	-.02	1042A 1054A	"
41	2/9	Lindsay-Ingram	39.8	11.11	2.45	1.12	28.		.6	9	0	941A 951A	FC 28
42	2/9	Haig	Two Channels			1.04	18.		.6	10	-.01	1027A 1039A	FC 1
43	2/9	Hoffman-Trumbo	8.0	2.14	2.79	.90	6.0		.6	4	-.02	456P 503P	FC 25
44	2/9	Hoffman-Trumbo	39.8	19.79	4.18	1.22	83.		.6	12	-.19	801P 819P	FC 1
45	2/11	Lind-Trumbo	39.9	30.19	5.15	1.37	156.		.6	10	-.18	1140A 1200N	FC 23
46	2/11	Haig-Baustian	15.7	3.46	2.25	.84	7.8		.6	9	-.01	556P 608P	FC 1
47	2/27	" "	39.9	21.69	4.74	1.13	103.		.6	19	-.10	339P 403P	FC 38
48	2/28	Lindsay-Ingram	39.9	84.00	8.52	2.73	715.		.6	8	-.06	710A 721A	FC 28
49	2/28	Haig-Baustian	39.9	29.03	4.76	1.53	138.		.6	12	-.02	1219P 1233P	FC 38
50	3/1	" "	39.5	23.45	5.70	1.14	134.		.6	12	-.03	229A 246A	"
51	3/5	Haig-Galbraith	12.0	.42	.95	.05	.40		F1	1	0	1113P	
52	3/8	" "	13.5	2.82	.99	.26	2.8		Sw	4	0	1016A 1028A	FC 1
53	8/19	Lindsay	26.0	6.79	2.22	.45	15.		.6	8	0	1038A 1050A	FC 28
54	8/22	"	29.0	7.41	2.28	.44	17.		.6	10	+.01	932A 942A	"
55	8/25	"	28.0	6.45	1.96	.44	13.		.6	10	+.01	1033A 1043A	"



F. C. Dist. Form 52 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F61D-R

Daily discharge, in second-feet of ALHAMBRA WASH 250 ft. above Short Street, for the year ending September 30, 19 37

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	2.5	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0.3	0	0	0	0	0	0	0	0	0
5	0	0	0	7.5	5.5	0	0	0	0	0	0	0
6	0	0	0	9	309	0	0	0	0	0	0	0
7	0	0	0	0	2.0	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	13	0	38	0	0	0	0	0	0
13	0	0	0	0.8	125	40	0	0	0	0	0	0
14	0	0	5.5	0	224	+	0	0	0	0	0	0
15	0	0	62	0	3.5	249	0	0	0	0	0	0
16	+	0	3.6	0	0	33	0	0	0	0	0	0
17	1.0	0	0	0	0	0	0	0	0	0	0	0
18	21	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	45	0	0	0	0	0	0
23	0	0.3	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	6.5	12	0	0	0	0	0	0
25	0	0	3.3	0	41	+	0	0	0	0	0	0
26	0	0	7.5	0	0	0	0	0	0	0	0	0
27	0	0	263	0	0	0	0	0	0	0	0	0
28	0	0	80	0.6	0	0	0	0	0	0	0	0
29	18	0	13	16		0	0.2	0	0	0	0	0
30	0.1	0	164	59		0	0	0	0	0	0	0
31	14		29	0.6		0		0		0	0	
	54.1	0.3	660.9	106.5	716.5	417	2.7	0	0	0	0	0
Mean	1.75	.01	21.3	3.44	25.6	13.5	.90	0	0	0	0	0
Acre-Feet	107	.60	1310	211	1420	827	5.4	0	0	0	0	0

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

Year or Period Mean 5.36 Acre-Feet 3880

F. C. Dist. Form 52 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

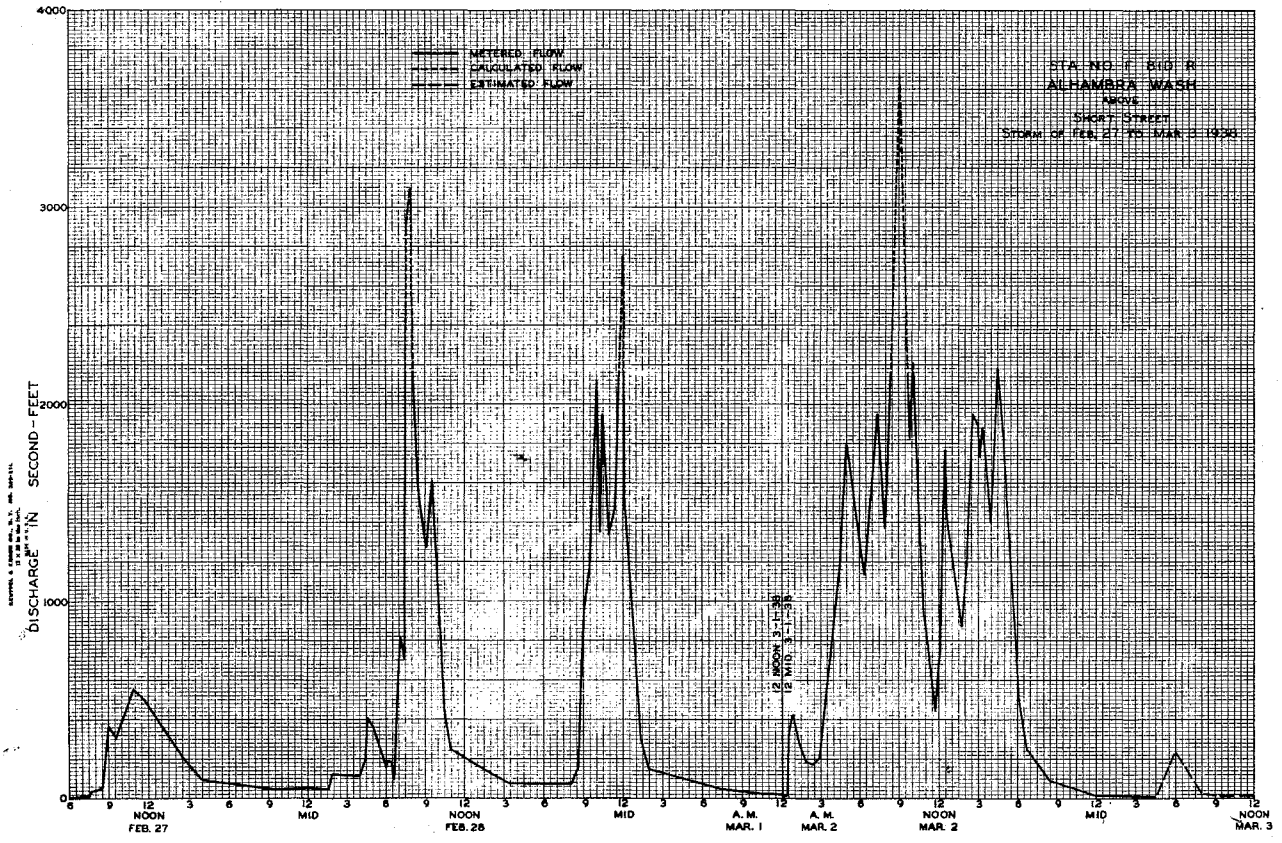
Sta. No. F61D-R

Daily discharge, in second-feet of ALHAMBRA WASH 250 ft. above Short St., for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	177	98	0	0	0	0	0	0
2	0	0	0	0	0.8	997	0	0	0	0	0	0
3	0	0	0	0	87	30	0	0	0	0	0	0
4	0	0	0	0	11	0.2	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	0.8	0	0	0	0	0	0
7	0	0	0	0	0	2.1	0	0	0	0	0	0
8	0	0	0	0	+	7	0	0	0	0	0	0
9	0	0	0	0	76	0	0	0	0	0	0	0
10	0	0	0	0	12	0	0	0	0	0	0	0
11	0	0	80	0	113	3.9	0	0	0	0	0	0
12	0	0	4.7	0	7	75	0	0	0	0	0	0
13	0	0	0	0	0	33	0	0	0	0	0	0
14	0	0	0	0	0	7	0	0	0	0	0	0
15	0	0	0	6.9	0	1.6	0	0	0	0	0	0
16	0	0	0	5	0	0.4	0	0	0	0	12	0
17	0	0	0	0	0	0.4	0	0	0	0	12	0
18	0	0	0	5.5	0.4	0	0	0	0	0	12	0
19	0	0	0	5	4.8	0	0	0	0	0	12	0
20	0	0	0	1.6	0	0	0	0	0	0	12	0
21	0	0	0	0	0	0	0	0	0	0	13	0
22	0	0	0	0	0	0	0	0	0	0	12	0
23	0	0	21	0	0	0	0	0	0	0	13	0
24	0	0	0	0	0	0	0	0	0	0	10	0
25	0	0	0	0	0	0	0	0	0	0	9	0
26	0	0	36	0	0	0	0	0	0	0	3.2	0
27	0	0	0.8	0	129	0	0	0	0	0	0	0
28	0	0	0	1.4	535	0	0	0	0	0	6.5	0
29	0	0	0	4.0		0	0	0	0	0	9	0
30	0	0	0	0		0	0	0	0	0	2.4	0
31	0		0	0		0		0		0	0.8	
	0	0	142.5	91.5	1153.0	1256.4	0	0	0	0	138.9	0
Mean	0	0	4.60	2.95	41.2	40.5	0	0	0	0	4.48	0
Acre-Feet	0	0	283	182	2290	2490	0	0	0	0	276	0

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

Year or Period Mean 7.62 Acre-Feet 5520



STATION F38B-R

BALLONA CREEK at Sawtelle Boulevard

LOCATION:

On the downstream end of center pile bent on Sawtelle Boulevard bridge over Ballona Creek, 1 mile upstream from original location (station F38R at Centinela Boulevard), near Culver City.

DRAINAGE AREA:

111 square miles.

CHANNEL AND CONTROL:

Rock paved levees, with 3' to 1' slope. Bottom of heavy adobe overlaid with coarse gravel, and sand.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows, prior to December 27, 1937, from bridge, subsequent to December 27, 1937 from cable car upstream from recorder.

RECORDER:

Installed at station F38R February 27, 1928.
Recorder removed April 27, 1936.
Installed at station F38B-R May 14, 1936 in an W. C. standard recorder house over an 18 inch diameter, corrugated iron pipe stilling well. An Au continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION AND OR DIVERSIONS:

Stone Canyon Reservoir, Upper and Lower Franklin Canyon Reservoirs; Hollywood Reservoir and Silver Lake Reservoir.

DIVERSIONS:

Some small diversions for irrigation and gravel plant.

RECORDS AVAILABLE:

At station F38R:
February 27, 1928 to April 27, 1936.
At station F38B-R:
May 14, 1936 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 8940 second-feet December 30.
Minimum no flow at various times.
1937-1938
Maximum 19000 second-feet March 2.
Minimum not determined.
1925-38 (stations F38R and F38B-R)
Maximum 19000 second-feet March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor.
Well usually sanded following storms.

OPERATION:

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

F. C. D. FORM 104 IM 8-56

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 38 B-R

DISCHARGE MEASUREMENTS OF BALLONA CREEK

AT ~~BRIDGE~~ Sawtelle Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERIOD BR.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/8	Prickett	6.0	1.52	.67	4.60	1.0		.6	3	0	1155A 1205P	FC 22
2	10/15	"	9.0	2.20	.85	4.67	1.9		.6	5	0	1135A 1145A	"
4	10/22	"	12.0	3.76	1.03	4.70	3.9		.6	6	0	1235P 1245P	"
5	10/29	"	63.0	26.4	1.79	5.02	47.		.6	7	0	1235P 1245P	"
6	10/31	Prickett-Haig	98.0	327.7	5.41	7.00	1770.		.6	11	-.55	515A 546A	"
7	11/5	Prickett	11.5	5.19	1.29	4.80	6.7		.6	6	0	330P 340P	"
8	11/12	"	21.5	9.94	1.24	4.92	12.		.6	7	0	350P 400P	"
9	11/19	"	10.5	4.01	1.26	4.82	5.1		.6	5	0	120P 130P	"
10	11/23	"	21.0	14.64	1.41	4.96	21.		.6	8	-.01	845A 855A	"
11	11/27	"	10.0	2.94	.69	4.76	2.0		.6	5	0	1220P 1230P	"
12	12/3	"	10.5	4.00	.68	4.75	2.7		.6	6	0	1115A 1125A	"
13	12/4	"	24.0	15.1	2.04	5.03	31.		.6	9	0	1000A 1010A	"
14	12/10	"	16.0	9.36	1.20	4.85	11.		.6	7	0	1250P 100P	"
16	12/15	Prickett-Haig	95.0	285.5	6.55	6.95	1870.		.6	12	+.06 -.07	540A 605A	"
17	12/15	Prickett-Haig	85.0	163.6	4.31	6.23	705.		.6	12	-.04	945A 1015A	"
18	12/17	Prickett-Hunt	21.0	12.3	.76	4.52	9.3		.6	6	0	345P 355P	"
19	12/23	Prickett	22.5	7.05	.78	4.51	5.5		.6	6	0	230P 240P	"
20	12/27	U.S.E.D.	93.0	165.1	4.48	6.23	740.		.6	10	-.35	1040A 1105A	
20A	12/27	"				5.90	509.		.6	9	-.30	1106A 1123A	
21	12/27	Prickett-Haig	86.0	103.9	3.36	5.37	349.		.6	13	-.05	1215P 1225P	FC 22
22	12/27	Prickett-Haig and U.S.E.D.	110.0	379.5	7.14	7.76	2710.		.6	12	-.75	1105P 1157P	
23	12/28	Prickett-Haig and U.S.E.D.	114.0	502.4	7.90	8.36	3970.		.6	12	+.3	100A 123A	
24	12/28	Prickett-Haig	86.0	95.6	2.58	5.15	246.		.6	12	-.10	308P 319P	FC 22
25	12/30	U.S.E.D.	100.0	311.0	5.11	7.35	1590.		.6	10	+1.10	425P 505P	35618
26	12/30	Haig and U.S.E.D.	110.0	470.7	7.44	8.25	3470.		.6	11	-.50	545P 602P	35618
27	12/30	U.S.E.D.	114.0	570.0	7.78	8.48	4370.		.6	12	-.20	825P 845P	35633
28	12/30	Prickett-Haig and U.S.E.D.	119.0	877.5	8.72	9.98	7650.		.6	12	-.90	1110P 1126P	"
29	1/5	Prickett-Haig	92.0	187.9	4.38	5.80	824.		.6	9	-.40	930P 948P	FC 22
29A	1/6	U.S.E.D.	95.0	272.		6.82	1630.		.6	10	-.50	650A 712A	35618
29B	1/6	"	95.0	225.8		6.40	1100.		.6	10	-.25	716A 733A	"
30	1/6	Prickett-Haig	96.0	148.5	3.18	5.53	472.		.6	10	-.21	900A 918A	FC 22
31	1/12	" "	93.0	204.2	4.79	6.07	978.		.6	11	-.17	955A 1010A	"
32	1/12	" "	87.5	61.65	2.01	4.72	124.		.6	7	-.04	121P 128P	"
33	1/12	" "	92.0	224.2	5.03	6.15	1130.		.6	11	-.20	458P 512P	"
34	1/13	" "	24.0	9.48	1.29	4.18	12.		.6	7	-.01	107P 112P	"
35	1/21	Prickett	6.5	2.60	1.01	4.00	2.6		.6	4	0	545P 550P	"
36	1/28	"	6.5	1.64	.87	4.00	1.4		.6	3	0	320P 325P	"
37	1/30	Haig-Carlson	21.5	10.8	1.53	4.30	17.		.6	10	+.01	102P 115P	"
39	1/30	" "	103.0	521.8	7.66	7.58	4000.		.6	10	+.30	525P 602P	FC 12
40	2/4	Prickett	7.0	2.03	1.13	4.04	2.3		.6	4	0	1105A 1115A	FC 22
41	2/5	Prickett-Haig and U.S.E.D.	99.0	334.0	5.86	6.87	1930.		.6	10	-.07	1148P 1212A	
42	2/6	U.S.E.D.	125.0	691.5		10.8	5960.		.6	13	-1.2	1015A 1045A	
42A	2/6	"	113.	436.8	7.02	8.05	3060.		.6	12	+1.30	1245P 110P	
42B	2/6	"	109.	436.2	6.66	8.5	2900.		.6	12	+.2	238P 255P	
43	2/11	Prickett	12.5	4.24	1.23	3.78	5.2		.6	6	0	245P 255P	FC 22
44	2/13	Prickett-Haig	58.0	48.87	3.34	4.42	163.		.6	12	+.71	117P 127P	"
45	2/13	" "	70.0	68.5	2.44	4.70	167.		.6	9	+.20	130P 143P	"
46	2/13	" "	102.0	398.5	7.29	7.45	2900.		.6	13	+.25	420P 443P	"
48	2/13	U.S.E.D.	117.0	658.0		9.33	4770.		.6	12	-.15 +.05	1035P 1106P	
49	2/14	"	120.0	749.0		10.02	6820.		.6	12	-.30 +.52	1230A 1258A	
50	2/14	"	128.0	776.8		10.97	7550.		.6	12	+.30 -.40	220A 250A	
51	2/14	"	82.0	173.9	4.11	5.80	715.		.6	8	-.20	856A 917A	
52	2/15	Prickett-Haig	50.0	41.25	1.72	3.90	71.		.6	10	0	1016A 1024A	FC 22
53	2/18	Prickett	22.5	15.14	1.21	3.40	18.		.6	6	0	1230P 1240P	"
54	2/25	Prickett-Haig	93.5	286.4	6.04	6.29	1730.		.6	11	-.15	325P 345P	"
55	3/4	Haig-Prickett	Two	Channels		3.54	12.		.6	10	0	235P 257P	"
56	3/11	Prickett	16.0	6.40	.92	3.33	5.9		.6	6	0	1100A 1110A	"
57	3/12	Prickett-Haig	87.0	194.9	4.37	5.6	853.		.6	11	-.10	838A 848A	"
58	3/13	Haig-Prickett	44.0	28.76	1.25	3.84	36.		.6	13	-.03	1210P 1238P	"
59	3/15	U.S.E.D.	126.0	845.6		10.3	6780.		.6	12	-.40	742P 804P	35618
60	3/15	"	121.0	711.0	8.52	9.8	5920.		.6	12	-.30	823P 841P	"
61	3/18	Prickett	31.0	18.18	1.23	3.55	22.		.6	7	0	1030A 1040A	FC 22
62	3/22	Prickett-Haig	95.0	262.9	6.55	6.4	1740.		.6	11	-.45	755A 822A	"
63	3/22	" "	69.0	85.7	2.63	4.60	225.		.6	13	-.28	311P 323P	"
64	3/24	U.S.E.D.	91.0	270.1		6.1	1360.		.6	9	-.35	500P 525P	35618
65	3/25	Prickett	23.0	13.82	1.55	3.43	21.		.6	6	0	950A 1000A	FC 22
66	4/1	"	18.0	7.56	1.26	3.30	9.6		.6	6	0	925A 935A	"
67	4/8	"	31.0	19.8	1.38	3.45	27.		.6	8	0	415P 425P	"
68	4/15	"	13.5	3.64	1.01	3.28	3.7		.6	5	0	1030A 1040A	"
69	5/20	"	12.0	3.82	1.18	3.29	4.5		.6	5	0	1145A 1155A	"
70	6/10	"	15.5	8.53	1.20	3.38	10.		.6	5	0	320P 330P	"
71	7/8	"	26.0	13.92	1.30	3.41	18.		.6	6	0	125P 135P	"
72	9/2	Prickett	9.5	3.44	1.18	3.22	4.1		.6	4	0	1120A 1130A	FC 22

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 38 B-R

DISCHARGE MEASUREMENTS OF BALLONA CREEK

AT ~~BRIDGE~~ Sawtelle Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERIOD BR.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
73	10/7	Prickett	4.5	1.47	.82	3.31	1.2		.6	4	0	505P 515P	FC 22
74	10/14	"	9.5	3.23	1.27	3.33	4.1		.6	5	0	1225P 1235P	"
75	10/21	"	12.0	4.42	1.35	3.32	6.0		.6	6	0	145P 155P	"
76	10/28	"	12.0	5.28	1.27	3.36	6.7		.6	6	0	1055A 1105A	"
77	11/4	"	24.5	9.34	1.10	3.45	10.		.6	7	0	410P 420P	"
78	11/18	Prickett-Bailey	20.	5.53	1.28	3.35	7.1		.6	6	0	1102A 1110A	"
79	12/2	Prickett	22.0	9.68	1.20	3.38	12.		.6	6	0	1055A 1105A	"
80	12/9	Prickett-Hall	59.0	57.6	2.22	4.24	127.		.6	7	0	713P 724P	"
81	12/9	" "	65.0	152.	3.67	5.30	557.		.6	7	-.14	1030P 1105P	"
82	12/10	" "	54.0	43.8	1.76	3.90	77.		.6	6	+.03	1118A 1131A	"
83	12/10	" "	62.0	76.5	3.49	4.44	267.		.6	7	+.16	1230P 1244P	"
84	12/10	" "	63.0	85.0	3.04	4.54	258.		.6	6	+.04	1250P 1258P	"
85	12/11	U.S.E.D.	96.	323.	5.49	6.99	1770.			10	-.27	1227P 1240P	
86	12/11	"	95.	282.	4.82	6.69	1360.			9	-.32	1246P 100P	
87	12/11	"	113.5	538.	8.21	8.60	4410.		.6	11	+3.55 -.17	314P 345P	35661
88	12/11	"	125.	739.	7.98	10.18	5900.		.6	12	+.15	345P 415P	"
89	12/11	"	115.	589.	7.50	9.16	4410.		.6	11	-.6	437P 507P	"
90	12/13	Prickett-Hall	27.0	12.8	1.47	3.28	19.		.6	6	0	158P 203P	FC 22
91	12/16	Prickett	21.0	9.45	1.13	3.15	11.		.6	6	0	145P 155P	"
92	12/23	Prickett-Hall	56.0	57.4	2.42	3.86	138.		.6	7	-.20	655A 715A	"
93	12/26	U.S.E.D.	82.	195.	4.18	5.42	815.			8	+.34	345P 354P	35661
94	12/26	"	84.	216.	4.67	5.72	1010			9	+.23	355P 405P	"
95	12/26	"	94.	291.	5.99	6.46	1740.			9	+.1	432P 442P	"
96	12/26	"	94.	299.	5.74	6.56	1710.			10		444P 457P	"
97	12/26	U.S.E.D.	91.	254.	5.61	6.46	1420.			9		504P 513P	35661
98	12/30	Prickett	22.0	9.8	1.19	3.30	12.		.6	7	0	200P 210P	FC 22
99	1/7	"	16.0	7.94	1.18	3.28	9.4		.6	5	0	1110A 1120A	"
100	1/13	"	14.0	8.12	1.43	3.29	12.		.6	5	0	1240P 1250P	"
101	1/19	Prickett-Hall and Peckston	68.0	178.	3.95	4.93	704.		.6	8	-.10	828P 847P	"
102	1/20	Prickett-Bailey	Two	Channels		3.14	15.		.6	8	0	1210P 1220P	"
103	1/28	Prickett	8.0	2.81	1.24	3.06	3.5		.6	5	0	1040A 1048A	FC 21
104	1/29	Prickett-Hall	95.0	235.	4.32	5.37	1020.		.6	9	-.07	255P 308P	FC 22
105	2/2	" "	83.0	153.	4.02	4.22	611.		.6	9	+.04	1120A 1135A	"
106	2/3	" "	71.0	103.	3.70	4.12	377.		.6	8	-.30	138P 150P	"
107	2/3	U.S.E.D.	78.	160.	5.08	5.06	812			8	+.19	352P 402P	35661
108	2/3	"	80.	173.	5.40	5.17	936.			8	+.18	420P 436P	"
109	2/3	"	86.	207.	5.49	5.82	1140.			9	-.35	508P 532P	"
110	2/3	"	96.	303.	6.28	6.56	1900.			9	+.22	632P 652P	"
111	2/4	Prickett-Hall	57.0	49.8	2.01	3.32	100.		.6	6	-.05	100P 108P	FC 22
112	2/8	U.S.E.D.	78.	190.	4.51	5.07	858.			10	+.02	1030P 1048P	35618
113	2/8	"	80.	200.	4.84	5.13	966.			10	+.02	1058P 1113P	"
114	2/9	"	114.	642.	8.11		5210.			11	+5.6	1059A 1150A	35661
115	2/9	"	115.	591.	8.34	8.82	4930.			12	-1.5	1148A 1236P	"
116	2/9	"	103.	421.	6.89	7.42	2900.			10	-1.25	1233P 114P	"
117	2/9	"	89.	241.	5.42	5.81	1310.			9	-.38	447P 523P	"
118	2/10	Prickett-Kilen	57.0	34.5	1.62	3.21	56.			9	-.08	700P 717P	FC 22

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 36 B-R

DISCHARGE MEASUREMENTS OF BALLONA CREEK

AT ~~Mouth~~ Sawtelle Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period Diff.	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
119	2/11	U.S.E.D.	108.	485.	6.42	7.71	3110			11	-.42	805A 819A	35661
120	2/11	U.S.E.D.	101.	419.	5.95	7.06	2490.			11	-.63	829A 842A	35661
121	2/11	"	97	322	5.71	6.96	1840.			11	+.7	843A 909A	"
122	2/11	"	109.	505.	6.60	7.86	3340.			11	-.12	925A 940A	"
123	2/11	"	86.	216.	5.63	5.81	1210.			9	-.48	1029A 1040A	"
124	2/11	"	112.	632.	9.06	10.03	5730.			12	+2.45	1223P 102P	"
125	2/11	"	114.	659.	7.30	8.87	4800.			12	-2.33	112P 152P	"
126	2/11	"	93.	341.	5.74	6.55	1950.			9	-.35	218P 232P	"
127	2/12	"	75.	157.	4.25	5.10	666.			7	-.20	640A 704A	"
128	2/16	Prickett	32.0	14.2	1.20	2.95	17.		.6	8	0	135P 145P	FC 22
129	2/18	Prickett-Kilen and U.S.E.D.	67.0	163.	3.33	4.08	544.		.6	9	-.13	925P 945P	"
130	2/27	U.S.E.D.	99.	361.	6.06	6.96	2180.			11	+.42	906A 921A	35618
131	2/27	"	105.	432.	7.22	7.52	3120			12	-.15 +.30	1006A 1022A	"
132	2/27	"	100.	402.	7.00	7.03	2810.			11	-.13	1217P 1232P	"
133	2/28	"	94.	335.	6.35	6.35	2120.			10	+.05 -.05	445A 500A	"
134	2/28	"	134.	1225.	9.68	12.31	11900.			14	+.35 +1.95	720A 756A	"
135	2/28	"	122.	763.	8.48	10.00	6470.			13	-.75 +.70	643A 911A	"
136	2/28	"	98.	392.	5.30	6.95	2080.			10	-.79	1004A 1041A	35661
137	2/28	"	116.	851.	6.44	11.06	5480.			12	+5.98 -.20	903P 956P	"
138	3/1 3/2	"	105.	513.	8.34	7.82	4280.			11	+1.25	1148P 1205A	35618
139	3/2	"	113.	630.	7.96	8.78	5010			11	+.35 -.65	1226A 1247A	"
140	3/2	"	106.	530.	7.00	8.08	3710.			11	+.12 -.28	1259A 115A	"
141	3/2	"	122.	931.	8.32	10.50	7730.			12	+1.80	336A 358A	"
142	3/2	"	142	1552.	8.97	13.68	13900.			14	+.8 -.5	431A 504A	"
143	3/2	"	141	1441.	9.60	13.48	13800.			15	-.75	511A 543A	"
144	3/2	U.S.E.D.	146.	1742.	9.13	14.39	15900.			15	+.55	633A 704A	35618
145	3/2	"	150.	1892.	9.37	14.75	17600.			15	+.1 -.45	837A 909A	"
146	3/2	"	124.	953.	8.45	11.25	8050.			13	-1.10	1112A 1133A	"
147	3/3	"	85.	249.	3.06	5.81	762.			8	-.26	620A 642A	35661
148	3/10	Prickett	54.0	40.4	1.20	2.60	56.		.6	7	0	325P 336P	FC 22
149	3/11	U.S.E.D.	77.	218.	6.10	4.96	1330.			8	-.33	1117P 1132P	35618
150	3/12	"	96.	374.	8.80	7.02	3290.			10	+.38 -.5	1259A 118A	"
151	3/13	"	87.	200.	6.20	5.71	1240			8	-.27	643A 703A	35661
152	3/17	Prickett	54.0	51.6	1.70	2.51	88.		.6	7	0	115P 125P	FC 22
153	3/24	"	40.0	16.7	1.34	2.50	22.		.6	7	0	1225P 1236P	"
154	3/31	"	26.0	9.9	1.21	2.45	12.		.6	6	0	627P 637P	"
155	4/7	"	18.0	7.8	1.19	2.35	9.3		.6	5	0	1040A 1050A	"
156	4/14	"	30.0	14.9	1.19	2.40	18.		.6	6	0	525P 536P	"
157	4/21	"	32.0	12.2	1.13	2.33	14.		.6	6	0	1110A 1120A	"
158	4/25	"	94.0	368.	6.77	6.95	2490.		.6	10	-.7 +.35	310P 322P	"
159	4/28	"	28.0	8.75	1.24	2.30	11.		.6	5	0	1030A 1038A	"
160	5/5	"	30.0	12.3	1.24	2.30	15.		.6	6	0	1135A 1145A	"
161	5/12	"	32.0	11.6	1.34	2.30	16.		.6	6	0	230P 240P	"
162	5/19	"	41.0	11.4	1.21	2.40	14.		.6	9	0	1200N 1213P	"
163	5/26	"	42.0	16.5	1.27	2.43	21.		.6	7	0	205P 215P	"
164	6/2	"	34.0	11.7	1.15	2.34	13.		.6	6	0	1120A 1134A	"
165	6/9	"	42.0	12.2	1.16	2.38	14.		.6	7	0	1254P 107P	"
166	6/16	"	34.0	8.8	1.16	2.33	10.		.6	6	0	1043A 1055A	"
167	6/23	"	30.0	9.1	1.14	2.30	10.		.6	6	0	130P 144P	"
168	6/30	Prickett	30.0	7.4	1.12	2.28	8.3		.6	7	0	430P 440P	FC 22
169	7/7	Bonadiman	19.0	5.30	.57	2.21	3.0		.6	4	0	1122A 1128A	FC 40
170	7/14	"	20.	6.24	.87	2.28	5.4		.6	5	0	955A 1005A	"
171	7/21	Prickett		Two Channels		2.27	4.1		.6	7	0	1140A 1152A	FC 22
172	7/28	"		Two Channels		2.27	3.7		.6	7	0	205P 215P	"
173	8/4	"		Two Channels		2.25	3.2		.6	5	0	1210P 1222P	"
174	8/11	"		Two Channels		2.23	3.0		.6	6	0	1208P 1220P	"
175	8/18	"		Two Channels		2.27	3.4		F1	6	0	1255P 105P	
176	8/25	Prickett-Haig		Two Channels		2.25	5.8		.6	11	-.01	202P 210P	FC 22
177	9/8	Haig	13.5	5.6	.63	2.27	3.5		.6	8	0	239P 250P	FC 38
178	9/15	Haig-Moon	11.5	4.5	.62	2.23	2.8		.6	7	0	928A 935A	FC 38
179	9/29	Moon	15.3	3.8	.60	2.28	2.2		.6	6	0	1045A 1100A	FC 22

F. C. Dist. Form 51 10C 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 36B-R

Daily discharge, in second-feet of BALLONA CREEK at Sawtelle Blvd. for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.6	6.5	15	11	2030	1100	95	22	15	12	4.6	4.6
2	4.6	8.5	27	10	1390	7390	10	19	15	7	4.6	5
3	4.6	8.5	17	10	134	394	12	18	15	7	4.6	4.3
4	5	8.5	17	10	375	100	12	18	15	5	4.3	4.3
5	5	8.5	16	10	264	69	12	18	15	5	4.6	4.3
6	5	8.5	16	10	17	69	12	18	15	5	4.3	4.3
7	4.6	8.5	16	9.5	17	59	11	18	15	4.3	4.6	4.6
8	4.3	7	17	9.5	17	55	11	19	14	8	4.3	3.9
9	4.6	8.5	15	10	92	84	12	17	13	6	4.6	3.9
10	4.6	8.5	147	11	698	59	12	18	13	4.3	4.6	4.3
11	5	8.5	1170	11	991	362	13	16	14	5	4.3	4.3
12	5	8.5	28	12	119	605	13	16	12	4.3	5.5	4.3
13	5	7	19	12	18	251	14	16	13	4.3	4.3	4.3
14	5	11	14	12	65	103	15	15	14	5	5.5	3.9
15	6	11	14	45	17	89	15	14	15	6.5	4.3	3.9
16	6.5	12	12	15	17	86	16	14	15	6.5	4.3	4.3
17	8.5	9	11	13	85	72	16	12	15	5.5	4.3	4.3
18	9	9	11	32	114	69	17	11	15	5.5	4.6	4.3
19	10	9	11	32	17	56	17	11	15	4.5	4.6	3.9
20	9.5	9	11	7	17	46	17	11	12	5.5	4.3	3.9
21	9	8.5	11	5	17	36	18	13	14	5.5	5.5	3.6
22	9	9.5	233	7	17	27	18	12	14	5.5	6.5	3.6
23	8.5	9.5	16	5	17	22	17	13	14	5.5	6.5	3.6
24	8.5	15	16	5	17	30	30	15	14	5.5	6	3.6
25	8.5	12	16	5.5	17	20	130	16	14	5.5	6	3.6
26	9.5	14	378	5.5	17	18	13	17	13	5.5	5.5	3.9
27	8.5	13	15	5.5	946	16	16	17	13	5.5	5.5	4.3
28	9.5	17	13	61	2840	15	16	15	13	5.5	5.5	4.3
29	8.5	17	12	128.5		12	16	13	10	5.5	5.5	4.6
30	8.5	12	12	22		9	83	17	9.5	4.3	5.5	4.6
31	8.5		12							3.9		
	212.8	310.5	2544	1066.0	11443	6795	481		395.5	163.9	150.4	122.2
Mean	6.87	10.5	82.1	34.4	325	363	22.6	15.5	13.2	5.28	4.85	4.07
Acre-Feet	422	616	5050	2110	18050	22300	1350	954	784	325	298	242

Remarks:

Year or Period Mean 72.5
Acre-Feet 52500

F. C. Dist. Form 51 10C 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

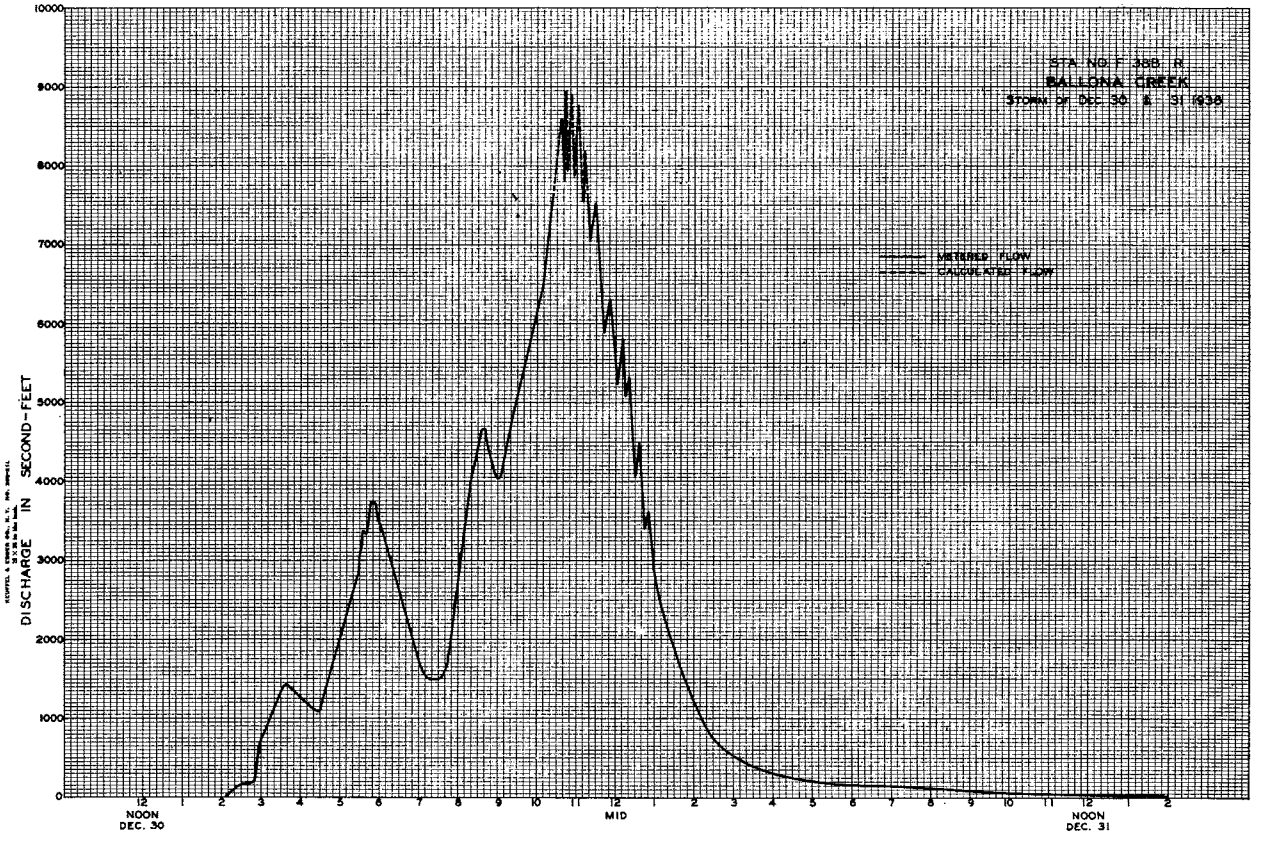
Sta. No. F 36B-R

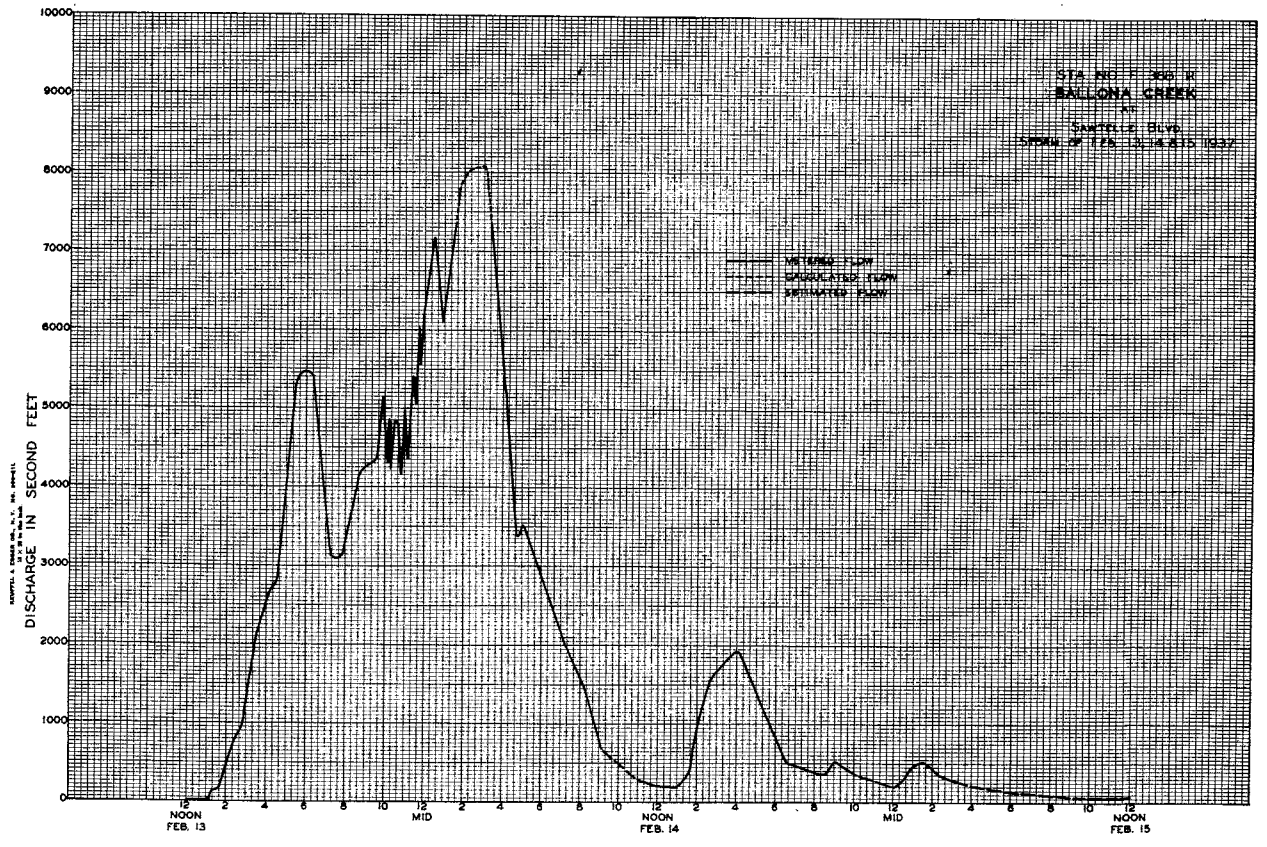
Daily discharge, in second-feet of BALLONA CREEK at Sawtelle Blvd. for the year ending September 30, 19 37

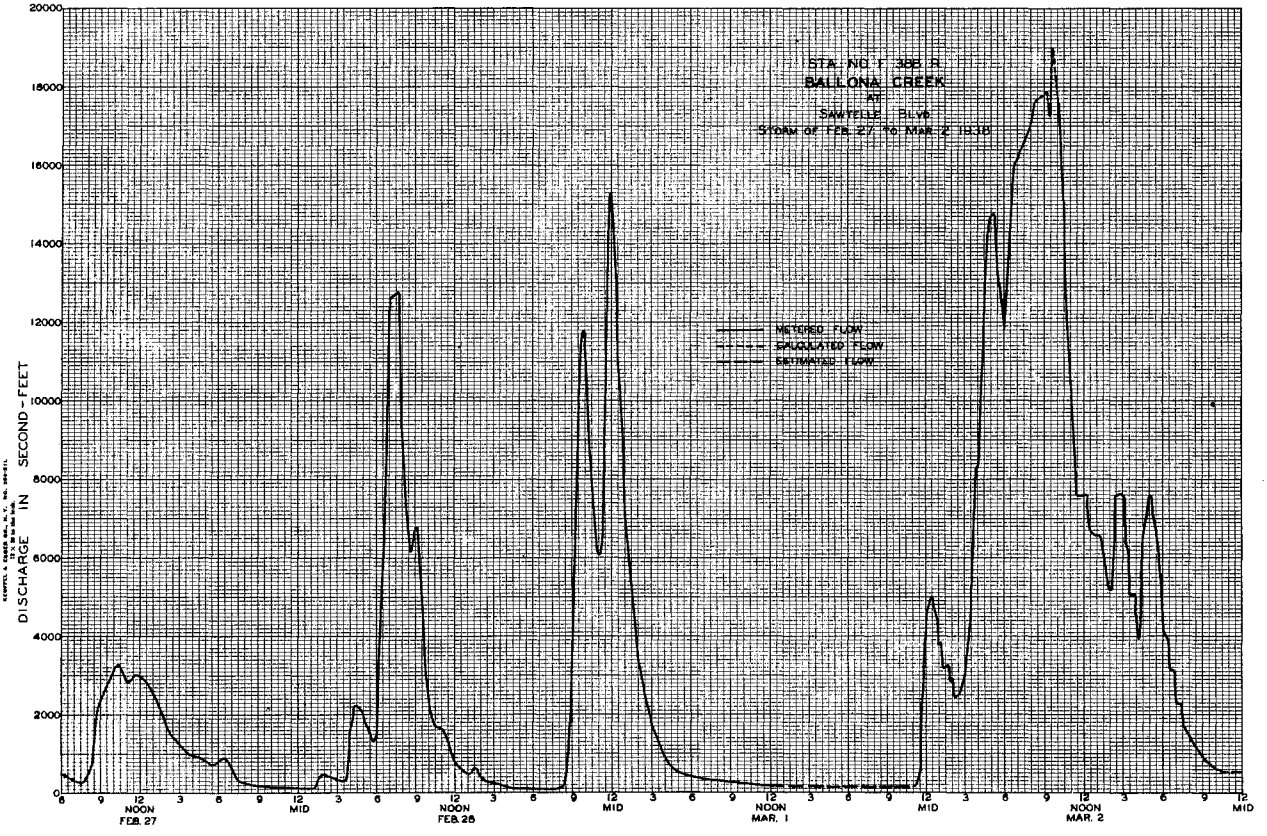
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.24	30	24	15	30	12	11	6	7	7.5	11	10
2	24	35	24	15	30	12	18	5	7.5	8	10	10
3	18	65	18	15	30	12	21	5	7.5	11	11	10
4	12	65	18	15	30	11	21	5	7.5	8	11	9
5	12	65	29	325	167	11	30	6	7.5	7	11	9
6	12	65	22	249	2040	10	27	7	7.5	11	12	11
7	15	7	53	21	155	95	26	6	7.5	12	9.5	9.5
8	14	8	41	18	55	95	17	6	7.5	12	9.5	9.5
9	10	8	18	18	55	85	13	6	7.5	10	10	9.5
10	09	10	29	18	55	8	13	6	7.5	10	11	9.5
11	12	11	22	18	5	75	9.5	5.5	6.5	12	12	9.5
12	12.5	11.5	53	335	6	375	7.5	5.5	6.5	10	12	9.5
13	17	7.5	54	88	1560	371	5.5	5.5	6.5	10	11	9
14	17	7.5	497	10	2160	291	4.6	5	6.5	11	11	9
15	5	7.5	85	5	1200	65	3.7	6	6.5	12	11	9
16	5	7.5	82	5	6	530	30	6	8	12	12	9
17	2.43	7.5	48	5	6	221	12	6	8	8	12	9
18	2.2	7.5	47	5	6	114	7	6	8	9	12	9
19	1.8	5.5	47	5.5	6	87	8	6	8	9	12	9
20	2.5	4.6	46	5.5	6	69	9	6	8	10	10	9
21	4.6	4.1	41	15	6	54	14	6.5	8	10	10	7.5
22	5	3.1	12.5	14	6	530	85	5.5	8.5	11	10	7.5
23	4.6	15	7.5	41	14	37	7.5	5.5	8.5	11	10	6.7
24	4.6	9	27	37	182	334	9	6.5	8.5	11.5	10	7
25	6	6	307	24	436	34	7	6.5	7.5	9.5	10	7
26	3.2	4.1	41	18	20	19	23	6.7	7	9	10	7.5
27	1.6	2.1	1070	24	12	16	32	7.5	6.5	12	10	7.5
28	1.6	2.8	547	50		12	13	7	7.5	13	10	7.5
29	1.7	3.5	46	349		13	12	7	6.5	12	10	6
30	1.7	4.7	41	360		11	11	7	6.5	12	10	6
31	2.3		41									
	233.3	216.1	5521	1868.1	6955.5	3128.0	441.8	252.5	221.0	320.0	333.5	254.0
Mean	7.20	7.20	180	60.3	248	101	14.7	8.15	7.37	10.3	10.8	8.47
Acre-Feet	1860	429	11070	3710	13800	6200	876	501	438	635	661	504

Remarks:

Year or Period Mean 56.2
Acre-Feet 40680


STA NO F 300 R
BALLONA CREEK
STORM OF DEC 30 & 31 1938
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
12 NOON DEC. 30
MID
NOON DEC. 31


STA NO F 300 R
BALLONA CREEK
AT
SANTELLE BLVD.
STORM OF FEB. 13, 14 & 15 1937
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND FEET
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
NOON FEB. 13
MID
NOON FEB. 14
MID
NOON FEB. 15



STATION F111B-R

BIG TUJUNGA CREEK above Edison Road

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, Station 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:

Installed on November 30, 1930 at Station F111R; removed August 17, 1932.
Installed on September 15, 1932 at Station F111B-R in a standard F. C. Type house over a 24 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

At Station F111R:
November 30, 1930 to August 17, 1932.
At Station F111B-R:
September 15, 1932 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-37
Maximum 1030 second-feet February 6.
Minimum no flow, estimated, October 1 to 5.
1937-38
Maximum not determined March 2.
Minimum .8 second-feet October 1, 2 and 3.
1930-38(Stations F111R and F111B-R)
Maximum not determined March 2, 1938.
Minimum no flow at various times.
1930-37 (Stations F111R and F111B-R)
Maximum 3910 second-feet February 8, 1932 (at Station F111B-R).
Minimum no flow at various times.

ACCURACY:

Fair.
Flow estimated:
September 28-30, 1937; June 27 to 30, 1938.
No record, flow interpolated between measurements October 1 to 21, 1937.
Well sanded, flow estimated February 14 to 21, May 6 to 12, 1938.
Due to change in channel conditions and lack of communication to well part of the time; flow was estimated by comparison to dam inflow record.
March 1 to 29, 1938.

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 IN 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 111 B-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

above Edison Road DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METER NO.	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
2	10/18	Turner	2.0	.30	1.25	5.54	.37		F1	4	0	1125A 1130A	
3	10/19	"	3.5	.84	1.86	6.20	1.6		.6	4	0	227P 232P	FC 5
4	10/21	"	3.3	.29	1.45	6.08	.42		.6	4	0	225P 230P	"
5	10/29	"	1.5	.17	.88	5.68	.15		.6	3	0	133P 136P	"
6	10/29	"	1.5	.17	1.24	5.68	.21		F1	3	0	137P 140P	
7	11/2	"	2.5	.53	1.28	5.81	.70		.6	4	0	1030A 1035A	FC 5
8	11/5	"	1.0	.23	1.43	5.77	.33		.6	2	0	225P 230P	"
9	11/12	French-Turner	2.5	.33	1.00	5.73	.33		.6	4	0	340P 345P	"
10	11/25	Turner	2.8	.58	1.02	5.74	.60		.6	4	0	1250P 1255P	"
11	12/2	"	3.0	.58	1.12	5.74	.65		.6	4	0	220P 225P	"
12	12/10	"	3.2	.74	1.08	5.74	.80		.6	5	0	1235P 1241P	"
13	12/15	"	11.0	5.84	2.31	6.10	13.		.6	11	0	630P 640P	"
14	12/15	"	11.0	6.04	2.02	6.11	12.		.6	7	0	1045P 1100P	"
15	12/16	"	15.0	9.33	2.45	6.30	23.		.6	14	-.02	500A 520A	"
16	12/16	"	14.8	8.16	2.46	6.20	20.		.6	14	-.04	710A 725A	"
17	12/16	Turner-French	14.5	6.86	2.25	6.16	15.		.6	14	-.01	850A 903A	"
18	12/17	" "	8.4	2.69	1.48	5.84	4.0		.6	8	0	912A 918A	"
19	12/23	" "	5.5	1.06	1.24	5.82	1.3		.6	6	0	1255P 100P	"
20	12/27	" "	27.0	43.95	4.72	8.45	207.		.6	7	+.17 -12	950A 1015A	"
21	12/27	" "	27.0	48.45	5.43	8.42	263.		.6	7	+.10	1015A 1027A	"
22	12/27	" "	29.0	41.50	5.51	8.42	229.		.6	7	-.12	1047A 1055A	"
23	12/27	" "	30.0	38.10	5.11	8.37	195.		.6	7	+.06	1117A 1126A	"
24	12/27	" "	30.0	34.75	5.50	8.34	191.		.6	8	-.08	1235P 1252P	"
25	12/27	Turner	30.0	33.10	5.25	8.26	174		.6	8	-.08	1253P 108P	FC 5
26	12/27	"	27.7	25.06	3.84	7.75	96		.6	13	-.06	245P 300P	"
27	12/27	Turner-French	26.7	18.62	3.57	7.43	66		.6	11	-.02	428P 436P	"
28	12/27	" "	25.7	17.78	3.62	7.24	64		.6	11	-.01	720P 730P	"
29	12/27	" "	26.2	18.55	4.00	7.46	74		.6	11	+.04	1009P 1018P	"
30	12/28	Turner	26.7	23.79	3.81	7.63	91		.6	10	-.04	410A 425A	"
31	12/28	"	25.7	11.51	3.31	7.22	38		.6	11	0	1136A 1145A	"
32	12/28	Turner-French	25.7	9.67	3.18	7.15	31		.6	11	0	339P 348P	"
33	12/29	" "	15.7	5.69	3.25	6.65	19		.6	8	0	659A 705A	"
34	12/30	French	10.0	4.71	2.35	6.30	11		.6	10	0	1158A 1211P	"
35	12/30	Turner-French	17.8	9.13	2.43	6.49	22		.6	10	+.04	810P 825P	"
36	12/30	" "	26.0	21.22	3.08	7.16	65		.6	10	+.04	808P 818P	"
37	12/30	" "	27.0	28.41	3.47	7.56	99		.6	10	+.04	956P 1005P	"
38	12/30 12/31	" "	31.0	48.90	4.77	8.42	235		.6	7	+.04	1159P 1210A	"
39	12/31	" "	31.0	48.20	4.64	8.44	224		.6	7	+.05	1211A 1220A	"
40	12/31	" "	31.0	50.70	5.46	8.60	277		.6	8	0	119A 132A	"
41	12/31	" "	31.0	46.80	5.23	8.57	244		.6	8	-.02	136A 145A	"
42	12/31	" "	31.0	46.80	5.39	8.53	252		.6	8	-.10	146A 200A	"
43	12/31	" "	31.0	45.30	5.12	8.47	232		.6	8	-.02	200A 213A	"
44	12/31	" "	29.0	33.20	4.48	7.84	149		.6	7	-.03	516A 526A	"
45	12/31	" "	29.0	32.20	4.34	7.80	140		.6	7	-.04	526A 534A	"
46	12/31	" "	27.0	28.43	3.33	7.50	95		.6	11	-.04	800A 812A	"
47	12/31	Turner	26.0	19.32	3.39	7.19	66		.6	9	0	100P 110P	"
48	1/6	"	15.3	8.61	1.93	6.25	17		.6	9	0	1130A 1140A	"
49	1/12	Turner	12.0	4.59	1.87	6.05	8.6		.6	8	+.02	1150A 1200N	FC 5
50	1/12	Turner-French	14.0	6.70	1.62	6.14	11		.6	7	0	455P 502P	"
51	1/13	Turner	9.2	4.44	1.93	6.06	8.6		.6	8	0	725A 735A	"
52	1/21	"	10.5	3.75	1.13	5.84	4.2		.6	7	0	1130A 1140A	"
53	1/28	"	8.3	3.79	1.62	5.94	6.1		.6	8	0	955A 1005A	"
54	1/30	Turner-French	24.0	17.60	2.64	6.76	47		.6	12	-.01	803P 815P	"
55	1/31	" "	17.0	9.57	2.19	6.40	21		.6	9	0	758A 808A	"
56	2/5	Turner-Wilson	15.0	6.91	1.94	6.20	13		.6	8	0	1258P 103P	FC 19
57	2/6	" "	50.0	165.2	7.49	10.61	1020		.6	10	-.08	600P 625P	FC 5
58	2/6	Turner	44.0	154.2	5.60	10.17	864		.6	9	-.04	826P 840P	"
59	2/6	"	44.0	148.9	5.76	10.13	857		.6	9	-.04	841P 855P	"
60	2/6	"	40.0	114.6	5.70	9.34	653		.6	9	-.02	1141P 1155P	"
61	2/6 2/7	"	40.0	113.9	5.75	9.32	656		.5	9	-.01	1156P 1208A	"
62	2/7	"	40.0	116.2	5.50	9.30	640		.6	9	-.10	405A 418A	"
63	2/7	"	40.0	119.2	5.69	9.32	678		.6	9	+.15	419A 433A	"
64	2/7	"	35.0	93.60	3.89	8.78	364		.6	8	-.01	1115A 1125A	"
65	2/7	"	34.0	71.90	3.73	8.23	268		.6	8	0	408P 418P	"
66	2/7	"	34.0	72.00	2.90	7.91	209		.6	8	-.02	828P 838P	"
67	2/8	"	25.0	45.15	2.96	7.34	134		.6	9	0	805A 816A	"
68	2/8	Turner-Wilson	44.0	53.40	2.57	7.32	139		.6	13	-.01	848A 903A	"
69	2/11	Turner	24.0	19.26	2.41	6.58	46		.6	12	0	1220P 1235P	"
70	2/13	"	29.0	44.55	2.88	7.36	128		.6	6	+.32	657P 706P	"
71	2/13	"	37.0	97.80	4.49	8.82	439		.6	8	+.45	900P 915P	"
72	2/13	"	46.0	150.9	5.03	9.70	759		.6	10	+.08	1124P 1145P	"
73	2/13 2/14	Turner	46.0	154.6	5.25	9.78	811		.6	9	+.05	1150P 1206A	FC 5
74	2/14	"	44.0	141.1	5.90	9.93	833		.6	9	+.06	142A 200A	"
75	2/14	"	56.0	153.7	5.65	9.69	871		.6	10	-.14	543A 600A	"
76	2/14	"	40.0	90.30	6.41	9.13	578		.6	9	-.06	130P 145P	"
77	2/16	"	48.0	51.70	2.69	7.45	139		.6	10	0	1237P 1253P	"
78	2/18	"	30.0	37.88	2.64	6.98	100		.6	14	0	1036A 1045A	"
79	2/24	"	24.0	22.66	2.19	6.52	50		.6	12	0	1135A 1143A	"
80	2/25	"	25.0	29.45	2.32	6.70	68		.6	13	0	245P 300P	"
81	3/4	"	23.5	22.99	1.65	6.18	38		.6	12	0	125P 137P	FC 19
82	3/11	"	23.0	19.47	1.59	6.24	31		.6	11	0	120P 132P	"
83	3/12	Turner-Wilson	50.0	59.50	3.41	7.68	203		.6	10	+.04	317P 324P	FC 5
84	3/12	Turner	35.0	66.30	3.16	7.76	210		.6	8	-.04	528P 538P	"
85	3/12	Turner-Wilson	37.0	76.30	3.74	8.31	285		.6	8	+.06	1026P 1036P	"
86	3/13	Turner	41.0	113.4	4.70	9.16	533		.6	9	+.08	545A 600A	"
87	3/13	Turner-Wilson	39.0	116.4	4.17	8.99	486		.6	9	-.06	949A 1001A	"
88	3/18	Turner	47.0	56.47	2.71	7.43	153		.6	11	0	1120A 1135A	"
89	3/24	"	25.0	49.25	2.45	7.15	121		.6	6	0	950P 1000P	"
90	3/25	"	44.0	48.87	2.03	7.05	99		.6	11	0	1010A 1022A	"
91	4/1	Turner-Kelley	24.0	39.88	2.08	6.88	83		.6	12	0	1028A 1038A	"
92	4/1	" "	27.0	36.48	2.49	6.88	91		.6	12	0	1040A 1050A	"
93	4/1	Turner	41.0	41.47	2.14	6.98	89		.6	14	0	1110A 1125A	"
94	4/7	"	27.0	33.07	1.84	6.80	61		.6	10	0	130P 140P	"
95	4/15	Turner-Kelley	23.0	26.85	1.53	6.39	41		.6	12	0	950A 1000A	"
96	4/15	" "	26.5	22.16	1.99	6.39	43		.6	14	0	1020A 1030A	"
97	4/22	Turner-Purdy	26.0	18.05	1.77	6.22	32		.6	10	0	110P 120P	FC 19
98	4/28	Turner	20.0	16.32	1.71	6.17	28		.6	11	0	1245P 1255P	FC 5
99	5/6	"	21.0	14.04	1.57	6.06	22		.6	11	0	1040A 1050A	"
100	5/13	"	20.8	13.53	1.17	5.96	18		.6	11	0	1045A 1055A	"
101	6/9	"	19.0	9.66	1.14	5.80	11		.6	10	0	1015A 1028A	"
102	7/7	"	12.5	2.98	.82	5.48	2.4		.6	7	0	150P 200P	"
103	8/11	"	3.5	1.28	1.03	5.38	1.3		.6	5	0	1055A 1100A	"
104	9/23	"	3.5	1.35	1.18	5.42	1.6		.6	5	0	1015A 1020A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 111 B-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

above Edison Road DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METER NO.	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
105	10/21	Turner	3.5	1.18	.95	5.40	1.1			.6	5	0	335P 340P	FC 5
106	11/4	Turner-Waddicor	3.5	1.40	1.21	5.44	1.7			.6	5	0	1205P 1210P	"
107	11/9	" "	3.6	1.45	1.26	5.46	1.8			.6	5	0	132P 140P	"
108	12/2	Waddicor	3.6	1.54	1.25	5.52	1.9			.6	4		1250P 100P	FC 19
109	12/11	"	19.0	12.03	1.20	6.00	15			.6	10	0	945P 955P	"
110	12/12	Waddicor-Bissell	16.0	9.84	.99	5.74	9.7			.6	8	0	915A 930A	"
111	12/15	Waddicor	6.0	4.23	1.04	5.50	4.4			.6	6		100P 110P	"
112	12/29	"	16.3	7.37	1.04	5.59	7.6			.6	9	0	1005A 1017A	"
113	1/12	"	13.4	6.02	.83	5.53	5.0			.6	8	0	1240P 1250P	"
114	1/19	"	13.5	7.44	1.02	5.66	7.6			.6	8	0	1130A 1140A	"
115	1/26	"	13.7	7.11	.88	5.59	6.4			.6	8	0	1148A 1158A	"

F.C.D. FORM 104 IM 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 111 3-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

XXX MEAN above Edison Road DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	RATING NO.	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
116	1/30	Waddicor and Bailey	17.5	6.57	.74	5.62	4.9		.6	9	0	827A 838A	F.C.19
117	2/1	"	24.0	47.50	2.77	7.14	132		.6	5	+.10	850A 900A	"
118	2/1	"	19.0	38.15	2.01	6.79	77		.6	4	-.02	1135A 1145A	"
119	2/2	"	39.5	18.11	1.02	6.00	18		.6	12	0	850A 915A	"
120	2/3	"	39.5	19.87	1.19	6.08	24		.6	11	+.03	1050A 1105A	"
121	2/3	"	31.0	68.60	2.90	7.67	199		.6	7	+.16 -.05	750P 808P	"
122	2/4	"	22.0	43.90	2.37	7.14	104		.6	5	0	930A 940A	"
123	2/4	"	21.0	40.65	2.90	7.22	118		.6	5	0	1217P 1227P	"
124	2/9	"	40.0	31.36	1.97	6.57	59		.6	11	0	119P 133P	"
125	2/9	"	40.5	31.98	1.94	6.65	62		.6	11	0	500P 515P	"
126	2/10	"	42.0	36.12	1.91	6.71	69		.6	12		925A 940A	"
127	2/11	"	21.0	42.50	2.49	6.90	106		.6	5	+.09	1015A 1025A	"
128	2/11	Waddicor and Bailey	34.0	92.00	4.04	8.54	372		.6	7	+.42	1252P 110P	FC 19
129	2/11	"	42.0	242.2	7.15	11.19	1730		.6	10	+.11	232P 250P	"
130	2/11	"	45.0	238.5	7.55	11.42	1800		.6	10	-.15	405P 417P	"
131	2/11	"	35.0	136.3	5.48	9.46	748		.6	8	-.16	710P 722P	"
132	2/11	"	35.0	100.1	4.12	8.73	416		.6	8	-.03	1000P 1011P	"
133	2/12	"	35.0	38.57	5.12	6.03	214		.6	8		835A 842A	"
134	2/12	"	44.0	35.46	3.68	7.41	132		.6	12	-.02	830P 845P	"
135	2/13	"	42.5	30.90	2.90	6.89	92		.6	11	0	720A 740A	"
136	2/24	Lind	18.5	15.56	1.43	6.11	22		.6	9	0	1030A 1047A	"
137	2/27	"	18.5	16.65	1.38	6.23	23		.6	8	+.03	1020A 1036A	"
138	2/27	"	21.0	20.40	1.73	6.29	35		.6	10	+.02	1107A 1120A	"
139	2/27	Lind-Bailey	22.5	23.58	2.40	6.57	57		.6	11	+.05	200P 210P	"
140	2/27	" "	32.0	62.90	3.05	7.67	192		.6	7	-.02	950P 1025P	"
141	2/28	" "	32.0	51.40	3.18	7.40	163		.6	7	0	110A 130A	"
142	2/28	" "	37.0	96.35	3.85	8.45	373		.6	8	+.10	850A 907A	"
143	2/28	" "	37.0	117.2	4.20	8.99	493		.6	7	+.02	1113A 1145A	"
144	2/28	" "	39.0	130.0	4.34	9.20	567		.6	7	0	136P 150P	"
145	2/28	" "	36.0	94.70	3.55	8.50	336		.6	7	0	813P 827P	"
146	3/1	" "	60.0	232.5	8.24	12.65	2420		.6	6	+.40 -.20	1235A 155A	"
147	3/1	" "	40.0	142.5	4.60	9.25	655		.6	7	-.10	845A 900A	"
148	3/1	" "	38.0	132.8	3.85	9.00	512		.6	8	0	1017A 1030A	"
149	3/1	" "	37.0	116.2	4.16	8.77	483		.6	8	-.05	1130A 1140A	"
150	3/10	Bailey-Lind	Two Channels			9.30	133		.6	6	0	215P 230P	"
151	3/29	Lind-Bailey	40.0	22.50	4.62	7.92	104		.6	12	0	1235P 1250P	"
152	3/29	Lind-Bailey	38.0	20.80	4.76	7.90	99		.6	10	0	512P 523P	FC 19
153	3/30	" "	37.5	21.17	4.33	7.85	92		.6	10	0	813A 823A	"
154	3/30	Bailey-Lind	38.0	20.10	4.16	7.80	84		.6	9	0	155P 207P	"
155	4/6	Lind	26.5	15.57	4.29	7.58	67		.6	8	0	152P 215P	"
156	4/14	"	24.5	14.37	4.32	7.42	62		.6	8	0	1205P 1216P	"
157	4/14	"	25.0	13.71	4.14	7.38	57		.6	9	0	525P 536P	"
158	4/15	"	24.8	13.99	4.28	7.35	60		.6	9	0	651A 704A	"
159	4/21	"	24.0	12.03	3.87	7.22	47		.6	8	0	813A 830A	"
160	4/21	"	24.0	11.40	3.78	7.21	43		.6	9	0	140P 155P	"
161	4/27	"	22.5	11.55	3.39	7.06	39		.6	8	0	505P 516P	"
162	5/12	"	20.0	9.63	3.01	6.88	29		.6	9	0	130P 145P	"
163	5/19	"	20.0	10.05	2.79	6.92	28		.6	8	0	130P 142P	"
164	5/26	"	18.0	8.80	2.74	6.64	24		.6	9	0	1235P 1250P	"
165	6/23	"	10.5	6.60	2.22	6.29	15		.6	10	-.01	110P 120P	"
166	6/30	"	9.0	5.85	2.17	6.26	13		.6	9	0	110P 125P	"
167	7/28	"	8.5	4.23	1.59	6.12	6.8		.6	8	-.01	152P 200P	"
168	8/25	"	8.5	4.33	1.34	6.11	5.8		.6	9	0	845A 855A	"
169	9/1	"	8.5	3.91	1.37	6.11	5.4		.6	8	0	915A 925A	"
170	9/8	"	9.0	3.81	1.33	6.10	5.0		.6	9	0	840A 850A	"
171	9/15	"	9.0	3.70	1.28	6.08	4.7		.6	9	0	853A 905A	"
172	9/22	"	8.7	3.55	1.20	6.07	4.3		.6	10	0	1050A 1100A	"
173	9/29	"	8.3	3.68	1.26	6.09	4.7		.6	9	0	916A 926A	"

F. C. Dist. Form 32 168 838

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, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	1.6	1.6	5.5	4.6	370	83	39	22	11	5.5	3.7
2	0.8	1.6	1.8	5.5	2.7	2200	80	37	22	11	5.5	3.7
3	0.8	1.6	1.8	5.5	110	1690	77	36	20	11	5.5	4.0
4	0.9	1.6	1.9	5.5	44	450	72	36	20	11	5.5	4.0
5	0.9	1.5	1.9	5.5	28	330	68	35	20	10	5.5	4.0
6	0.9	1.6	1.9	5	22	255	66	35	20	10	5.5	4.0
7	0.9	1.8	1.9	5	20	205	65	34	19	9.5	5.5	3.7
8	1.0	1.6	1.9	5	44	175	65	32	20	8.5	5.5	3.7
9	1.0	1.6	1.8	5	74	130	65	32	20	8.5	5.5	3.7
10	1.0	1.6	1.8	5	517	130	53	30	20	8	4.9	3.7
11	1.0	1.6	1.8	5	208	580	55	29	20	8	4.6	4.0
12	1.1	1.5	1.8	5.5	89	390	56	28	20	7.5	4.3	3.7
13	1.1	1.4	1.8	5.5	67	285	60	28	20	7.5	4.3	3.7
14	1.1	1.5	1.7	5.5	59	240	56	28	19	7	4.3	3.7
15	1.1	1.5	1.6	5.5	50	210	52	28	19	7	5	3.5
16	1.1	1.4	1.5	14	37	180	51	28	19	7	5.5	3.5
17	1.1	1.4	1.5	7.5	32	165	47	28	19	7	5.5	4.3
18	1.1	1.5	1.5	8	30	150	46	28	19	6.5	4.9	4.3
19	1.2	1.5	1.5	9	26	140	44	27	19	6.5	4.9	4.0
20	1.2	1.5	1.5	7	24	130	44	27	19	6	4.6	3.5
21	1.2	1.4	1.5	7	22	125	42	26	16	6	4.6	3.5
22	1.2	1.4	1.5	6.5	20	120	43	26	15	6	4.6	3.7
23	1.4	1.4	1.6	5.5	20	115	44	25	14	6.5	4.0	3.7
24	1.4	1.6	1.8	5.5	19	110	42	25	15	6.5	3.7	3.2
25	1.4	1.8	1.8	5.5	37	105	41	24	12	6	3.7	3.7
26	1.4	1.8	1.8	5.5	420	102	40	24	12	6	3.7	3.7
27	1.4	1.8	1.8	5.5		98	40	24	12	6	3.7	3.7
28	1.5	1.8	1.7	5.5		96	42	23	11	6	3.7	3.5
29	1.5	1.6	1.6	5.5		94	41	23		6	3.5	
30	1.5			5.6								
31	1.6			5.8								
	35.2	47.0	147.5	207.8	2243	16666	1698	906	534	2405	1451	1143

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
MEAN	1.14	1.57	4.75	6.70	80.1	538	56.6	29.2	17.8	7.76	4.68	3.81
ACRE-FEET	70	93	292	412	4450	33060	3370	1800	1060	477	288	227

YEAR OR PERIOD MEAN 63.0 ACRE-FEET 45600

Remarks:

F. C. Dist. Form 32 168 838

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F111B-R

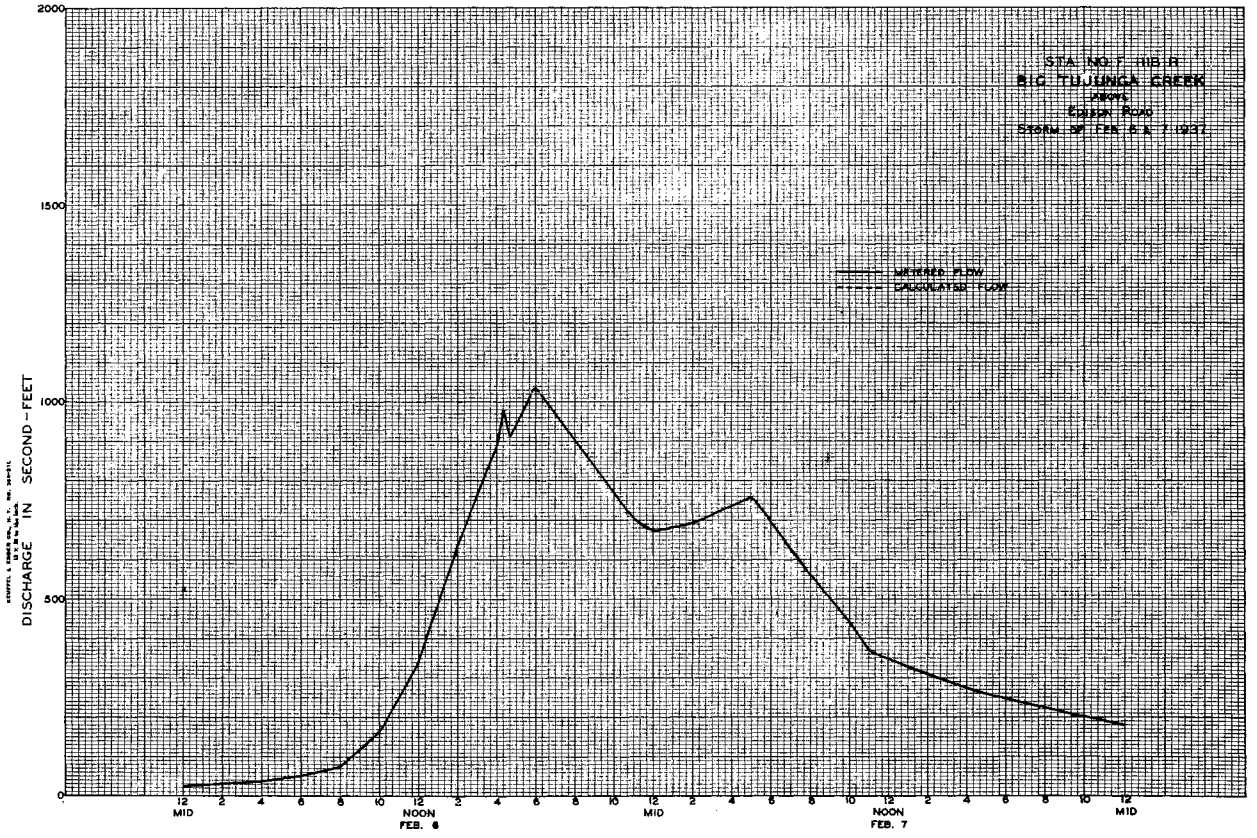
Daily discharge, in second-feet of BIG TUJUNGA CREEK above Edison Road, for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.4	0.6	20	12	54	92	24	12	3.5	1.6	0.8
2	+	0.4	0.6	11	12	54	92	24	11	3.5	1.6	0.8
3	+	0.4	0.5	8.5	12	54	84	21	11	3.0	1.4	0.8
4	+	0.4	0.5	8.5	14	54	77	21	10	2.8	1.3	0.8
5	+	0.2	0.6	10	34	50	70	21	11	2.8	1.3	0.8
6	+	0.2	0.5	16	43	47	60	22	11	2.8	1.2	0.8
7	+	0.2	0.7	12	43	40	65	20	10	2.4	1.2	0.8
8	+	0.2	0.7	10	128	40	59	20	10	2.4	1.1	0.8
9	+	0.2	0.7	10	179	36	56	20	10	2.2	1.1	0.7
10	+	0.2	0.7	9	38	33	52	19	9.5	2.2	1.0	0.7
11	+	0.2	0.7	9	45	32	50	18	9	2.1	1.0	0.7
12	+	0.3	0.8	8.5	45	129	47	18	9	1.9	1.0	0.7
13	+	0.4	0.9	7	144	395	45	17	8.5	1.9	0.9	0.8
14	+	0.4	0.9	7	707	225	42	16	8.5	1.9	0.9	0.8
15	+	0.4	1.1	7	325	208	40	15	8	2.1	0.9	0.8
16	0.2	0.4	1.4	7	155	333	39	15	7.5	2.1	0.9	0.7
17	4.0	0.4	4.0	7	116	195	38	15	7.5	2.1	0.9	0.7
18	4.6	0.3	2.4	7	96	151	36	14	7	2.1	0.9	0.7
19	1.0	0.4	2.8	7	81	112	34	14	7	2.1	0.8	0.8
20	1.0	0.4	2.8	6.5	66	84	32	14	6	1.9	0.8	0.8
21	0.4	0.4	2.2	5.5	55	110	30	14	5.5	1.8	0.8	1.1
22	0.3	0.4	1.3	5.5	52	102	30	14	5.5	1.8	0.9	1.1
23	0.3	0.5	1.3	5.5	52	119	28	14	5	1.8	0.9	1.0
24	0.3	0.6	1.3	4.8	59	100	27	15	5	1.7	0.9	0.9
25	0.3	0.5	1.4	4.8	56	106	26	16	4.4	1.6	0.8	0.8
26	0.3	0.5	1.2	4.8	56	106	26	14	4.4	1.4	0.7	0.8
27	0.2	0.6	1.1	6	56	107	25	14	4.2	1.4	0.7	0.7
28	0.2	0.6	1.4	10		99	25	14	4.2	1.4	0.7	0.7
29	0.5	0.6	1.4	21		92	23	14	3.8	1.7	0.8	0.6
30	1.7		1.0	19		87	13	13		1.7		
31	12.1		10.8	369.1	2819	3434	1379	521	232.4	65.4	30.5	23.8

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
MEAN	.39	.36	1.9	9.09	123	111	46.0	16.8	7.75	2.11	.98	.79
ACRE-FEET	24	21	732	559	6810	6830	2730	1030	461	130	60	47

YEAR OR PERIOD MEAN 26.9 ACRE-FEET 19440

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


STA NO F 118 R
S.C. TUJUNGA CREEK
ABOVE
EDISON ROAD
STORM OF FEB 6 & 7 1937
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
2000
1500
1000
500
0
12 MID
2
4
6
8
10
12 NOON
FEB. 6
2
4
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8
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12 MID
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8
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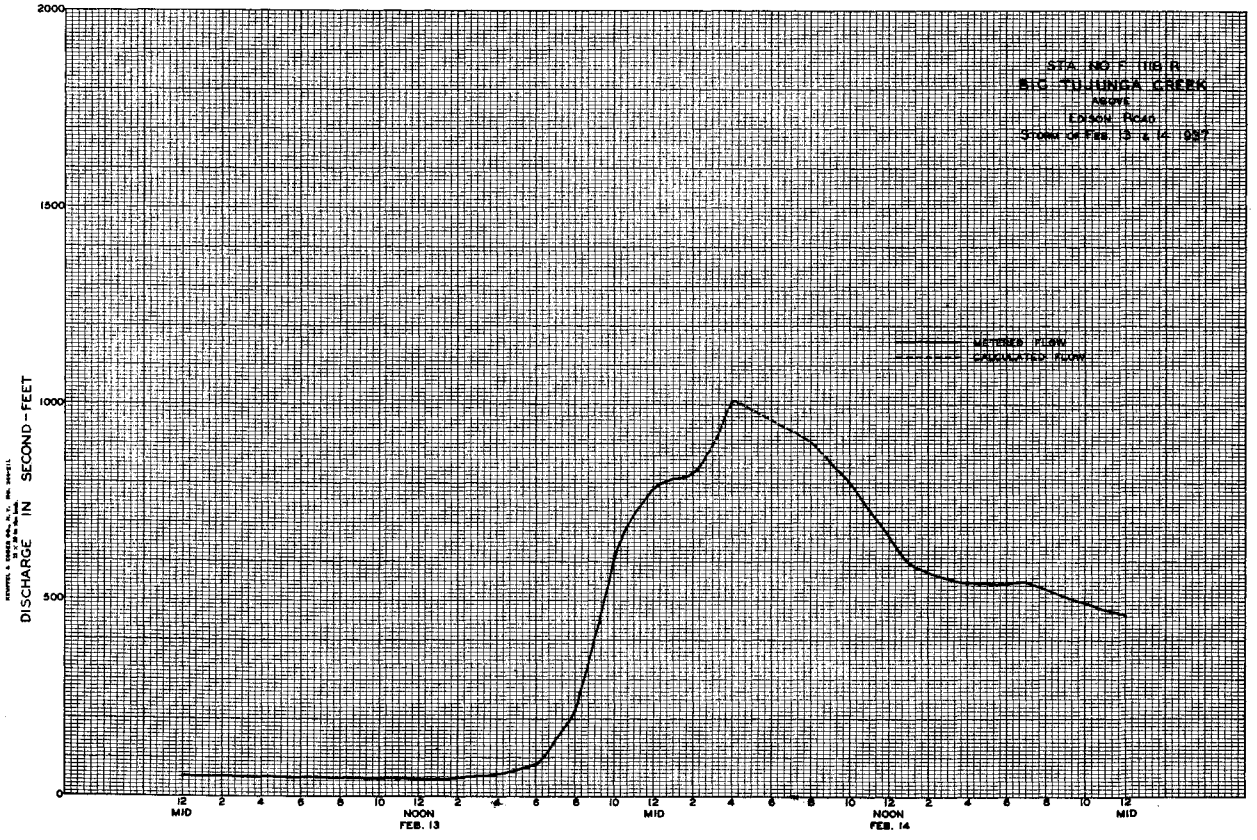
12 NOON
FEB. 7
2
4
6
8
10
12 MID


STA NO F 118 R
S.C. TUJUNGA CREEK
ABOVE
EDISON ROAD
STORM OF FEB. 13 & 14 1937
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
2000
1500
1000
500
0
12 MID
2
4
6
8
10
12 NOON
FEB. 13
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FEB. 14
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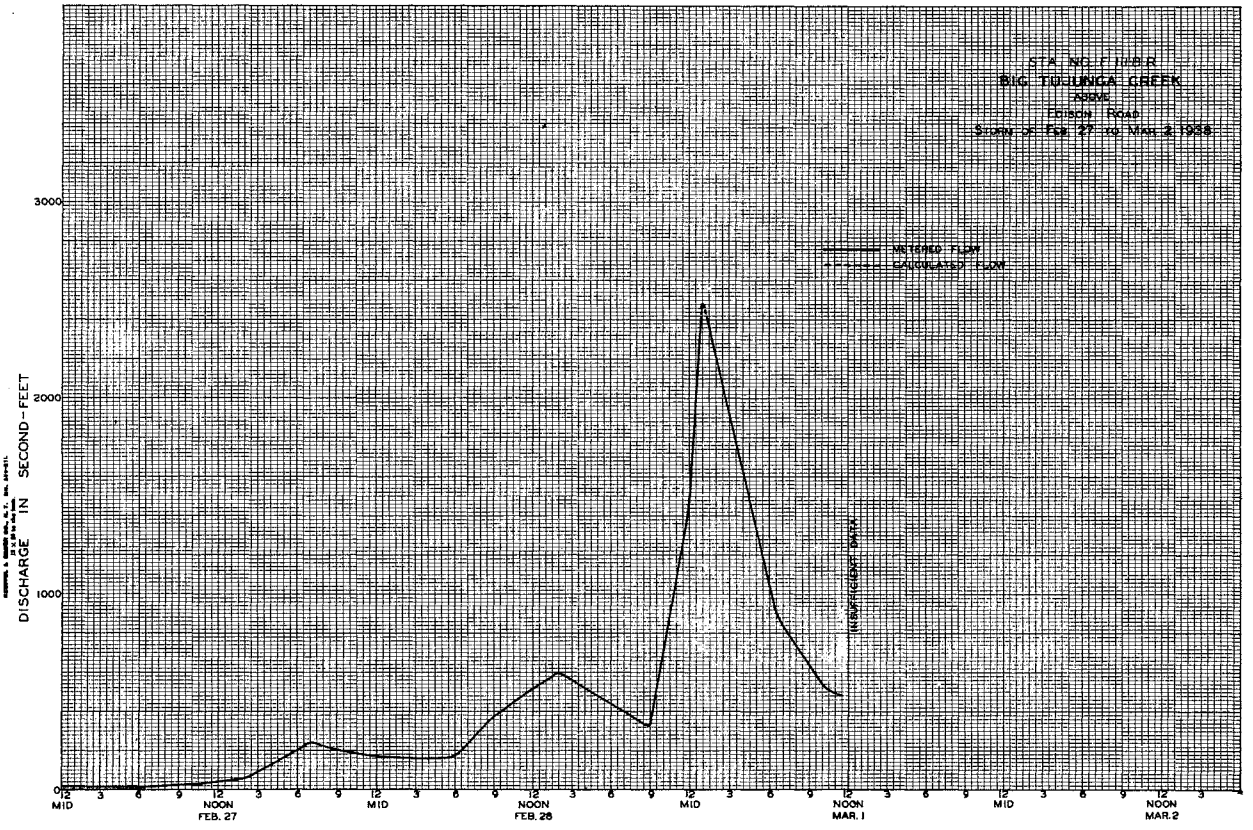
8
10
12 MID



STATION F11OR

BIG TUJUNGA - FOX CREEK 1/4 mile above mouth

LOCATION:

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

DRAINAGE AREA:

9.4 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 an F. C. standard type house over a 24 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1936 until the well, house and recorder were washed out in the March 2, 1938 storm.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

Weekly measurements, October 1, 1930 to November 5, 1930.
Recorder record November 5, 1930 to February 17, 1938.
Station abandoned.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 270 second-feet December 27.
Minimum + at various times.
1937-1938
Maximum not determined March 2.
Minimum not determined.
1930-1938
Maximum not determined March 2, 1938.
Minimum + flow at various times.
1930-1937
Maximum 410 second-feet February 2, 1936.
Minimum + at various times.

ACCURACY:

Good.
Clock Stopped:
Flow estimated February 11, 12, 13, 14, 1937.

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 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 110 R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA - FOX CREEK

at 1/4 mile above mouth DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/18	Turner	1.2	.12	.67	.68	.08		Fl	2	0	940A 945A	
2	10/19	"	2.0	.24	.46	.70	.11		.6	4	0	1225P 1230P	FC 5
3	10/21	Turner-Ealy	2.0	.24	.42	.68	.10		Fl	4	0	1050A 1053A	
4	10/29	Turner	2.0	.22	.32	.66	.07		"	4	0	1055A 1100A	
5	11/25	"	1.5	.23	.48	.71	.11		"	3	0	1015A 1020A	
6	12/2	"	1.5	.28	.50	.71	.14		"	3	0	1100A 1105A	
7	12/17	"	2.3	.64	.55	.74	.35		.6	5	0	1025A 1030A	FC 5
8	12/23	"	2.2	.50	.48	.70	.24		.6	5	0	955A 1000A	"
9	12/28	"	5.0	2.04	3.30	1.18	6.7		.6	5	0	715A 720A	"
10	12/30	French	4.1	1.32	1.17	.92	1.6		.6	4	0	1037A 1042A	"
11	12/31	"	10.0	3.20	3.19	1.36	10		.6	11	0	1106A 1120A	"
12	1/6	"	4.0	1.52	2.17	1.04	3.3		.6	5	0	259P 304P	"
13	1/28	Turner	3.5	.90	1.52	.88	1.4		.6	4	0	1150A 1155A	"
14	1/30	"	8.0	3.73	2.68	1.21	10		.6	8	+.02	323P 330P	"
15	1/30	Turner-French	16.0	6.80	2.75	1.38	19		.6	9	+.01	505P 514P	"
16	1/31	Turner	Two	Channels		1.10	4.5		.6	6	0	1015A 1020A	"
17	2/6	"	19.0	12.60	4.09	1.80	52		Sur	5	0	1100A 1110A	"
18	2/6	"	18.0	13.20	4.12	1.80	54		.6	9	0	1130A 1140A	"
19	2/6	"	18.5	14.89	4.39	1.94	65		.6	9	+.08	1230P 1240P	"
20	2/6	"	19.0	12.20	6.90	1.98	84		Sur	6	+.10	100P 110P	"
21	2/6	"	19.5	16.12	6.64	2.03	107		"	6	+.06	110P 120P	"
22	2/6	"	20.0	17.15	7.75	2.05	133		.6	7	-.10	135P 145P	"
23	2/6	"	19.5	16.20	7.85	2.05	127		Sur .6	6	+.10	145P 155P	"
24	2/6	"	20.0	20.55	7.28	2.15	150		.6	7	+.10	235P 246P	"
25	2/6	Turner	20.0	20.55	7.38	2.22	152		.6	7	+.04	247P 256P	FC 5
26	2/6	"	20.0	21.10	7.74	2.30	163		.6	6	+.10	257P 305P	"
27	2/6	"	20.0	20.55	7.59	2.27	156		.6	6	-.15	311P 325P	"
28	2/7	Turner-Wilson	19.0	15.40	7.20	1.96	111		.6	7	0	855A 905A	"
29	2/11	" "	10.0	3.97	3.73	1.44	15		.6	6	0	220P 228P	"
30	2/14	Turner	19.0	15.70	3.63	1.82	57		.6	10	0	1053A 1104A	"
31	2/16	Turner-Wilson	19.0	9.54	3.27	1.63	31		.6	10	0	225P 235P	"
32	2/18	Turner	18.5	10.02	2.68	1.47	27		.6	10	0	1120A 1130A	"
33	3/4	"	12.0	4.62	2.03	1.18	9.4		.6	7	0	1205P 1215P	FC 19
34	3/11	"	6.3	4.96	1.48	1.14	7.3		.6	7	0	1135A 1145A	"
35	3/12	"	14.0	8.90	1.68	1.28	15		.6	7	0	1255P 105P	FC 5
36	3/13	Turner-Wilson	18.0	13.88	2.88	1.72	40		.6	9	0	739A 745A	"
37	3/18	Turner	16.5	11.38	1.85	1.45	21		.6	8	0	1255P 102P	"
38	3/25	"	17.0	12.28	1.66	1.45	20		.6	9	0	750A 800A	"
39	4/8	"	10.8	7.28	2.08	1.29	15		.6	10	0	1020A 1030A	"
40	4/15	"	8.5	6.24	1.81	1.22	11		.6	9	0	1205P 1215P	"
41	4/22	Turner-Purdy	10.3	5.52	1.58	1.16	8.7		.6	9	0	1020A 1030A	FC 19
42	4/28	Turner	8.3	4.97	1.79	1.12	8.9		.6	7	0	1030A 1040A	FC 5
43	5/5	"	5.0	5.01	1.36	1.08	6.8		.6	8	0	1015A 1030A	"
44	5/12	"	6.0	4.88	1.21	1.05	5.9		.6	7	0	1020A 1030A	"
45	6/9	"	5.5	2.75	.98	.96	2.7		.6	6	0	1223P 1229P	"
46	7/7	"	5.0	1.84	.61	.84	1.1		.6	5	0	945A 951A	"
47	8/11	"	3.8	.82	.15	.69	.12		Fl	5	0	140P 145P	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 110 R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA - FOX CREEK

at 1/4 mi. above mouth DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERCENT DIF.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
50	11/4	Wood-Waddicor and Turner				0.70	0.24		Weir			1000A	
51	11/30	Waddicor				0.72	0.46		Weir			100P	
52	12/7	"				0.72	0.48		Weir			1250P	
53	12/15	"	1.9	0.34	0.80	0.76	0.27		.6	5		1100A 1105A	FC 19
54	12/29	"	1.9	0.38	1.03	0.79	0.39		.6	3	0	1215P 1220P	"
55	1/12	"	1.9	0.35	1.08	0.78	0.38		.6	3	0	1125A 1130A	"
56	1/19	"	5.4	2.00	0.54	0.81	1.1		.6	6	0	1006A 1016A	"
57	1/26	"	5.5	1.91	0.54	0.81	1.0		.6	6	0	1005A 1015A	"
58	2/3	Waddicor-Bailey	15.5	7.04	2.26	1.34	16.		.6	8	+.02	306P 317P	"
59	2/10	" "	11.5	5.26	1.36	1.14	7.2		.6	8	0	300P 310P	"
60	2/12	" "	13.0	8.06	3.21	1.53	26.		.6	7	0	640P 650P	"
61	2/13	" "	13.0	6.63	2.87	1.45	19.		.6	7	0	847A 858A	"
62	2/17	Wood-Bailey	13.7	3.80	1.98	1.24	7.5		.6	9	0	1143A 1210P	"
63	2/17	" "	7.6	2.66	2.04	1.24	7.7		.6	8		1248P 105P	"
64	2/23	Lind	5.1	2.34	1.96	1.12	4.6		.6	5	0	1218P 1230P	"
65	2/27	Lind-Bailey	15.5	6.27	2.12	1.27	13.		.6	8	-.02	335P 342P	"
66	2/27	" "	15.5	5.98	1.92	1.23	12.		.6	9	-.01	440P 452P	"
67	2/28	" "	18.0	11.33	3.49	1.58	40.		.6	10	-.01	335P 345P	"
68	2/28	" "	18.0	10.43	3.22	1.56	34.		.6	9	-.02	435P 445P	"
69	3/20	Lind	14.5	14.05	3.31		47.		.6	6		1223P 1234P	"
70	3/30	Lind-Bailey	12.3	9.15	3.16		29.		.6	7		955A 1006A	"
71	3/30	Bailey-Lind	11.5	9.42	3.89		37.		.6	6		1120A 1127A	"
72	4/6	Lind	13.0	10.58	1.77		19.		.6	7		320P 330P	FC 19
73	4/14	"	10.5	5.74	2.20		13.		.6	7		210P 224P	"
74	4/21	"	12.0	6.18	2.15		13.		.6	6		400P 413P	"
75	4/27	"	9.0	4.86	2.08		10.		.6	6		325P 333P	"
76	5/12	"	8.5	3.37	1.93		6.5		.6	8		1030A 1040A	"
77	5/19	"	8.0	3.20	1.72		5.5		.6	8		1133A 1145A	"
78	5/26	"	7.5	2.63	1.72		4.5		.6	6		1108A 1116A	"

F. C. Dist. Form 13 M 838

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F110R

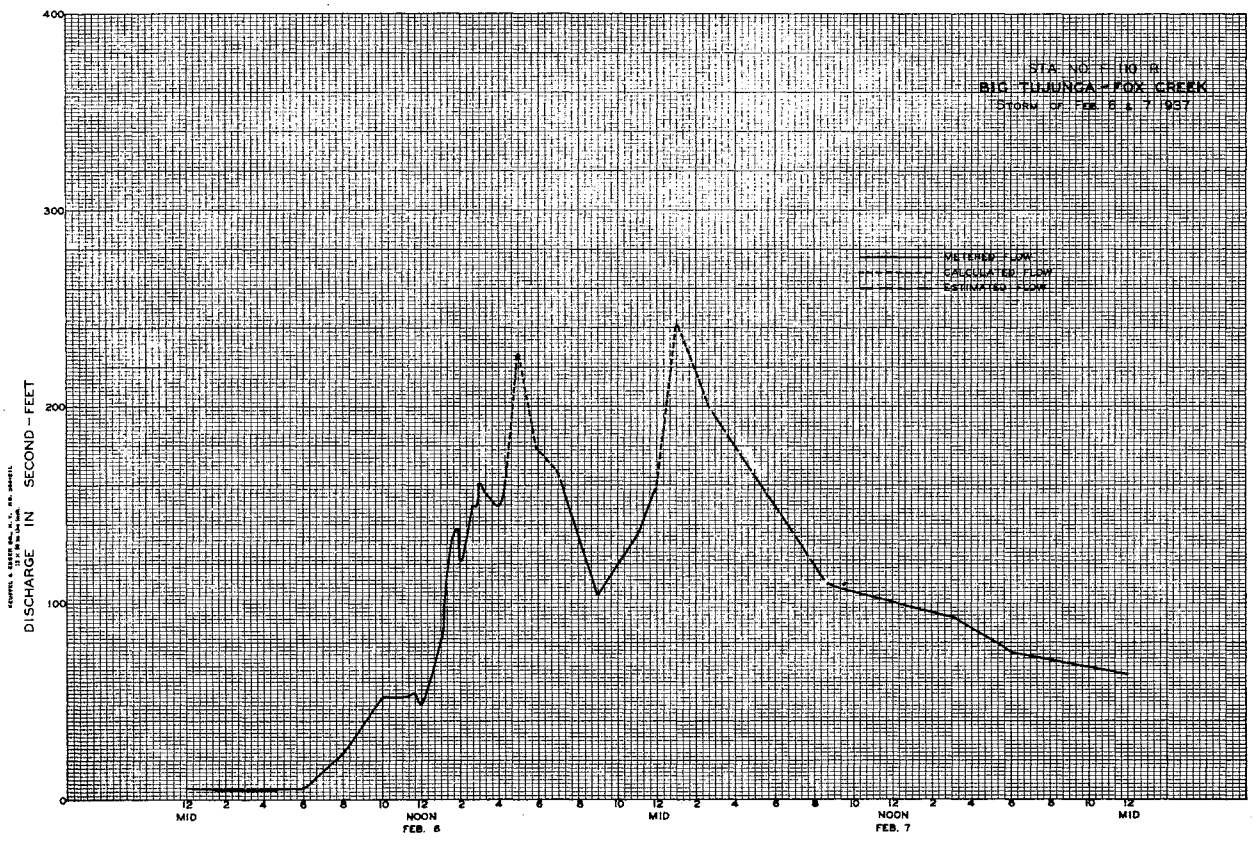
Daily discharge, in second-feet of BIG TUJUNGA-FOX CREEK 1/4 mi. above mouth for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+ 0 1	0 1 1	0 0 0	2 9 2	3 3 2	1 1 5	1 8 1	8 7 6	3 9 3	1 2 1	0 2 2	0 2 2
2	+ 0 1	0 0 0	0 0 0	2 2 7	2 9 2	9 5 5	1 9 1	7 6 5	3 7 3	1 2 1	0 2 2	0 2 2
3	+ 0 1	0 0 0	0 0 0	2 3 3	2 9 3	9 5 5	1 7 1	6 5 5	3 5 3	1 1 1	0 2 2	0 2 2
4	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	9 5 5	1 6 1	6 5 5	3 3 3	1 1 0	0 2 2	0 2 2
5	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	1 5 1	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
6	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	1 4 1	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
7	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	1 3 1	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
8	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	1 2 1	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
9	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	1 1 1	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
10	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	1 1 1	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
11	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	1 0 1	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
12	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	1 0 0	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
13	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
14	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
15	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
16	+ 0 1	0 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
17	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
18	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
19	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
20	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
21	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
22	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
23	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
24	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
25	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
26	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
27	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
28	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
29	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
30	+ 0 1	+ 0 0	0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	0 2 2
31	+ 0 1		0 0 0	2 3 3	3 1 1	8 5 5	9 9 9	6 5 5	3 1 3	1 0 0	0 2 2	
Mean	2.6	0.4	0.0	6.4	7.1	16.2	9.9	4.9	6.9	2.0	4.7	5.4
Acre-Feet	160	24	0	394	398	997	589	301	414	123	279	321

Max. 5.27
Mean 3.10
Acre-Feet

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
Max.	.08	.08	2.05	2.31	24.0	15.7	11.9	5.32	2.33	.66	.15	.18	
Mean	.05	.05	.04	.07	.43	.25	.19	.09	.04	.01	.00	.00	.11
Acre-Feet	5.2	5.0	4.0	7.2	26.4	15.4	11.3	5.5	2.5	.6	.2	.2	7.9
Year													
Mean													
Acre-Feet													

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



STATION F168R

BIG TUJUNGA CREEK below Big Tujunga Dam #1

LOCATION:

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

DRAINAGE AREA:

81.7 square miles.

CHANNEL AND CONTROL:

Channel is gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

At low flow by wading.
At high flow from cable car 125 feet above the station.

RECORDER:

Installed on November 8, 1932 in an F. C. standard type house over a 21 inch diameter corrugated iron pipe stilling well.
Recorder house and well were washed out during the March 2, 1938 storm.
Installed on May 31, 1938 in a standard F. C. type concrete house over a 4 ft. x 4 ft. concrete well in approximately the same location as the old well.
An Au continuous recorder was in service from October 1, 1936 to March 2, 1938 and from May 31, 1938 to September 30, 1938.

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 January 20, 1938 to May 29, 1938; recorder records from November 8, 1932 to January 13, 1938 and from May 31, 1938 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 385 second-feet February 16.
Minimum no flow several days in October.
1937-1938
Maximum 33000 second-feet, estimated, from Big Tujunga Dam outflow records, March 2.
Minimum + several days in January.
1932-1938
Maximum 33000 second-feet, estimated, March 2, 1938.
Minimum no flow several days in October, 1936.

ACCURACY:

Fair.
Intake to well sanded, flow estimated November 1, 2, 3, 4, 1937.
No recorder record January 13 to May 31, 1938.
Clock stopped, flow estimated July 6, 7, 8, 26, 27, 1938.
Poor communication to well due to intake continually silting up, August 11 to September 30, 1938.
Discharges interpolated between measurements August 11 to September 30, 1938.

OPERATION:

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

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 168 R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

~~at~~ below Big Tujunga Dam #1 DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/8	Turner	10.2	8.74	.78	6.94	6.8		.6	12	0	1130A 1145A	FC 5
2	10/15	"	4.5	1.61	.35	6.78	.55		.6	5	0	815A 820A	"
3	10/15	"	10.2	10.15	1.82	7.08	19		.6	11	-.02	1005A 1015A	"
4	10/15	"	10.0	7.80	1.17	7.00	9.1		.6	12	0	105P 123P	"
5	10/22	"	10.1	7.85	1.37	7.01	11		.6	11	0	220P 230P	FC 19
6	10/28	"	9.4	4.43	.38	6.87	1.7		.6	10	0	325P 340P	"
7	11/4	"	4.5	2.05	.53	6.81	1.1		.6	5	0	955A 1000A	"
8	11/11	Ealy-Turner	4.3	1.68	.39	6.80	.7		.6	5	0	222P 227P	"
9	11/19	Turner	4.3	1.64	.40	6.80	.65		.6	5	0	915A 920A	"
10	11/25	"	4.5	1.86	.54	6.82	1.0		.6	5	0	330P 335P	"
11	12/3	"	4.5	2.02	.63	6.84	1.3		.6	5	0	1030A 1035A	"
12	12/9	"	4.5	2.10	.71	6.86	1.5		.6	6	0	300P 310P	"
13	12/15	"	10.0	7.93	1.50	7.04	12		.6	11	0	850A 905A	"
14	12/17	"	4.0	1.30	.26	6.77	.34		F1	4	0	215P 220P	
15	12/23	"	4.0	1.18	.10	6.74	.12		F1	4	0	335P 340P	
16	1/7	"	4.5	1.74	.32	6.80	.55		.6	5	0	900A 905A	FC 5
17	1/13	"	4.5	1.70	.32	6.80	.55		.6	5	0	1100A 1105A	"
18	1/28	"	10.1	7.55	1.74	7.07	13		.6	11	0	233P 245P	"
19	1/31	"	4.5	1.80	.77	6.86	1.4		F1	5	0	120P 125P	
20	2/4	"	4.0	1.65	.59	6.84	.95		.6	4	0	1045A 1050A	FC 19
21	2/4	"	4.0	1.65	.54	6.84	.90		F1	4	0	1052A 1055A	
22	2/8	Turner-Ealy	47.0	37.9	2.85	7.54	108		.6	15	0	1245P 100P	FC 5
23	2/11	Turner	41.0	40.2	2.71	7.54	109		.6	9	0	455P 510P	"
24	2/14	Turner-Ealy	45.0	54.5	3.51	7.71	191		.6	9	0	540P 551P	FC 19
25	2/14	Turner	51.0	79.60	3.73	7.92	297		.6	9	+.01	750P 810P	"
26	2/15	"	71.0	94.50	3.87	8.18	366		.6	12	0	1023A 1043A	"
27	2/18	"	72.0	99.40	3.60	8.24	357		.6	13	0	225P 255P	"
28	2/22	"	69.0	88.50	3.51	8.10	311		.6	13	0	820A 850A	"
29	2/22	"	48.0	55.92	2.93	7.70	164		.6	13	0	1120A 1140A	FC 5
30	2/22	"	53.0	60.71	3.20	7.79	194		.6	14	0	200P 220P	"
31	2/25	"	5.8	2.33	.55	6.74	1.3		.6	6	0	1005A 1010A	"
32	2/25	Turner-Wilson	44.0	46.87	2.69	7.56	126		.6	11	+.01	510P 520P	"
33	3/3	Ealy-Turner	47.0	48.64	2.32	7.56	113		.6	15	0	1053A 1136A	FC 19
34	3/3	Turner-Ealy	47.0	49.47	2.41	7.56	119		.6	15	0	1150A 1205P	"
35	3/8	Turner	13.0	19.07	1.28	7.14	25		.6	10	0	1100A 1112A	"
36	3/10	"	13.3	19.62	1.30	7.14	25		.6	10	0	1135A 1150A	"
37	3/15	"	50.0	62.45	3.11	7.84	194		.6	11	+.02	430P 440P	FC 5
38	3/16	"	50.0	62.71	3.19	7.86	201		.6	11	0	1010A 1022A	FC 19
39	3/16	"	50.0	62.79	3.18	7.86	200		.6	11	0	248P 258P	"
40	3/17	"	51.0	75.65	4.12	8.02	312		.6	10	0	220P 235P	"
41	3/22	"	51.0	75.60	3.82	7.98	288		.6	10	0	210P 225P	"
42	3/23	"	49.5	62.55	3.04	7.78	190		.6	12	-.01	1000A 1015A	FC 5
43	3/25	"	49.5	60.91	3.02	7.77	184		.6	12	0	155P 210P	"
44	3/29	Turner-Ealy	48.0	46.98	2.59	7.56	122		.6	12	0	1030A 1040A	"
45	3/30	Turner	48.0	46.12	2.60	7.55	120		.6	12	0	1015A 1030A	"
46	3/31	Ealy-Turner	45.0	46.82	2.42	7.56	114		.6	12	0	1105A 1137A	FC 19
47	4/1	Turner-Kelley	48.0	47.68	2.59	7.56	123		.6	12	0	300P 315P	FC 5
48	4/2	Turner	48.0	47.48	2.54	7.56	121		.6	12	0	1015A 1025A	FC 5
49	4/6	Turner-Ealy	38.0	26.56	1.52	7.22	40		.6	11	0	920A 930A	FC 19
50	4/7	Turner	38.0	24.79	1.48	7.18	37		.6	11	0	1150A 1200N	"
51	4/8	"	42.0	31.51	1.83	7.30	58		.6	11	0	1215P 1225P	FC 5
52	4/8	"	42.0	30.94	1.82	7.28	56		.6	11	0	240P 254P	"
53	4/14	"	26.0	21.90	1.12	7.10	25		.6	14	0	1123A 1139A	FC 19
54	4/15	"	3.5	2.62	.52	6.80	1.4		.6	4	0	217P 222P	FC 5
55	4/21	"	3.4	2.26	.31	6.78	.70		.6	5	0	1020A 1024A	"
56	4/21	"	3.4	2.26	.48	6.78	1.1	Sur	F1	5	0	1025A 1030A	
57	4/29	"	3.3	2.13	.49	6.78	1.0	Sur	F1	7	0	1010A 1015A	
58	4/29	"	25.7	20.73	1.04	7.08	21		.6	13	0	215P 227P	FC 5
59	5/6	"	25.0	16.04	.61	6.96	9.8		.6	13	0	240P 253P	"
60	5/13	"	26.0	20.02	.92	7.06	18		.6	14	0	105P 115P	"
61	5/20	"	25.5	19.19	.82	7.05	16		.6	14	0	140P 154P	"
62	5/27	"	26.0	21.42	1.04	7.09	22		.6	14	0	325P 340P	"
63	6/2	"	13.0	10.67	.76	6.95	8.1		.6	14	0	900A 912A	"
64	6/2	"	26.0	24.52	1.16	7.15	29		.6	14	0	125P 138P	"
65	6/3	"	26.0	18.51	.69	7.02	13		.6	14	+.01	1025A 1037A	"
66	6/10	"	25.5	19.29	.78	7.03	15		.6	14	0	1015A 1027A	"
67	6/17	"	25.0	19.24	.79	7.03	15		.6	13	0	1150A 1202P	"
68	6/24	"	26.0	21.83	.92	7.08	21		.6	14	0	1108A 1123A	"
69	6/25	"	25.5	20.61	.85	7.06	18		.6	13	0	923A 935A	"
70	7/1	"	26.0	21.29	.87	7.08	19		.6	14	0	1140A 1152A	"
71	7/8	"	18.0	13.07	1.39	7.09	19		.6	12	0	1056A 1106A 125P	FC 5
72	7/15	Turner	16.3	14.93	1.58	7.13	24		.6	12	0	140P	FC 5
73	7/22	"	16.3	13.88	1.48	7.10	20		.6	11	0	1000A 1012A	"
74	7/22	"	18.5	15.99	1.62	7.13	26		.6	11	0	330P 345P	"
75	7/29	"	18.7	17.22	1.62	7.15	28		.6	11	0	220P 232P	"
76	8/5	"	18.4	16.78	1.62	7.14	27		.6	11	0	225P 240P	"
77	8/12	"	18.5	16.70	1.65	7.14	28		.6	12	0	850A 906A	"
78	8/19	"	18.5	17.31	1.58	7.14	27		.6	11	0	854P 909P	"
79	8/25	Bollinger	16.5	16.98	1.77	7.15	30		.6	12	0	958A 1012A	FC 6
80	9/1	"	16.7	17.11	1.63	7.16	28		.6	11		936A 954A	"
81	9/8	Turner	18.4	19.30	1.56	7.15	30		.6	12	0	245P 302P	FC 5
82	9/10	"	18.4	18.56	1.47	7.15	27		.6	11	0	950A 1005A	"
83	9/16	"	18.3	18.47	1.37	7.14	25		.6	11	0	443P 500P	"
84	9/23	"	18.5	18.71	1.36	7.11	25		.6	11	0	1130A 1147A	"
85	9/30	"	18.2	17.15	1.38	7.10	24		.6	11	0	1059A 1116A	"

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 168 R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

~~at~~ below Big Tujunga Dam #1 DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
86	10/4	Turner and Waddicor	7.5	5.26	1.04	6.88	5.5		.6	7	0	244P 253P	FC 5
87	10/7	Turner	18.5	17.1	1.33	7.08	23		.6	12	0	1012A 1028A	"
88	10/14	"	18.7	19.2	1.41	7.12	27		.6	12	0	1100A 1115A	"
89	10/21	"	18.0	16.6	1.26	7.07	21		.6	11	0	1030A 1045A	"
90	10/28	"	18.0	14.9	1.12	7.05	17		.6	10	0	1127A 1142A	"
91	11/10	Turner and Waddicor	17.7	9.69	.86	6.94	8.4		.6	11	0	210P 225P	"
92	11/18	Waddicor	7.5	4.92	.75	6.87	3.7		.6	7	0	200P 210P	FC 19
93	11/24	"	7.5	4.33	.65	6.85	2.8		.6	7	0	1230P 1245P	"
94	12/2	Waddicor and Bissell	7.0	3.99	.63	6.86	2.5		.6	5	0	410P 420P	"
95	12/9	Waddicor	7.0	4.35	.67	6.87	2.9		.6	7	0	945A 955A	"
96	12/20	"	6.8	3.77	.82	6.88	3.1		.6	6	0	935A 945A	FC 16
97	12/23	"	5.5	3.01	.76	6.89	2.3		.6	6	0	815A 825A	FC 19
98	1/20	"	1.5	.15	.73	6.73	0.11		.6	2	0	310P 315P	"
99	1/27	"	1.5	.15	.72	6.74	0.11		.6	2	0	358P 402P	"
100	2/5	Waddicor and Bailey	23.0	36.9	1.72	7.36	63		.6	9		1140A 1152A	"
101	2/7	" "	28.0	21.8	2.07	7.26	45		.6	14		1030A 1050A	
102	2/12	" "	30.5	23.1	2.68		62		.6	9		1145A 1153A	FC 19
103	2/16	Ealey-Browne	32.0	23.8	2.22		53		.6	15			
104	2/16	" "	30.0	23.8	2.22	7.27	53		.6	15	+.02	115P 144P	FC 30
105	2/18	Bailey	31.0	22.6	2.08	7.26	47		.6	11	0	1045A 1100A	FC 19
106	2/19	"	31.0	22.2	2.08	7.25	46		.6	11	+.01	855A 915A	"
107	2/24	Lind	24.0	21.7	2.60	7.28	57		.6	12	0	250P 305P	"
108	3/1	Lind-Bailey	53.0	90.9	4.71	8.53	428		.6	8	0	500P 525P	"
109	3/1	" "	83.0	197.	5.05	10.15	994		.6	8	0	730P 745P	"
110	3/2	Lind-Bailey	82.0	244.	4.63	10.59	1130		.6	8	+.08	850A 910A	FC 19
111	3/4	" "	69.0	204.	4.25		867		.6	8		1035A 1050A	"
112	3/5	" "	62.0	158.	3.61		573		.6	8		835A 847A	"
113	3/6	" "	62.0	136.	2.93		397		.6	8		1040A 1052A	"
114	3/7	" "	77.0	258.	5.83		1510		.6	8		340P 355P	"
115	3/7	" "	70.0	217.	4.96		1080		.6	8		1035P 1100P	"
116	3/8	" "	69.0	212.	4.84		1030		.6	9		940A 950A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 168 R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

xxclx below Big Tujunga Dam #1 DURING THE YEAR ENDING SEPTEMBER 30, 1938.

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Hydg Percent Diff.	METH OD	MEAS NOS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
117	3/8	" "	63.0	158.	4.01		635		.6	8		1210P 1222P	"
118	3/8	" "	63.5	166.	4.06		673		.6	8		607P 617P	"
119	3/9	" "	69.0	201.	4.73		952		.6	8		715P 735P	"
120	3/10	" "	56.0	108.	2.77		298		.6	8		745A 800A	"
121	3/11	" "	55.0	85.0	2.40		204		.6	7		845A 855A	"
122	3/12	" "	63.5	160.	3.81		610		.6	8		840A 851A	"
123	3/12	" "	68.5	198.	4.73		936		.6	8		600P 621P	"
124	3/13	" "	63.5	159.	3.92		623		.6	8		809A 822A	"
125	3/13	" "	63.5	164.	4.74		614		.6	8		738P 751P	"
126	3/14	" "	62.5	159.	3.61		575		.6	8		704A 723A	"
127	3/14	Lind-Ealy	54.0	67.4	2.11		165		.6	8		1040A 1057A	"
128	3/14	Lind-Bailey	55.0	92.0	2.26		208		.6	7		1235A 1248A	"
129	3/14	Lind-Ealy	56.0	102.	2.39		244		.6	8		257P 303P	"
130	3/14	Lind	56.5	107.	2.37		294		.6	7		720P 730P	"
131	3/15	"	56.0	112.	2.68		300		.6	7		750A 805A	"
132	3/15	Lind and Robertson	59.0	121.	3.05		368		.6	7		838P 850P	"
133	3/16	Lind	58.0	122.	2.91		356		.6	8		800A 814A	FC 19
134	3/16	Lind-Bailey	62.5	150.	3.54		530		.6	8		205P 218P	"
135	3/16	" "	62.5	149	3.46		515		.6	8		655P 710P	"
136	3/17	" "	62.5	147.	3.27		481		.6	8		900A 912A	"
137	3/17	Bailey and Robertson	56.0	110.	1.55		170		.6	7		620P 634P	"
138	3/17	" "	56.0	106.	2.92		309		.6	7		758P 809P	"
139	3/17	" "	54.0	98.5	2.69		265		.6	7		938P 950P	"
140	3/18	Bailey	54.0	106.	2.71		283		.6	7		10A 823A	"
141	3/19	Lind and Robertson	53.0	87.0	2.68		233		.6	15		942A 1005A	"
142	3/19	" "	62.0	85.6	2.60	1.98	223		.6	14	0	510P 527P	"
143	3/20	" "	53.5	86.2	2.47	1.97	213		.6	12	0	505P 521P	"
144	3/21	Lind	53.0	87.4	2.69	1.97	235		.6	9	0	755A 810A	"
145	3/21	"	54.0	87.0	2.46	1.97	214		.6	11	0	515P 532P	"
146	3/22	"	52.5	87.1	2.57	1.97	224		.6	11	0	815A 831A	"
147	3/22	Lind-Ealy	52.5	82.6	2.51	1.89	207		.6	12	0	1155A 1210P	"
148	3/22	Lind and Robertson	51.5	76.2	2.41	1.75	184		.6	11	0	336P 348P	"
149	3/22	" "	49.5	61.8	1.85	1.48	115		.6	12	0	800P 817P	"
150	3/23	Lind	50.0	61.6	1.97	1.48	121		.6	11	0	815A 831A	"
151	3/23	Lind and Robertson	51.0	72.9	2.40	1.70	175		.6	12	0	953A 1005A	"
152	3/23	" "	51.5	79.6	2.55	1.83	203		.6	11	0	1200N 1216P	"
153	3/23	" "	51.5	79.0	2.45	1.82	194		.6	12	0	559P 615P	"
154	3/24	Lind	51.5	78.4	2.42	1.82	190		.6	12	0	814A 830A	"
155	3/24	"	51.5	80.1	2.48	1.82	199		.6	13	0	500P 517P	"
156	3/25	"	11.0	3.53	.63	.22	2.2		.6	6	0	825A 833A	"
157	3/25	Lind and Robertson	51.5	75.4	2.36	1.77	178		.6	13	0	714P 730P	FC 19
158	3/26	Robertson	51.0	76.2	2.12	1.76	162		.6	11	0	455P 520P	"
159	3/28	Lind and Robertson	51.5	75.4	2.37	1.73	179		.6	15	0	923A 935A	"
160	3/28	" "	47.5	54.5	1.76	1.32	96		.6	13	0	507P 523P	"
161	3/29	Lind-Bailey	48.5	54.8	1.77	1.32	97		.6	13	0	742A 754A	"
162	3/31	" "	49.5	54.4	1.85	1.34	101		.6	13	0	830A 845A	"
163	3/31	Lind	48.0	55.6	1.66	1.34	92		.6	13	0	522P 540P	"
164	4/1	Ealy-Lind	49.0	53.4	1.74	1.35	93		.6	11	0	843A 905A	"
165	4/1	Lind and Robertson	48.0	55.6	1.92	1.35	107		.6	14	+.01	500P 516P	"
166	4/4	Lind	48.5	55.3	2.05	1.36	113		.6	14	0	616A 834A	"
167	4/4	"	48.5	58.0	1.76	1.35	102		.6	14	0	520P 540P	"
168	4/5	"	47.0	53.6	1.79	1.31	96		.6	13	0	816A 840A	"
169	4/5	Lind and Robertson	51.0	72.8	2.32	1.68	169		.6	13	0	1110A 1126A	"
170	4/5	" "	51.0	71.8	2.20	1.68	158		.6	13	0	455P 512P	"
171	4/6	Lind	50.5	70.8	2.13	1.67	151		.6	14	0	807A 828A	"
172	4/6	Ealy-Lind	51.5	71.5	2.21	1.67	158		.6	12	0	518P 535P	"
173	4/7	Lind-Ealy	51.0	69.8	2.29	1.65	160		.6	14	0	851A 907A	"
174	4/7	Lind	51.0	70.2	2.13	1.64	149		.6	15	0	512P 536P	"
175	4/8	"	51.0	69.3	2.24	1.64	155		.6	14	0	822A 835A	"
176	4/8	Lind-Ealy	39.0	34.6	1.94	1.17	67		.6	12	0	1122A 1135A	"
177	4/8	Lind and Robertson	47.2	47.6	1.42	1.17	67		.6	13	0	450P 508P	"
178	4/14	" "	47.0	48.2	1.53	1.17	74		.6	12	0	748A 804A	"
179	4/15	Lind	47.3	47.7	1.46	1.15	70		.6	11	0	1120A 1135A	FC 19
180	4/15	"	17.0	8.30	1.14	.42	9.4		.6	8	-.01	625P 635P	"
181	4/16	"	19.0	7.90	1.05	.40	8.3		.6	9	0	815A	"
182	4/16	Ealy-Robertson	34.0	17.2	1.47	.68	25		.6	16		230P	FC 30
183	4/17	Ransom and Robertson	40.0	25.8	0.86	.69	22		.6	11		1130A	"
184	4/17	Ealy-Robertson	39.0	28.2	0.92	.69	26		.6	19		1200N 1225P	"
185	4/19	Robertson	21.0	10.6	0.77	.42	8.2		.6	10		710A 730A	"
186	4/21	Lind	2.6	0.83	0.49	.08	0.41		.6	4	0	531P 537P	FC 19
187	4/27	"	2.6	0.60	0.70	.09	0.42		.6	3	0	620P 625P	"
188	4/30	Lind and Robertson	35.0	26.2	1.57	.89	41		.6	13	0	132P 146P	"
189	4/30	" "	39.0	34.6	1.83	1.15	63		.6	13	0	335P 350P	"
190	5/1	" "	36.0	34.3	1.90	1.15	65		.6	12	0	815A 832A	"
191	5/1	" "	12.0	3.86	0.75	.23	2.9		.6	6	0	240P 245P	"
192	5/1	" "	38.0	30.2	2.14	1.12	65		.6	13	0	400P 418P	"
193	5/3	Lind	2.7	0.72	1.47	.09	1.1		.6	4	0	1230P 1237P	"
194	5/3	"	4.0	1.65	0.82	.14	1.4		.6	4	0	545P 555P	"
195	5/5	"	4.5	1.88	0.85		1.6		.6	5		1004A 1010A	"
196	5/6	"	3.3	1.07	0.88		0.95		.6	5		935A 941A	"
197	5/12	"	2.5	0.49	0.63		0.31		.6	3		320P	"
198	5/13	Lind-Ealy	20.0	19.1	0.93		18		.6	9		355P 404P	"
199	5/13	" "	24.0	26.2	1.52		40		.6	10		540P 555P	"
200	5/13	Lind-Rayle	21.5	21.2	1.14		24		.6	10		705P 718P	"
201	5/16	Lind	19.5	15.4	0.70		11		.6	10		715A 731A	"
202	5/16	Lind Robertson	22.0	21.8	1.06		23.0		.6	10		1000A 1015A	"
203	5/16	Lind and Robertson	23.0	24.3	1.31		32		.6	10		1255P 110P	FC 19
204	5/16	Lind	25.0	29.3	1.27		37		.6	11		327P 343P	"
205	5/17	"	25.0	29.5	1.55	.95	46		.6	12		815A 833A	"
206	5/18	Lind and Robertson	49.0	58.9	1.49	1.31	88		.6	17	0	715P 735P	"
207	5/18	" "	49.0	55.6	1.38	1.24	76		.6	14	-.01	907P 930P	"
208	5/19	Lind	48.5	56.4	1.43	1.23	81		.6	14	0	707A 727A	"
209	5/20	Lind-Ealy	25.5	27.5	1.50	0.91	41		.6	12	0	420P 435P	"
210	5/22	Robertson	24.0	22.2	1.14		25		.6	10		930A 945A	"
211	5/23	Lind	23.5	22.1	1.03		23		.6	11		745A 757A	"
212	5/26	"	21.5	19.4	0.89		17		.6	11		814A 825A	"
213	5/27	Lind-Ealy	24.0	23.1	1.27		29		.6	11		237P 250P	"
214	5/27	" "	25.0	25.4	1.31		33		.6	12		500P 510P	"
215	5/28	Robertson	49.0	55.3	1.45	5.44	80		.6	23		345P 420P	"
216	5/29	"	49.0	45.1	0.96	5.15	43		.6	16		945A 1015A	"
217	5/29	"	48.0	35.1	0.50	4.90	18		.6	16		420P 445P	"
218	6/2	Lind	21.0	18.8	1.08	5.39	20		.6	11	0	935A 948A	"
219	6/4	Robertson	48.5	41.6	0.72	5.44	30		.6	16	0	735A 750A	FC 30
220	6/5	"	48.5	43.4	0.87	5.51	35		.6	16	0	500P	"
221	6/9	Lind	23.0	20.5	1.18	5.50	24		.6	11	0	955A 1008A	FC 19
222	6/16	"	21.0	20.3	1.04	5.35	21		.6	10	0	939A 950A	"
223	6/23	"	22.0	19.8	1.07	5.35	21		.6	13	0	808A 823A	"
224	6/27	Robertson Rayle	18.0	12.6	0.41	5.04	5.2		.6	9	0	230P 250P	FC 30
225	6/30	Lind	16.5	10.7	0.41	5.04	4.4		.6	13	0	835A 849A	FC 19
226	7/2	Robertson	48.5	39.9	0.54	5.40	22		.6	16	0	1000A 1030A	FC 30
227	7/5	"	50.0	55.6	1.03	5.70	57		.6	16	0	1045A 1130A	"
228	7/5	Robertson and Rayle	51.0	66.4	1.29	5.90	85		.6	17	0	115P 145P	"
229	7/5	" "	50.5	62.4	1.14	5.78	71		.6	17	0	330P 350P	"
230	7/6	Bollinger	50.5	60.7	1.23	5.78	75		.6	18	0	1003A 1021A	FC 6
231	7/8	Robertson and McDonough	51.0	67.5	1.36	5.88	92		.6	17	0	955A 1030A	FC 30
232	7/8	" "	51.0	67.4	1.40	5.88	94		.6	17	0	220P 250P	"
233	7/10	" "	51.0	65.2	1.29	5.84	84		.6	17	0	1100A 1130A	"
234	7/11	" "	51.0	66.6	1.35	5.88	90		.6	17	0	100P	"
235	7/11	" "	51.5	71.0	1.49	5.94	106		.6	17	0	510P 530P	"
236	7/13	Bollinger	51.0	71.0	1.48	5.93	105		.6	18	0	919A 942A	FC 6
237	7/16	Robertson	50.5	71.8	1.48	5.96	107		.6	17	0	1205P 1230P	FC 30
238	7/20	Bollinger	51.0	67.5	1.45	5.91	98		.6	18	0	958A 1017A	FC 6

F. C. D. FORM 104 IM 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 148 R

DISCHARGE MEASUREMENTS OF Big Tujunga Creek

XXX MEAN below Big Tujunga Dam #1 DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Portion DH	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												1245P	
239	7/26	Robertson	50.5	65.2	1.36	5.94	89		.6	17	0		FC 30
240	7/27	"	51.0	63.6	1.27	5.94	81		.6	13	0	330P 400P	"
241	7/27	"	50.0	54.7	1.04	5.87	57		.6	13	0	700P 730P	"
242	7/28	Lind	25.5	30.5	1.60	5.85	49		.6	12	0	825A 837A	FC 19
243	7/28	Robertson	18.0	34.9	1.51	5.70	53		.6	9		200P 230P	FC 30
244	7/29	"	50.5	61.7	1.23	5.78	76		.6	16		200P 230P	"
245	7/30	"	50.0	61.3	1.12	5.78	69		.6	16		1200N 1230P	"
246	7/30	"	50.5	62.3	1.06	5.78	66		.6	17		500P 530P	"
247	7/31	"	49.5	60.6	1.07	5.76	65		.6	16			"
248	8/2	"	50.7	62.6	1.13	5.76	71		.6	17		1100A 1125A	"
249	8/4	Lind Robertson	27.0	32.5	1.79	5.68	58		.6	13	0	845A 902A	FC 19
250	8/5	Robertson	27.5	32.0	1.67	5.62	53		.6	12	0	1000 1100P	FC 30
251	/5	"	25.0	30.4	1.36	5.53	41		.6	11	0	300P 315P	"
252	/6	"	24.5	28.2	1.48	5.54	42		.6	12	0	1230P 100P	"
253	/7	"	26.0	27.35	1.25	5.50	35		.6	12	0	120P 120	"
254	8/8	"	25.0	25.04	1.13	5.43	28		.6	11	0	140 1055A	"
255	/11	Lind	21.0	18.35	0.86	5.16	16		.6	10	0	1120A 1050A	FC 19
256	8/18	"	11.5	9.15	1.23	5.14	11		.6	11	0	1105A 337P	"
257	8/25	"	10.8	7.06	1.02	5.08	7.2		.6	12	-.01	350P 108P	"
258	9/1	"	10.7	6.54	1.19	5.07	7.8		.6	12	0	125P 118P	"
259	9/8	"	9.0	3.70	1.90	4.74	7.0		.6	9	0	128P 105P	"
260	9/15	"	8.5	3.28	1.78	4.72	5.9		.6	9	0	115P 852A	"
261	9/22	"	7.8	3.52	1.62	4.76	5.7		.6	8	+.01	900A 218P	"
262	9/29	"	7.8	3.46	1.62	4.74	5.6		.6	8	0	231P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F165R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Big Tujunga Dam #1, for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	23	78	24	01					180	101	66	76
2	25	78	24	01					191	211	64	76
3	26	71	24	01					218	218	60	76
4	28	58	24	01					230	224	51	72
5	26	47	24	01					255	255	41	72
6	25	42	24	+					251	237	37	71
7	25	42	24	+					229	230	30	70
8	28	96	18	+					196	223	19	68
9	29	104	03	01					180	194	15	65
10	28	86	05	02					196	180	15	63
11	28	78	04	02					196	107	14	62
12	28	71	02						196	105	13	60
13	28	58	02						196	107	13	60
14	28	55	02						196	105	13	59
15	26	52	02						231	105	12	58
16	26	42	01						222	107	12	58
17	25	37	18						211	107	11	57
18	25	37	05						196	105	11	57
19	25	28	02						198	102	10	57
20	22	28	02						198	98	09	57
21	20	28	02						198	97	08	57
22	20	28	02						201	98	08	57
23	18	28	02						210	95	07	57
24	18	28	02						196	95	07	57
25	21	28	01						210	93	07	57
26	20	24	18						180	91	07	56
27	16	24	03						131	78	07	56
28	18	24	02						146	60	07	56
29	18	24	02						45	70	07	56
30	13	21	01						45	68	07	56
31	7.1		01							65	7.1	
	7107	1454	468 (Jan.1-12) 0.9						5953	2480.1	676.4	1489

NO RECORD 1/13/35 TO 5/31/35 DUE TO FLOW BECOMING BIG TUJUNGA DAM NO. 1

F. C. Dist. Form 52 150 8-38

MEAN	22.9	4.85	1.51							12.8	21.8	6.30
ACRE-FEET	1410	288	93	1.8						1180	1340	375

YEAR MEAN
OR PERIOD ACRE-FEET 9610 1no.

Remarks: + indicates discharge 0.05 sec. ft. or less
Total acre-feet for year does not include discharge between 1/12 and 6/1.

F. C. Dist. Form 52 150 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F165R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Big Tujunga Dam #1, for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.7	3.2	1.4	1.4	1.1	117.6	122.8	20.5	10.5	18.0	29.2	27.7
2	4.7	2.1	1.4	0.9	0.9	115.0	120.2	21.8	14.1	18.0	29.2	27.7
3	4.2	1.6	1.4	0.8	0.8	112.4	120.2	23.3	12.4	19.3	29.2	29.2
4	2.8	1.4	1.6	0.6	0.6	112.4	120.2	8.5	14.5	19.3	27.7	29.2
5	8.2	1.4	1.6	0.6	0.6	84.1	115.0	0.9	15.5	18.0	27.7	29.2
6	7.8	1.4	1.4	0.8	2.8	23.3	66.5	6.5	16.8	18.0	27.7	29.2
7	5.8	0.9	1.6	0.6	46.1	24.8	37.5	10.4	15.5	18.0	27.7	29.2
8	6.4	0.6	1.6	0.6	107.2	24.8	47.9	9.5	24.1	18.0	27.7	29.2
9	5.2	1.1	1.6	0.6	107.2	24.8	55.5	9.5	15.5	19.3	27.7	29.2
10	3.2	0.9	1.4	0.6	109.8	24.8	55.5	9.5	14.5	19.3	27.7	27.7
11	3.2	0.8	1.8	0.6	109.8	24.8	55.5	13.6	13.5	19.3	27.7	27.7
12	3.7	0.8	2.1	0.8	109.8	12.5	55.5	16.6	12.4	19.3	27.7	27.7
13	3.6	0.8	1.8	0.6	79.4	3.5	37.0	18.0	12.4	19.3	27.7	27.7
14	10.2	0.8	1.8	0.6	93.3	1.6	24.8	11.2	13.5	19.3	27.7	26.2
15	6.9	0.6	4.5	0.6	336.1	68.8	10.5	5.8	13.5	21.8	27.7	26.2
16	7.8	0.6	1.1	0.5	385.4	201.2	1.1	6.4	13.5	23.3	27.7	24.8
17	6.4	0.6	0.4	0.5	376.8	250.3	0.9	11.7	13.5	23.3	29.2	24.8
18	4.7	0.6	0.3	0.5	359.6	312.3	0.9	15.5	12.4	21.8	29.2	26.2
19	0.3	0.6	0.2	3.3	351.0	308.0	0.8	15.5	11.4	21.8	29.2	24.8
20	6.9	0.6	0.2	10.8	272.0	304.0	0.8	15.5	10.4	19.3	29.2	26.2
21	13.5	0.8	0.2	12.4	207.6	296.0	0.9	15.5	9.5	18.0	29.2	24.8
22	11.4	0.8	0.2	12.4	238.1	292.0	1.1	15.5	9.5	19.3	29.2	26.2
23	8.6	0.9	0.1	13.5	194.0	226.3	1.1	15.5	9.5	24.8	29.2	26.2
24	6.4	1.1	0.1	13.5	156.7	187.0	1.1	16.8	15.8	24.8	29.2	24.8
25	4.7	1.1	0.4	13.5	44.2	157.1	1.1	16.8	18.0	26.2	29.2	24.8
26	4.2	1.4	0.2	13.5	125.4	183.5	1.1	16.8	18.0	27.7	29.2	24.8
27	7.8	1.6	4.7	13.5	122.8	187.0	1.1	19.3	18.0	29.2	27.7	23.3
28	2.4	1.6	2.6	13.5	122.8	187.0	1.1	18.0	18.0	29.2	27.7	23.3
29	1.1	1.6	0.8	13.5		150.4	1.1	18.0	18.0	29.2	29.2	23.3
30	1.1	1.4	3.4	8.7		120.2	1.9	18.0	16.8	29.2	29.2	23.3
31	3.7		4.2	1.6		112.4		18.0		29.2	27.7	
	171.6	33.7	46.1	155.9	4061.9	4249.9	1088.8	438.9	431.0	680.5	881.2	794.6

MEAN	5.54	1.12	1.49	5.03	145.	137.	36.3	14.2	14.4	22.0	28.4	26.5
ACRE-FEET	340	67	91	309	8060	8430	2160	870	855	1350	1750	1580

Remarks:

YEAR OR PERIOD MEAN 35.7
ACRE-FEET 25860

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, the former location of the abandoned U.S.G.S. station "Tujunga Creek near Sunland" (U11R), 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 90 feet below station.

RECORDER:

Installed in 1932 in an F. C. standard type house over a 36 inch corrugated iron pipe stilling well. An Au continuous recorder was in service from October 1, 1936 to September 30, 1938.

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, 1938.
(Records at U.S.G.S. Station, Tujunga Creek near Sunland, are available from October 1, 1916 to September 30, 1932).

EXTREMES OF DISCHARGE:

1936-1937
Maximum 495 second-feet December 27.
Minimum .8 second-foot November 18.
1937-1938
Maximum 50000 second-feet, estimated, March 2.
Minimum 2.5 second-feet December 17.
1932-1938
Maximum 50000 second-feet, estimated, March 2, 1938.
Minimum .8 second-foot November 18, 1936.

ACCURACY:

Fair.
Clock Stopped:
Part of record estimated February 24, and 25, December 9, 10, 11, 12, 18, 19, 20, 21, 22, 23, 1937. February 5, 6, 7, 8, 9, 1938.
Well sanded; flow estimated February 15, 16, March 8, 9, 10, 11, 12, 14 to 30, April 8 to 20, 1938. Due to change in channel conditions flow estimated by comparison with Big Tujunga Dam Outflow records for part of March 2, and 3, 1938.
No record May 14 to 19, 1938.
Communication trouble, at times, March to September, 1938.

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 STATION NO. F 213 R
HYDRAULIC DEPARTMENT

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

~~XXX~~ below submerged dam DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adhes Factor Ice	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/8	Turner	7.4	3.07	1.31	8.67	4.0		.6	8	0	850A 900A	FC 5
2	10/15	"	7.8	3.95	2.01	8.79	7.9		.6	8	0	440P 450P	"
3	10/22	"	18.0	5.68	2.06	8.85	12.		.6	9	0	940A 950A	FC 19
4	10/28	"	4.4	3.46	1.35	8.54	4.7		.6	5	0	950A 1000A	"
5	11/4	"	7.3	2.88	.66	8.37	1.9		.6	8	0	1140A 1150A	"
6	11/11	"	7.5	1.93	.66	8.34	1.3		.6	8	0	915A 925A	"
7	11/19	"	5.0	1.50	.63	8.31	0.95		.6	5	0	720A 725A	"
8	11/25	"	7.0	1.82	.64	8.34	1.2		.6	7	0	420P 430P	"
9	12/3	"	7.0	2.06	.80	8.36	1.6		.6	7	0	910A 920A	"
10	12/9	"	6.5	2.06	1.02	8.39	2.1		.6	6	0	420P 430P	"
11	12/17	"	11.2	4.25	1.13	7.85	4.8		.6	9	0	340P 350P	"
12	12/23	"	4.5	1.69	1.20	7.68	2.0		.6	5	0	410P 415P	FC 5
13	12/27	Luce-Paul	60.0	78.25	5.89	9.95	461.		.5	10	-.26	950A 1015A	FC 25
14	12/27	" "	62.0	67.34	5.61	9.74	378.		.6	8	-.14	1030A 1037A	"
15	12/28	Luce	46.3	25.76	3.33	9.33	86.		.6	13	-.02	715A 730A	FC 13
16	12/31	Luce-Paul	62.5	39.85	3.89	9.69	155.		.6	16	0	700A 715A	"
17	1/4	Turner	16.0	5.08	2.61	9.38	13.		.6	8	0	425P 435P	FC 19
18	1/7	"	17.0	6.72	2.84	9.26	19.		.6	9	0	330P 340P	FC 5
19	1/12	Miller-Barclay	14.5	5.81	2.52	9.19	15.		.6	9	+.02	515P 530P	FC 35
20	1/13	Turner	13.3	5.27	2.40	9.15	13.		.6	8	0	310P 325P	FC 5
21	1/21	"	13.2	6.94	3.13	9.08	21.		.6	7	0	720A 730A	"
22	1/28	"	15.0	7.12	2.85	8.98	20.		.6	8	+.01	420P 430P	"
23	1/30	Luce-Paul	53.5	37.39	4.19	9.50	157.		.6	12	0	700A 710A	FC 13
24	1/30 1/31	" "	33.0	17.62	4.05	9.33	71.		.6	11	-.01	1155P 1202A	"
25	1/31	Turner	20.0	9.36	3.58	9.12	33.		.6	10	0	319P 329P	FC 5
26	2/1	Luce-Paul	23.3	9.13	2.99	9.06	26.		.6	10	0	147P 154P	FC 13
27	2/4	Turner	16.5	6.52	2.50	8.90	16.		.6	9	0	915A 925A	FC 19
28	2/6	Luce-Paul	25.0	17.83	4.24	9.22	76.		.6	7	+.04	925A 930A	FC 13
29	2/6	" "	39.5	26.53	4.11	9.29	109.		.6	12	+.02	1000A 1015A	"
30	2/6	" "	55.5	32.46	4.14	9.32	134.		.6	12	+.04	1025A 1034A	"
31	2/7	" "	72.0	53.37	4.18	10.15	223.		.6	19	0	805A 818A	"
32	2/8	" "	94.2	68.54	3.24	10.64	222.		.6	24	0	1105P 1130P	"
33	2/9	Turner	60.0	42.50	4.16	10.82	177.		.6	12	0	335P 355P	FC 5
34	2/11	Luce	44.0	38.00	4.00	11.00	152.		.6	23	-.01	1030A 1045A	FC 13
35	2/14	Luce-Paul	53.7	49.79	4.49	10.46	224.		.6	15	+.01	710A 725A	"
36	2/14	" "	Two Channels			10.32	162.		.6	14	-.01	325P 337P	"
37	2/17	Turner	112.0	110.9	3.83	11.80	424.		.6	21	0	830A 900A	FC 5
38	2/24	"	32.0	44.95	5.04	10.30	226.		.6	7	0	300P 315P	"
39	2/25	Luce-Paul	27.0	25.35	2.47	9.64	62.		.6	9	0	1055A 1103A	FC 13
40	3/4	Turner	33.0	36.90	4.16	9.63	154.		.6	8	0	540P 550P	FC 5
41	3/8	"	16.0	20.27	2.13	9.02	43.		.6	10	0	430P 440P	"
42	3/10	"	16.5	20.33	2.16	9.02	44.		.5	10	0	320P 330P	"
43	3/16	Luce-Paul	51.0	44.51	5.10	9.70	227.		.6	6	-.01	615A 630A	FC 25
44	3/16	" "	30.5	45.90	5.15	9.67	236.		.6	8	0	1140A 1155A	"
45	3/16	" "	29.6	45.92	4.99	9.67	229.		.6	8	0	1156A 1211P	"
46	3/18	Turner	33.0	60.30	5.68	9.69	343.		.6	7	0	520P 530P	FC 5
47	3/22	Luce-Paul	29.5	52.20	6.41	9.92	335.		.5	8	+.01	1200N 1213P	FC 25
48	3/22	" "	30.0	53.04	6.22	9.94	330.		.6	9	+.01	1214P 1230P	"
49	3/24	Turner	28.0	46.15	5.97	9.67	276.		.6	7	0	1120A 1130A	FC 5
50	3/31	"	35.0	46.81	3.71	9.23	174.		.6	9	0	325P 340P	"
51	4/7	"	24.0	30.12	2.35	8.48	71.		.6	9	0	300P 312P	"
52	4/14	"	24.0	29.48	1.73	8.32	51.		.6	12	0	305P 322P	"
53	4/15	Turner-Kelley	17.5	21.07	1.28	8.06	27.		.6	9	0	442P 452P	"
54	4/21	Turner	15.5	17.98	.91	7.92	16.		.6	9	0	345P 355P	FC 19
55	4/29	"	15.3	17.18	.91	7.84	15.		.6	9	0	310P 320P	FC 5
56	4/29	"	16.5	20.72	1.25	8.04	26.		.6	9	+.01	526P 536P	"
57	5/5	"	14.5	16.13	.84	7.81	14.		.6	9	0	320P 330P	"
58	5/6	"	14.5	18.68	1.18	7.94	22.		.6	9	0	405P 415P	"
59	5/12	"	14.5	19.01	1.33	8.02	25.		.6	9	0	415P 425P	"
60	5/20	"	14.5	18.33	1.08	7.97	20.		.6	9	0	520P 530P	"
61	5/27	"	15.0	19.17	1.14	7.98	22.		.6	9	0	500P 510P	"
62	6/3	"	14.5	17.73	1.01	7.92	18.		.6	9	0	430P 440P	"
63	6/10	"	14.5	17.70	1.09	7.93	19.		.6	9	0	400P 412P	"
64	6/17	"	14.5	17.09	.92	7.89	16.		.6	9	0	430P 440P	"
65	6/24	"	14.5	17.79	.97	7.92	17.		.6	9	0	435P 445P	"
66	7/1	"	14.6	17.25	1.00	7.90	17.		.6	9	0	445P 457P	"
67	7/8	"	14.0	15.80	1.15	7.92	18.		.6	7	0	350P 400P	"
68	7/15	"	17.5	21.63	.99	7.97	21.		.6	10	0	452P 505P	"
69	7/22	"	15.0	19.05	1.10	8.00	21.		.6	9	0	500P 510P	"
70	7/29	"	14.7	19.18	1.30	8.05	25.		.6	9	0	450P 502P	"
71	8/5	"	15.0	19.95	1.25	8.03	25.		.6	9	0	515P 527P	"
72	8/12	"	15.0	19.74	1.19	8.02	24.		.6	9	0	415P 430P	"
73	8/19	Turner	15.0	19.87	1.25	8.02	25.		.6	9	0	300P 315P	FC 5
74	8/25	Bollinger	20.3	17.84	1.71	8.08	31.		.6	13	0	848A 902A	FC 6
75	9/1	"	19.5	18.38	1.69	8.09	31.		.6	12	0	828A 844A	"
76	9/8	Turner	15.0	19.82	1.33	8.05	26.		.6	9	0	510P 520P	FC 5
77	9/17	"	15.0	19.67	1.33	8.05	26.		.6	9	0	650A 705A	"
78	9/23	"	14.5	19.43	1.08	8.02	21.		.6	9	0	535P 550P	"
79	9/30	"	14.5	19.47	1.10	8.00	21.		.6	9	0	410P 422P	"

F. C. D. FORM 104 1M 8-38

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 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period Dif.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
80	10/7	Turner	14.5	15.95	1.03	7.98	20.		.6	9	0	125P 140P	FC 5
81	10/11	"	14.5	20.45	1.29	8.07	26.		.6	9	0	1140A 1157A	"
82	10/14	"	14.5	20.28	1.19	8.05	24.		.6	9	0	155P 207P	"
83	10/21	"	14.5	18.88	1.02	7.97	19.		.6	9	0	915A 930A	"
84	10/25	Turner and Waddicor	14.5	17.97	1.02	7.93	18.		.6	9	0	335P 350P	"
85	10/28	Turner	14.5	17.51	.94	7.90	17.		.6	9	0	300P 313P	"
86	11/4	Turner and Waddicor	13.5	13.58	.42	7.65	5.8		.6	8	0	337P 343P	"
87	11/10	" "	14.0	15.02	.56	7.72	8.4		.6	9	0	345P 356P	"
88	11/18	Waddicor	12.4	12.89	.38	7.62	4.9		.6	8	0	325P 340P	FC 19
89	11/24	"	11.0	11.92	.36	7.58	4.0		.6	8	0	330P 341P	"
90	12/9	"	10.0	10.87	.34	7.58	3.7		.6	8	0	310P 320P	"
91	12/11	Luce-Skelly	22.0	26.49	1.66	8.35	44.		.6	10	-.04	920P 955P	FC 39
92	12/11	" "	22.0	25.52	1.71	8.28	44.		.6	11	-.02	950P 1000P	"
93	12/16	Waddicor	6.2	2.47	1.13	7.53	2.8		.6	6	0	415P 428P	FC 19
94	12/23	Luce-B. Luce	22.0	16.49	1.04	7.95	17.		.6	10	0	745A 755A	FC 39
95	12/23	" "	22.4	17.90	1.06	7.95	19.		.6	9	0	800A 815A	"
96	12/23	Waddicor	7.2	5.47	1.78	7.74	9.8		.6	8	0	305P 317P	FC 19
97	12/30	"	7.0	4.29	1.24	7.56	5.3		.6	8	0	350P 402P	"
98	1/6	"	6.9	3.97	1.16	7.53	4.6		.6	8	0	330P 340P	"
99	1/13	"	7.0	4.04	1.13	7.52	4.6		.6	8	0	325P 335P	"
100	1/15	Luce-Skelly	10.5	6.21	1.77	7.80	11.		.6	7	0	1030A 1040A	FC 39
101	1/20	Waddicor	14.5	7.85	.85	7.68	6.7		.6	8	0	410P 422P	FC 19
102	1/27	"	14.8	7.39	.82	7.61	6.1		.6	8	0	437P 447P	"
103	2/1	Luce-Skelly	24.7	25.14	2.05	8.38	52.		.6	9	+.02	445A 500A	FC 39
104	2/1	Luce-Skelly	24.7	26.17	2.21	8.42	58.		.6	10	+.06	500A 510A	FC 39
105	2/3	" "	26.4	37.25	2.73	8.74	102.		.6	9	+.01	230P 240P	"
106	2/3	" "	26.3	38.37	2.67	8.75	102.		.6	10	0	240P 250P	"
107	2/4	" "	25.0	32.95	3.06	8.60	101.		.6	10	-.01	1000A 1015A	"
108	2/4	" "	25.0	31.86	2.83	8.56	90.		.6	10	-.02	1015A 1025A	"
109	2/4	Luce-Miller	24.5	23.80	2.24	8.37	53.		.6	9	-.01	730P 740P	FC 13
110	2/8	Luce-Skelly	23.2	16.93	2.07	8.24	42.		.6	10	+.02	220P 237P	FC 39
111	2/9	" "	23.2	19.73	1.91	8.20	38.		.6	10	+.02	145P 156P	"
112	2/9	" "	23.2	20.78	2.03	8.25	42.		.6	10	0	255P 305P	"
113	2/9	" "	23.2	20.58	2.02	8.25	41.		.6	10	0	307P 315P	"
114	2/10	" "	22.0	16.30	1.43	8.06	23.		.6	9	0	940A 950A	"
115	2/10	" "	22.6	16.00	1.39	8.06	22.		.6	10	0	950A 1010A	"
116	2/11	Luce	27.0	33.34	5.01	8.90	167.		.6	6	+.10	1015A 1025A	FC 25
117	2/11	"	27.0	30.43	5.79	9.02	176.		.6	7	+.04 -.03	1045A 1102A	"
118	2/11	Luce-Van Buren	60.0	99.00	6.24	10.06	618.		.6	11	+.27	240P 300P	"
119	2/11	" "	57.0	86.41	6.06	9.98	524.		.6	7	-.13	315P 330P	"
120	2/11	" "	53.0	48.70	5.76	9.58	281.		.6	8	-.03	545P 558P	"
121	2/11	" "	53.0	49.06	5.75	9.56	283.		.6	7	-.02	559P 615P	"
122	2/12	" "	20.5	20.69	3.44	8.17	71.		.6	7	-.02	605P 615P	FC 39
123	2/16	Luce	15.1	11.74	2.27	7.45	27.		.6	9	0	115P 128P	"
124	2/24	Lind	20.0	19.45	3.45	7.80	67.		.6	9	0	515P 540P	FC 19
125	2/27	Luce-Skelly	19.5	12.97	2.97	7.51	38.		.6	10	0	1255P 105P	FC 39
126	2/27	" "	19.5	12.47	2.92	7.51	36.		.6	11	0	115P 125P	"
127	2/28	" "	26.3	29.44	4.25	8.35	125.		.6	11	+.02	910A 920A	"
128	2/28	Miller-Trumbo	55.0	62.87	5.54	9.22	348.		.6	12	+.17	850P 920P	FC 35
129	2/28	" "	57.0	77.40	5.76	9.49	445.		.6	12	+.32	945P 1015P	"
130	3/1	Luce-Skelly	64.0	101.4	6.21	10.61	630.		.6	10	+.06 +.17	650A 707A	FC 25
131	3/2	" "	116.0	247.4	6.30	12.34	1560.		.6	18	-.07	640A 710A	"
132	3/2	" "	120.0	268.6	6.38	12.45	1710.		.6	13	+.10	730A 755A	"
133	3/4	" "	93.	142.3	8.70	12.36	1240.			11	0	1115A 1130A	FC 31
134	3/4	" "	92.	148.2	9.11	12.37	1350.			12	0	1130A 1150A	"
135	3/5	" "	132.	109.4	7.68	12.76	841.			14	+.03	225P 240P	"
136	3/5		136.	116.0	7.68	12.80	891.			14	+.03	245P 300P	"
137	3/9	Luce-Miller	43.	92.46	7.32	10.58	676.			9	-.02	1250P 110P	"
138	3/9	" "	43.	95.55	7.58	10.56	724.			9	-.02	110P 125P	"
139	3/16	Miller-Haig	42.	89.45	5.59	9.51	501.		.6	9	+.02	1130A 1206P	FC 35
140	3/16	" "	44.	102.4	6.12	9.86	628.		.6	9	+.32	220P 300P	"
141	3/30	Luce-Skelly	58.	57.59	2.90	8.40	167.		.6	15	0	100P 114P	FC 39
142	4/11	" "	29.5	38.01	2.76	8.16	105.			13		500P 515P	"
143	4/20	Lind	19.	21.95	1.29	7.58	28.		.6	6	0	505P 515P	FC 19
144	4/27	"	20.	16.53	1.42	7.35	23.		.6	9	0	1115A 1128A	"
145	5/12	"	21.5	14.22	1.10	7.16	16.		.6	10	0	522P 536P	"
146	5/14	Luce	17.5	17.87	1.34	7.34	24.		.6	10	0	405P 420P	FC 39
147	5/19	Lind	30.5	36.10	2.47	8.11	89.		.6	11	0	550P 608P	FC 19
148	5/26	"	18.	19.66	1.65	7.44	32.		.6	8	0	405P 420P	"
149	6/2	"	20.5	16.22	1.92	7.46	35.		.6	10	0	445P 458P	"
150	6/9	"	21.5	22.72	1.71	7.61	39.		.6	11	0	512P 525P	"
151	6/16	"	21.0	20.00	1.70	7.53	34.		.6	16	0	330P 351P	"
152	6/23	Lind	20.5	19.50	1.64	7.49	32.		.6	20	0	512P 530P	FC 19
153	6/30	"	14.5	13.97	.97	7.08	14.		.6	15	0	513P 530P	"
154	7/12	Luce	42.5	47.97	2.61	8.20	125.		.6	12	0	930A 945A	FC 39
155	7/14	Luce-B. Luce	43.5	46.39	2.29	8.20	106.		.6	14		640A 655A	"
156	7/21	Luce	42.0	44.40	2.49	8.16	110.		.6	13	0	1120A 1135A	"
157	7/28	Lind	21.5	29.68	2.17	7.87	64.		.6	11	0	510P 525P	FC 19
158	8/4	"	22.0	29.43	2.35	7.88	69.		.6	12	0	325P 338P	"
159	8/11	"	19.5	16.38	1.04	7.21	17.		.6	12	0	405P 418P	"
160	8/18	"	19.2	16.27	1.15	7.23	19.		.6	17	0	915A 938A	"
161	8/25	"	13.0	10.23	1.08	7.10	11.		.6	13	-.01	515P 530P	"
162	9/1	"	12.7	9.50	1.24	7.05	12.		.6	13	0	355P 410P	"
163	9/8	"	12.7	8.35	1.22	7.02	10.		.6	13	0	422P 437P	"
164	9/15	"	12.0	7.70	1.15	6.97	8.9		.6	13	-.02	336P 354P	"
165	9/22	"	12.2	7.64	1.11	6.95	8.4		.6	12	0	740A 800A	"
166	9/29	"	8.5	7.83	1.04	6.96	8.2		.6	9	0	435P 448P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F213R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below submerged dam for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	38	48	17	26	25	168	175	32	17	19	26	30
2	35	38	17	19	21	159	173	34	16	19	27	30
3	30	30	16	16	17	154	175	36	17	19	27	29
4	32	18	17	13	16	154	175	26	18	18	27	29
5	28	17	15	14	14	130	175	14	21	18	27	28
6	50	16	16	27	126	46	170	17	22	19	27	28
7	42	14	17	27	218	43	78	23	22	19	27	28
8	42	12	18	27	191	45	82	22	22	19	27	28
9	42	11	18	16	216	44	79	22	20	19	26	27
10	37	11	20	12	138	43	78	24	18	19	25	27
11	118	11	20	11	106	81	76	27	18	18	25	27
12	120	10	22	11	148	158	64	27	17	18	25	27
13	75	10	22	9	205	90	51	22	17	18	26	27
14	75	11	22	7.5	308	121	37	14	16	20	26	26
15	75	11	9	9	412	231	34	12	22	22	26	26
16	75	10	5	10	423	285	23	14	16	22	27	25
17	115	10	5	12	397	340	22	21	14	22	27	25
18	80	10	5	17	333	345	20	21	13	22	27	24
19	35	11	8	21	351	312	18	21	12	17	28	23
20	15	11	22	20	308	315	16	22	10	17	28	22
21	15	11	22	20	208	280	16	23	9.5	19	29	22
22	12	12	22	18	227	288	16	23	12	24	30	22
23	12	12	20	19	90	247	16	24	18	24	30	22
24	12	12	20	42		177	17	24	19	25	30	22
25	11	12	11			259	17	24	19	25	30	22
26	11	11	40	20	152	253	17	25	20	25	30	22
27	12	12	200	20	181	248	17	25	20	26	30	22
28	5	14	90	20	170	210	20	23	20	26	30	22
29	5	14	34	25		179	30	22	19	26	30	22
30	30	15	164	73		177	22	22		25	30	22
31	35		48	42				22				
Total	2004	441	632.1	590.5	5661	5786	1908	701	309.5	646	850	757
Mean	6.46	1.47	20.4	19.0	202	187	63.6	22.6	17.0	20.8	27.4	25.2
Acre Feet	397	87	1250	1170	11230	11480	3780	1390	1010	1280	1690	1500

Mean 50.1
Year to date
Acre Feet 36250

F. C. Dist. Form 52 180 8-38

Remarks:

F. C. Dist. Form 82 150 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

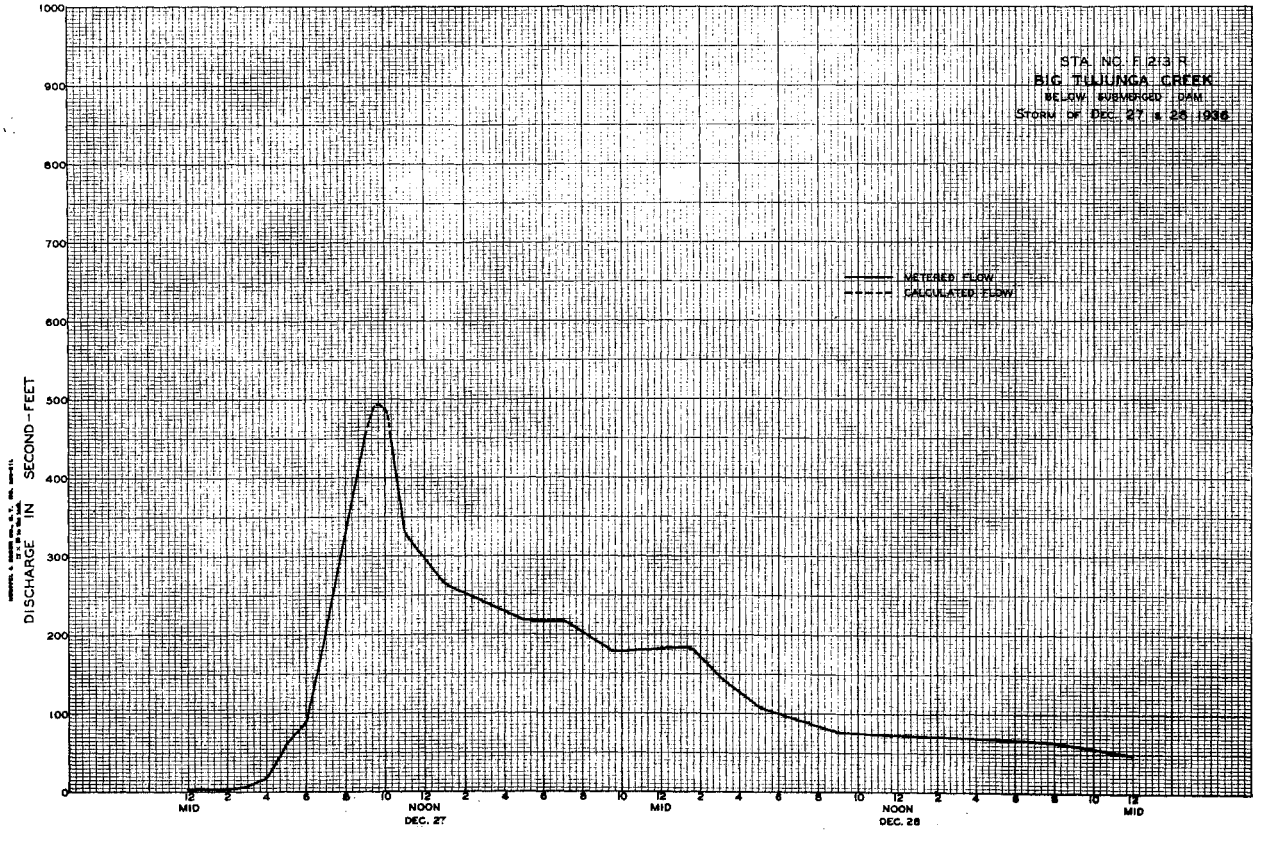
Sta. No. F213R

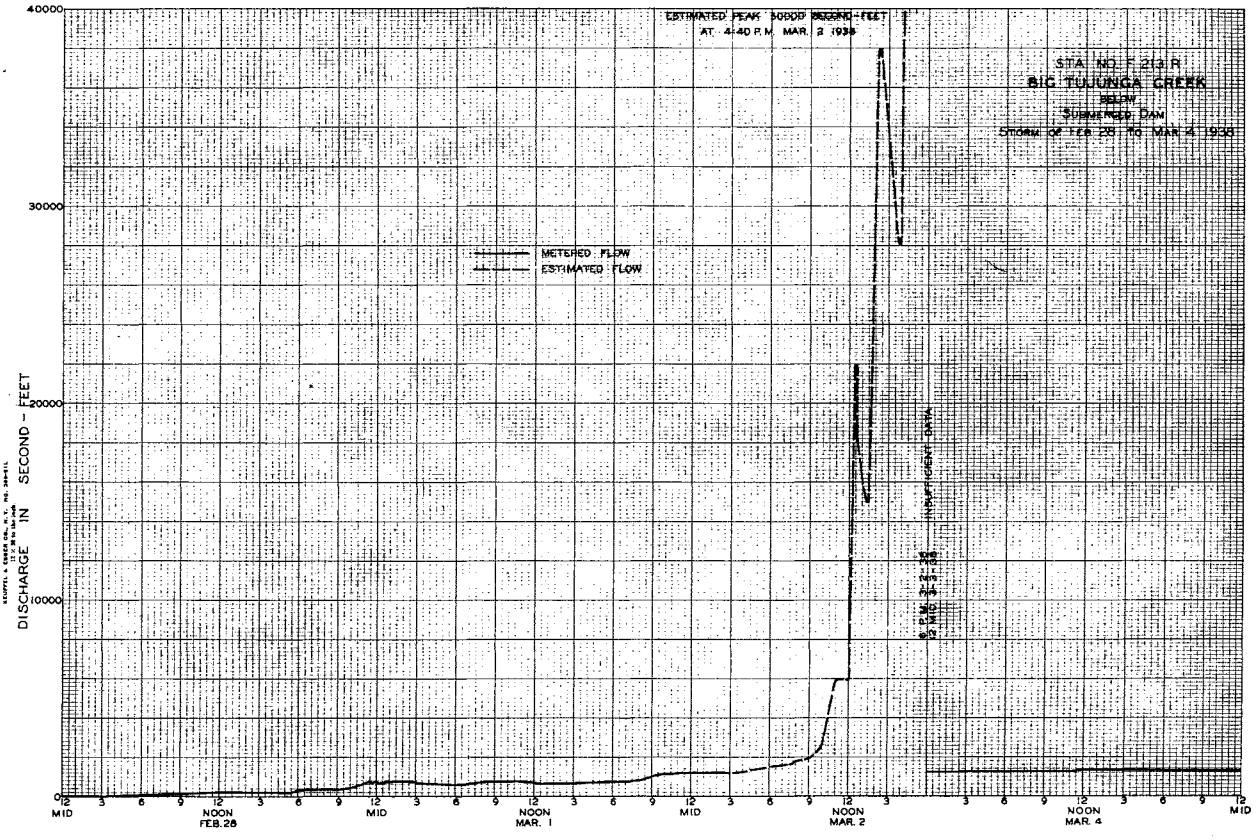
Daily discharge, in second-feet of BIG TUJUNGA CREEK below submerged dam for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	7.5	4.0	4.5	38	763	159	79	36	14	70	11
2	22	6	3.6	4.2	22	13000	157	77	36	34	78	10
3	22	6.5	3.6	4.2	98	3700	154	23	37	36	72	10
4	22	5.5	3.6	4.5	79	1276	150	20	43	36	70	10
5	22	4.5	4.0	4.6	62	841	168	19	43	58	60	10
6	21	4.5	4.0	4.5	90	910	190	18	42	89	47	10
7	21	4.5	4.0	4.5	46	1216	186	18	40	90	43	10
8	21	7	4.0	4.2	42	886	140	18	40	99	36	10
9	22	9.5	3.7	4.2	38	692	105	17	39	107	33	10
10	27	9.5	2.7	4.5	24	445	105	17	38	106	19	10
11	27	8	21	4.5	206	280	105	17	38	113	17	9.5
12	26	7.5	6	4.5	147	600	105	16	38	125	16	9.5
13	24	7.5	4.8	4.5	96	643	105	19	37	116	14	9
14	24	6.5	4.0	4.5	86	475	105	23	37	106	14	9
15	23	6	3.2	17	94	440	90	29	37	106	15	9
16	23	5	2.8	9.5	48	520	49	43	34	112	18	8.5
17	22	4.8	2.5	6.5	62	510	48	60	34	112	19	8.5
18	22	4.5	4.4	6	59	380	38	68	33	112	19	9.5
19	20	4.5	4.9	7.5	46	340	31	94	32	112	18	9.5
20	19	4.2	4.9	7	69	300	27	82	32	112	16	9
21	18	4.2	4.1	6.5	68	300	27	42	32	110	16	9
22	17	4.2	14	6	66	260	26	40	32	107	14	8.5
23	17	4.2	11	6	67	230	24	40	33	105	13	8
24	17	4.0	6	6	68	240	28	38	31	101	12	8
25	17	4.0	6	6	64	130	30	34	29	97	11	7.5
26	21	4.0	9.5	6	62	230	24	34	28	92	11	7.5
27	22	3.8	7.5	6	50	230	22	37	25	88	11	7.5
28	19	3.8	6	6	206	200	21	60	16	62	11	8
29	17	4.0	5.5	7		160	23	52	15	68	11	8
30	17	3.8	5	6.5		150	40	38	14	72	12	8
31	10		4.5	6		164		36		70	11	
	644	1625	175.4	183.6	2065	30521	2482	1228	1001	2767	827	272.0
MEAN	20.8	5.42	5.66	5.92	73.7	985	82.7	39.6	33.4	89.2	26.7	9.07
ACRE-FEET	1280	322	348	364	4090	60540	4920	2440	1990	5490	1640	540

Remarks:

YEAR OR PERIOD — MEAN 116 — ACRE-FEET 83960





STATION 1908:

BIG TUJUNGA WASH at Stonehurst Avenue

LOCATION:

At the Stonehurst Avenue (formerly Mulholland Street) bridge, approximately 3 miles southeast of San Fernando.

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.
The stream flowed in the east channel from October 1, 1936 to about 11:30 A.M. June 7, 1937, when it was diverted to the training channel; on March 1, 1938 it cut back into the training 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 on the downstream end of a bridge pier in the training channel.
Recorder was removed February 8, 1934.
Recorder was installed March 9, 1934 on the downstream end of a bridge pier in the east channel.
From October 1, 1936 to June 11, 1937, a vertical Rational recorder was in service on the east channel.
From June 12, 1937 to June 24, 1937, a vertical Rational recorder was in service on the east channel and another vertical Rational recorder was in service on the training channel.
From June 24, 1937 to September 18, 1937 a vertical Rational recorder was in service on the training channel; it was replaced on September 8, 1937 with an H.C.P. continuous recorder which remained in service until communication was lost on March 2, 1938.
On the training channel a box type house over an 18 inch diameter stilling well was replaced on August 5, 1937 with an F. C. standard type house; on the east channel there was a box type house over an 18 inch diameter stilling well.

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 March 2, 1939.

EXTREMES OF DISCHARGE:

1936-1937
Maximum not determined.
Minimum no flow part of year.
1937-1938
Maximum 54000 second-feet, estimated, March 2.
Minimum no flow part of year.
1932-1938
Maximum 54000 second-feet, estimated, March 2, 1938.
Minimum no flow part of year.

ACCURACY:

Poor.
Due to change in channel conditions flow estimated by adding station 213 and station 19 February 15,16 1937.
Station sanded gage height interpolated February 23,24, 1937, January 11, 12, 13, February 16, 19, 1938.
No record, flow estimated by interpolating between measurements July 24,25,26,27,28,29, August 4,5,10 to 20,25,26, 1937.
Clock stopped gage height interpolated July 6,7,8, 1937.
No record, flow estimated June 7 to 12, 1937.
Flow not determined March 1, to September 30, 1938.

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 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period Diff.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/19	Luce	14.0	4.41	3.73	5.17	16.		.6	7	0	840A 850A	FC 13
2	10/22	"	13.5	2.42	3.33	5.22	8.1		.6	7	0	440P 450P	"
3	12/10	"	3.5	.28	1.25	5.40	.35		.6	4	0	1140A 1145A	"
4	12/15	Luce-Paul	5.5	1.31	1.81	5.46	2.4		.6	6	-.01	407A 413A	"
5	12/18	Luce	16.0	3.11	1.55	5.12	4.8		.6	7	0	1105A 1110A	"
6	12/23	"	4.5	.56	.95	5.00	.55		.6	5	0	645P 650P	"
7	12/26	"	4.0	.67	1.21	5.03	.80		.6	5	0	1210P 1215P	"
8	12/27	"	32.9	40.9	7.89	5.92	323.		.6	8	-.16	1155A 1208P	FC 25
9	12/28	Miller-Barclay	18.5	11.2	4.29	5.24	47.		.6	11	0	300P 320P	FC 35
10	12/31	Luce-Paul	Two Channels			6.16	617.		.6	18	-.03	1205A 1230A	FC 25
11	12/31	Luce-Paul-Miller and Barclay	Two Channels			6.03	385.		.6	19	-.04	350A 410A	FC 25 FC 35
12	12/31	Miller-Barclay-Luce and Paul	Two Channels			5.99	378.		.6	18	-.06	350A 430A	FC 25 FC 35
13	12/31	Miller-Barclay	35.5	21.5	4.53	5.38	98.		.6	14	0	245P 305P	FC 35
14	1/5	Miller	17.0	3.97	2.14	5.66	8.5		.6	9	0	1130A 1150A	FC 35
15	1/6	"	23.5	8.6	3.45	5.26	30.		.6	12	0	315P 345P	"
16	1/13	Miller-Barclay	21.0	5.09	2.12	6.02	11.		.6	10	0	205P 220P	"
17	1/14	Luce	10.0	3.02	3.51	6.06	11.		.6	7	0	505P 515P	FC 13
18	1/29	Luce-Paul	20.0	10.03	3.71	5.30	37.		.6	12	0	840A 857A	"
19	1/30	Miller-Barclay	45.5	28.34	4.58	5.57	130.		.6	13	+.02	445P 500P	FC 35
20	1/30	Luce-Paul	49.0	40.48	5.73	5.63	232.		.6	12	-.02	800P 815P	FC 13
21	1/31	Miller-Barclay	20.0	10.21	3.86	5.30	39.		.6	10	0	145P 155P	FC 35
22	2/4	Luce-Paul	14.7	4.54	3.61	5.72	16.		.6	8	0	235P 242P	FC 13
23	2/5	" "	25.4	8.38	3.03	5.85	25.		.6	9	+.02	1110P 1117P	"
24	2/6	" "	20.5	14.07	4.87	6.01	68.		.6	8	+.02	805A 810A	"
25	2/6	Luce-Paul	51.0	46.79	6.27	5.99	294.		.6	10	-.02	1155A 1210P	FC 13
26	2/6	" "	34.0	47.25	7.95	6.25	376.		.6	8	0	215P 230P	FC 25
27	2/6	" "	34.0	47.64	8.46	6.25	404.		.6	8	+.01	245P 257P	"
28	2/6	" "	35.0	52.10	8.17	6.26	426.		.6	8	0	300P 312P	"
29	2/6	" "	34.5	52.55	8.63	6.30	454.		.6	8	+.06	335P 350P	"
30	2/6	" "	35.5	60.50	8.86	6.38	536.		.6	8	+.08	355P 410P	"
31	2/7	" "	49.2	43.96	5.91	5.87	260.		.6	11	-.18	1235P 1252P	FC 13
32	2/8	" "	51.0	41.92	5.88	6.26	246.		.6	12	0	1225P 1237P	"
33	2/9	" "	51.5	36.09	5.40	6.42	195.		.6	12	0	625P 635P	"
34	2/11	Luce	46.0	33.6	4.89	5.45	164.		.6	11	-.01	1255P 106P	"
35	2/14	Luce-Paul	33.0	59.36	8.54	6.06	507.		.6	7	+.02	420A 435A	FC 25
36	2/14	" "	33.0	59.76	9.08	6.07	542.		.6	7	+.01	435A 500A	"
37	2/14	" "	45.5	45.18	5.87	5.57	265.		.6	10	0	235P 247P	FC 13
38	2/25	" "	34.2	31.46	4.51	5.42	142.		.6	11	0	133A 147A	"
39	2/25	" "	31.0	23.59	3.87	5.33	91.		.6	10	0	936A 946A	"
40	3/1	Paul	38.0	29.3	4.96	5.48	145.		.6	11	0	330P 342P	"
41	3/3	"	30.7	27.79	3.70	5.48	103.		.6	8	0	1125A 1139A	"
42	3/15	"	21.0	19.96	3.75	5.27	75.		.6	9	0	429P 438P	"
43	3/15	Luce-Paul	33.0	50.40	7.30	5.01	368.		.6	7	+.02	1048P 1105P	FC 25
44	3/15	" "	32.0	52.87	8.02	6.02	424.		.6	7	+.01	1107P 1120P	"
45	3/16	" "	31.0	43.28	7.15	5.91	310.		.6	7	-.02	151A 210A	"
46	3/16	" "	31.0	42.51	7.10	5.89	302.		.6	7	-.02	211A 223A	"
47	3/16	" "	31.0	36.67	7.20	5.82	264.		.6	8	0	900A 913A	"
48	3/16	" "	31.0	37.13	7.60	5.82	282.		.6	7	0	915A 927A	"
49	3/22	Luce-Paul	34.0	47.86	7.33	5.94	351.		.6	9	-.01	1014A 1030A	FC 25
50	3/22	" "	34.0	49.28	7.32	5.93	360.		.6	8	-.01	1031A 1045A	"
51	3/23	" "	34.0	41.55	7.40	5.83	308.		.6	9	0	1025A 1048A	"
52	3/23	" "	33.5	41.61	7.23	5.83	301.		.6	9	0	1050A 1105A	"
53	3/26	" "	31.5	35.36	6.98	5.72	247.		.6	8	-.01	905A 923A	"
54	3/26	" "	31.5	35.49	6.84	5.72	243.		.6	8	+.01	925A 935A	"
55	4/1	" "	54.5	55.04	3.24	5.54	181.		.6	17	0	225P 240P	FC 13
56	4/7	Luce	33.5	26.84	2.79	5.39	75.		.6	12	-.02	255P 300P	"
57	4/14	"	28.4	18.68	2.51	5.27	47.		.6	11	0	325P 340P	"
58	4/22	"	19.5	10.42	2.53	5.16	27.		.6	10	0	1140A 1155A	"
59	4/29	"	19.5	7.73	2.54	5.08	20.		.6	10	0	345P 410P	"
60	5/7	"	18.5	8.43	2.46	5.13	23.		.6	10	0	1020A 1030A	"
61	5/13	"	18.0	8.21	2.75	5.13	23.		.6	10	0	1130A 1130A	"
62	5/20	"	19.5	9.43	1.59	5.05	15.		.6	11	0	132P 145P	"
63	5/27	"	19.5	9.05	2.51	5.12	23.		.6	10	0	110P 120P	"
64	6/3	"	19.0	8.48	1.53	5.00	13.		.6	10	0	315P 325P	"
65	6/10	Luce	10.0	3.82	1.60	3.07	7.7		.6	6	0	840A 850A	FC 13
66	6/12	"	9.7	3.74	1.59	3.02	6.0		.6	6	0	215P 225P	"
67	6/17	"	14.0	5.66	1.61	3.10	9.1		.6	8	0	140P 150P	"
68	6/24	"	6.4	2.24	1.07	2.92	2.4		.5	7	0	335P 345P	"
69	7/1	"	10.3	5.35	1.71	2.86	9.1		.6	9	0	900A 910A	"
70	7/9	"	11.0	6.17	1.58	2.90	9.8		.6	10	0	730A 740A	"
71	7/15	"	11.1	6.47	1.57	2.90	10.		.6	9	0	715P 725P	"
72	7/22	Bollinger	10.7	5.62	2.22	2.93	12.		.6	8	0	1003A 1010A	FC 6
73	7/29	"	11.2	7.30	2.39	2.97	17.		.6	11	0	221P 233P	"
74	8/5	Luce	11.6	7.41	2.11	3.03	15.		.6	9	0	450P 510P	FC 13
75	8/12	"	11.5	6.92	2.29	3.06	16.		.6	10	0	630P 645P	"
76	8/20	"	10.8	7.24	2.77	3.09	20.		.6	9	0	1100A 1110A	"
77	8/26	"	11.7	7.79	2.53	3.09	20.		.6	8	0	347P 358P	"
78	9/2	"	10.7	8.40	2.63	3.10	22.		.6	9	0	220P 230P	FC 39
79	9/8	"	12.0	7.52	2.26	3.08	17.		.6	7	0	400P 415P	"
80	9/16	"	12.1	7.62	2.35	3.08	18.		.6	8	0	545A 600A	"
81	9/23	"	11.9	7.88	2.48	3.08	19.		.6	9	0	1105A 1115A	"
82	9/30	"	12.7	7.48	2.40	3.07	18.		.6	9	0	515P 525P	"

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 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period Diff.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
83	10/7	Luce	11.8	7.42	2.31	3.06	17.		.6	8	0	220P 230P	FC 39
84	10/14	"	12.0	8.60	2.55	3.09	22.		.6	9	-.02	232P 242P	"
85	10/22	"	11.6	8.25	1.84	3.02	16.		.6	8	0	130P 145P	"
86	10/28	"	14.9	7.88	1.75	3.03	14.		.6	10	-.01	315P 330P	"
87	11/5	"	13.2	4.68	.82	2.97	3.8		.6	8	0	1125A 1135A	"
88	11/12	"	13.7	5.13	.94	2.98	4.8		.6	8	0	420P 430P	"
89	11/18	"	13.2	4.26	.87	2.94	3.7		.6	7	0	247P 253P	"
90	11/24	"	9.2	2.63	.94	2.92	2.5		.6	6	0	1040A 1050A	"
91	12/2	"	5.7	1.10	.85	2.89	1.0		.6	5	0	245P 255P	"
92	12/9	"	4.5	.85	.80	2.90	0.70		.6	6	0	105P 110P	"
93	12/11	Miller-B. Luce	5.3	1.09	.84	2.96	0.90		.6	5	0	540P 545P	FC 35
94	12/11	Luce-Skelly	26.2	11.09	4.26	3.16	47.		.6	12	+.01	1050P 1100P	FC 39
95	12/11	" "	26.0	11.08	3.32	3.16	36.		.6	12	0	1110P 1120P	"
96	12/12	" "	26.1	12.12	2.90	3.14	35.		.6	12	-.01	1245A 100A	"
97	12/16	Luce	12.0	2.07	.82	2.92	1.7		.6	11	0	150P 200P	"
98	12/23	Luce-B. Luce	5.2	4.67	1.61	2.98	7.5		.6	10	0	955A 1005A	"
99	12/31	" "	9.5	2.33	.78	2.94	1.8		.6	7		1145 1150	"
100	1/7	Luce	4.2	.65	1.06	2.90	0.70		.6	5	0	920A 925A	"
101	1/13	"	3.3	.91	.60	2.88	0.55		.6	6	0	225P 230P	"
102	1/15	Luce-Skelly	8.5	2.51	.66	2.94	1.7		.6	7	+.01	1150A 1155A	"
103	1/15	" "	16.5	5.83	1.58	3.02	9.2		.6	8	-.01	1220P 1230P	"
104	1/15	" "	1.71	5.08	1.39	3.00	7.1		.6	10	0	1240P 1250P	"
105	1/20	Luce	15.5	4.35	1.06	2.97	4.6		.6	10	0	1150A 1200N	"
106	1/27	"	8.1	2.61	.66	2.91	1.7		.6	9	0	235P 245P	"
107	1/27	Luce	8.1	2.54	.64	2.91	1.6		.6	11	0	245P 255P	FC 39
108	2/1	Luce-Skelly	30.5	21.71	3.59	3.29	78.		.6	13	+.02	743A 752A	"
109	2/1	" "	31.5	22.81	3.40	3.34	78.		.6	12	+.06	754A 807A	"
110	2/1	" "	30.0	23.33	3.67	3.38	86.		.6	11	+.04	810A 825A	"
111	2/1	" "	31.0	23.78	4.04	3.42	96.		.6	13	+.01	830A 850A	"
112	2/1	" "	33.0	24.48	3.95	3.42	97.		.6	14	0	855A 913A	"

F. C. D. FORM 104 1M 9-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 20 R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA WASH

AT ~~MOUTH~~ Stonehurst Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Dif.	METH OD	MEAS SECS NO.	G. HT. CHANGE TOTAL	BEGIN. END	METER NO.
113	2/1	Miller-M.Miller	41.5	12.02	2.63	3.08	32.		.6	12	+.01	340P 400P	FC 35
114	2/3	Miller-Maly	24.0	14.14	2.34	3.06	33.		.6	12	+.01	1110A 1120A	"
115	2/3	Luce-Skelly	39.2	31.54	3.95	3.47	125.		.6	15	+.02	340P 355P	FC 39
116	2/3	" "	46.0	37.37	4.17	3.58	156.		.6	16	+.04	415P 430P	"
117	2/3	" "	49.0	42.58	4.52	3.64	192.		.6	15	+.02	500P 520P	"
118	2/3	" "	50.0	43.21	4.53	3.66	196.		.6	14	+.01	520P 535P	"
119	2/3	" "	48.0	67.15	6.59	4.08	442.		.5	9	-.02	825P 840P	FC 25
120	2/3	" "	48.0	61.28	5.52	3.92	338.		.6	11	-.03	925P 955P	"
121	2/3	" "	48.0	58.86	5.05	3.81	297.		.6	11	-.10	1010P 1040P	FC 39
122	2/4	" "	44.5	31.70	4.08	3.43	129.		.6	14	-.04	1145A 1200N	"
123	2/4	" "	44.0	32.52	3.92	3.40	128.		.6	14	-.02	1205P 1218P	"
124	2/7	Miller-Miller	44.5	25.87	1.93	3.24	50.		.6	17	0	1010A 1030A	FC 35
125	2/9	Luce-Skelly	43.3	25.17	1.83	3.12	46.		.6	14	0	420P 430P	FC 39
126	2/10	" "	38.5	17.39	1.83	3.03	32.		.6	14	0	1130A 1140A	"
127	2/11	Luce-Van Buren	52.0	108.4	6.81	4.49	739.		.6	10	-.06	415P 435P	FC 25
128	2/11	" "	47.0	59.60	6.48	3.88	386.		.6	8	-.04	730P 745P	"
129	2/11	" "	46.0	50.90	5.93	3.64	302.		.6	10	-.04	940P 1000P	"
130	2/12	" "	46.0	43.59	4.06	3.40	177.		.6	12	0	1200N 1220P	FC 39
131	2/12	Luce-Van Buren	45.0	34.75	3.23	3.21	112.		.6	14	0	520P 550P	FC 39
132	2/15	Miller	44.3	34.63	2.62	3.24	91.		.6	17	0	150P 220P	FC 35
133	2/17	Luce	43.5	27.00	2.68	3.14	72.		.6	15	0	1035A 1050A	FC 39
134	2/24	"	37.0	25.23	2.47	3.02	62.		.6	14	0	320 335	"
135	2/24	"	37.0	25.61	2.43	3.02	62.		.6	16	0	340P 355P	"
136	2/27	Luce-Skelly	36.5	22.28	2.19	2.98	49.		.6	17	-.01	230P 240P	"
137	2/28	" "	46.5	43.02	4.59	3.52	198.		.6	10	+.04	1130A 1145A	FC 25
138	2/28	" "	46.0	47.45	4.92	3.58	234.		.6	10	+.03	1200N 1215P	"
139	2/28	" "	46.5	53.90	5.41	3.67	292.		.6	10	+.04	1240P 100P	
140	2/28	" "	49.0	59.37	5.81	3.80	345.		.6	10	+.01	145P 200P	FC 25
141	3/1	" "	57.0	144.8	8.74	5.21	1260.	*	.6	12	+.15 -.05	1250A 110A	"
142	3/1	" "	37.0	84.60	9.04	6.28	764.	** *	.6	8	-.15	325A 340A	"
143	3/1	" "	52.0	84.60	7.03	4.01	594.	**	.6	10	+.12	345A 355A	"
144	3/1	" "	36.9	72.26	8.61	6.20	622.	*	.6	8	0	825A 840A	"
145	3/1	" "	28.0	32.50	5.15	3.44	168.	**	.6	6	0	840A 850A	FC 39
146	3/1	" "	35.0	53.0	8.08	6.15	436.	*	.6	8	-.02	155P 210P	FC 25
147	3/1	" "	28.0	25.3	5.33	3.26	135.		.6	6	+.01	210P 215P	"
148	3/4	" "	160.0	171.2	8.67	2.74	1490.			17		525P 600P	FC 31
149	3/30	" "	41.3	33.75	4.46	2.86	150.		.6	12	0	530P 540P	FC 39
150	4/13	Skelly	30.5	29.40	3.78		111.		.6	14		925A 945A	"
151	4/28	Luce	16.5	13.71	2.03		28.		.6	10		510P 525P	"
152	5/6	"	12.7	9.52	2.13		20.		.6	7		430P 440P	"
153	5/12	"	14.6	9.83	1.87		21.		.6	8		1030A 1040A	"
154	5/19	"	22.0	30.82	3.45		106.		.6	10		905A 925A	"
155	5/26	Luce	14.8	13.80	2.25		31.		.6	8		920A 935A	FC 39
156	6/2	"	15.4	11.37	2.47		28.		.6	8		915A 930A	"
157	6/9	"	16.2	11.65	2.64	1.02	31.		.6	9	0	125P 135P	"
158	6/23	"	15.0	12.28	1.78	.81	22.		.6	8	0	215P 230P	"
159	7/5	"	15.8	9.05	1.51		14.			9		145P 200P	"
160	7/6		23.5	20.57	3.20		66.			9		150P 210P	
161	7/12	Luce	20.2	26.72	3.47		93.		.6	8		1100A 1120A	FC 39
162	7/28	Luce-S. Luce	20.5	18.51	3.20		59.		.6	9		915A 930A	"
163	8/5	Luce	20.0	16.52	2.81		46.		.6	11		815A 830A	"
164	8/11	"	12.0	7.10	1.61		11.		.6	7		415P 425P	"
165	8/18	"	21.5	14.46	1.82		26.		.6	11		255P 310P	"
166	9/1	"	14.0	9.87	1.87		19.		.6	9		1240P 1255P	"
167	9/7	Bollinger-Wood	14.0	9.54	1.73		16.		.6	8		931A 939A	FC 6
168	9/15	Bollinger	12.0	7.70	1.54		12.		.5	8		154P 202P	"

** Measured flow in East Channel only.
* Measured flow in Training Channel only.
To determine total flow in the stream, the discharges of the East Channel and Training Channel must be added.
Prior to 3-1-38 all water was flowing in the Training Channel.
Subsequent to the 3-2-38 storm all water flowed in one channel.
Training Channel levees were washed out.

F. C. Dist. Form 82 1M 3-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F20R

Daily discharge, in second-feet of BIG TUJUNGA WASH at Stonehurst Ave., for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	54	47	141	176	33	16	8.5	17	21
2	0	0	0	46	30	120	160	33	8	9.5	17	22
3	0	0	0	30	20	100	147	34	15	9	17	22
4	0	0	0	15	12	100	131	25	15	8	17	21
5	0	0	0		7	91	120	17	19	8	16	20
6	0	0	0	34	189	57	94	18	19	9	16	19
7	0	0	0	25	292	522	72	23	20	10	17	19
8	0	0	0	24	358	522	73	21	18	10	17	18
9	0	0	0	19	253	588	75	22	22	10	17	18
10	0	0	0	11	132	588	72	20	8	10	17	18
11	0	0	0	14	134	82	66	20	7	10	17	18
12	0	0	0	16	128	141	63	22	6	10	18	18
13	0	0	0	12	397	84	57	22	6	10	18	19
14	0	0	0	19	351	141	48	19	6.5	10	18	18
15	0	0	0	11	446	312	38	8.5	7	10	19	18
16	0	0	0	13	496	373	35	7.5	8.5	11	19	18
17	+7.5	0	0	29	436	420	33		7.5	11	20	18
18	14	0	0	15	388	420	32	15	6	12	20	19
19	6.5	0	0	32	359	420	29	15	6	12	19	19
20	9	0	0	37	304	428	27	15	3.7	12	17	20
21	6.5	0	0	37	317	357	26	21	3.7	12	19	20
22	4.8	0	0	35	240	268	26	23	2.8	12	19	20
23	4.8	0	0	29	176	262	26	23	3.1	13	20	20
24	2.6	0	0	14	122	240	23	23	3.1	13	20	19
25	0.8	0	0	19	122	230	22	23	8	14	20	18
26	0	0	0	15	128	230	22	25	7.5	15	20	19
27	0	0	0	11	131	225	20	25	7.5	16	20	19
28	0	0	0	29		200	20	23	6	16	20	19
29	0	0	0	97		180	33	23	9	17	21	18
30	0	0	0	44		180		23				
31	0		0									
Total	55.2	0	1.8	817	6220	6097	1832	634.0	282.7	352.0	566	571
Mean	1.78	.06	16.4	26.4	222	197	61.1	20.5	9.42	11.4	18.3	19.0
Acre-Feet	109	3.6	1010	1620	12340	12090	3630	1260	561	698	1130	1130

Year Mean 49.8
Acre-Feet 36040

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

F. C. Dist. Form 82 1M 3-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

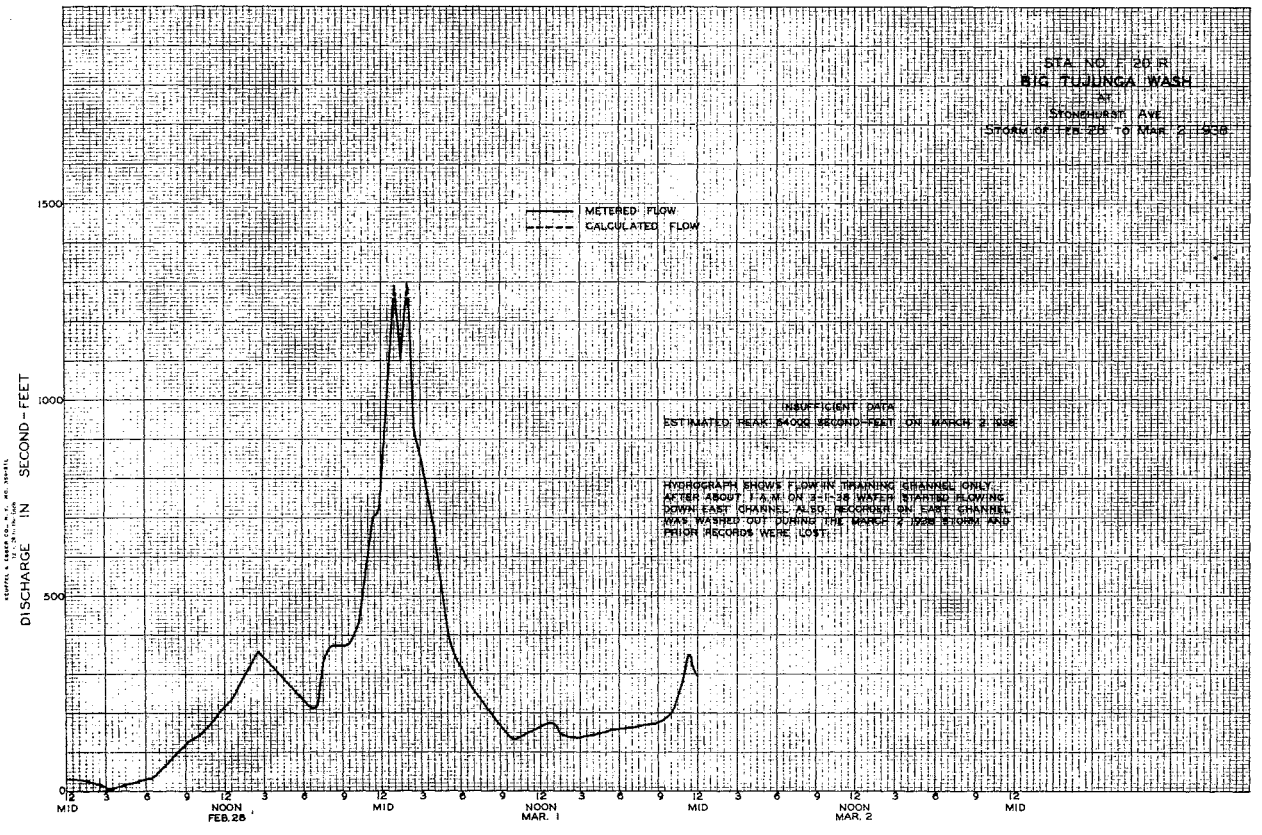
Sta. No. F20R

Daily discharge, in second-feet of BIG TUJUNGA WASH at Stonehurst Ave., for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	7	0.8	1.0	41							
2	18	5	1.0	0.6	24							
3	20	4.2	1.0	0.6	129							
4	20	3.5	0.8	0.6	108							
5	18	3.5	0.4	1.0	69							
6	18	4.2	0.3	0.8	49							
7	17	3.5	0.2	0.4	44							
8	17	3.0	0.6	0.4	47							
9	17	4.2	0.6	0.4	47							
10	22	6	0.6	0.3	36							
11	19	6	3.8	0.4	254							
12	17	5	13.5	0.6	178							
13	17	5.2	3.5	1.6	110							
14	22	4.2	2.6	1.0	81							
15	18	4.2	1.6	5	38							
16	18	3.5	1.6	3.0	61							
17	12	4.2	1.3	3.0	44							
18	13	3.5	1.6	3.0	61							
19	15	3.0	1.6	6	47							
20	13	3.0	1.6	4.2	61							
21	15	2.5	1.0	4.2	61							
22	15	2.5	1.3	3.0	61							
23	15	2.5	1.5	3.0	61							
24	15	2.5	1.5	2.0	66							
25	15	2.5	1.6	2.5	52							
26	15	1.6	5.2	1.6	56							
27	15	5.0	4.2	1.6	211							
28	15	4.2	2.8	1.3								
29	17	3.0	2.0	3.0								
30	17	1.6	2.0	4.2								
31	18.5		1.6	5								
Total	511.5	123.1	69.1	67.0	2228							
Mean	16.5	4.11	2.23	2.16	7.96							
Acre-Feet	1010	244	137	133	4420							

Year Mean 29.5
Acre-Feet 21340

Remarks: NO RECORD-SEE STATION DESCRIPTION



STATION F105R

BIG TUJUNGA - WEST WASH at Magnolia Boulevard

LOCATION:

On the upstream side of Magnolia Boulevard bridge, 2 miles west of North Hollywood.

DRAINAGE AREA:

Indeterminate due to a natural split which divides the Big Tujunga Wash into two branches.

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 an 18 inch diameter corrugated iron pipe stilling well.
A Stevens type L recorder was in service from October 1, 1936 until it was lost in the March 2, 1938 storm.

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 stations.

DIVERSIONS:

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

RECORDS AVAILABLE:

August, 1930 to February 17, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 53 second-feet February 6.
Minimum no flow most of year.
1937-1938
Maximum not determined.
Minimum no flow most of year.
1930-1937
Maximum 145 second-feet January 1, 1934.
Minimum no flow most of each year.

ACCURACY:

Poor.
Gage height estimated for part of day; well sanded, February 6, 7, 1937.
Flow negligible from October 1, 1937 to February 27, 1938.
Station record was lost in March 2, storm. No record from February 1[illegible], to September 30, 1938.

OPERATION:

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 105 R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA - WEST WASH

AT Magnolia Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	BEIN. GB	MEAS. SECR. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	1/30	Bollinger-Koch	21.9	11.48	1.43	5.58	16		.6	8	-.08	850P 900P	FC 6
2	2/6	" "	14.0	10.57	2.76	5.33	29		.6	6	-.02	155P 159P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 105 R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA - WEST WASH

AT Magnolia Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	BEIN. GB	MEAS. SECR. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
3	2/11	Bollinger-Koch	16.0	9.00	2.79	5.22	25		.6	7	-.05	446P 451P	FC 6
4	3/2[illegible]	" "	39.5	23.02	3.82	5.85	88		.6	9	-.10	1028A 1036A	"

F. C. Dist. Form 52 150 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

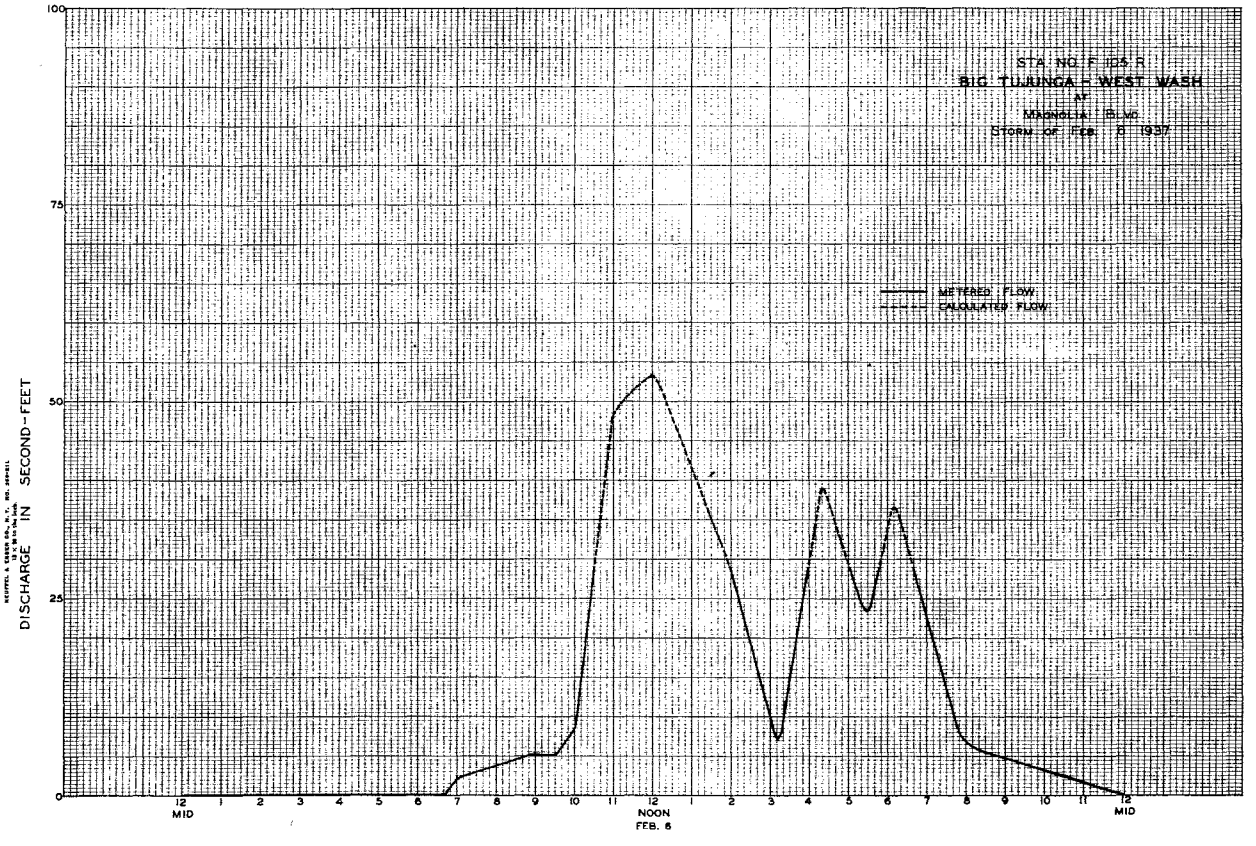
Sta. No. F105R

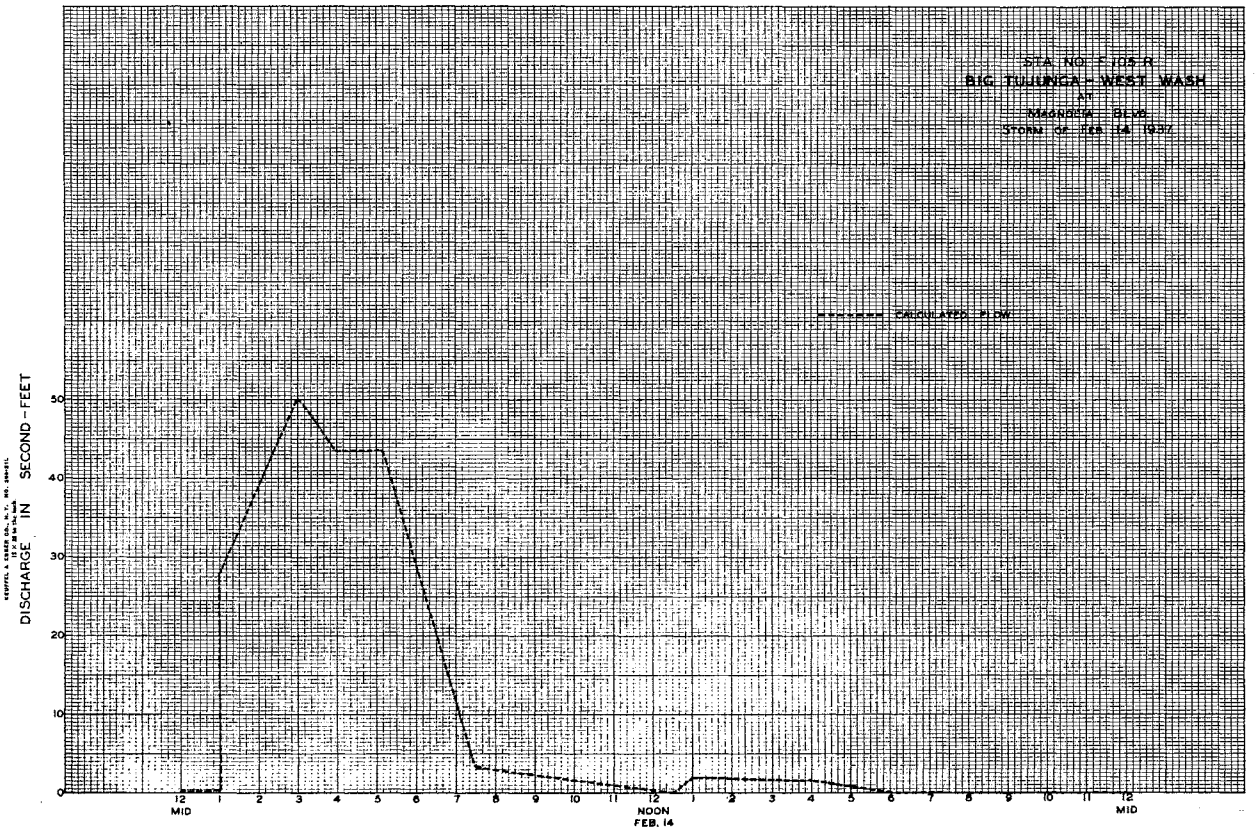
Daily discharge, in second-feet of BIG TUJUNGA - WEST WASH at Magnolia Blvd., for the year ending September 30, 1937

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	14	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	0.2	0	0	0	0	0	0	0
14	0	0	0	0	10	0	0	0	0	0	0	0
15	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
30	0	0	0	1.6		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	1.6	24.2	+	0	0	0	0	0	0
MEAN	0	0	0	.05	.86	+	0	0	0	0	0	0
ACRE-FEET	0	0	0	3.2	48	+	0	0	0	0	0	0

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

YEAR OR PERIOD MEAN .071
ACRE-FEET 51.2





STATION F106R

BIG TUJUNGA - EAST WASH at Magnolia Boulevard

LOCATION:

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

DRAINAGE AREA:

Indeterminate due to a natural split which divides the Big Tujunga Wash into two branches.

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 an 18 inch diameter, corrugated iron pipe stilling well.
Recorder was removed March, 1936 due to bridge being rebuilt.
Recorder was reinstalled August 20, 1936.
A Stevens type L recorder was in service from October 1, 1936 to January 21, 1938.
An H.C.F. continuous recorder was in service from January 24, 1938 until it was removed before the bridge washed out on the afternoon of March 2, 1938.

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 March 2, 1938.
See Sta. F106B-R for the period from March 20, 1936 to July 29, 1936.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 681 second-feet February 6.
Minimum no flow most of year.
1937-1938
Maximum not determined.
Minimum no flow most of year.
1930-1937 (station F106R and F106B-R)
Maximum 3110 second-feet January 1, 1934.
Minimum no flow most of each year.

ACCURACY:

Poor.
Well sanded part of day: December 27, 28, 31, 1936; January 1, February 6, 7, 14-18, 22-25, March 13, 1937; February 4, 11, 12, March 1, 1938.
Clock stopped for part of day March 12, 22, 1937.
No record March 3 to September 30, 1938.

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 R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA - EAST WASH

AT Magnolia Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	12/27	Bollinger-Koch	71.0	45.90	4.70	5.24	216		.6	7	+.12	1115A 1120A	FC 6
2	12/28	" "	18.0	3.55	2.02	4.30	7.2		.6	6	+.10	313A 318A	"
3	12/30	" "	6.5	1.17	1.64	4.07	1.9		.6	4	0	1020P 1225P	"
4	12/31	" "	58.	63.90	5.32	5.25	340		.6	8	0	332A 352A	"
5	1/30	" "	40.5	17.57	3.30	4.58	58		.6	8	+.07	816P 825P	"
6	2/6	" "	50.	33.83	4.02	4.90	136		.6	10	0	122P 130P	"
7	2/6	" "	61.0	78.75	6.41	5.75	505		.3	10	-.10	707P 730P	"
8	2/7	" "	34.5	13.82	2.84	4.56	39		.6	12	0	130P 138P	"
9	2/8	Luce-Paul	22.8	9.44	2.11	4.66	20		.6	10	+.01	232P 242P	FC 13
10	2/9	Bollinger	19.5	6.15	2.26	4.77	14		.6	7	-.02	1007A 1013A	FC 6
11	2/13	Bollinger-Koch	31.0	8.64	2.21	4.89	19		.6	6	+.03	920P 928P	"
12	2/14	" "	58.5	32.66	4.07	4.90	133		.6	12	0	907A 915A	"
13	2/15	Bollinger	44.0	19.37	3.13	4.97	61		.6	14	+.02	156P 213P	"
14	2/18	"	46.5	11.67	2.20	5.15	26		.6	12	-.02	440P 454P	"
15	3/13	Bollinger-Koch	47.5	18.18	3.07	5.45	56		.6	15	+.08	941A 952A	"
16	3/16	" "	63.5	24.43	3.14	5.45	77		.6	13	+.10	125A 139A	"
17	3/18	Bollinger	11.5	4.12	2.33	5.21	9.6		.6	6	0	412P 418P	"
18	3/22	Bollinger-Koch	45.5	21.99	3.89	5.51	80		.6	14	-.08	945A 955A	"

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 106 R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA - EAST WASH

AT Magnolia Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 39

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.	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
19	2/3	Bollinger-Koch	Two	Channels		5.24	24		.6	11	0	730P 742P	FC 6
20	2/9	" "	3.7	.93	.85	4.75	0.80		.6	4	0	855A 859A	"
21	2/11	" "	3.2	.70	1.57	4.58	1.1		.6	4	-.01	1041A 1044A	"
22	2/11	" "	59.0	68.55	5.20	5.75	356		.6	10	+.10	345P 402P	"
23	2/12	" "	7.5	3.59	3.21	4.54	12		.6	6	0	741A 746A	"
24	2/17	Bollinger	3.3	0.42	1.4	4.50	0.60		F1	3	-.01	1150A 1154A	
25	2/23	"	1.8	0.13	1.54	4.48	0.20		F1	2	0	1038A 1040A	
26	2/27	Bollinger-Koch	8.8	2.52	2.36	4.58	6.0		.6	6	0	1230P 1236P	FC 6
27	2/28	" "	7.2	6.32	3.80	4.70	24		.6	5	-.01	113P 122P	"
28	2/28	" "	29.5	10.97	3.04	4.73	33		.6	9	-.02	537P 545P	"
29	3/1	" "	53.0	125.2	5.79	5.55	725		.6	8	-.10	513A 535A	"
30	3/1	" "	Two	Channels		4.60	296		.6	9	0	120P 135P	"
31	3/2	" "	68.0	170.2	6.34	6.80	1420		.3	10	0	645A 730A	"
32	9/7	Bollinger-Wood	11.0	3.42	2.13		7.3		.6	7		350P 400P	"
33	9/15	Bollinger	10.3	2.54	1.74		4.4			7		1147A 1155A	

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 36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	72	719						
2	0	0	0	0	+							
3	0	0	0	0	19							
4	0	0	0	0	07							
5	0	0	0	+	+							
6	0	0	0	0	+							
7	0	0	0	0	+							
8	0	0	0	0	+							
9	0	0	0	0	+							
10	0	0	0	0	04							
11	0	0	+	0	09							
12	0	0	0	0	102							
13	0	0	0	0	7							
14	0	0	0	0	+							
15	0	0	0	+	+							
16	0	0	0	0	+							
17	0	0	0	0	04							
18	0	0	0	0	+							
19	0	0	0	+	+							
20	0	0	0	0	+							
21	0	0	0	NO	+							
22	0	0	+	RECORD	+							
23	0	0	0		+							
24	0	0	0		+							
25	0	0	0	0	+							
26	0	0	+	0	+							
27	0	0	0	0	16							
28	0	0	0	0	129							
29	0	0	0	0								
30	0	0	0	0								
31	0	0	0	24		719						
	0	0	+	24	3534 (Mar.1)							
Mean	0	0	+		11.9							
Acre-Feet	0	0	+	45	661	1430						

Year or Period — Mean — Acre-Feet 2140 Ann.

Remarks: + indicates discharge 0.05 sec. ft. or less
Total acre-feet for year does not include discharge between 1/20 and 1/25 nor between 3/1 and 9/30.

F. C. Dist. Form 12 150 4-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F106R

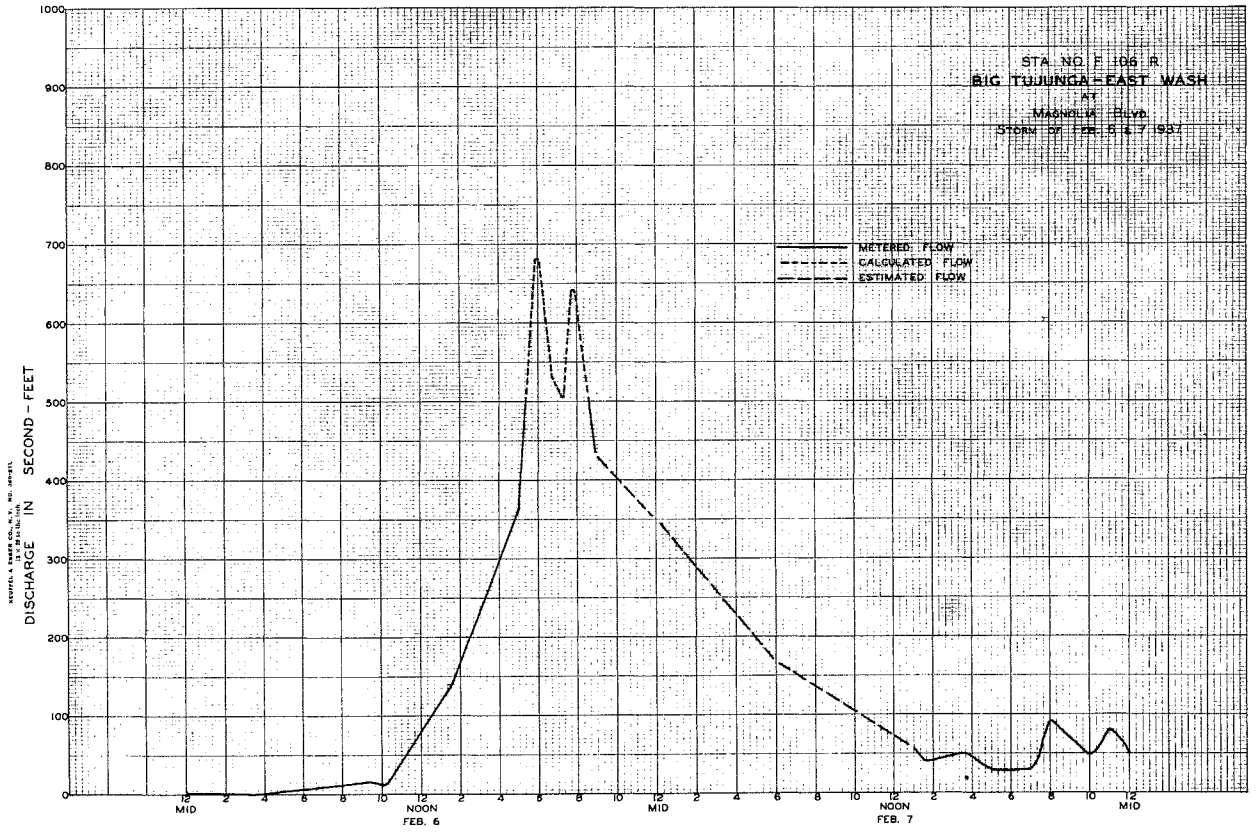
Daily discharge, in second-feet of BIG TUJUNGA - EAST WASH at Magnolia Blvd. for the year ending September 30, 19 37

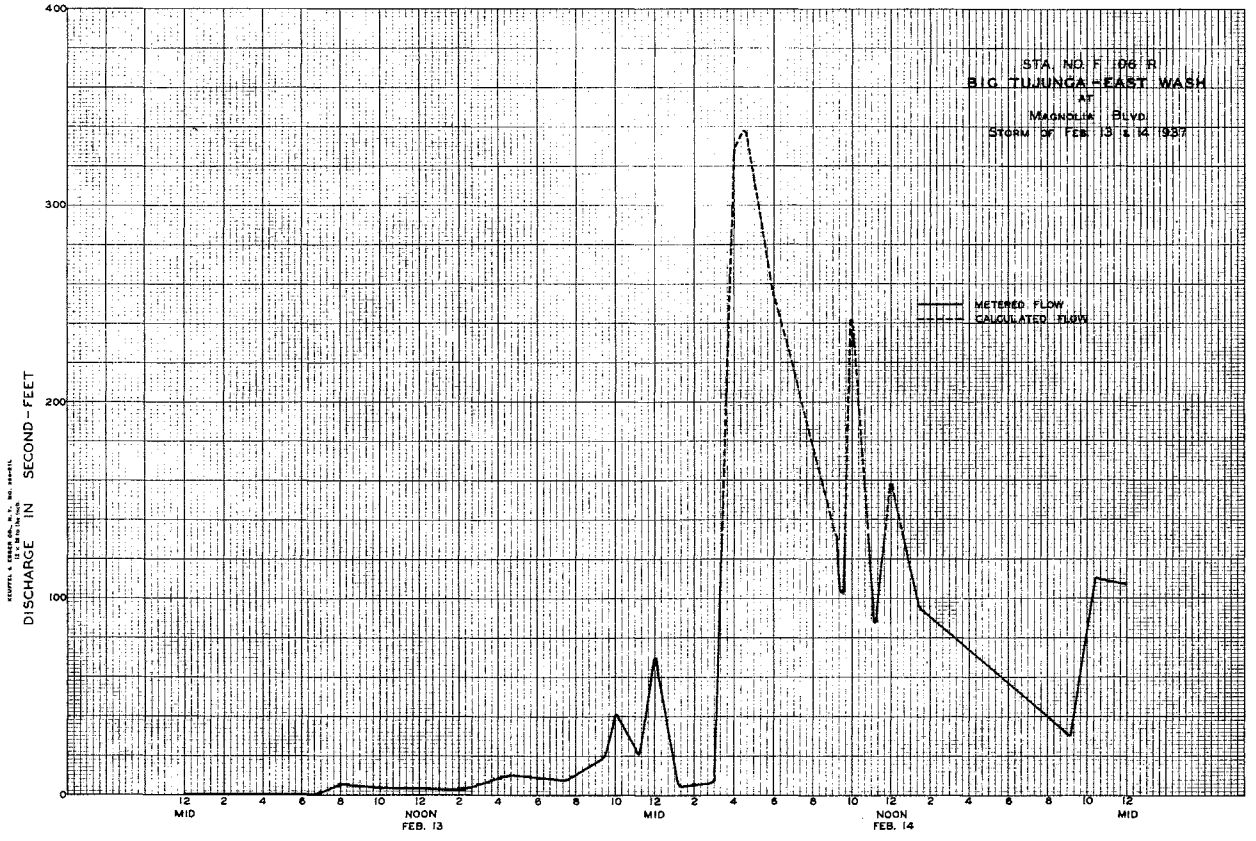
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	02	0	0	0	0	0	0
2	+	0	0	0	0	+	0	0	0	0	0	0
3	0	0	0	0	0	+	0	0	0	0	0	0
4	0	0	0	0	04	+	0	0	0	0	0	0
5	0	0	0	0	+	0	0	0	0	0	0	0
6	0	0	0	2	190	0	0	0	0	0	0	0
7	0	0	0	0	121	0	0	0	0	0	0	0
8	0	0	0	0	46	0	0	0	0	0	0	0
9	0	0	0	0	17	0	0	0	0	0	0	0
10	0	0	0	0	9	0	0	0	0	0	0	0
11	0	0	0	0	20	0	0	0	0	0	0	0
12	0	0	0	+	11	23	0	0	0	0	0	0
13	0	0	0	0	8	18	0	0	0	0	0	0
14	0	0	0	0	116	0	0	0	0	0	0	0
15	0	0	13	0	110	20	0	0	0	0	0	0
16	0	0	9	0	86	38	0	0	0	0	0	0
17	+	0	0	0	56	21	0	0	0	0	0	0
18	+	0	0	0	33	11	0	0	0	0	0	0
19	+	0	0	0	32	27	0	0	0	0	0	0
20	0	0	0	0	42	75	0	0	0	0	0	0
21	+	0	0	0	24	107	0	0	0	0	0	0
22	+	0	0	0	14	47	0	0	0	0	0	0
23	+	0	0	0	8	21	0	0	0	0	0	0
24	+	0	0	0	37	19	0	0	0	0	0	0
25	+	0	0	0	05	13	0	0	0	0	0	0
26	0	0	35	0	02	0	0	0	0	0	0	0
27	0	0	0	0	05	0	0	0	0	0	0	0
28	0	0	42	0	01	0	0	0	0	0	0	0
29	0	0	9	+		0	0	0	0	0	0	0
30	0	0	10	+		0	0	0	0	0	0	0
31	+	0	11	12		0		0		0	0	0
	+	0	236	168	925.2	1913	0	0	0	0	0	0
Mean	+	0	7.61	5.4	33.0	61.7	0	0	0	0	0	0
Acre-Feet	+	0	469	33	1840	379	0	0	0	0	0	0

Year or Period — Mean — Acre-Feet 3.75 — 2720

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

F. C. Dist. Form 12 150 4-38


STA. NO. F 106 R
BIG TUJUNGA - EAST WASH
AT
MAGNOLIA BLVD.
STORM OF FEB. 6 & 7 1937
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND-FEET
1000
900
800
700
600
500
400
300
200
100
0
12 MID
2
4
6
8
10
12 NOON
FEB. 6
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON
FEB. 7
2
4
6
8
10
12 MID


STA. NO. F 106 R
BIG TUJUNGA - EAST WASH
AT
MAGNOLIA BLVD.
STORM OF FEB. 13 & 14 1937
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
400
300
200
100
0
12 MID
2
4
6
8
10
12 NOON
FEB. 13
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON
FEB. 14
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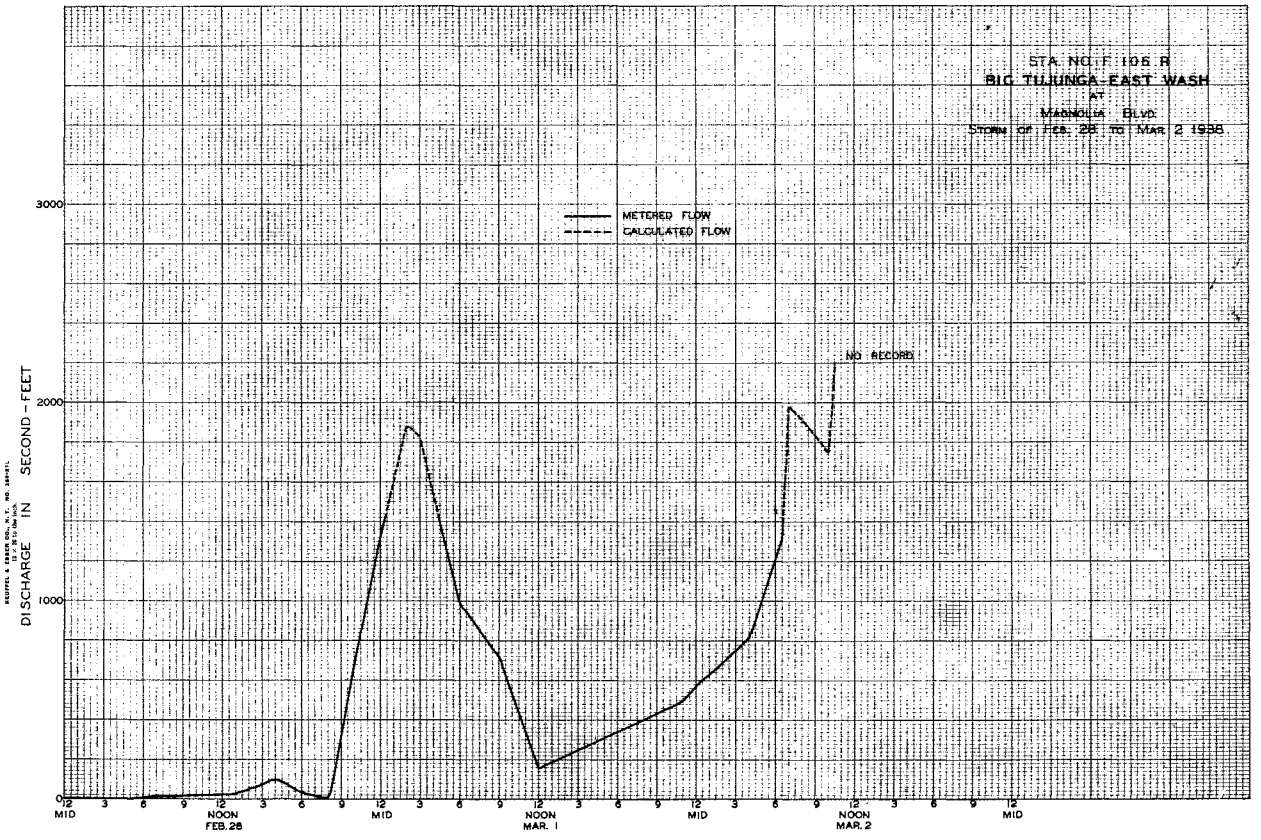
6
8
10
12 MID



STATION F2R

BIG CANYON WASH at Devonshire Avenue, Chatsworth

LOCATION:

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

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.
At approximately gage height 2.5 water overflows natural channel 100 feet above upstream end of 225 feet culvert and by-passes the station.

RECORDER:

Installed December 11, 1928 in a box type house over an 18 inch diameter, corrugated iron pipe stilling well.
Recorder removed August 27, 1932.
Recorder reinstalled October 2, 1935.
Vertical Rational recorder was in service from October 1, 1936, to September 30, 1938.

REGULATION AND OR DIVERSIONS:

Twin Lakes Dams.

RECORDS AVAILABLE:

December 11, 1928 to August 27, 1932 and from October 2, 1935 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 140 second-feet February 14.
Minimum no flow most of year.
1937-1938
Maximum 1100 second-feet, estimated, March 2.
Minimum no flow most of year.
1929-1932, 1936-1938
Maximum 1100 second-feet, estimated, March 2, 1938.
Minimum no flow most of each year.
(The March 2, 1938 maximum does not include any overflow which by-passed the station).

ACCURACY:

Poor.
Stilling well sanded; gage height estimated March 4 to 11, May 3, 4, 5, 6, 1938.
Recorder out of order; interpolated between measurements March 18 to April 8, 1938.
No recorder record February 14-25, 1938.

OPERATION:

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 2 R

DISCHARGE MEASUREMENTS OF BROWN CANYON CREEK

AT Devonshire Ave., Chatsworth DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATED POINT DIF.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	2/6	Miller-Barclay	.0	.75	1.05	0.14	0.80		.6	6	-.01	1015A 1025A	FC 35
2	2/6	Luce-Paul	36.0	20.01	5.40	0.27	108.		.6	19	0	945P 1000P	FC 13
3	2/6	" "	36.0	20.01	4.74	0.27	95.		.6	18	0	1020P 1030P	"
4	2/7	" "	12.0	7.03	1.54	0.22	11.		.6	7	0	235P 242P	"
5	2/13	" "	13.5	3.13	2.30	0.18	7.2		.6	9	0	815P 823P	"
6	2/14	" "	34.0	24.10	3.77	0.38	91.		.6	10	-.05	1125A 1133A	"
7	2/14	" "	32.5	21.85	3.64	0.34	80.		.6	10	-.01	1205P 1215P	"
8	2/15	Paul	23.8	8.75	1.68		15.		.6	13		208P 227P	"
9	2/16	Luce	10.5	2.20	1.00	0.05	2.2		.6	6	0	405P 410P	"
10	3/16	Miller-Barclay	13.0	4.94	1.49	0.03	7.4		.6	7	0	430A 440A	FC 35
11	3/16	" "	13.0	4.88	1.46	0.06	7.1		.6	7	0	450A 500A	"
12	3/22	Miller	11.50	7.08	2.12	0.09	15.		.6	11	0	930A 945A	"
13	3/22	"	11.5	6.64	2.04	0.09	14.		.6	7	0	1000A 1015A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 2 R

DISCHARGE MEASUREMENTS OF BROWN CANYON CREEK

AT Devonshire Ave., Chatsworth DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATED POINT DIF.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
14	2/28	Miller	8.8	4.27	2.03	0.12	8.7		.6	9	0	130P 150P	FC 35
15	2/28	"	14.3	2.66	2.17	0.12	5.8		.6	12	0	150P 210P	"
16	3/1	Miller-Trumbo	30.5	27.05	3.17	0.60	86.		.6	12	-.10	425A 450A	"
17	3/1	" "	29.2	21.76	3.00	0.33	65.		.6	11	-.06	520A 540A	"
18	3/1	" "	28.6	18.69	2.76	0.26	52.		.6	12	-.01	630A 640A	"
19	3/2	" "	36.0	52.31	5.65	1.30	296.		.6	13	-.10	950P 1015P	"
20	3/11	Miller-C. Miller	5.3	0.53	1.51	0.08	0.80		.6	6	0	130P 140P	"
21	3/12	Miller-M. Miller	12.0	5.48	2.37	0.18	13.		.6	7	0	820A 840A	"
22	3/12	" "	13.3	6.13	2.70	0.20	17.		.6	10	-.01	915A 930A	"
23	3/17	Miller-C. Miller	9.3	1.70	1.56	0.10	2.6		.6	9	0	1035A 1055A	"
24	4/8	Luce-Skelly	4.0	0.71	0.75	0.12	0.55		.6	5	0	1125A 1130A	FC 39
25	5/6	Luce	2.0	0.22	0.32	0.08	0.07		.6	2		1030A 1035A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F2R

Daily discharge, in second-feet of BROWN CANYON WASH at Devonshire Ave., Chatsworth for the year ending September 30, 1937

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
6	0	0	0	0	4.5	0	0	0	0	0	0	0
7	0	0	0	0	1.5	0	0	0	0	0	0	0
8	0	0	0	0	6.0	0	0	0	0	0	0	0
9	0	0	0	0	4.0	0	0	0	0	0	0	0
10	0	0	0	0	0.1	0	0	0	0	0	0	0
11	0	0	0	0	0.5	0	0	0	0	0	0	0
12	0	0	0	0	8.5	0	0	0	0	0	0	0
13	0	0	0	0	2.5	+	0	0	0	0	0	0
14	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	2.7	0	0	0	0	0	0
17	0	0	0	0	0	7.5	0	0	0	0	0	0
18	0	0	0	0	0	5.4	0	0	0	0	0	0
19	0	0	0	0	0	4.2	0	0	0	0	0	0
20	0	0	0	0	0	1.0	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	7.5	0	0	0	0	0	0
23	0	0	0	0	0	5.4	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	0.2	0	0	0	0	0	0	0	0
29	0	0	0	1.3	0	0	0	0	0	0	0	0
30	0	0	0	0.3	0	0	0	0	0	0	0	0
31	0		0		0	0	0	0		0	0	
Mean	0	0	0	.06	6.94	.82	0	0	0	0	0	0
Acre-Feet	0	0	0	3.6	385	50	0	0	0	0	0	0
					1947	253	0	0	0	0	0	0

Year or Period: Mean 606 Acre-Feet 439

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

P. C. Dist. Form 52 100 838

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F2R

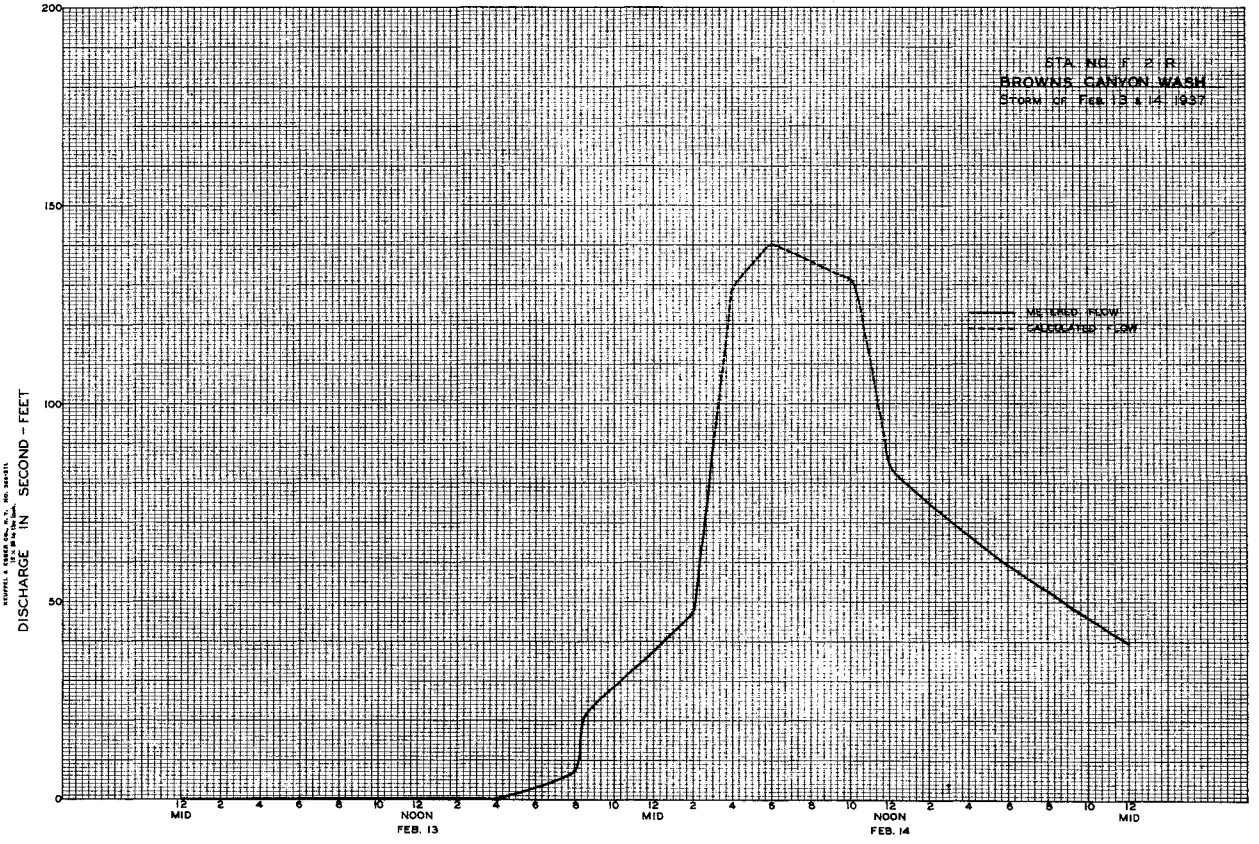
Daily discharge, in second-feet of BROWN CANYON WASH at Devonshire Ave., Chatsworth for the year ending September 30, 1938

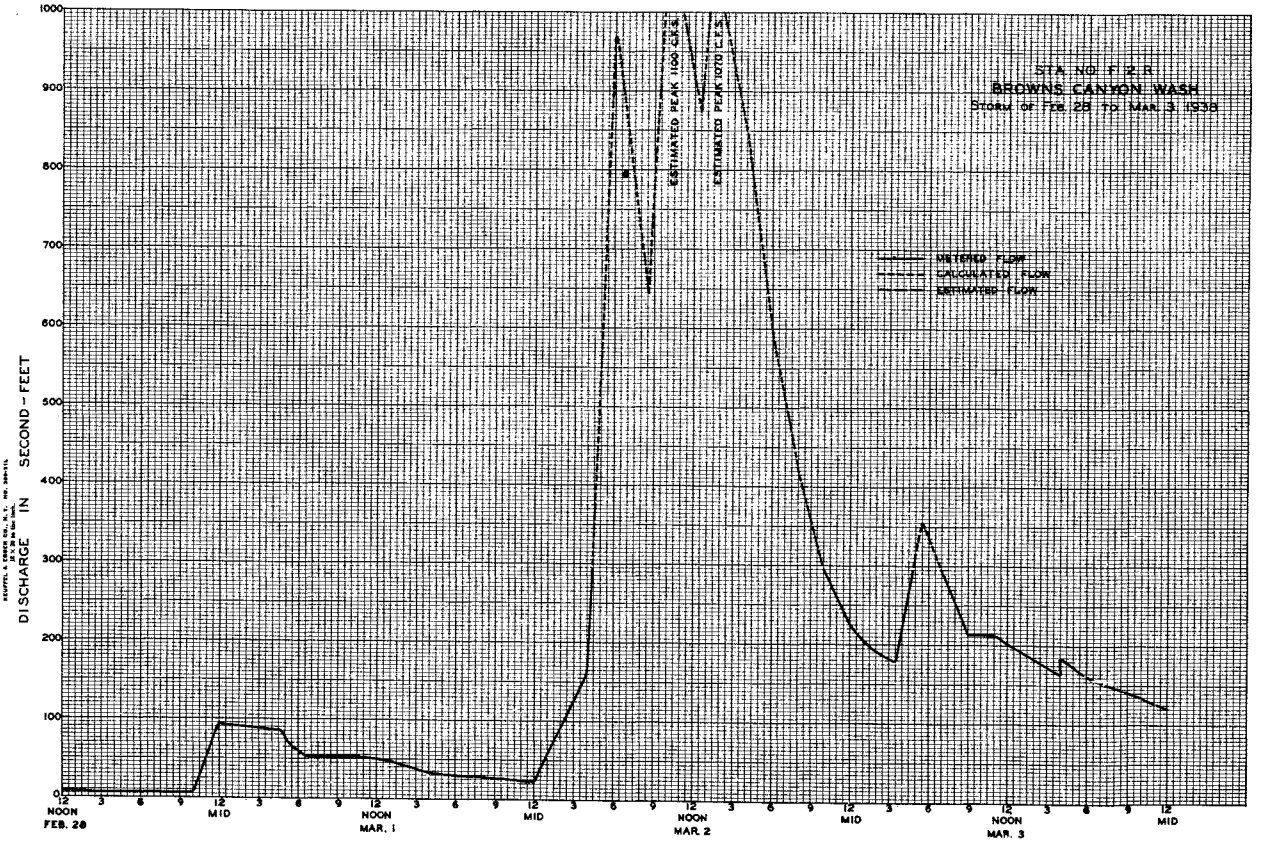
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	51	12	0.5	0	0	0	0
2	0	0	0	0	+	595	11	+	0	0	0	0
3	0	0	0	0	0	199	10	0	0	0	0	0
4	0	0	0	0	+	70	09	0	0	0	0	0
5	0	0	0	0	0	18	08	0	0	0	0	0
6	0	0	0	0	0	8.0	07	+	0	0	0	0
7	0	0	0	0	+	3.0	06	+	0	0	0	0
8	0	0	0	0	+	1.7	06	0	0	0	0	0
9	0	0	0	0	0	1.1	06	0	0	0	0	0
10	0	0	0	0	0	0.8	06	0	0	0	0	0
11	0	0	0	0	1.7	26.	0	0	0	0	0	0
12	0	0	0	0	0.8	7	+	0	0	0	0	0
13	0	0	0	0	+	8	+	0	0	0	0	0
14	0	0	0	0	0	7	0	0	0	0	0	0
15	0	0	0	0	0	6	0	0	0	0	0	0
16	0	0	0	0	0	3.0	0	0	0	0	0	0
17	0	0	0	0	0	2.5	0	0	0	0	0	0
18	0	0	0	0	0	2.4	0	0	0	0	0	0
19	0	0	0	0	0	2.3	0	0	0	0	0	0
20	0	0	0	0	0	2.2	0	0	0	0	0	0
21	0	0	0	0	0	2.1	0	0	0	0	0	0
22	0	0	0	0	0	2.0	0	0	0	0	0	0
23	0	0	0	0	0	1.8	+	0	0	0	0	0
24	0	0	0	0	0	1.7	0	+	0	0	0	0
25	0	0	0	0	0	1.6	+	+	0	0	0	0
26	0	0	0	0	0	1.5	+	0	0	0	0	0
27	0	0	0	0	0	1.4	0	0	0	0	0	0
28	0	0	0	0	+	1.3	4	0	0	0	0	0
29	0	0	0	0	9		7.5	0.5	0	0	0	0
30	0	0	0	0		26.8			0	0	0	0
31	0		0			1032.8				0	0	
Mean	0	0	0	+	96	33.3	.24	.02	0	0	0	0
Acre-Feet	0	0	0	+	53	2050	14	1.0	0	0	0	0

Year or Period: Mean 2.92 Acre-Feet 2120

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

P. C. Dist. Form 52 100 838


STA NO F 2 R
BROWNS CANYON WASH
STORM OF FEB 13 & 14 1937
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND - FEET
0
50
100
150
200
12 MID
2
4
6
8
10
12 NOON
FEB. 13
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON
FEB. 14
12 MID


STA NO F 2 R
BROWNS CANYON WASH
STORM OF FEB 28 TO MAR 3 1938
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
ESTIMATED PEAK 1100 C.F.S.
ESTIMATED PEAK 1070 C.F.S.
DISCHARGE IN SECOND - FEET
0
100
200
300
400
500
600
700
800
900
1000
12 NOON
FEB. 28
3
6
9
12 MID
3
6
9
12 NOON
MAR. 1
3
6
9
12 MID
3
6
9
12 NOON
MAR. 2
3
6
9
12 MID
3
6
9
12 NOON
MAR. 3
3
6
9
12 MID

STATION F37R

COMPTON CREEK at Rosecrans Avenue

LOCATION:

Attached to the east (left) wing wall on the downstream side of the Cressey Street bridge 400 feet upstream from Rosecrans Avenue, and approximately 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 Cressey Street bridge.

RECORDER:

Installed January 22, 1928 in a box type house over an 18 inch diameter, corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1936 until June 9, 1938 when it was removed due to the U.S. Engineer Department constructing a new concrete channel.

REGULATIONS:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 22, 1928 to June 9, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 1220 second-feet February 6.
Minimum no flow at various times.
1937-1938
Maximum not determined, overflowed banks March 2.
Minimum no flow at various times.
January 22, 1928 to June 9, 1938.
Maximum not determined, overflowed banks March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Good.
Estimated: February 6, 18, 1937; February 3, 4, 9, 12-15, 28, March 1, 2, April 5, 1938.
Interpolated: March 14, 15, 1938.
Clock stopped: May 17-26, July 26 to August 5, 1937.
No record: December 31, 1936; January 1, 2, March 10-12, August 30, 31, September 1, 1937; June 10 to September 30, 1938.

OPERATION:

Located and conetructed 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.

F. C. D. FORM 104 IR 8-38

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 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING POINT BY	METH OD	MEAS REC'S NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Bonadiman	7.0	5.28	.92	2.07	4.9		.6	4	0	936A 942A	FC 9
2	10/8	"	6.5	5.28	1.00	2.90	5.3		.6	4	+.01	900A 907A	"
3	10/15	"	7.0	5.66	1.02	2.94	5.8		.6	4	0	1143A 1148A	"
4	10/17	"	8.	7.76	1.29	3.18	10.		.6	5	+.01	720A 725A	"
5	10/18	"	34.	32.43	1.40	4.02	45.		.6	9	+.14	842P 856P	"
6	10/22	"	7.	5.44	1.13	2.84	6.2		.6	5	0	925A 931A	"
7	10/29	"	7.	5.07	1.14	2.78	5.6		.6	4	0	908A 915A	"
8	10/31	"	37.	45.36	1.9	4.24	81.		.6	8	-.12	743A 757A	"
9	11/5	"	6.5	4.60	.69	2.73	3.2		.6	3	0	923A 926A	"
10	11/12	"	7.	5.20	1.00	2.73	5.2		.6	4	0	904A 910A	"
11	11/19	"	7.	5.43	1.18	2.74	6.4		.6	4	0	905A 911A	"
12	11/25	"	7.	5.26	1.00	2.74	5.3		.6	4	0	850A 856A	"
13	12/3	"	7.	5.44	1.11	2.75	6.1		.6	4	0	904A 910A	"
14	12/10	"	7.	5.06	1.08	2.74	5.5		.6	5	+.01	900A 906A	"
15	12/14	U.S.E.D.	48.	119.8	2.50	6.03	299.		.6	14	+.42	936P 1022P	35619
16	12/14	Bonadiman-Lind	43.	119.8	3.10	6.24	371.		.6	8	+.12	1015P 1025P	FC 9
17	12/14	U.S.E.D.	45.	133.2	2.80	6.32	372.		.6	14	+.01	1044P 1122P	35619
19	12/15	"	41.	105.1	2.44	5.80	256.		.6	14	-.32	1214 1238A	"
20	12/15	"	40.	94.05	2.22	5.46	209.		.6	15	-.04	119A 148A	"
21	12/15	"	37.	60.20	1.79	4.60	108.		.6	14	-.12	402A 425A	"
22	12/15	"	34.	29.45	1.88	3.94	56.		.6	13	+.08	700A 720A	"
23	12/15	"	39.	73.70	2.05	4.94	151.		.6	14	+.18	756A 816A	"
23A	12/15	Bonadiman-Lind	40.	79.88	2.29	5.03	170.		.6	11	-.02	833A 850A	FC 9
24	12/15	U.S.E.D.	38.	68.15	1.84	4.68	106.		.6	13	-.16	1002A 1024A	35619
25	12/15	U.S.E.D.	37.	47.45	1.67	4.35	79.		.6	14	+.06	1207P 1231P	35619
26	12/15	"	36.	40.40	1.56	4.15	63.		.6	12	0	250P 317P	"
27	12/15	"	38.1	69.49	2.36	4.99	164.		.6	14	-.01	448P 509P	"
28	12/15	"	38.3	61.03	2.30	4.86	141.		.6	13	-.24	514P 535P	"
29	12/16	Bonadiman-Lind	8.5	7.08	1.19	2.86	8.4		.6	5	0	1106A 1110A	FC 9
30	12/23	Bonadiman	7.0	5.16	1.01	2.75	5.2		.6	4	0	1002A 1013A	"
31	12/25	Bonadiman-Lind	36.	38.28	1.58	4.08	60.		.6	10	+.04	734A 742A	"
32	12/26	" "	1.0	.19	.89	1.98	.17		.6	2	0	1030A 1032A	"
33	12/27	" "	45.	151.8	2.88	6.80	438.		.6	10	-.37	1007A 1022A	"
34	12/27	U.S.E.D.	41.	102.9	2.50	5.70	257.		.6	14	-.41	1103A 1125A	35619
35	12/27	"	39.	65.30	2.05	4.92	134.		.6	12	-.29	1201P 1223P	"
36	12/27	"	37.	42.10	1.90	4.26	80.		.6	13	-.12	119P 136P	"
37	12/27	"	40.5	103.2	3.15	5.36	325.		.6	14	+2.73	954P 1032P	"
38	12/27	"	46.5	175.4	3.40	7.22	597.		.6	15	+.88	1028P 1112P	"
39	12/27	"	49.	173.0	3.09	7.30	535.		.6	15	-.56	1134P 1156P	"
40	12/28	"	42.	109.9	3.02	5.98	331.		.6	15	-.23	1240A 101A	"
41	12/28	Bonadiman-Lind	44.	146.6	3.11	6.61	456.		.6	10	+.03	150A 200A	FC 9
42	12/29	" "	8.	6.01	1.16	2.74	7.0		.6	6	0	1127A 1130A	"
43	12/30	U.S.E.D.	48.	238.3	3.36	8.80	801.		.6	15	0	1035P 1120P	35619
44	12/30	"	48.	223.4	3.38	8.50	755.		.6	16	-.20	1140P 1200M	"
45	12/31	"	48.	229.2	3.32	8.55	762.		.6	16	-.50	1240A 110A	"
46	12/31	"	39.	78.36	2.07	5.12	162.		.6	13	-.35	330A 350A	"
47	12/31	Bonadiman-Lind	37.	43.95	3.04	4.26	134.		.6	9	+.02	1040A 1048A	FC 9
48	1/5	U.S.E.D.	41.	116.2	2.60	5.87	302.		.6	14	+.26	845P 903P	35619

F. C. D. FORM 104 IN 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 37 R

DISCHARGE MEASUREMENTS OF COMPTON CREEK

AT ~~XXXX~~ Rosecrans Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor (M)	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
49	1/5	U.S.E.D.	40.5	104.4	2.40	5.75	251.		.6	14	-.39	648P 709P	55619
50	1/5	"	38.	84.40	2.04	5.25	172.		.6	14	-.30	9:0P 1010P	"
51	1/5	"	36.	53.80	2.00	4.49	108.		.6	13	-.10	1115P 1153P	"
52	1/6	Bonadiman-Lind	32.	29.90	1.66	3.88	50.		.6	6	0	850A 940A	FC 9
53	1/6	" "	39.	67.65	2.29	4.86	153.		.6	10	-.12	913A 957A	"
54	1/7	Bonadiman	6.	4.61	.80	2.02	3.7		.6	5	0	325P 330P	"
55	1/12	"	37.	43.11	1.87	4.37	90.		.6	11	-.03	1135A 1150A	"
56	1/12	Bonadiman-Lind	37.	43.50	1.73	4.25	75.		.6	10	-.03	915P 925P	"
57	1/13	Bonadiman	6.	3.62	.87	2.46	3.2		.6	4	0	241P 248P	"
58	1/26	"	4.5	1.56	.30	2.06	.47		.6	3	0	910A 914A	"
59	1/29	"	34.	36.80	1.76	4.04	65.		.6	10	-.03	720A 730A	"
60	1/30	Bonadiman-Lind	40.	90.60	2.59	5.55	235.		.6	11	-.30	710P 720P	"
61	1/31	" "	5.	1.80	0.30	2.10	.50		.6	4	-.01	1045A 1050A	"
62	2/6	" "	39.	90.2	2.61	5.42	235.		.6	10	-.20	350A 400A	"
63	2/6	U.S.E.D.	52.	300.3	4.06	9.14	1220.		.6	14	+.02	1012A 1057A	55619
64	2/5	"	52.	270.0	3.75	8.90	1010.		.6	14	+.20	132P 155P	"
65	2/6	"	49.	204.0	3.68	7.91	751.		.6	13	-.18	541P 551P	"
66	2/6	"	41.	119.3	2.61	6.00	301.		.6	13	-.26	933P 9.7P	"
67	2/7	Bonadiman-Lind	7.	1.56	1.15	2.70	6.4		.6	4	-.01	1220P 1234P	FC 9
68	2/11	Bonadiman	2.5	.43	.37	1.86	.2		.6	2	0	845A 847A	"
69	2/13	U.S.E.D.	49.	220.8	3.54	8.37	804.		.6	15	0	641P 710P	55619
70	2/15	"	52.	249.5	3.78	8.45	942.		.6	17	+.00	8255 8 1P	"
71	2/15	"	52.	274.0	3.90	8.96	1040		.6	16	-.07	1111P 1126P	"
72	2/14	U.S.E.D.	49.	220.8	3.44	8.25	778.		.6	15	-.30	706A 728A	35619
73	2/14	"	38.	70.60	2.14	4.98	104.		.6	13	-.11	1116A 1130A	"
74	2/14	Bonadiman-Lind	38.	53.8	2.04	4.47	110.		.6	9	-.02	125P 135P	FC 9
75	2/15	U.S.E.D.	54.	274.5	3.71	8.86	1020.		.6	15	-.04	907P 926P	35619
76	2/25	Bonadiman	11.	11.95	1.73	3.36	21.		.6	4	-.04	820A 847A	FC 9
78	3/13	"	37.	49.90	1.77	4.35	85.		.6	10	-.06	1240P 102P	"
79	3/13	"	37.	49.28	1.71	4.44	84.		.6	11	-.12	855A 909A	"
80	3/16	Bonadiman-DeLay	6.5	5.35	1.63	2.94	8.7		.6	4	-.01	10A 31A	"
81	3/22	Bonadiman	43.	95.12	2.23	5.05	212.		.6	11	-.12	930A 943A	"
82	3/25	"	6.5	5.91	.71	2.44	2.8		.6	4	-.01	700A 757A	"
83	4/1	"	1.5	.23	.3	1.80	.08		.6	2	0	910A 912A	"
84	4/5	"	.4	.70	2.8	1.84	0.25		.6	2	0	940A 942A	"
85	5/15	"	5.5	1.05	.51	2.06	0.85		.6	2	0	945A 945A	"
86	5/27	"	4.0	.56	.36	1.82	0.20		.6	2	0	924A 926A	"
87	7/1	"	4.5	.94	.21	1.92	0.21		.6	2	0	851A 853A	"
88	8/5	Bonadiman	2.5	.28	.29	1.69	.10		.6	2	0	906A 907A	"
89	9/1	"	5.0	1.10	.46	1.96	0.49		.6	3	0	1110A 1120A	"
90	9/23	"	4.5	.80	.20	1.92	0.21		.6	2	0	857A 859A	"

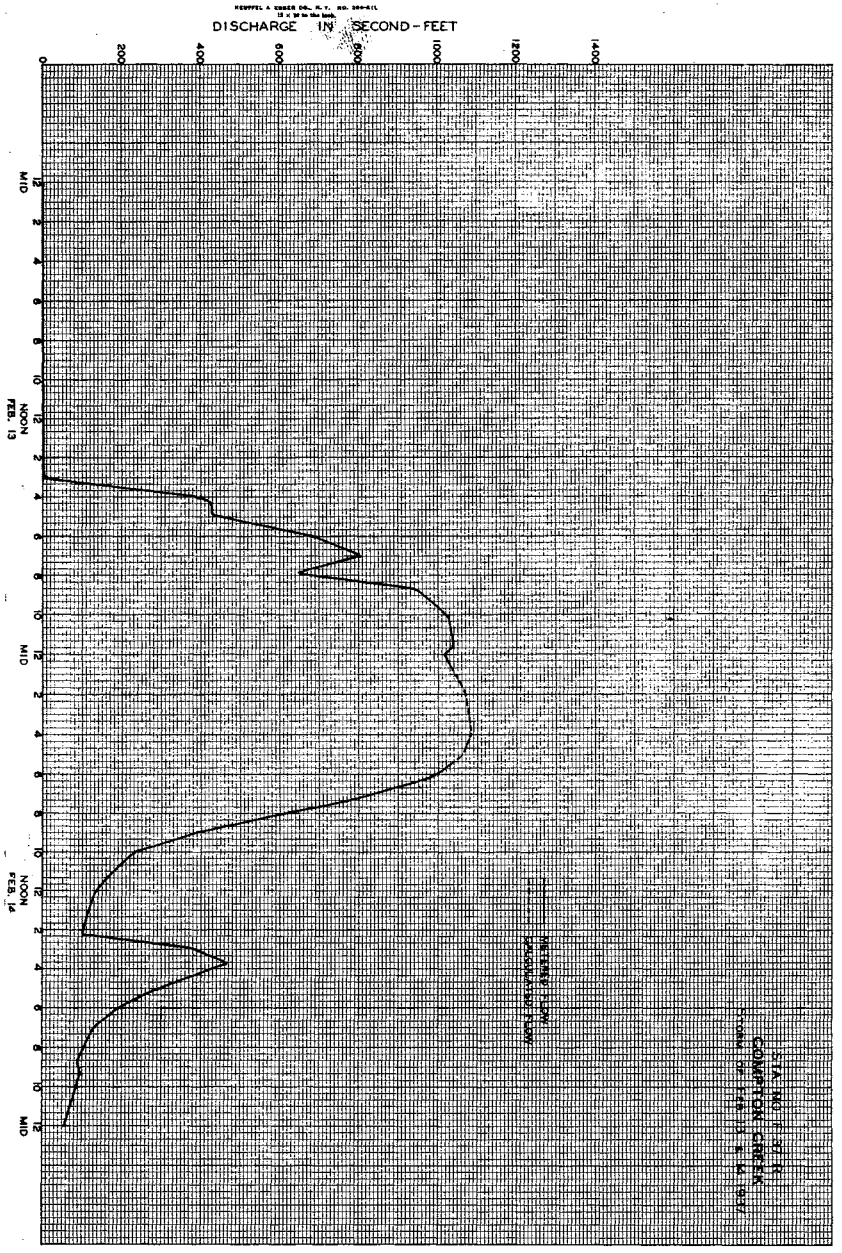
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 37 R

DISCHARGE MEASUREMENTS OF COMPTON CREEK

AT ~~XXXX~~ Rosecrans Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor (M)	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
91	10/7	Bonadiman	1.5	.07	.20	1.69	0.01		.6	2	0	900A 902A	FC 9
92	10/14	"	1.5	.17	.17	1.83	0.03		.6	2	0	933A 935A	"
93	11/4	"	2.5	.25	.35	1.82	0.09		.6	2	0	940A 942A	"
94	11/24	"	2.0	.20	.40	1.82	0.08		.6	2	0	945A 946A	"
95	12/2	"	1.5	.16	.37	1.79	0.06		.6	2	0	1206P 1207P	"
96	12/10	"	14.5	14.18	.78	3.25	12.		.6	5	-.02	1110A 1122A	"
97	12/11	"	7.5	8.32	.94	2.95	8.		.6	4	-.01	1054A 1102A	"
98	12/11	U.S.E.D.	49.	242.	3.54	8.71	856.		.6	12	-.01	522P 555P	35662
99	12/11	"	39.	120.	3.33	6.65	400.		.6	12	-.05	648P 711P	"
100	12/11	Bonadiman-Lind	43.	126.3	3.49	6.14	400.		.6	10	-.15	730P 745P	FC 9
101	12/14	Bonadiman	4.	.70	.14	1.80	0.10		.6	2	0	102P 104P	FC 40
102	12/16	"	4.	.64	.12	1.77	0.08		.6	2	0	938A 940A	"
103	12/23	Bonadiman-Lind	40.	75.1	2.33	4.95	176.		.6	8	-.15	637A 646A	"
104	12/23	" "	6.5	8.78	1.38	3.11	12.		.6	5	0	1143A 1148A	"
105	12/26	U.S.E.D.	42.	145.5	3.22	6.68	468.		.6	13	+.25	440P 508P	35662
106	12/26	"	41.5	142.8	3.19	6.63	456.		.6	13	-.23	512P 534P	"
107	12/26	"	38.	81.6	2.24	5.19	183.		.6	13	-.32	646P 712P	"
108	12/26	Bonadiman-Lind	37.	44.25	1.54	4.20	68.		.6	8	-.07	835P 847P	FC 40
109	12/27	Bonadiman	6.5	4.29	.57	2.41	2.4		.6	4	0	1143A 1153A	"
110	12/30	"	4.5	0.68	.10	1.80	0.07		.6	2	0	1001A 1003A	"
111	1/6	"	4.5	1.00	.30	1.87	0.34		.6	2	0	917A 921A	"
112	1/13	"	4.5	1.10	.10	1.84	0.11		.6	2	0	9:3A 905A	"
113	1/15	U.S.E.D.	45.	185.	3.44	7.55	637.		.6	12	-.30	850A 913A	35662
114	1/15	"	42.5	137.	3.00	6.43	411.		.6	12	-.41	940A 957A	"
115	1/15	U.S.E.D.	39.5	93.8	2.45	5.42	230.		.6	12	-.27	1035A 1050A	35662
116	1/15	Bonadiman-Lind	30.	26.4	1.22	3.73	32.		.6	6	-.04	227P 233P	FC 40
117	1/16	Bonadiman	4.5	0.94	.42	1.86	0.40		.6	2	0	1000A 1022A	"
118	1/20	"	6.0	2.57	.56	2.14	1.4		.6	4	0	952A 1000A	"
119	2/1	U.S.E.D.	54.	304.	4.36	9.38	1330.		.6	14	-.04	330A 356A	35662
120	2/1	"	50.	279.	4.00	9.07	1120.		.6	13	-.30	530A 554A	"
121	2/1	"	43.	162.	3.02	7.08	489.		.6	12	-.59	636A 651A	"
122	2/1	"	39.5	86.9	2.51	5.25	218.		.6	12	-.26	746A 759A	"
123	2/1	Bonadiman-Lind	37.	44.	1.57	4.22	69.		.6	9	-.09	935A 948A	FC 40
124	2/2	Bonadiman	5.2	1.85	.15	1.91	0.24		.6	4	0	245P 250P	"
125	2/3	"	3.0	.75	.32	1.90	0.24		.6	2	0	935A 937A	"
126	2/4	Bonadiman-Lind	42.	82.7	1.99	5.17	164.		.6	12	-.26	945A 958A	"
127	2/5	Bonadiman	4.0	.72	.22	1.88	0.16		.6	2	0	1200N 1202P	"
128	2/9	"	28.	27.7	1.43	3.72	34.		.6	7	+.08	1015A 1027A	"
129	2/9	U.S.E.D.	72.	334.	4.22	9.52	1410.		.6	11	0	1157A 1220P	35662
130	2/9	"	72.	313.	4.09	9.17	1280.		.6	16	-.26	103P 125P	"
131	2/9	"	43.	144.	2.99	6.61	430.		.6	16	-.32	229P 241P	"
132	2/9	"	40.	97.	2.50	5.52	242.		.6	12	-.20	315P 338P	"
133	2/9	Bonadiman-Lind	35.	42.5	1.58	4.09	67.		.6	7	-.06	605P 615P	FC 40
134	2/10	"	36.	51.3	1.46	4.43	76.		.6	9	-.02	720A 729A	"
135	2/11	U.S.E.D.	40.	104.	2.62	5.64	274.		.6	12	+.08	1047A 1110A	35662
136	2/11	"	40.	97.2	2.38	5.43	231.		.6	12	-.14	1123A 1135A	"
137	2/11	"	37.5	60.2	1.81	4.58	109.		.6	12	-.10	1245P 101P	"
138	2/11	"	50.	249.	3.72	8.80	927.		.6	13	-.44	220P 256P	"
139	2/11	U.S.E.D.	44.5	195.	3.31	7.75	646.		.6	12	-.42	250P 302P	35662
140	2/11	"	41.5	125.	2.84	6.15	350.		.6	12	-.30	340P 352P	"
141	2/11	"	39.	94.2	2.38	5.42	230.		.6	12	-.20	413P 425P	"
142	2/11	"	38.	82.	2.21	5.10	183.		.6	12	-.12	435P 447P	"
143	2/12	Bonadiman-Lind	7.0	7.6	1.50	2.96	11.		.6	5	0	1214A 1220A	FC 40
144	2/12	U.S.E.D.	42.	127.	2.91	6.20	370.		.6	12	-.15	732A 744A	35662
145	2/12	"	40.	103.	2.61	5.69	269.		.6	12	-.24	801A 813A	"
146	2/12	"	39.	81.8	2.24	5.40	183.		.6	12	-.76	838A 850A	"
147	2/12	Bonadiman-Lind	29.0	25.9	.99	3.72	26.		.6	6	-.03	1231P 1237P	FC 40
148	2/16	Bonadiman	5.	1.34	.75	1.89	0.10		.6	4	0	325P	"
149	2/24	"	3.	.53	.40	1.84	0.21		.6	2	0	1010A 1012A	"
150	2/27	Bonadiman and Waddicor	48.	202.5	3.26	8.00	660.		.6	8	-.21	108P 115P	"
151	2/28	" "	34.	38.05	1.10	4.05	42.		.6	7	-.02	518P 525P	"
152	3/1	" "	11.	14.1	1.59	3.50	22.		.6	4	0	236P 242P	"
153	3/12	Bonadiman and Galbraith	42.	90.2	2.05	5.46	185.		.6	8	-.21	502A 520A	"
154	3/13	Bonadiman	41.	80.5	2.24	5.38	180.		.6	11	-.16	836A 850A	"
155	3/16	"	3.	.09	.43	1.96	.42		.6	2	0	810A	"
156	3/23	"	4.	.60	.96	1.97	.60		.6	2	0	800A	"
157	3/30	"	3.	.53	.47	1.94	.25		.6	2	0	825A 827A	"
158	4/6	"	2.5	.53	.62	2.13	.33		.6	2	0	815A 817A	"
159	4/21	"	3.	.44	.52	1.83	0.23		.6	2	0	945A	"



F. C. Dist. Form 52 150 4-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F37R

Daily discharge, in second-feet of COMPTON CREEK at Rosecrans Ave., for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.7	5	5	*	+	0.2	0.1	0	0.2	2.4	*	*
2	5.5	2.1	5.5	*	0	+	2.8	0	0.2	2.3	*	0.6
3	3.4	3.1	5.5	0	+	0	0.3	0.3	0	0.3	*	0.4
4	0.8	3.1	17	1.0	0	0	0.1	0.1	0	0.1	*	0.3
5	1.4	3.1	4.2	2.5	1.0	0	0.1	1.6	0	0.1	*	0
6	5	3.4	1.2	51	559	0	+	0.2	0	0.2	2.3	0
7	5.5	3.8	2.4	3.5	*	0	0.1	*	0	0.4	0.9	0
8	5	1.4	5.5	3.8	0.8	0	0	*	0	0.7	0.1	0.2
9	5	2.8	6	2.5	0.6	0	0	*	0	0.4	0.7	0.4
10	5	4.7	5.5	0.6	0.2	*	0	*	0	0.2	1.0	0.8
11	0.7	4.9	5.5	0.9	0.2	*	0	*	0	0.2	2.2	0.4
12	1.6	5	3.6	48	0.2	*	0	*	0	0.2	0.9	0
13	5.5	4.8	1.3	14	278	3.2	0	0.8	0	0.2	0.7	1.0
14	5.5	4.7	4.5	1.0	465	0.3	0	*	0	0.2	1.0	2.3
15	5.5	1.6	106	1.0	a	218	0	*	0	0.6	0.3	3.4
16	5.5	2.9	17	1.0	*	2.4	0	*	0	0.4	0.4	3.6
17	28	6.5	6	0.6	*	0.9	0	*	0	0.6	0.6	1.3
18	7.5	6.5	6	0.5	0.5	0.8	0	*	0	0.4	0.8	2.0
19	5.5	6	3.6	1.7	0.5	0.6	0	*	0	0.6	1.4	0
20	6.5	6.5	1.1	1.1	0.4	0.4	0	*	0	0.5	2.8	0
21	6.5	6	2.6	1.1	0.5	0.3	0	*	0	0.8	1.8	0
22	5.5	2.6	5.5	1.0	0.4	112	0	*	0.6	2.0	+	0.2
23	5.5	5	5	0.8	0.4	0.8	0	*	0.9	0.5	0.8	0.3
24	4.2	5.5	5	0.3	4.6	50	0.9	*	1.0	0.6	2.2	0.2
25	4.4	5	9.5	0.2	61	9	0	*	0.2	0.4	1.9	0.1
26	2.3	3.6	0.4	0.7	1.4	0.4	0	*	0	*	2.3	0
27	5.5	0.6	116	0.6	0.4	0.4	2.3	*	0.2	*	3.1	+
28	5	0.5	113	0.6	0.2	0.2	+	*	0.2	*	2.5	0.1
29	6	0.3	12	2.5		0.2	0	*	0.2	0.4	+	0.4
30	9.5	1.8	14	3.2		0.1	0	*	2.8	2.1	*	0
31	4.2		*	4.5		0.1		*	0.3		*	
	209.5		661.9	Jan. 3-31	1384.5		27.4		5.6	July 1-25	30.7	Sept. 2-30
			112.8 Dec. 1-30	227.0		446.7		6.7		15.7 Aug. 6-29	17.7	
Mean	6.76	3.76					.91		.19			
Acre-Feet	416	224	inc. 1310	inc. 450	inc. 2750	inc. 885	54	inc. 13	11	inc. 31	inc. 61	inc. 35

Remarks: *- No record
+-indicates discharge 0.05 sec. ft. or less.

Year or Period — Mean — Acre-Feet 6240 inc.

F. C. Dist. Form 52 150 4-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F37R

Daily discharge, in second-feet of COMPTON CREEK at Rosecrans Ave., for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0	0	0	242	259	1.2	1.3	0			
2	0.1	0	+	0	1.1	986	0.2	0	0			
3	0.2	0	0.1	0.6	45	75	0	0	0			
4	+	0	0.2	1.4	39	3.2	0	0	0			
5	0.3	0	0	0.3	0.2	0.8	+	0	0			
6	0.2	0	0	0.3	0	0.7	0.5	0	0			
7	0.1	0	0	0.3	0	0.6	0.6	0	0			
8	+	0	+	0	2.3	15	0.7	0	0			
9	0	0	1.3	0	200	9	0.7	0	0			
10	0	0	4.4	0	15	0.8	0.2	0	STATION ABANDONED			
11	0	0.2	167	0	117	18	+	0				
12	+	0	15	0	92	88	0.4	0				
13	0.1	0	0.2	0.1	0.4	26	0.8	0				
14	0.2	0	0	0.5	13	1.0	0.4	0				
15	0.2	0	0.2	81	0.1	0.6	0.4	0				
16	0.4	0.1	0.1	0.6	0.1	0.4	0.4	0				
17	0.1	0.1	0.1	+	0.1	0.4	0.4	0				
18	0.1	0.1	0.1	1.0	8	0.5	0.3	0				
19	0.2	0.4	0	1.2	8	0.3	0.7	0				
20	0.1	0.2	0	6	0.1	0.2	0.6	0				
21	0.2	0	0	0.6	+	0.2	0.6	0				
22	0.1	0	0	0.2	0	0.2	0.6	0				
23	0.2	0	9.2	+	0.1	0.4	0.4	0				
24	0.1	+	0.4	0	0.2	0.4	1.6	0				
25	0.1	0.1	+	0	0.4	0.4	1.2	0				
26	0.1	0.1	81	+	0.2	0.3	0.8	0				
27	0.1	0	7.5	0.1	213	0.2		0				
28	0.1	0	+	1.4	297	0	0	0				
29	0	0	0	20		0	0.2	0				
30	+	0	0.1	0.4		0.1	56	0				
31	0		0.3	0		0.8		0				
	35		421.3		1294.3		80.9		0			
		1.3		161.0		1488.3		13 (June 1-9)				
Mean	.11	.04	13.6	5.20	46.2	48.0	2.70	+				
Acre-Feet	6.9	2.6	836	319	2570	2950	160	2.6	0			

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

Year or Period Oct. 1-June 9 — Mean — Acre-Feet 6850

STATIONS F41R, F41B-R AND F41C-R

COYOTE CREEK at Del Amo Street

HISTORICAL:

Station F41R (100 feet below P.E. bridge) was moved 50 feet downstream and called station F41B-R, on October 30, 1936.
Station F41B-R, was removed February 17, 1937 due to the bank washing out.
On February 18, 1937 it was installed at present location above P.E. bridge and called station F41C-R.

LOCATION:

Station F41C-R, on the downstream side at the west (right) end of Del Amo Street, formerly Anaheim Street, highway bridge, 30 feet above the upstream side of Pacific Electric Railroad trestle, and 2.5 miles southeast of Artesia.

DRAINAGE AREA:

110 square miles.

CHANNEL AND CONTROL:

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

DISCHARGE MEASUREMENTS:

At low flows by wading.
At high flows from upstream side of P.E. Railroad trestle.

RECORDER:

Installed January 14, 1930 at station F41R in a box type house over an 18 inch diameter, corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

None.

DIVERSIONS:

None

RECORDS AVAILABLE:

At station F41R:
Stream measurements taken from December 1, 1928 to January 14, 1930.
Recorder records from January 14, 1930 to October 30, 1936.
At station F41B-R:
October 30, 1936 to February 17, 1937.
At station F41C-R:
February 18, 1937 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937 (stations F41R, F41B-R, F41C-R)
Maximum 4190 second-feet (at station F41B-R) February 6.
Minimum no flow for several months.
1937-1938 (station F41C-R)
Maximum 3610 second-feet March 2.
Minimum no flow for several months.
1929-1938 (stations F41R, F41B-R and F41C-R)
Maximum 4190 second-feet (at station F41B-R) February 6, 1937.
Minimum no flow at times each year.

ACCURACY:

Good.
Interpolated:
March 1-3, 1937.
Clock Stopped:
May 14-26, 1937.

OPERATION:

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT
STATION NO. F 41B-R

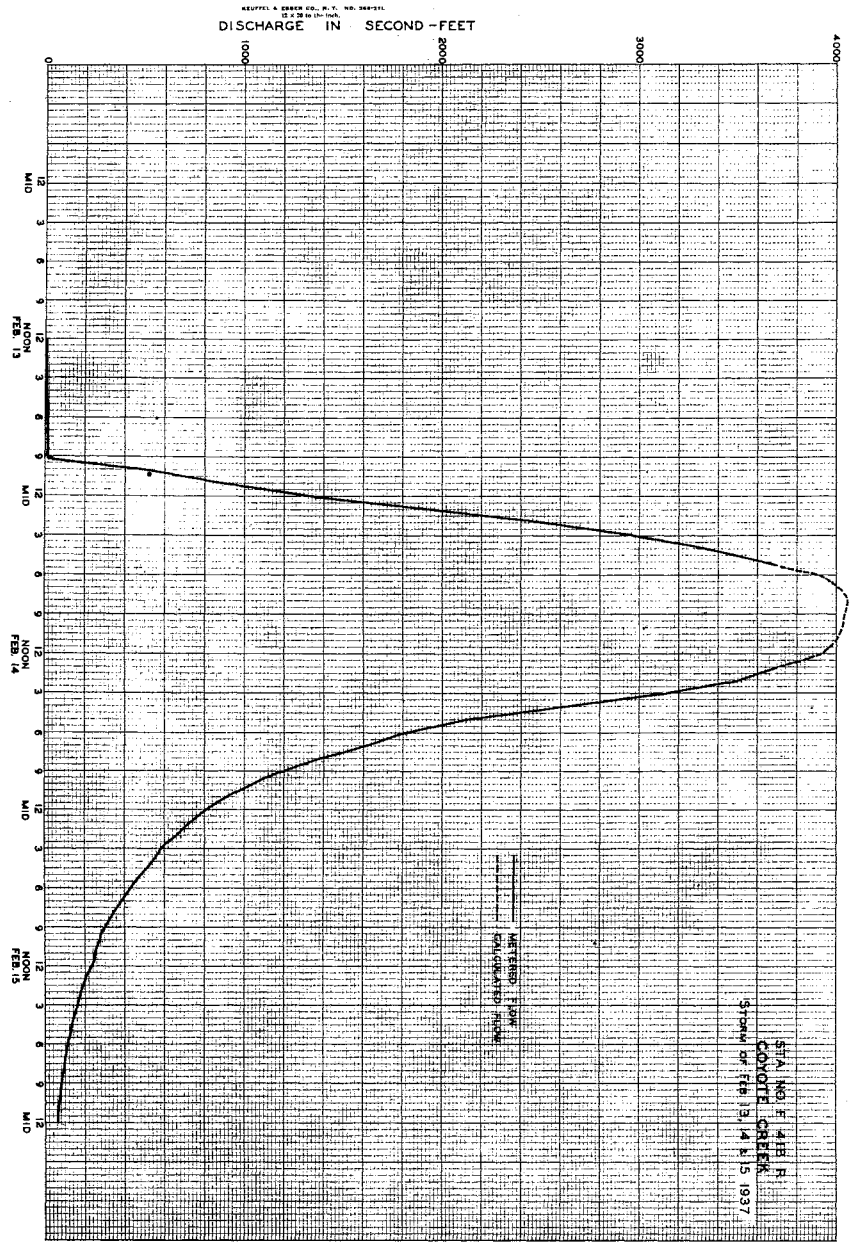
DISCHARGE MEASUREMENTS OF COYOTE CREEK
at Del Amo Street DURING THE YEAR ENDING SEPTEMBER 30, 1937

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
3	12/23	Bonadiman	2.2	.46	.72	1.46	.35		.6	3	0	400P 405P	FC 9
4	12/30	"	42.	21.71	.56	2.02	12.		.6	6	-.01	1002A 1012A	"
5	12/31	Bonadiman-Lind	60.	203.0	1.70	5.41	346.		.6	7	-.06	715A 730A	"
6	12/31	" "	60.	200.1	1.46	5.13	291.		.6	6	-.02	855A 902A	"
7	1/2	" "	38.	16.94	.46	1.85	7.8		.6	5	0	230P 236P	"
8	1/7	Bonadiman	35.	14.87	.85	2.09	13.		.6	5	0	1126A 1132A	"
9	1/13	"	50.	56.50	1.06	2.85	60.		.6	7	+.01	1044A 1058A	"
10	1/28	"	Two Channels			1.60	.55		.6	5	0	1250P 125SP	"
11	2/5	"	4.5	.87	.66	1.24	.55		.6	4	0	1028A 1032A	"
12	2/6	Bonadiman-Lind	101.	631.2	6.06	9.88	3830.		.6	7	+.05	725P 750P	"
13	2/6	" "	101	631.2	6.30	9.90	3990		FL			800P	
14	2/7	" "	73.	203.60	2.92	4.99	594.		.6	5	-.10	1050A 1105A	FC 9
15	2/8	" "	39.	23.15	.83	1.65	19.		.6	7	0	445P 450P	"
16	2/11	Bonadiman	7.	1.56	1.10	1.10	1.7		.6	3	0	135P 138P	"
17	2/14	Jordan-Thompson	90.	647.5	6.72	10.34	3700		Sur	7	0	930A 1000A	FC 21
18	2/15	Bonadiman-Lind	56.	98.85	2.55	3.41	252.		.6	6	0	1100A 1110A	FC 9

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT
STATION NO F 41 C-R

DISCHARGE MEASUREMENTS OF COYOTE CREEK
at Del Amo Street DURING THE YEAR ENDING SEPTEMBER 30, 1938

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
19	2/18	Bonadiman	8.0	2.80	2.16	3.73	6.0		.6	4	0	205P 210P	FC 9
20	2/25	"	7.0	1.62	1.05	3.51	1.7		.6	4	0	100P 105P	"
21	3/3	"	5.5	.96	.90	3.44	.85		.6	2	0	956A 958A	"
22	3/10	"	5.5	.99	.80	3.44	.80		.6	2	0	128P 130P	"
23	3/16	Bonadiman-Delay	47.	45.20	2.65	5.02	120.		.6	5	0	410A 420A	"
24	3/18	Bonadiman	8.0	2.10	2.57	3.76	5.4		.6	6	0	1024A 1031A	"
25	3/23	"	44.	30.53	2.11	4.43	64.		.6	7	-.02	101P 112P	"
26	3/25	"	45.	29.60	1.25	4.34	37.		.6	7	0	1225P 1232P	"
27	4/1	"	7.0	2.45	.29	3.40	.95		.6	3	0	320P 325P	"
28	4/8	"	4.5	.81	.56	3.36	.45		.6	2	0	140P 142P	"
29	4/15	"	4.0	.60	.60	3.33	.36		.6	2	0	1226P 1230P	"
30	4/22	"	3.5	.52	.37	3.23	.19		.6	2		135P 137P	"
31	4/29	"	4.0	.60	.47	3.26	.28		.6	2	0	226P 228P	"
33	5/27	"	1.5	.19	.37	3.06	.07		.6	2	0	230P 232P	"
39	12/16	Bonadiman	6.5	3.80	0.25	3.54	.95		.6	3	-.04	1025A 1028A	FC 40
40	12/27	"	4.5	1.12	1.52	3.60	1.7		.6	2	0	326P	"
41	12/30	"	3.	.75	0.67	3.51	.50		.6	2	0	230P	"
42	1/6	"	4.	.80	0.59	3.51	.47		.6	2	0	212P 213P	"
43	1/13	"	3.	.60	0.80	3.52	.48		.6	2	0	125P	"
44	1/20	"	4.	.90	1.17	3.60	1.0		.6	2	0	220P	"
45	2/1	Bonadiman-Lind	6.	6.26	0.93	4.00	5.8		.6	4	0	1047A 1052A	"
46	2/2	Bonadiman	Two Channels			4.28	23		.6	8	0	1041A 1050A	"
47	2/4	Bonadiman-Lind	6.	5.65	0.62	3.65	3.5	*	.6	4	0	144P 148P	"
48	2/9	" "	56.	126.8	2.57	5.82	327		.6	7	0	1115P 1125P	"
49	2/9	" "	56.	131.8	2.53	5.81	334		.6	7	-.01	1145P 1155P	"
50	2/10	" "	46.	62.2	2.4	4.97	149		.6	7	-.01	1059A 1107A	"
51	2/11	" "	50.	75.2	2.16	5.14	162		.6	9	-.01	1045P 1058P	"
52	2/11	" "	50.	77.4	2.59	5.12	200		.6	8	0	1119P 1125P	"
53	2/12	" "	45.	46.8	1.90	4.61	89		.6	6	+.02	1045A 1054A	"
54	2/16	Bonadiman	6.5	4.18	0.52	3.51	2.2		.6	3	0	1044A 1050A	"
55	2/24	"	7.	3.90	2.43	3.50	0.95		.6	2	0	300P	"
56	2/28	Bonadiman-Waddicor	51.	74.7	2.45	5.13	182		.6	6	-.02	347P 355P	"
57	3/1	" "	78.	399	4.74	8.91	1890		.6	8	-.01	720A 736A	"
58	3/1	" "	78.	399	4.64	8.89	1850		.6	8	-.02	742A 750A	"
59	3/1	" "	78.	371	4.21	8.49	1560		.6	8	-.02	945A 952A	"
60	3/1	" "	58.	220	1.53	6.94	698		.6	6	-.12	125P 137P	"
61	3/2	" "	77.	523	6.85	11.93	3580		.6	6	-.15	121P 135P	"
62	3/6	Bonadiman	18	11.3	3.19	4.04	36		.6	4	0	125P	"
63	3/12	Bonadiman-Galbreath	52	98.5	2.20	5.42	217		.6	7	0	846A 855A	FC 40
64	3/13	" "	45.	33.8	2.05	4.60	68		.6	6	0	1107A 1112A	"
65	3/14	" "	20.	12.1	2.72	4.08	33		.6	4	0	1130A 1132A	"
66	3/16	Bonadiman	7.	2.50	2.44	3.74	6.1		.6	4	0	105P 110P	"
67	3/23	"	8.	3.9	1.08	3.64	4.2		.6	3	0	110P 115P	"
68	3/30	"	5.	2.15	1.58	3.59	3.4		.6	2	0	152P 155P	"
69	4/6	"	5.	1.5	1.67	3.54	2.5		.6	2	0	335P 338P	"
70	4/14	"	6.	1.35	1.17	3.46	0.85		.6	2	0	1125A	"
71	4/21	"	4.	1.00	.56	3.40	0.55		.6	2	0	310P	"
72	5/4	"	4.	1.00	.80	3.40	0.80		.6	2	0	200P 210P	"
73	5/26	"	1.5	0.15	.38	3.23	0.06		.6	2	0	213P	"
74	7/1	"	1.5	.18	.37	3.15	.07		.6	2	0	1015A	"



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F41R--F41B-R--F41C-R

Daily discharge, in second-feet of COYOTE CREEK at Del Amo Street, for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	16	31	14	0.9	0.1	+	0	0	0
2	0	0	0	7.5	0.9	12	0.9	0.1	0.1	0	0	0
3	0	0	0	5	0.5	10	0.8	0.1	0.1	0	0	0
4	0	0	0	3.6	0.5	0.8	0.8	+	0.1	0	0	0
5	0	0	0	3.5	0.5	0.7	0.6	+	0.4	0	0	0
6	0	0	0	13	1580	0.7	0.6	+	0.2	0	0	0
7	0	0	0	18	1190	0.8	0.5	+	0.1	0	0	0
8	0	0	0	6.5	34	0.8	0.4	+	0.1	0	0	0
9	0	0	0	3.8	21	0.8	0.4	+	0.2	0	0	0
10	0	0	0	2.9	11	0.8	0.4	+	0.1	0	0	0
11	0	0	0	3.0	3.0	0.7	0.4	+	+	0	0	0
12	0	0	0	3.2	5.5	0.9	0.4	+	0.2	0	0	0
13	0	0	0	3.0	9.2	9	0.4	+	0.1	0	0	0
14	0	0	0	9.5	2760	27	0.4	+	+	0	0	0
15	0	0	0	4.5	24	4.1	0.4	+	0.1	0	0	0
16	0	0	0	3.0	3.1	9.1	0.4	+	+	0	0	0
17	0	0	0	2.6	1.1	2.5	0.3	+	+	0	0	0
18	0	0	0	2.3	.6	.6	0.3	+	0	0	0	0
19	0	0	0	2.2	4.6	1.2	0.3	+	0	0	0	0
20	0	0	0	2.1	3.2	0.7	0.3	+	0	0	0	0
21	0	0	0	2.0	2.0	0.6	0.3	+	0.1	0	0	0
22	0	0	0	1.0	1.4	42	0.3	+	+	0	0	0
23	0	0	0.2	0.4	1.4	64	0.3	+	0	0	0	0
24	0	0	0.3	0.4	1.4	9.5	0.3	+	0	0	0	0
25	0	0	1.5	0.3	2.7	3.6	0.3	+	0	0	0	0
26	0	5.5	0.4	0.4	29	10	0.3	+	0	0	0	0
27	0	12	0.6	0.4	4.6	1.4	0.3	0.1	0	0	0	0
28	0	16	0.6	0.4	1.5	0.9	0.3	+	0	0	0	0
29	0	59	0.6	0.4		0.8	0.3	+	0	0	0	0
30	0	13	0.7	0.4		0.7	0.3	0.1	0	0	0	0
31		186	1.7			0.7		+		0	0	
	0	2935		150.7	60963	3412	12.1	.5	1.9	0	0	0
		0										
Mean	0	0	9.47	4.86	218	11.0	.40	+	0.06	0	0	0
Acre-Feet	0	0	582	299	12090	677	24.0	1.0	3.8	0	0	0

No flow while located at F41R (Oct.1--Oct.30)

No Record. Flow negligible.

Remarks: + indicates discharge 0.05 sec. ft. or less
┌ indicates change in station location--see station description

Year or Period Mean 18.9
Acre-Feet 13680

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

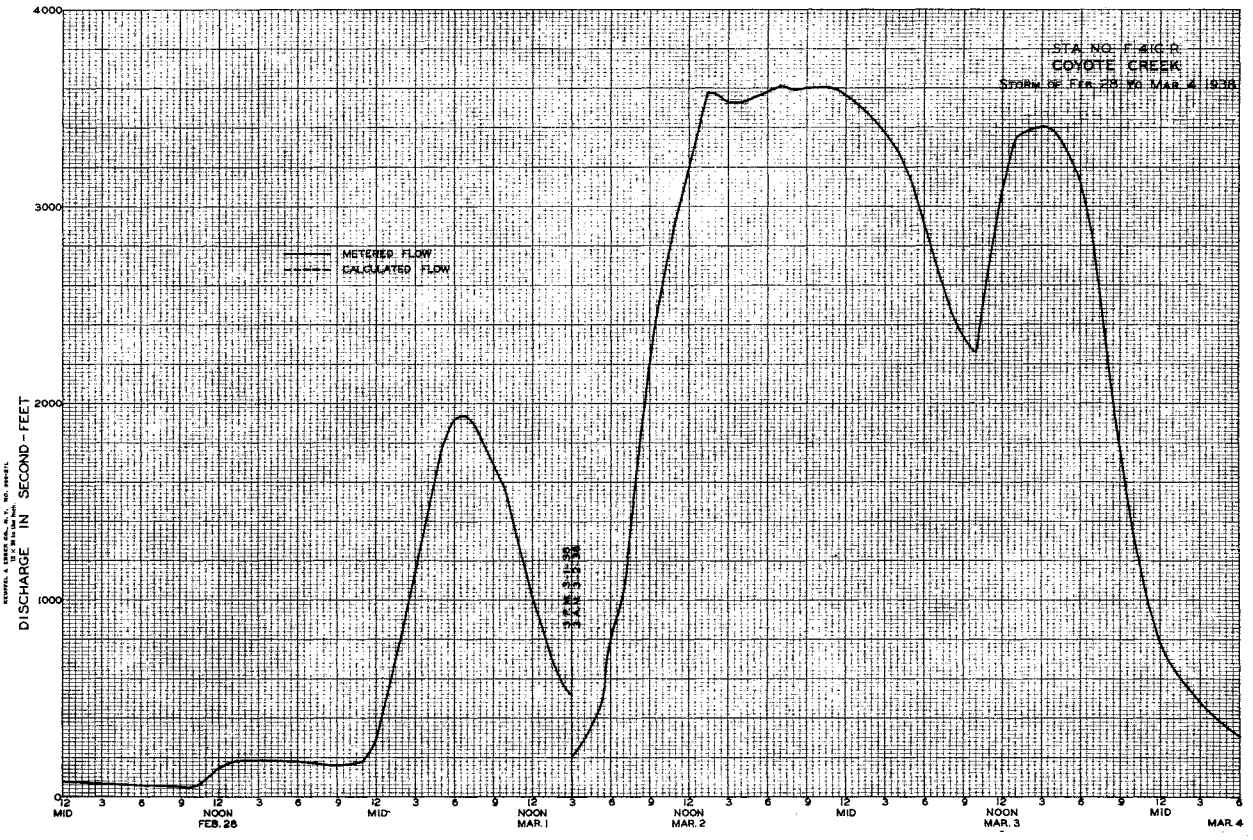
Sta. No. F41C-R

Daily discharge, in second-feet of COYOTE CREEK at Del Amo Street, for the year ending September 30, 1938

Day	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.5	7.5	889	2.2	2.0	0.1	0.1	0	0
2	0	0	0	0.5	2.2	2380	2.0	2.2	0.1	0.1	0	0
3	0	0	0	0.6	4.0	2770	2.2	1.4	+	+	0	0
4	0	0	0	0.5	4.4	260	2.0	1.0	+	+	0	0
5	0	0	0	0.5	7.5	69	2.0	1.0	+	+	0	0
6	0	0	+	0.4	6.5	39	2.2	0.6	+	+	0	0
7	0	0	0.1	0.5	2.2	23	2.4	0.6	+	+	0	0
8	0	0	0.1	0.5	1.2	18	1.9	0.4	+	+	0	0
9	0	0	0.1	0.6	131	14	1.4	0.3	+	+	0	0
10	0	0	0.1	0.5	142	13	1.3	0.1	+	+	0	0
11	0	0	0.1	0.5	37	8.5	1.3	0.1	+	0	0	0
12	0	0	10	0.4	9.4	136	1.2	0.1	+	0	0	0
13	0	0	13	0.4	3.2	60	1.0	0.1	+	0	0	0
14	0	0	8.5	0.5	11	32	0.8	0.1	+	0	0	0
15	0	0	0.8	0.6	4.4	13	0.8	0.1	+	0	0	0
16	0	0	0.4	1.4	2.4	6	0.7	0.2	+	0	0	0
17	0	0	0.4	1.3	1.8	6	0.6	0.3	+	0	0	+
18	0	0	0.4	0.8	1.2	4.4	0.6	0.5	+	0	0	0.3
19	0	0	0.4	0.7	1.4	4.4	0.5	0.5	+	0	0	0.1
20	0	0	0.3	1.0	1.9	4.2	0.5	0.5	+	0	0	0.1
21	0	0	0.3	0.7	1.8	4.2	0.5	0.4	+	0	0	+
22	0	0	0.2	0.4	1.3	3.2	0.5	0.4	+	0	0	0.1
23	0	0	0.4	0.2	1.0	4.0	0.5	0.3	0.1	0	0	0.1
24	0	0	0.5	0.1	0.8	4.2	0.7	0.1	0.1	0	0	+
25	0	0	0.5	0.1	0.7	4.2	1.3	0.1	0.1	0	0	0
26	0	0	0.7	0.1	0.6	4.2	1.6	+	0.1	0	0	0
27	0	0	1.6	0.1	12	3.2	1.0	+	0.1	0	0	0
28	0	0	1.4	0.1	12.2	3.0	0.8	0.1	0.1	0	0	0
29	0	0	0.7	0.2		3.2	0.8	0.1	0.1	0	0	0
30	0	0	0.5	0.2		3.4	1.4	0.1	+	0	0	0
31	0		0.5	0.3		2.7		0.1		0	0	
	0		42.0	15.2	662.6	6828.0	36.7	13.6	0.9	0.2	0	0.7
		0										
Mean	0	0	1.35	.49	23.7	220	1.22	.45	.03	.01	0	.02
Acre-Feet	0	0	83	30	1310	13540	73	27	1.8	.40	0	1.4

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

Year or Period Mean 20.8
Acre-Feet 15070



STATION F53R

DUME CREEK at Roosevelt Highway

LOCATION:

On downstream side of Roosevelt Highway bridge, near Dume Point about 1/4 mile from Pacific Ocean, 22 miles west of Santa Monica.

DRAINAGE AREA:

8.8 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 a 21 inch diameter galvanized iron pipe stilling well.
A Stevens continuous recorder was in service from October 1, 1936 to November 26, 1937 when the recorder was removed due to construction of new bridge.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 15, 1930 to November 26, 1937.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 624 second-feet February 6.
Minimum no flow for several months.
1937-1938
Maximum not determined.
Minimum no flow until recorder removed.
1930-1937
Maximum 2750 second-feet December 31, 1933.
Minimum no flow at times each year.

ACCURACY:

Poor.
Interpolated: June 11 to September 30, 1937.

OPERATION:

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

F.C.D. FORM 104 IN 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 53 R

DISCHARGE MEASUREMENTS OF DUME CREEK

~~AT~~ Roosevelt Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	RETR-OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	2/6	Prickett-Haig	58.0	109.2	5.20	3.29	568.		.6	12	-.02	615P 637P	FC 22
2	2/8	Prickett	13.5	9.82	1.93	1.75	19.		.6	6	0	345P 355P	"
3	2/13	Carlson-Andren	Two Channels			2.84	305.		.6	8	0	1040P 1100P	FC 12
4	2/15	Prickett-Haig	22.0	17.95	1.89	2.07	34.		.6	6	0	613P 617P	FC 22
5	3/13	" "	11.5	5.70	1.21	1.98	6.9		.6	5	-.01	1032A 1040A	"
6	3/16	Carlson-Andren	20.0	13.45	2.36	2.17	32.		.6	9	-.05	200A 215A	FC 12
7	3/16	Haig-Prickett	15.0	11.60	.95	2.07	11.		.6	7	0	1046A 1054A	FC 22
8	3/18	Prickett	7.0	2.96	.74	1.88	2.2		.6	4	0	320P 330P	"
9	3/22	Carlson-Andren	13.0	6.05	1.21	2.04	7.3		.6	8	0	1035A 1045A	FC 12
10	3/22	" "	6.0	3.45	2.00	2.04	6.9		.6	5	0	1047A 1052A	"
11	3/22	Haig-Prickett	15.0	10.27	.60	2.04	6.0		.6	6	0	100P 108P	FC 22
12	3/25	Prickett	15.0	10.6	.73	1.99	7.7		.6	5	0	130P 135P	"
13	5/20	"	4.3	1.33	1.01	1.87	1.4		.6	4	0	355P 400P	"
14	6/10	"	3.5	.80	.81	1.87	.65		.6	3	0	520P 525P	"
15	9/2	"	3.3	.66	.54		.36		.6	3		140P 145P	"

F. C. Dist. Form 52 150 6-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

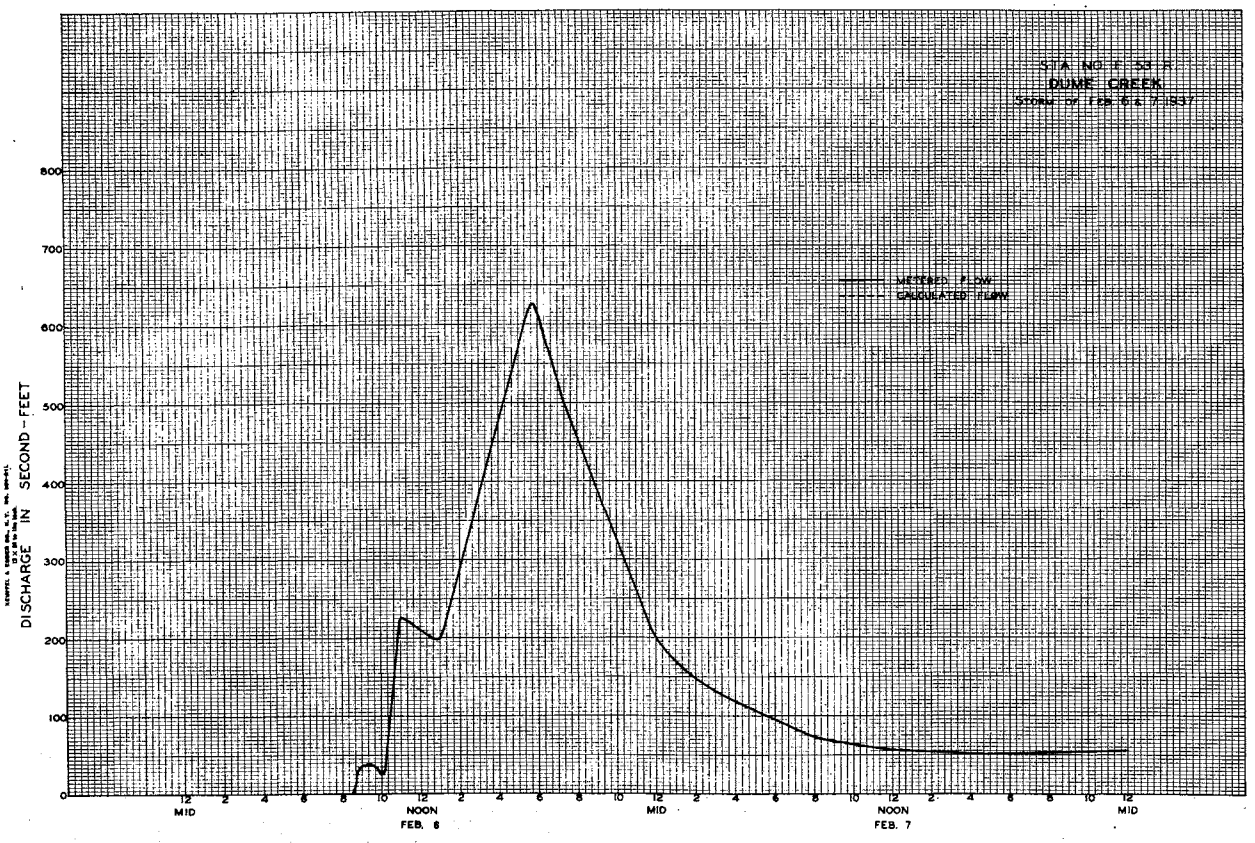
Sta. No. F53R

Daily discharge, in second-feet of DUME CREEK at Roosevelt Highway, for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	3.8	1.0	0.5	0.7	0.4
2	0	0	0	0	0	0	0	3.4	1.0	0.4	0.7	0.4
3	0	0	0	0	0	0	0	2.7	0.9	0.4	0.8	0.4
4	0	0	0	0	0	0	0	2.5	0.9	0.4	0.8	0.4
5	0	0	0	0	0	0	0	2.2	0.8	0.4	0.8	0.4
6	0	0	0	0	209	0	0	1.8	0.8	0.4	0.8	0.4
7	0	0	0	0	80	0	0	1.4	0.8	0.4	0.8	0.3
8	0	0	0	0	48	0	0	1.6	0.7	0.4	0.8	0.3
9	0	0	0	0	9	0	0	1.8	0.6	0.4	0.8	0.3
10	0	0	0	0	1.2	0	0	1.6	0.6	0.4	0.7	0.3
11	0	0	0	0	0	0	0	1.4	0.6	0.4	0.7	0.3
12	0	0	0	0	0	0	0	1.2	0.6	0.4	0.7	0.3
13	0	0	0	0	55	2.5	0	1.4	0.6	0.3	0.7	0.3
14	0	0	0	0	230	0	+	1.4	0.6	0.3	0.7	0.2
15	0	0	0	0	48	6	0.1	1.6	0.6	0.3	0.7	0.2
16	0	0	0	0	25	1.6	0.1	1.6	0.6	0.3	0.6	0.2
17	0	0	0	0	12	5.5	0.1	1.4	0.6	0.3	0.6	0.2
18	0	0	0	0	15	3.4	0.3	1.2	0.6	0.3	0.6	0.2
19	0	0	0	0	6	0.2	0.5	1.4	0.6	0.3	0.6	0.2
20	0	0	0	0	2.2	0	0.4	1.4	0.6	0.4	0.6	0.2
21	0	0	0	0	1.0	0	0.5	1.4	0.5	0.4	0.6	0.1
22	0	0	0	0	0.4	3.8	0.8	1.4	0.5	0.4	0.5	0.1
23	0	0	0	0	0.2	3.8	0.7	1.1	0.5	0.4	0.5	0.1
24	0	0	0	0	0	4.8	0.8	1.1	0.5	0.5	0.5	0.1
25	0	0	0	0	0	8	1.2	1.1	0.5	0.5	0.5	0.1
26	0	0	0	0	0	4.8	4.8	1.1	0.5	0.5	0.5	0.1
27	0	0	0	0	0	3.2	3.8	1.0	0.5	0.5	0.5	0.1
28	0	0	0	0	0	1.1	2.9	1.0	0.5	0.6	0.4	0.1
29	0	0	0	0		0	3.4	1.0	0.5	0.6	0.4	0.1
30	0	0	0	2.2		0	3.8	1.0	0.5	0.6	0.4	0.1
31	0		11	+		0		1.0		0.6	0.4	
	0	0	11	22	749.0	62.1	24.2	49.0	19.1	13.0	19.4	6.9
Mean	0	0	.35	.07	26.8	2.00	.81	1.58	.64	.42	.63	.23
Acre-Feet	0	0	22	4.4	1490	123	48	97	38	26	38	14

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

Year or Period: Mean 2.62; Acre-Feet 1900



STATION F104R

EATON WASH at Sunset Avenue

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 an 18 inch diameter, corrugated iron pipe stilling well on the upstream wing wall of the north abutment of the Sunset Avenue bridge. Removed December, 1930 due to bridge construction. Installed at present location November 10, 1931. Stevens type L recorder, in service October 1, 1936, was replaced on January 25, 1938 with an H.C.F. continuous recorder.

REGULATION:

Flow partially regulated by Eaton Dam.

DIVERSIONS:

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

RECORDS AVAILABLE:

October 1, 1930 to September 30, 1938. From December 28, 1930 to November 10, 1931, the recorder was located at Broadway (now designated as station F104B-R).

EXTREMES OF DISCHARGE:

1936-1937
Maximum 400 second-feet December 27.
Minimum no flow most of year.
1937-1938
Maximum 1900 second-feet, estimated, March 2.
Minimum no flow.
1930-1938
Maximum 1900 second-feet, estimated, March 2, 1938.
Minimum no flow most of each year.

ACCURACY:

Poor due to shifting stage-discharge relation.
Estimated:
March 3, 4, 11, 1938.

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

DISCHARGE MEASUREMENTS OF EATON WASH

AT Sunset Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	ESTI-MATE	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/18	Lindsay-Cole	12.5	1.06	.87	3.56	.90		.6	6	0	807P 812P	FC 28
2	10/29	Lindsay and McArthur	13.0	2.81	2.70	3.67	7.6		.6	7	-.03	1051P 1059P	"
3	12/14	"	11.0	2.33	1.45	3.65	3.4		.6	5	0	1045P 1055P	"
4	12/15	"	15.0	3.06	1.89	3.69	5.8		.6	6	-.02	824A 834A	"
5	12/15	Cole-Baustain	13.5	2.49	1.77	3.70	4.4		.6	6	-.02	136P 142P	FC 7
6	12/27	" "	42.0	33.48	5.65	4.52	189		.6	9	-.05	1103A 1113A	"
7	12/27	Lindsay and McArthur	42.0	29.57	5.75	4.74	170		.6	9	-.05	1030P 1045P	FC 28
8	12/28	"	23.0	9.43	4.65	4.09	44		.6	8	-.03	535A 545A	"
9	12/28	"	17.0	3.35	2.59	4.04	8.7		.6	6	0	420P 430P	"
10	12/31	Cole-Baustain	42.5	26.29	5.24	4.46	138		.6	10	-.13	1235A 1249A	FC 7
11	12/31	Cole	23.0	7.27	3.23	4.24	23		.6	8	+.04	1230P 1240P	"
12	12/31	Lindsay and McArthur	24.0	6.66	3.40	4.17	23		.6	8	+.01	340P 347P	FC 28
13	1/5	"	8.0	1.47	2.04	3.96	3.0		.6	5	-.01	945P 950P	"
14	1/6	Cole	5.0	.70	1.06	3.89	.75		.6	5	-.02	1005A 1012A	FC 7
15	1/30	Cole-Baustain	24.0	7.65	2.85	4.06	22		.6	6	+.01	740P 748P	"
16	2/6	" "	42.0	23.87	5.60	4.50	134		.6	10	0	150P 200P	"
18	2/14	" "	18.5	7.49	4.09	3.71	31		.6	7	-.02	729A 737A	FC 36
19	2/14	" "	40.0	48.8	4.80	4.67	234		.6	8	-.10	1255A 120A	FC 28
20	2/15	Lindsay and McArthur	21.5	6.53	3.72	3.96	24		.6	8	0	1140A 1148A	FC 28
22	2/18	Cole	21.5	6.01	3.28	4.02	20		.6	9	0	415P 430P	FC 36
23	2/24	Cole-Baustain	22.0	6.19	2.71	4.02	17		.6	8	0	1010P 1022P	"
24	2/25	" "	10.6	2.44	1.47	4.00	3.6		.6	6	+.11	1155A 1202P	"
25	3/4	Lindsay	7.0	1.23	2.27	4.04	2.8		.6	6	0	903A 910A	FC 28
26	3/13	Cole-Baustain	22.7	10.44	4.26	4.30	44		.6	10	-.03	640A 653A	FC 36
27	3/22	" "	23.5	10.29	4.10	4.15	42		.6	8	-.10	403P 413P	FC 1
28	3/25	Cole	3.6	.83	1.53	3.98	1.3		.6	4	-.02	347P 358P	FC 36
29	4/1	Lindsay	5.5	.69	2.10	4.06	1.4		.6	5	0	947A 954A	FC 28
30	4/8	"	9.0	1.06	2.02	4.15	2.1		.6	5	0	1121A 1128A	"

F.C.D. FORM 104 (R 9-37)

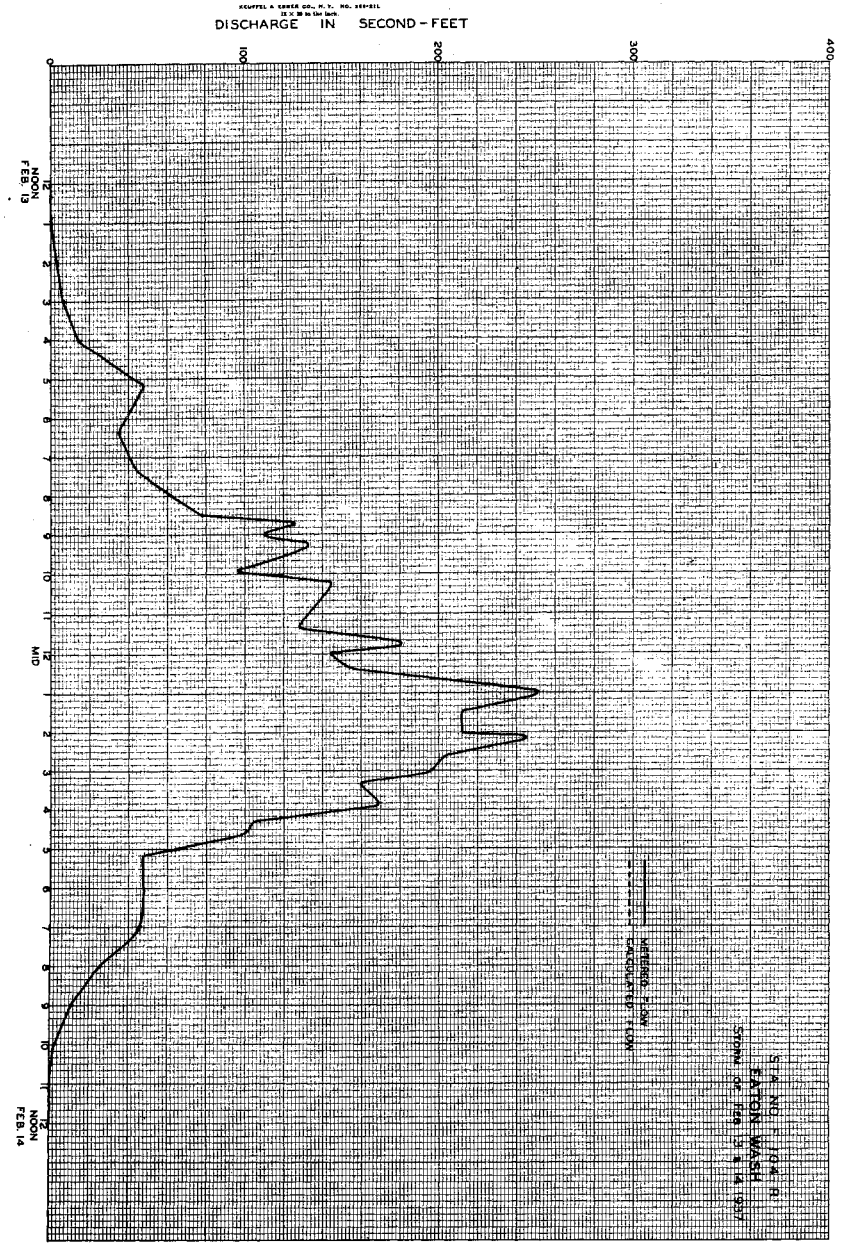
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 104 R

DISCHARGE MEASUREMENTS OF EATON WASH

AT Sunset Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	ESTI-MATE	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
32	12/11	Lindsay-Ingram	15.0	1.45	.84	4.44	1.2		.6	4	+.03	1110A 1115A	FC 28
33	12/11	Haig-Baustain	3.0	.95	1.75	4.14	1.7		.6	3	-.04	1111P 1117P	FC 36
34	12/26	Lindsay-Ingram	10.5	2.60	2.88	4.23	7.5		.6	6	0	528P 535P	FC 28
35	1/15	" "	16.5	15.70	6.69	4.80	105		.6	6	-.14	1023A 1030A	"
36	1/15	Haig-Baustain	14.5	4.33	3.06	4.24	13		.6	7	+.03	1148A 1158A	FC 1
37	2/1	Lindsay-Ingram	41.	24.55	6.68	5.18	164		.6	6	+.37	325A 350A	FC 28
38	2/1	" "	21.	7.81	3.92	4.15	31		.6	6	-.06	707A 714A	"
39	2/3	" "	22.0	4.97	2.92	4.00	15		.6	8	0	1133A 1140A	"
40	2/3	Haig	17.0	6.85	4.21	3.98	29		.6	7	+.02	201P 219P	FC 1
41	2/3	Lindsay-Ingram	19.0	4.97	3.71	3.91	18		.6	7	0	300P 317P	FC 28
42	2/3	" "	8.0	1.00	1.59	3.73	1.6		.6	3	0	1053P 1057P	"
43	2/4	Haig-Baustain	13.5	5.16	3.20	3.74	16		.6	7	+.01	930A 938A	FC 1
44	2/4	Lindsay-Ingram	9.0	1.81	3.00	3.70	5.4		.6	5	-.01	1020A 1025A	FC 28
45	2/9	" "	9.0	2.48	2.83	3.60	7.0		.6	4	-.02	750A 756A	"
46	2/9	Haig	3.5	.79	1.29	3.43	1.0		.6	7	-.02	927A 934A	FC 1
47	2/9	Haig-Baustain	42.	26.47	6.39	4.35	169		.6	13	-.30	103P 115P	FC 1
48	2/9	Hoffman-Trumbo	5.0	.53	1.39	3.38	.75		.6	3	-.03	416P 422P	FC 23
49	2/11	Haig-Baustain	17.0	10.87	5.17	4.02	56		.6	10	-.05	1138A 1152A	FC 1
50	2/11	" "	39.5	28.12	5.68	4.68	159		.6	11	-.35	154P 209P	"
51	2/11	" "	12.2	1.76	1.32	3.68	2.3		.6	7	-.03	513P 520P	"
52	2/27	Lindsay-Ingram	28.	21.76	5.95	4.28	129		.6	8	-.05	1125A 1132A	FC 28
53	2/27	Haig-Baustain	19.	5.83	3.69	3.87	22		.6	11	-.02	300P 313P	FC 36
54	2/28	Haig-Baustain	42.0	29.15	5.80	4.84	169		.6	12	-.17	1015A 1035A	FC 36
54A	2/28	Lindsay-Ingram	42.0	60.0	7.29	5.40	437		.6	9	-.10	1050P 1115P	FC 28
55	3/1	Haig-Baustain	42.	60.52	7.16	5.56	433		.6	13	-.45	1230A 103A	FC 36
56	3/1	" "	45.	41.76	5.37	5.34	224		.6	13	+.07	930A 946A	"
57	3/1	" "	44.5	32.35	5.63	5.43	182		.6	14	+.08	133P 150P	"
58	3/1	" "	43.	21.68	4.46	5.08	97		.6	12	0	558P 611P	"
59	3/2	" "	34.	54.93	9.98	6.54	548		.6	12	+.09	831A 848A	"
60	3/2	" "	39.	53.8	7.44	6.22	400		.6	13	+.03	1134A 1154A	"
61	3/4	Haig	Three Channels			4.72	125		.6	13	0	255P 316P	"
62	3/5	Lindsay-Ingram	24.	13.83	6.26	5.00	87		.6	8	0	1153A 1205P	FC 28
63	3/5	Haig-Galbraith	22.5	11.15	4.15	4.88	46		.6	7	-.01	1014P 1026P	FC 36
64	3/6	" "	22.5	19.41	5.20	5.18	101		.6	9	+.05	305P 316P	"
65	3/7	" "	19.0	5.02	2.96	4.99	15		.6	10	+.02	616P 626P	"
66	3/8	" "	21.0	4.98	2.61	5.05	13		.6	7	0	1102A 1109A	FC 1
67	3/10	Haig	16.5	21.3	1.20	4.94	26		.6	9	-.01	1203P 1217P	"
68	3/12	Lindsay-Ingram	24.0	11.64	4.65	5.16	54		.6	6	+.06	303A 314A	FC 28



F. C. Dist. Form 52 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F104R

Daily discharge, in second-feet of EATON WASH at Sunset Ave., for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0	17	0	0	1.8	0	0	0	0	0
2		0	0	3.2	0	0.4	4.0	0	0	0	0	0
3		0	0	0	0	4.6	1.1	0	0	0	0	0
4		0	0.1	0	0	2.2	1.5	0	0	0	0	0
5	flow	0	0	2.8	0.8	0.9	2.6	0	0	0	0	0
6		0	0	2.8	5.6	2.2	1.9	0	0	0	0	0
7	+	0	0	0	+	1.8	0	0	0	0	0	0
8		0	0	0	0	1.0	1.8	0	0	0	0	0
9		0	0	0	0	1.0	1.4	0	0	0	0	0
10	days of	0	0	0	+	0.6	1.0	0	0	0	0	0
11		0	0	0	0	0.2	1.8	0	0	0	0	0
12	during period	0	0	0.5	0	0.5	3.0	0	0	0	0	0
13		0	0	+	2.8	11	4.4	0	0	0	0	0
14	dates unknown.	0	0.7	0	5.0	0	0	0	0	0	0	0
15		0	1.7	0	1.7	2.9	0	0	0	0	0	0
16	+	0	0.4	0	0	0.9	0	0	0	0	0	0
17	+	0	0	0	0	0	0	0	0	0	0	0
18	5.5	0	0	0	2.1	0	0	0	0	0	0	0
19	0	0	0	0	6.5	0	0	0	0	0	0	0
20	0	0	0	0	0	+	0	0	0	0	0	0
21	0	0	0	0	0	0.2	0	0	0	0	0	0
22	0	0	0	0	1.2	1.3	0	0	0	0	0	0
23	0	0	0	0	1.3	4.6	0	0	0	0	0	0
24	0	0	0	0	2.9	5.5	0	0	0	0	0	0
25	0	0	3.0	0	4.0	1.8	0	0	0	0	+	0
26	0	0	0	0	0	2.2	+	0	0	0	0	0
27	0	0	10.1	0	0	1.0	0	0	0	0	0	0
28	0	0	2.6	0	0	1.4	0	0	0	0	0	0.1
29	1.6	0	2.0	0.2		1.8	0	0	0	0	0	0.5
30	+	0	6.1	7.5		1.4	0	0	0	0	0	0.4
31	0.7		5.6	0		1.8		0		0	0	
	7.8	+	267.2	34.0	226.5	91.0	26.3	0	0	0	+	1.0
Mean	.25	+	8.62	1.10	8.09	2.94	8.77	0	0	0	+	.03
Acre-Feet	15	+	530	67	449	180	52	0	0	0	+	2.0

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

Year or Period Mean 1.79
Acre-Feet 1300

F. C. Dist. Form 52 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

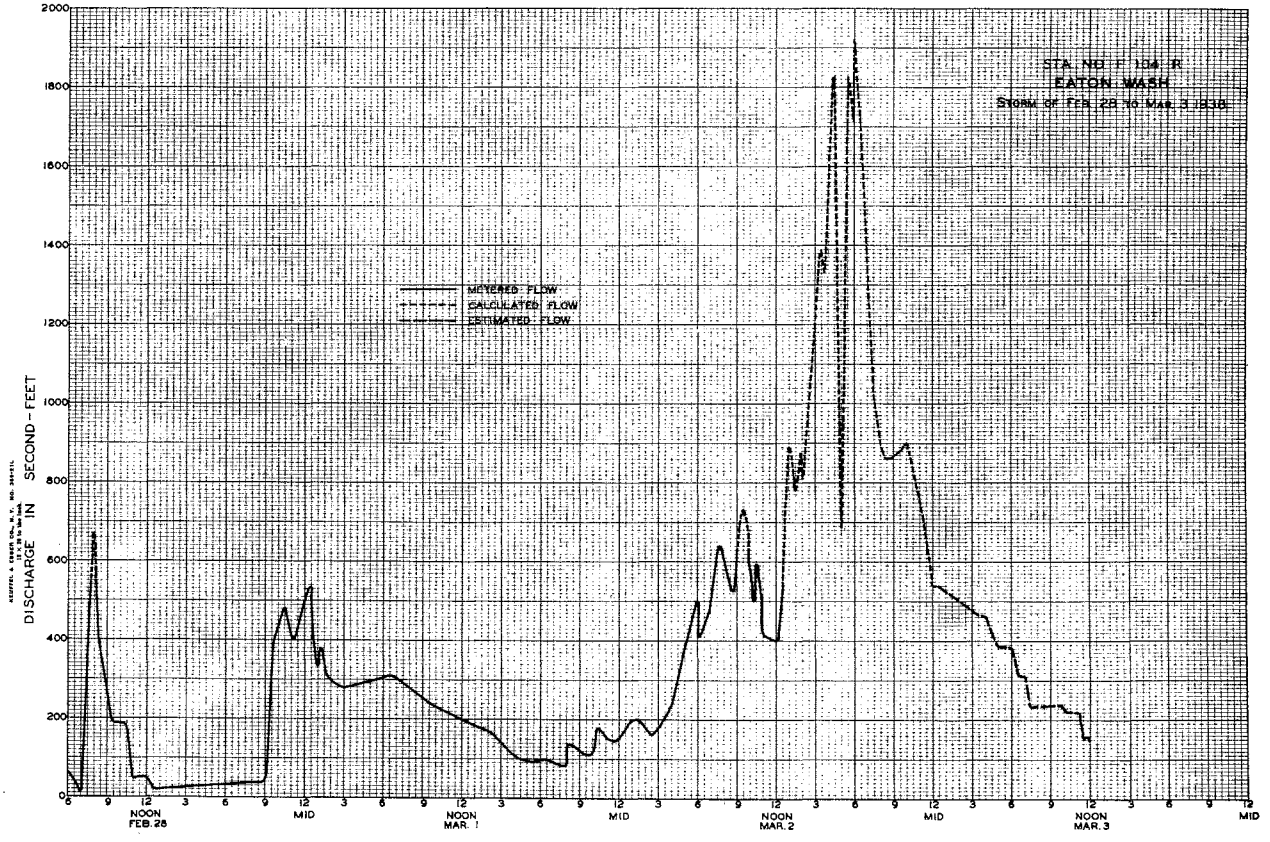
Sta. No. F104R

Daily discharge, in second-feet of EATON WASH at Sunset Ave., for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0	0	3.8	205	0	0	0	0	0	0
2	+	+	0	0	0	72.4	0	0	0	0	0	0
3	+	0	0	0	2.9	251	0	0	0	0	0	0
4	+	+	0	0	4.5	138	0	0	0	0	0	0
5	+	0	0	0	0	92	0	0	0	+	0	0
6	+	+	0	0	0	100	0	0	0	0	0	0
7	+	+	0	0	0	52	0	0	+	0	0	0
8	+	0	0	0	+	23	0	0	+	0	0	0
9	0	+	+	0	30	34	0	0	0	0	0	0
10	+	+	+	0	0	44	0	0	0	0	0	0
11	+	+	44	0	18	0	0	0	0	0	0	0
12	+	+	0	0	3.5	13	0	0	0	0	0	0
13	+	0	0	+	0	14	0	0	0	0	0	0
14	+	0	0	+	0	0	+	0	0	0	0	0
15	+	+	0	2.0	0	7.5	0	0	0	0	0	0
16	+	+	0	0	0	16	0	0	0	0	0	0
17	0	+	0	0	0	8	0	0	0	0	0	0
18	+	+	0	0.5	1.1	9.5	0	0	0	0	0	0
19	+	+	0	+	2.6	11	0	0	0	0	0	0
20	+	0	0	0	0	5	0	0	0	0	0	0
21	+	+	0	0	0	0	0	0	0	0	0	0
22	+	+	0	0	0	0	0	0	0	0	0	0
23	+	+	2.2	0	0	0	0	0	0	+	0	0
24	+	+	0	0	0	0	0	0	0	0	0	+
25	+	+	0	0	0	0	0	0	0	0	0	0
26	+	0	8	0	0	0	0	0	0	0	0	0
27	+	0	0	0	19	0	0	0	0	0	0	0
28	+	0	0	+	118	0	0	0	0	0	0	0
29	+	0	0	0.3		6	0	0	0	0	0	0
30	0	+	0	0		0.8	0	0	0	0	0	0
31	+		0	0		0		0		0	0	
	+	+	54.2	20.8	263.7	1763.8	+	0	+	+	0	+
Mean	+	+	1.74	.67	9.41	56.9	+	0	+	+	0	+
Acre-Feet	+	+	108	41	524	3500	+	0	+	+	0	+

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

Year or Period Mean 5.76
Acre-Feet 4170



STATION F65R

LITTLE DALTON CREEK at mouth of canyon

LOCATION:

On west (right) 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 downstream from 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 a 21 inch diameter, corrugated iron pipe stilling well.
A 7 day horizontal Rational recorder in service October 1, 1936, was replaced January 3, 1938 with an H.C.F. continuous recorder.

REGULATION:

None.

DIVERSIONS:

Glendora Consolidated Mutual Water Company.

RECORDS AVAILABLE:

January 28, 1929 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-37
Maximum 140 second-feet December 31.
Minimum no flow for several months.
1937-38
Maximum 960 second-feet, estimated, March 2.
Minimum no flow for several months.
1929-38
Maximum 960 second-feet, estimated, March 2, 1938.
Minimum no flow at times all years.

ACCURACY:

Fair.

Estimated:
March 3-12, 1938.
Communication trouble April 15-19, 1938.
Interpolated:
May 22-24, 1938.
Estimated:
May 26-31, 1938.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District with cooperation of the 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, 19 37

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.	ESTI-MATE	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/29	Brewster	3.0	.55	.98	.34	.55		.6	3	-.01	700P 705P	FC 8
2	10/31	"	4.0	1.03	1.34	.39	1.4		.6	4	-.02	600A 605A	"
3	12/15	"	3.0	.54	1.74	.48	.95		.6	3	0	630A 634A	"
4	12/15	"	3.0	.62	.98	.42	.55		.6	3	0	1030A 1034A	"
5	12/15	"	3.0	.60	1.87	.50	1.1		.6	3	0	200P 205P	"
6	12/16	"	0.5	.06	.33	.24	.02		.6	1	0	830A 832A	"
7	12/25	"	5.0	1.68	2.00	.57	3.4		.6	5	-.02	600A 606A	"
8	12/27	"	9.0	3.59	3.91	.87	14.		.6	5	-.04	1002A 1011A	"
9	12/27	"	4.0	1.21	3.81	.59	4.6		.6	4	+.02	755P 800P	"
10	12/28	"	5.0	1.46	5.70	.74	8.3		.6	5	-.01	600A 606A	"
11	12/28	"	4.0	1.15	2.70	.55	3.1		.6	4	0	600P 607P	"
12	12/29	"	3.0	.76	2.09	.41	1.6		.6	3	0	935A 940A	"
13	12/30	"	3.0	.51	1.35	.36	.70		.6	3	0	902A 906A	"
14	12/30	"	4.0	1.03	2.91	.52	3.0		.6	4	+.01	515P 520P	"
15	12/30	Brewster-Pettis	12.0	9.86	7.72	1.56	75.		.6	6	+.03	1018P 1025P	"
16	12/31	" "	11.0	7.78	4.03	1.37	31.		.6	6	-.04	400A 410A	"
17	12/31	Brewster	8.0	4.18	4.06	1.23	17.		.6	5	-.02	805A 812A	"
18	12/31	Brewster-Pettis	6.0	1.55	7.53	1.04	12.		.6	6	0	320P 326P	"
19	1/1	Brewster	5.0	1.56	5.13	.90	8.0		.6	5	0	920A 931A	"
20	1/4	"	4.0	.84	1.56	.62	1.3		.6	4	0	810A 815A	"
21	1/5	"	9.0	3.20	4.24	1.07	14.		.6	5	+.04	930P 936P	"
22	1/6	Brewster-Pettis	6.0	1.82	3.19	.76	5.9		.6	6	0	500A 510A	"
23	1/6	Brewster	5.0	1.52	3.24	.70	4.9		.6	5	0	314P 320P	"
24	1/7	"	4.0	1.26	2.21	.68	2.8		.6	4	0	415P 421P	"
25	1/12	Brewster	3.0	.82	1.46	.65	1.2		.6	3	0	855A 900A	FC 8
26	1/14	"	4.0	.89	1.54	.65	1.4		.6	4	0	420P 425P	"
27	1/21	"	3.0	.55	1.00	.61	.65		.6	3	0	427P 431P	"
28	1/28	"	3.0	.63	1.00	.59	.65		.6	3	0	326P 330P	"
29	1/30	"	8.0	3.55	4.05	1.08	15.		.6	5	-.03	503P 510P	"
30	1/31	"	4.0	.95	3.78	.68	3.6		.6	4	0	920A 926A	"
31	2/4	"	3.0	.84	1.50	.63	1.3		.6	3	0	430P 435P	"
32	2/6	"	4.0	1.30	2.81	.68	3.6		.6	4	0	500A 510A	"
33	2/6	Brewster-Pettis	10.0	6.46	6.80	1.24	44.		.6	5	-.02	255P 302P	"
34	2/6	" "	11.0	7.91	6.97	1.36	55.		.6	6	-.03	815P 825P	"
35	2/7	" "	8.0	4.56	7.81	1.10	36.		.6	5	-.04	840A 846A	"
36	2/8	Brewster	8.0	3.73	3.09	.87	12.		.6	5	0	930A 937A	"
37	2/11	"	5.0	2.35	2.11	.71	5.0		.6	5	0	435P 442P	"
38	2/13	Brewster-Pettis	10.0	7.26	4.77	1.14	35.		.6	5	0	850P 900P	"
39	2/14	" "	11.0	9.57	7.62	1.42	73.		.6	6	-.05	230A 245A	"
40	2/14	" "	10.0	7.14	5.63	1.19	40.		.6	5	-.02	735A 745A	"
41	2/14	Brewster	7.0	5.59	5.47	1.04	31.		.6	4	-.01	1210P 1220P	"
42	2/15	"	8.0	5.84	3.09	.95	18.		.6	4	0	1040A 1046A	"
43	2/18	"	7.0	3.94	2.46	.82	9.7		.6	4	0	505P 515P	"
44	2/24	"	6.0	2.84	1.44	.66	4.1		.6	4	0	410P 420P	"
45	2/25	"	7.0	3.89	1.96	.76	7.6		.6	4	-.01	340P 348P	"
46	3/4	"	6.0	2.15	1.33	.61	2.9		.6	4	0	430P 436P	"
47	3/11	"	5.0	1.91	1.29	.55	2.5		.6	5	0	445P 453P	"
48	3/12	"	5.0	2.88	1.90	.74	5.5		.6	5	0	1040A 1050A	"
49	3/13	Brewster	11.0	10.29	3.37	1.14	35.		.6	6	-.02	500A 510A	FC 8
50	3/13	Brewster-Pettis	6.0	4.20	4.33	.94	18.		.6	4	-.01	955A 1005A	"
51	3/15	" "	10.0	9.18	5.59	1.36	51.		.6	5	-.03	830P 840P	"
52	3/16	" "	7.0	4.10	4.11	.86	17.		.6	5	-.01	1215A 1225A	"
53	3/16	Brewster	6.0	3.10	4.59	.79	14.		.6	6	0	930A 940A	"
54	3/18	"	8.0	3.88	2.45	.77	9.5		.6	5	0	345P 353P	"
55	3/22	Brewster-Pettis	9.0	4.50	3.83	.88	17.		.6	5	-.01	700A 710A	"
56	3/22	" "	5.0	2.92	4.17	.78	12.		.6	5	0	545P 555P	"
57	3/24	" "	6.0	3.76	4.08	.78	15.		.6	4	0	838P 845P	"
58	3/25	Brewster	8.0	3.86	1.87	.75	7.2		.8	4	0	420P 428P	"
59	3/29	"	8.0	3.74	1.71	.72	6.4		.6	4	0	835A 843A	"
60	4/1	"	8.0	3.54	1.74	.69	6.2		.6	4	0	435P 445P	"
61	4/5	"	8.0	3.30	1.54	.66	5.1		.6	4	0	850A 858A	"
62	4/8	"	8.0	2.92	1.40	.60	4.1		.6	4	0	405P 413P	"
63	4/15	"	5.0	1.99	1.48	.56	2.9		.6	5	0	935A 943A	"
64	4/22	"	5.0	1.80	1.16	.51	2.1		.6	5	0	500P 508P	"
65	4/29	"	5.0	1.42	.99	.46	1.4		.6	5	0	420P 428P	"
66	5/6	"	4.0	1.16	1.00	.43	1.2		.6	4	0	435P 441P	"

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 65 R

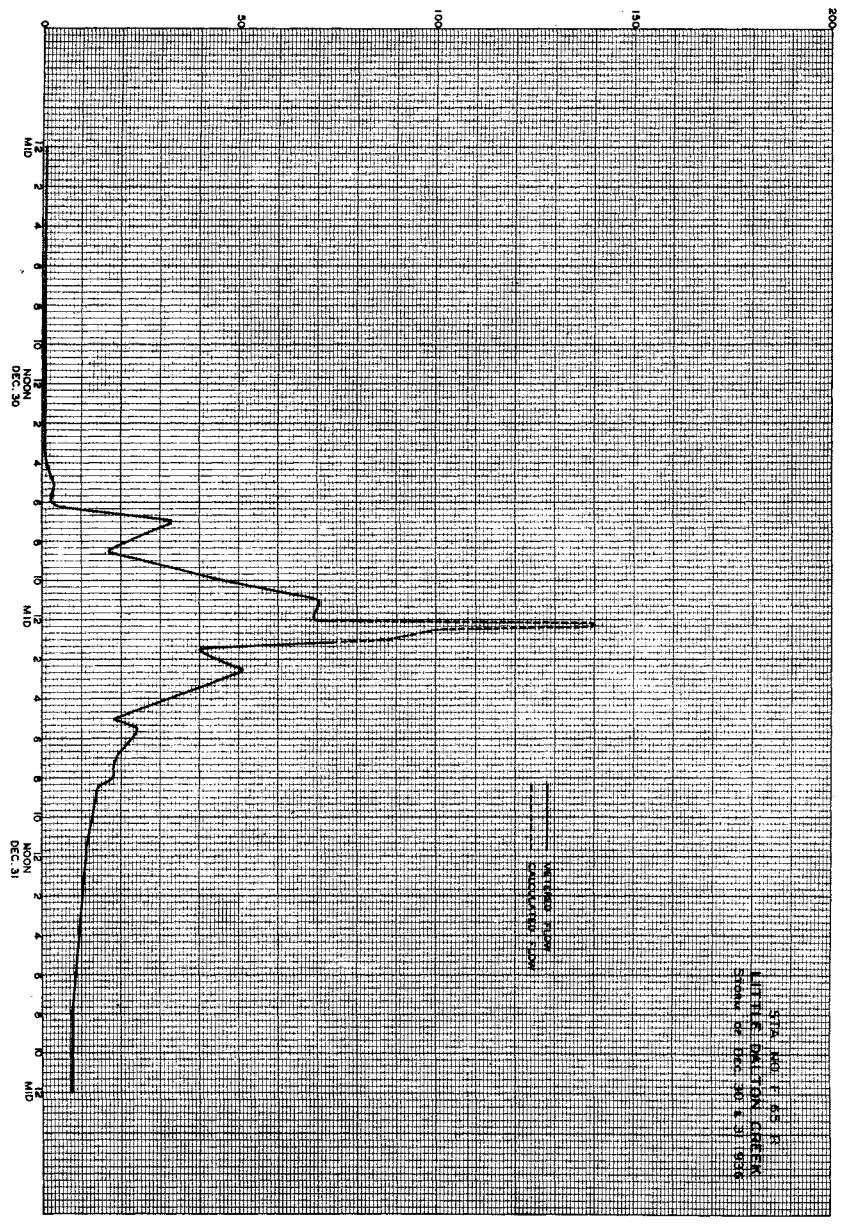
DISCHARGE MEASUREMENTS OF LITTLE DALTON CREEK

AT mouth of canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	ESTI-MATE	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
68	12/11	Brewster-Pettis	4.0	1.43	1.47	0.61	2.1		.6	4	-.02	620P 625P	FC 8
69	12/11	" "	3.0	0.79	1.24	0.40	1.0		.6	3	-.01	946P 950P	"
70	12/12	Brewster	0.5	0.11	1.66	0.20	0.10		.6	1	0	805A 808A	"
71	12/23	"	4.0	0.96	1.41	0.49	1.4		.6	4	-.02	508A 515A	"
72	12/23	"	1.0	0.24	0.92	0.28	0.22		.6	2	0	240P 245P	"
73	12/30	"	1.0	0.23	0.74	0.26	0.17		.6	2	0	305P 310P	"
74	1/13	"	0.5	0.12	1.00	0.24	0.12		.6	1	0	312P 315P	"
75	1/15	"	4.0	1.84	1.47	0.62	2.7		.6	1	-.04	745A 755A	"
76	1/15	Brewster-Pettis	9.0	5.14	3.18	0.82	16		.6	5	-.04	1116A 1128A	"
77	1/15	" "	4.0	1.01	3.50	0.43	3.5		.6	4	0	435P 440P	"
78	1/20	Brewster	2.0	0.28	0.79	0.30	0.22		.6	2	0	340P 342P	"
79	1/27	"	2.0	0.32	0.62	0.26	0.20		.6	3	0	240P 242P	"
80	2/1	Brewster-Pettis	6.5	2.41	4.08	0.76	9.9		.6	6	-.02	452A 500A	"
81	2/1	Brewster	2.3	0.46	2.63	0.42	1.2		.6	4	0	202P 205P	"
82	2/3	"	7.0	4.31	3.00	0.74	13		.6	4	0	315P 322P	"
83	2/3	"	7.0	5.16	3.38	0.79	17		.6	4	-.02	400P 408P	"
84	2/9	"	5.0	1.19	2.00	0.54	2.4		.6	5	0	848A 854A	"
85	2/9	Brewster-Pettis	6.0	2.08	1.39	0.72	5.6		.6	5	-.01	215P 225P	"
86	2/10	Brewster	7.0	1.41	1.07	0.50	1.5		.6	4	0	254P 300P	"
87	2/11	Brewster-Pettis	11.0	7.07	5.84	1.25	41		.6	6	+.20	130P 140P	"
88	2/11	" "	8.0	4.58	5.20	0.99	24		.6	4	-.02	155P 205P	"
89	2/17	Brewster	6.0	1.45	1.26	0.49	1.8		.6	4	0	252P 300P	"
90	2/24	"	4.0	.80	1.28	0.44	1.0		.6	4	0	310P 316P	"
91	2/27	"	11.0	4.50	2.38	0.72	11		.6	6	0	1047A 1057A	"
92	2/27	Brewster-Pettis	8.0	2.88	2.22	0.66	6.4		.6	4	0	1155A 1202P	FC 8
93	2/28	" "	15.0	15.40	7.26	1.31	112		.6	8	+.18	750A 758A	"
94	2/28	" "	10.0	7.04	6.88	1.32	48		.6	5	-.04	838A 845A	"
95	3/1	" "	10.0	5.80	7.17	1.55	42		.6	5	0	1128A 1135A	"
96	3/2	" "	13.0	16.25	9.29	2.04	151		.6	7	+.01	620A 630A	"
97	3/3	" "	19.0	17.45	9.43		164		.6	5		510P 520P	"
98	3/7	" "	9.0	6.03	3.04		18		.6	5		1000A 1010A	"
99	3/9	Brewster	8.0	5.08	3.11	3.42	16		.6	5	0	620P 630P	"
100	3/10	"	9.0	6.48	1.83	3.60	12		.6	5	0	420P 430P	"
101	3/12	Brewster-Pettis	10.0	8.30	3.87	3.31	32		.6	5	0	540A 550A	"
102	3/12	" "	9.0	6.25	3.37	3.16	21		.6	5	-.02	115P 125P	"
103	3/13	Brewster	8.0	7.50	3.33	2.98	25		.6	5	0	320P 330P	"
104	3/15	"	10.0	6.00	3.32	2.96	20		.6	5	0	1146A 1155A	"
105	3/17	"	10.0	6.42	2.46	2.99	16		.6	5	0	215P 225P	"
106	3/24	"	5.0	3.80	2.63	2.85	10		.6	5	0	1222P 1230P	"
107	3/31	"	5.0	3.34	2.10	2.76	7.0		.6	5	0	103P 111P	"
108	4/7	"	5.0	2.94	1.57	2.70	4.6		.6	5	0	1110A 1119A	"
109	4/14	"	4.0	2.46	1.54	2.68	3.8		.6	4	0	1130A 1136A	"
110	4/21	"	4.0	2.01	1.45	2.60	2.9		.6	4	0	1015A 1021A	"
111	4/28	"	4.0	1.56	0.89	2.50	1.4		.6	4	0	250P 256P	"
112	5/5	"	4.0	1.76	1.22	2.51	2.2		.6	4	0	325P 332P	"
113	5/12	"	1.5	0.41	0.68	2.36	0.28		.6	3	0	435P 440P	"
114	5/19	"	1.5	0.36	0.69	2.31	0.25		.6	3	0	330P 335P	"

KEUFFEL & ESSER CO., N. Y. No. 340-21L
12 X 18 to the inch.

DISCHARGE IN SECOND-FEET



F. C. Dist. Form 51 150 5-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F65R

Daily discharge, in second-feet of LITTLE DALTON CREEK at mouth of canyon, for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	4.8	2.8	3.4	6.5	0.9	0	0	0	0
2	0	0	0	1.5	1.9	3.2	6.5	0.3	0	0	0	0
3	0	0	0	1.4	1.5	3.0	6	0.9	0	0	0	0
4	0	0	0	1.3	1.3	2.8	5.5	1.4	0	0	0	0
5	0	0	0	2.6	1.4	2.8	5	0.9	0	0	0	0
6	0	0	0	6	37	2.8	5	0.6	0	0	0	0
7	0	0	0	3.0	27	2.8	5	0.9	0	0	0	0
8	0	0	0	2.6	11	2.6	4.5	0	0	0	0	0
9	0	0	0	2.3	8	2.6	4.2	0	0	0	0	0
10	0	0	0	1.9	6	2.8	4.2	0	0	0	0	0
11	0	0	0	1.5	5.5	2.4	3.9	0	0	0	0	0
12	0	0	0	1.3	5.5	6.5	3.6	0	0	0	0	0
13	0	0	0	1.5	1.2	16	3.4	0	0	0	0	0
14	0	0	0.4	1.5	4.1	8.5	3.2	0	0	0	0	0
15	0	0	1.1	1.3	1.8	15	3.0	0	0	0	0	0
16	0	0	0.2	1.2	1.4	1.4	3.0	0	0	0	0	0
17	0	0	0	1.1	1.2	1.2	2.6	0	0	0	0	0
18	0	0	0	0.9	1.0	1.0	2.4	0	0	0	0	0
19	0	0	0	0.8	8.5	9.5	2.4	0.6	0	0	0	0
20	0	0	0	0.7	7.5	9.5	2.4	0.2	0	0	0	0
21	0	0	0.6	6.5		9.5	2.3	0	0	0	0	0
22	0	0	0	0.6	6	1.4	2.1	0	0	0	0	0
23	0	0	0	0.7	5.5	1.2	2.1	0	0	0	0	0
24	0	0	0	0.7	5.5	1.4	1.9	0	0	0	0	0
25	0	0	0.7	0.7	6.5	9	1.9	0	0	0	0	0
26	0	0	0.2	0.8	5.5	6.5	1.7	0	0	0	0	0
27	0	0	1.2	0.7	4.2	6.5	2.1	0	0	0	0	0
28	0	0	7.5	0.6	3.9	7	1.8	0	0	0	0	0
29	0.1	0	1.5	0.9		6.5	1.5	0	0	0	0	0
30	+	0	1.0	3.0		6.5	1.5	0	0	0	0	0
31	0.5		2.0	4.2		6.5		0		0	0	
	0.6		53.6		275.5		101.2		0		0	
		0		52.7		230.2		6.7		0		0
Mean	.02	0	1.73	1.70	9.84	7.43	3.37	.22	0	0	0	0
Acre-Feet	1.2	0	106	105	546	457	201	13	0	0	0	0

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

Year or Period — Mean 1.97 — Acre-Feet 1430

F. C. Dist. Form 51,150 5-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

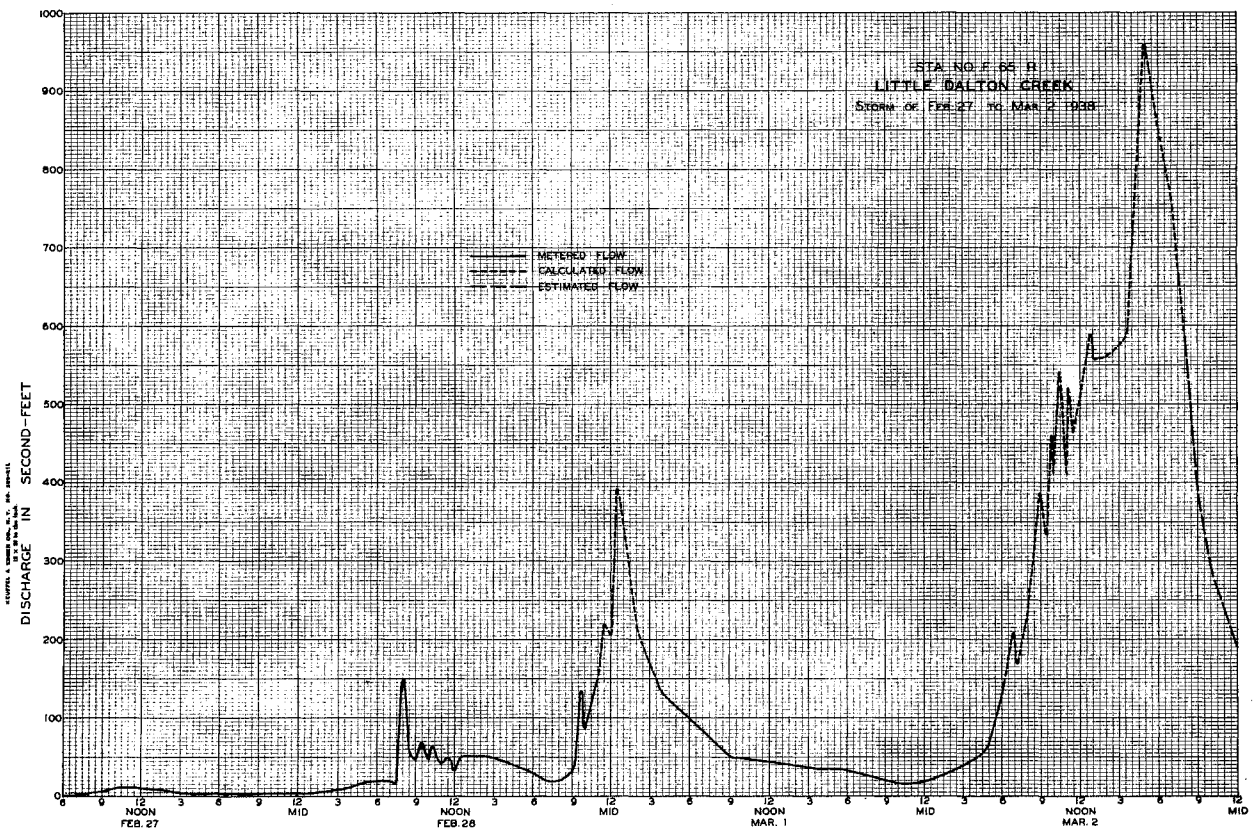
Sta. No. F65R

Daily discharge, in second-feet of LITTLE DALTON CREEK at mouth of canyon, for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.2	2.0	8.1	6.5	4.3	0	0	0	0
2	0	0	0	0.1	0.8	38.1	6	4.5	0	0	0	0
3	0	0	0	0.1	9.5	105	6	4.3	0	0	0	0
4	0	0	0	0.1	5.5	66	6	3.3	0	0	0	0
5	0	0	0	0.1	3.0	30	5.5	3.1	0	0	0	0
6	0	0	0	0.1	2.1	23	5	2.8	0	0	0	0
7	0	0	0	0.1	1.8	18	4.8	2.5	0	0	0	0
8	0	0	0	0.1	1.5	18	4.8	2.1	0	0	0	0
9	0	0	0	0.1	3.3	17	4.5	1.7	0	0	0	0
10	0	0	0	0.1	1.6	12	4.5	1.4	0	0	0	0
11	0	0	0.5	0.1	6	12	4.3	0.4	0	0	0	0
12	0	0	0.1	0.1	5.5	31	4.3	0.3	0	0	0	0
13	0	0	0	0.1	4.2	30	4.3	0.5	0	0	0	0
14	0	0	0	0.2	3.2	22	4.1	0.4	0	0	0	0
15	0	0	0	4.8	2.6	20	3.8	0.4	0	0	0	0
16	0	0	0	2.1	2.4	19	3.8	0.5	0	0	0	0
17	0	0	0	1.3	1.9	16	3.3	0.4	0	0	0	0
18	0	0	0	0.4	2.1	15	3.1	0.4	0	0	0	0
19	0	0	0	0.4	2.6	15	3.1	0.3	0	0	0	0
20	0	0	0	0.3	1.6	14	3.6	0.3	0	0	0	0
21	0	0	0	0.3	1.5	13	3.3	0.3	0	0	0	0
22	0	0	0	0.3	1.1	12	2.6	0.2	0	0	0	0
23	0	0	0.3	0.3	1.2	12	2.6	0.1	0	0	0	0
24	0	0	0.1	0.2	1.1	10	3.3	0	0	0	0	0
25	0	0	0.1	0.1	1.0	9.5	4.1	0	0	0	0	0
26	0	0	0.3	0.2	1.0	9	3.8	0.1	0	0	0	0
27	0	0	0.3	0.2	3.7	8.5	3.3	0.2	0	0	0	0
28	0	0	0.2	0.2	4.5	8.5	3.1	0.2	0	0	0	0
29	0	0	0.2	0.3		8	2.9	0.1	0	0	0	0
30	0		0.2	0.3		7.5	3.6	0.1	0	0	0	0
31	0		0.2	0.3		7		+		0	0	
	0		2.5		119.2		124.1		0		0	
		0		13.7		1050.0		35.2		0		0
Mean	0	0	.08	.44	4.26	33.9	4.14	1.14	0	0	0	0
Acre-Feet	0	0	5.0	27	236	2080	246	70	0	0	0	0

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

Year or Period — Mean 3.68 — Acre-Feet 2660



STATION L1R

LITTLE ROCK CREEK 2 miles above Little Rock Dam

LOCATION:

Above Little Rock Palmdale Irrigation District's Dam, approximately 1000 feet upstream from the junction of Little Rock and Santiago Creeks.

DRAINAGE AREA:

49.0 square miles.

CHANNEL AND CONTROL:

Gravel and boulders.
Artificial control, with notch for low flows.

DISCHARGE MEASUREMENTS:

At low flow by wading near gage.
At high flows from cable car estimated 75 feet above gage.

RECORDER:

Installed September, 1930 in a standard size house over a 14 inch black iron pipe stilling well.
A Stevens continuous recorder was in service from October 1, 1936 until the house and well were washed out during the March 2, 1938 storm.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

October 1, 1930 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 1550 second-feet February 6.
Minimum no flow at various times.
1937-1938
Maximum 17000 second-feet, estimated, March 2.
Minimum no flow part of year.
1930-1938
Maximum 17000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Good.
Interpolated between measurements and known gage heights May 17 to June 24, 1937.
No record from February 25 to September 30, 1938.
Flow estimated from curve between measurements May 1 to September 30, 1938.

OPERATION:

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.

F. C. D. FORM 104 IN 9-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. L 1 R

DISCHARGE MEASUREMENTS OF LITTLE ROCK CREEK

~~xxx~~ 2 miles above Little Rock Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	11/7	Luce	3.0	.80	.99	.11	.80		.6	4	0	400P 405P	FC 13
2	12/4	Luce-Paul	3.6	.98	1.28	.17	1.3		.6	6	0	420P 428P	"
3	12/28	Luce	5.6	5.65	2.58	.65	14.		.6	10	0	1130A 1137A	"
4	1/28	"	6.9	4.25	1.36	.45	8.5		.6	10	0	1255P 105P	"
5	2/7	"	54.	133.	7.30	3.85	968.		.6	11	-.30	1205A 1215A	FC 35
6	2/7	Miller-Barclay	64.	120.	6.11	3.52	772.		.6	11	+.00	245A 325A	"
7	2/7	" "	49.	104.	6.37	3.47	663.		.6	10	-.05	445A 510A	"
8	2/7	" "	48.	110.	5.98	3.33	660.		.6	9	-.05	600A 650A	"
9	2/26	Luce	17.	15.6	2.04	1.42	41.		.6	9	0	500P 515P	FC 25
10	3/16	Luce-Paul	41.	75.7	4.50	2.58	340.		.6	10	0	305P 620P	"
11	3/16	" "	40.	74.8	4.62	2.58	346.		.6	10	-.01	630P 645P	"
12	4/8	" "	31.5	49.9	1.46	1.70	73.		.6	12	0	321P 335P	FC 13
13	5/28	Luce	8.8	6.3	2.90	.76	18.		.6	10	0	1120A 1130A	FC 13
14	6/25	"	8.5	2.97	1.31	.33	3.9		.6	10	0	100 110P	"
15	7/17	"	6.6	1.31	.80	.16	1.0		.6	8	0	650A 700A	"
16	8/13	"	1.0	.13	.92	.08	.12		.6	5	0	415P 420P	"

F. C. D. FORM 104 IN 9-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. L 1 R

DISCHARGE MEASUREMENTS OF LITTLE ROCK CREEK

~~xxx~~ 2 miles above Little Rock Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
17	12/17	Luce	8.3	1.54	.97	0.18	1.5		.6	10	0	215P 230P	FC 39
18	1/22	"	8.8	3.89	1.87	0.42	7.3		.6	10	+.01	150P 200P	"
19	1/22	"	8.8	3.91	1.75	0.42	6.9		.6	11	0	220P 230P	"
20	2/1	Luce-Skelly	8.8	6.79	3.05	0.75	21.		.6	8	0	200P 210P	"
21	2/1	" "	8.8	6.89	3.01	0.74	21.		.6	10	-.01	225P 235P	"
22	2/25	Luce-B. Luce	9.7	10.44	3.33	1.08	35.		.6	9	0	325P 335P	"
23	2/25	" "	9.7	10.53	3.28	1.09	35.		.6	9	0	335P 350P	"
24	2/27	Luce-Skelly	47.0	98.3	5.84	3.20	574.		.6	9	-.04	750P 815P	FC 25
25	2/27	" "	48.0	106.2	5.29	3.18	562.		.6	9	-.01	820P 855P	FC 39
26	2/27	" "	47.0	96.0	5.83	3.18	560.		.6	9	-.01	910P 935P	FC 25
27	5/1	Luce-M. Luce	19.3	15.17	2.48		38.		.6	10		900A 910A	FC 39
28	7/15	Luce	7.5	2.39	1.06		2.5		.6	7		305P 315P	"
29	8/12	"	3.3	.71	1.27		0.90		.6	4		1115A 1120A	"
30	9/23	"	3.0	.60	.98		0.60		.6	5		1030A 1040A	"

F. C. Dwg. Form 52 196 9-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. L1R

LITTLE ROCK CREEK 2 mi. above Little Rock Dam

Daily discharge, in second-feet of ..... for the year ending September 30, 19 28

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.6	3.1	15			39	14	4.7	1.2	0.7
2	0	0	0.7	2.8	13			37	14	4.5	1.2	0.7
3	0	0	0.7	2.6	13			36	13	4.4	1.1	0.7
4	0	0	0.7	2.4	13			35	13	4.2	1.1	0.7
5	0	0	0.7	2.4	57			34	12	4.0	1.1	0.7
6		0	0.7	2.2	17			33	12	3.8	1.0	0.7
7		0	0.8	2.1	14			32	11	3.7	1.0	0.7
8		0	0.8	2.1	13			31	11	3.5	1.0	0.7
9		0	0.8	1.9	29			31	11	3.4	1.0	0.7
10		0	0.8	1.7	53			30	10	3.2	1.0	0.7
11		0	1.4	1.7	186			29	10	3.1	0.9	0.7
12		0	10	1.6	107			28	9.5	3.0	0.9	0.7
13		0	4.8	1.6	54			27	9	2.8	0.9	0.6
14		0	2.8	1.6	40			26	9	2.7	0.9	0.6
15		0	2.1	53	32			25	8.5	2.5	0.9	0.6
16		0	1.6	4.1	26			25	8	2.4	0.8	0.6
17		0	1.5	1.7	22			24	7.5	2.2	0.8	0.6
18		0	1.4	1.2	21			23	7.5	2.1	0.8	0.6
19		0	1.3	1.8	21			22	7	2.0	0.8	0.6
20		0	1.3	1.5	21			22	7	1.9	0.8	0.6
21		0	1.2	8	19			21	7	1.8	0.8	0.6
22		0	1.2	7	20			20	6.5	1.8	0.8	0.6
23		0	1.7	6.5	24			19	6.5	1.7	0.8	0.6
24		0	2.8	6.5	29			19	6	1.6	0.8	0.6
25		0	5.5	5.5				18	5.5	1.6	0.8	0.6
26		0	2.5	5				18	5.5	1.6	0.8	0.6
27		0	1.2	5				17	5.5	1.5	0.8	0.6
28		0	7	5				16	5.5	1.4	0.8	0.6
29		0	5.5	5				16	5.9	1.3	0.8	0.6
30		0	3.9	5				15	6.1	1.3	0.8	0.6
31		0	3.3	5							0.8	
	0	4.8	78.5	235.0 (Feb.1-24)	874			782	265.4	81.8	27.9	19.2
Mean	0	.16	2.53	7.6				25.2	8.78	2.64	.90	.64
Acre-Feet	0	9.5	156	466	1730			1550	522	162	55	38

Remarks: Total acre-feet for year does not include discharge between 2/24 and 5/1.

Year or Period Mean Acre-Feet 4690 1no.

F. C. Dwg. Form 52 196 9-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. L1R

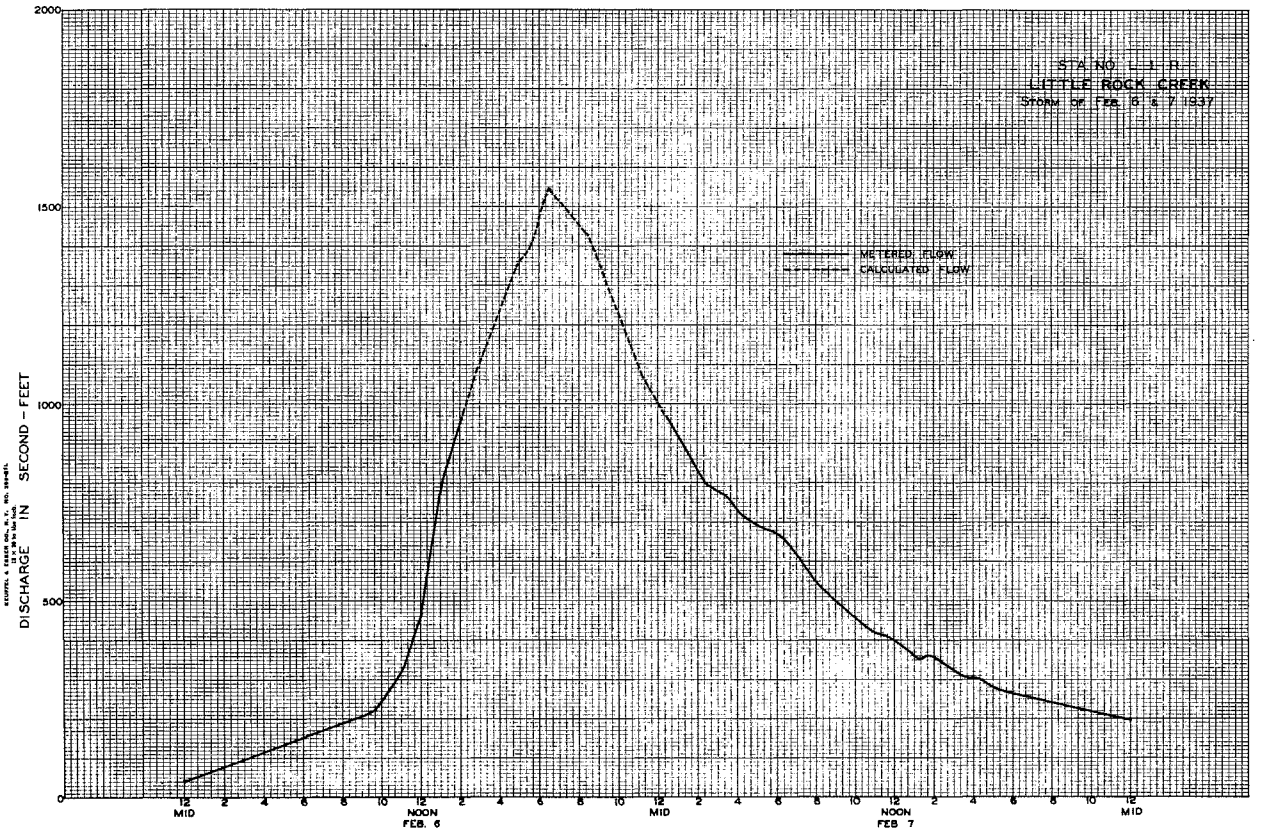
LITTLE ROCK CREEK 2 mi. above Little Rock Dam

Daily discharge, in second-feet of ..... for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1	1.3	1.3	9	40	88	51	15	3.3	0.1	0
2	0	0.4	1.3	9.5	9	41	87	53	15	3.0	0.1	0
3	0	0.4	1.4	8.5	9	44	85	55	14	2.6	0.1	0
4	0	0.4	1.5	8.5	9	43	82	56	14	2.4	0.1	0
5	0	0.6	1.5	7.5	15	45	76	56	13	2.4	0.1	0
6		0.8	1.6	8.5	679	46	79	55	12	2.2	0.1	0
7		0.8	1.6	8.5	468	47	78	52	12	1.6	0.1	0
8		1.0	1.7	7.5	122	50	76	52	11	1.6	0.1	0
9		1.2	1.7	7	71	52	78	51	11	1.4	0.1	0
10		1.2	1.7	7	56	52	82	50	10	1.4	0.1	0
11		1.3	1.7	7.5	48	55	80	48	9	1.3	0.1	0
12		1.3	1.9	8.5	47	1520	80	48	9	1.3	0.1	0
13		1.4	2.1	8.5	161	2220	80	49	8	1.3	0.1	0
14		1.5	1.8	8	691	118	94	47	8	1.3	0.1	0
15		1.5	1.2	8.5	194	474	115	47	8	1.2	0.1	0
16		1.5	2.1	8.5	114	238	89	47	7	1.0	0.1	0
17		1.3	2.6	9	77	179	78	45	7	0.7	0.1	0
18		1.3	1.4	9	56	130	75	39	6	0.7	0.1	0
19		1.3	1.0	9.5	57	113	74	36	5.5	0.5	0.1	0
20		1.3	1.0	9.5	53	101	74	34	5	0.5	0.1	0
21		1.3	9	7.5	53	105	79	31	4.8	0.5	0.1	0
22		1.3	8.5	9	52	89	77	29	4.5	0.5	0.1	0
23		1.3	7.5	8.5	53	93	77	26	4.1	0.5	0.1	0
24		1.2	6.5	8.5	52	51	63	24	3.9	0.5	0.1	0
25		1.0	7.5	8.5	51	77	64	22	4.1	0.4	0.1	0
26		1.2	7	8	42	74	64	20	4.2	0.4	0.1	0
27		1.2	12	8.5	41	73	62	18	4.3	0.4	0.1	0
28		1.3	16	8.5	40	73	57	17	3.9	0.2	0.1	0
29		1.3	19	10		72	53	16	3.5	0.2	0.1	0
30		1.3	27	10		78	51	16	3.5	0.2	0.1	0
31	0		24	26	3497	3177	2334	1234	243.8	35.4	2.6	0
	0	1.10	7.85	8.54	125	102	77.8	39.8	8.13	1.14	.08	0
Mean	0	65	483	525	6940	6300	4630	2450	484	70	5.2	30.3
Acre-Feet												

Remarks:

Year or Period Mean Acre-Feet 21950



STATION F67R-R

LITTLE SANTA ANITA CR. 270 feet below Sierra Madre Dam

LOCATION:

On the left (east) bank of Little Santa Anita Creek below Sierra Madre Dam, about 1000 feet upstream from prior location (station F67R), and about 1-1/4 miles northeast of Sierra Madre.

DRAINAGE AREA:

2.4 square miles.

CHANNEL AND CONTROL:

Approximately 5 feet deep by 25 feet wide at top and 23 feet wide at bottom of rubble side walls. Sand, gravel and boulders between side walls. There is a concrete check across the channel 9 feet below the station. It is lower on the recorder end. There is also a concrete check across the channel 36 feet above the station.

DISCHARGE MEASUREMENTS:

At low flows by wading near station.
At high flows from foot bridge 30 feet below station.

RECORDER:

Installed May 21, 1936 in a 4 ft. x 3 ft. concrete stilling well which also provides a house. Stevens type L recorder was in service October 1, 1936 to September 30, 1938.

REGULATION:

The valve in the Sierra Madre Dam remains open except in emergency conditions.

DIVERSIONS:

Underground flow developed by Sierra Madre Water Department.

RECORDS AVAILABLE:

From May 21, 1936 to September 30, 1938.
For records previous to May 21, 1936, see station F67R.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 109 second-feet December 27.
Minimum no flow several months during year.
1937-1938
Maximum 620 second-feet, estimated, March 2.
Minimum no flow several months during year.

ACCURACY:

Fair.
Estimated: October 18, 19, 31; December 28-30, 1936; January 8-12, 1937.
Clock stopped: February 6-8, 14-16, March 5-7, April 13, 14, June 1, 2, 1938.

OPERATION:

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

F.C.D. FORM 104 (2) 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 67 B-R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CR.

at 270 ft. below Sierra Madre Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH-OD	MEAS. ACCU. No.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/18	Cole-Lindsay	2.6	.44	1.30	.78	.55		.6	3	0	1118P 1125P	FC 28
2	10/19	Lindsay	1.0	.06	.67	.65	.04		.6	1	0	400P 402P	"
4	10/29	Lindsay and McArthur	2.2	.32	1.00	.70	.32		.6	4	0	941P 945P	"
5	10/31	"	2.8	.61	1.62	.77	1.0		.6	4	+.01	726A 731A	"
6	12/15	"	2.8	2.10	1.10	.74	2.3		.6	4	0	335P 341P	"
7	12/16	Dalton	4.0	.99	1.13	.75	1.1		.6	7		1135A	FC 2
8	12/17	Lindsay	1.7	.31	1.29	.73	.40		.6	3	0	1250P 1253P	FC 28
9	12/27	Lindsay and McArthur	19.0	10.55	5.16	1.46	54.		.6	6	+.01	855A 902A	"
10	12/27	"	11.0	4.54	1.35	.99	6.1		.6	5	-.02	352P 400P	"
11	12/28	"	12.0	4.90	2.81	1.07	14.		.6	6	0	1245A 1252A	"
12	12/30	"	5.2	.93	1.44	.84	1.3		.6	5	0	345P 355P	"
13	12/31	"	5.8	1.67	4.54	1.04	7.6		.6	6	0	102P 108P	"
14	1/6	"	4.2	1.02	1.50	.83	1.5		.6	5	0	1115A 1122A	"
15	1/12	"	3.7	.86	.90	.85	.75		.6	4	0	1145A 1150A	"
16	1/13	Cole	3.5	.76	.99	.75	.75		.6	4	0	235P 245P	FC 7
17	1/20	Lindsay	1.2	.14	1.14	.70	.16		.6	2	0	120P 123P	FC 28
18	1/28	"	1.5	.15	.73	.62	.11		.6	3	0	1148A 1153A	"
19	1/30	"	3.3	1.09	1.58	.82	1.7		.6	4	+.01	236P 242P	"
20	1/31	"	5.0	1.63	1.51	.85	2.5		.6	5	0	1130A 1135A	"
21	2/4	"	2.5	.91	1.21	.76	1.1		.6	4	0	1120A 1124A	"
22	2/6	"	5.4	2.38	1.67	.90	4.0		.6	5	+.01	812A 825A	"
23	2/6	Lindsay and McArthur	13.5	4.94	2.62	1.07	13.		.6	7	+.02	1238P 1245P	"
24	2/6	"	16.0	8.50	3.16	1.27	27.		.6	7	0	430P 437P	"
25	2/6	Lindsay and McArthur	15.0	9.62	2.64	1.29	25.		.6	6	0	1020P 1030P	FC 28
26	2/7	"	14.0	5.45	3.00	1.16	16.		.6	6	0	930A 940A	"
27	2/11	Cole	6.4	3.03	1.80	.97	5.5		.6	7	-.02	955A 1005A	FC 7
28	2/13	Lindsay and McArthur	17.0	7.57	3.82	1.23	29.		.6	6	0	1140P 1150P	FC 28
29	2/14	"	15.0	10.32	2.02	1.26	21.		.6	6	-.01	945A 955A	"
30	2/18	Cole	12.0	6.81	.94	1.08	6.4		.6	5	0	1235P 1242P	FC 36
31	2/26	"	10.9	2.09	1.44	.90	3.0		.6	7	0	930A 940A	"
32	3/4	Lindsay	5.2	1.45	1.14	.85	1.6		.6	5	0	218P 226P	FC 28
33	3/11	"	4.7	.78	1.31	.81	1.0		.6	7	0	105P 113P	"
34	3/13	Lindsay and McArthur	12.0	3.27	2.62	.99	8.6		.6	7	0	900A 908A	"
35	3/16	"	12.0	3.76	1.74	.98	6.5		.6	6	0	135P 143P	"
36	3/18	Cole	12.0	3.81	1.28	.98	4.9		.6	6	0	920A 929A	FC 1
37	3/22	Lindsay and McArthur	12.0	3.24	2.04	.96	6.6		.6	6	+.03	953A 1000A	FC 28
38	3/22	"	11.5	2.59	2.26	.98	5.8		.6	5	0	244P 249P	"
39	3/25	Cole	11.9	3.42	1.49	.96	5.1		.6	6	0	1000A 1010A	FC 36
40	4/1	"	5.9	2.13	1.34	.91	2.9		.6	6	0	220P 227P	"
41	4/8	"	6.2	1.68	1.24	.87	2.1		.6	5	0	125P 135P	"
42	4/15	"	6.0	1.62	1.07	.84	1.7		.6	6	0	150P 202P	"
43	4/22	"	6.0	1.01	1.11	.82	1.1		.6	6	0	206P 215P	"
44	4/28	Lindsay	3.3	.65	1.40	.81	.9		.6	4	0	1205P 1213P	FC 28
45	5/6	Cole	3.6	.56	1.00	.83	.55		.6	5	0	300P 306P	FC 36
46	5/13	Lindsay	1.5	.25	.92	.74	.23		.6	3	0	145P 150P	FC 28
47	5/20	Cole	2.25	.53	.45	.75	.24		.6	4	0	1127A 1134A	FC 36
48	5/27	Lindsay	1.5	.28	.96	.74	.27		.6	3	0	1101A 1106A	FC 28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 67 B-R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CR.

at 270 ft. below Sierra Madre Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH-OD	MEAS. ACCU. No.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
50	12/11	Lindsay-Ingram	4.5	0.71	1.16	0.80	0.85		.6	4	0	1115P 1120P	FC 28
51	1/15	" "	5.5	0.97	1.61	0.82	1.6		.6	5	0	1240P 1246P	"
52	2/1	" "	5.2	0.82	.87	0.78	0.70		.6	5	0	1110A 1120A	"
53	2/3	" "	2.0	0.40	.95	0.74	0.38		.6	3	0	927A 931A	"
54	2/3	" "	13.0	6.65	3.11	1.16	18		.6	6	-.01	835P 842P	"
55	2/4	" "	9.0	3.14	2.38	1.00	7.4		.6	5	-.01	100P 109P	"
56	2/9	" "	8.0	1.05	1.11	0.78	1.2		.6	5	+.01	423P 430P	"
57	2/11	" "	11.5	4.19	2.40	1.05	10		.6	6		531P 539P	"
58	2/16	Lindsay	8.5	1.37	1.13	0.82	1.6		.6	6	0	227P 235P	"
59	2/24	"	5.0	0.47	0.68	0.70	0.32		.6	4	0	1134A 1143A	"
60	2/28	Lindsay-Ingram	22.0	14.86	4.27	1.75	64		.6	8	+.19	112P 123P	"
61	2/28	" "	22.0	15.36	4.95	1.87	76		.6	11	-.02	142P 153P	"
62	3/2	" "	22.0	30.05	6.04	2.25	181		.6	7	-.10	928A 938A	"
63	3/4	" "	19.0	13.33	3.29	1.86	44		.6	7	0	125P 135P	"
64	3/8	Haig-Galbraith	12.7	8.02	1.93	1.38	15		.6	7	0	235P 242P	FC 1
65	3/10	Lindsay-Ingram	10.7	7.85	1.31	1.32	14		.6	7	+.03	108P 115P	FC 28
66	3/12	" "	16.0	4.14	7.32	1.51	30		.6	6	+.01	222P 232P	"
67	3/16	Lindsay	13.5	6.24	2.21	1.34	14		.6	7	0	132P 143P	"
68	3/23	"	Two Channels			1.19	9.1		.6		0	1133A 1142A	"
69	3/30	"	4.0	1.68	2.96	1.32	5.0		.8	5	-.01	125P 132P	"
70	4/6	Haig-Lindsay	Two Channels			1.29	6.1		.6	12		910A 917A	"
71	4/7	Haig	Two Channels			1.26	5.0		.6	10	-.01	1210P 1230P	FC 38
72	4/14	"	3.6	1.66	3.36	1.21	5.6		.6	7		1145A 1158A	FC 1
73	4/18	"	3.5	1.46	2.10	1.15	3.1		.6	5		1100A 1108A	FC 38
74	4/22	Haig	2.4	1.07	2.71	1.15	2.9		.6	5	0	1034A 1038A	FC 38
75	4/28	Lindsay	Two Channels			1.16	2.5		.6	10		323P 335P	FC 28
76	5/5	"	Two Channels			1.12	2.0		.6	9	0	300P 315P	"
77	5/12	Haig	2.4	0.41	2.63	0.94	1.1		.6	5	+.01	112P 118P	FC 38
77A	5/19	"	4.5	1.10	1.90	0.98	2.1		.6	6	0	1038A 1046A	"
78	5/26	"	2.0	0.33	1.42	0.85	0.50		.6	4	0	1050A 1056A	"
79	6/2	"	8.0	0.30	1.31	0.81	.40		Sur	4	+.02	1115A 1121A	"
80	6/9	"	1.7	0.25	1.36	0.93	.35		.6	4	0	230P 236P	"
81	6/16	Lindsay	1.0	0.06	0.67	0.97	.04		.6	2	0	106P 108P	FC 28

F.C. Dist. Form 32 (4-38)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Daily discharge, in second-feet of LITTLE SANTA ANITA CR. at 270 ft. below Sierra Madre Dam for the year ending September 30, 1937

Sta. No. F67B-R

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	0	2.0	1.6	2.5	3.3	6.5	0.2	0	0	0
2	0	0	0	1.8	1.1	1.8	3.3	6.5	+	0	0	0
3	0	0	0	1.4	1.1	1.4	3.3	6.5	+	0	0	0
4	0	0	0	1.2	1.3	1.3	3.3	6.5	0	0	0	0
5	0	0	0	1.0	1.0	1.0	3.3	6.5	0	0	0	0
6	0	0	0	0.9	0.9	0.9	3.3	6.5	0	0	0	0
7	0	0	0	1.5	1.5	2.8	2.8	6.5	0	0	0	0
8	0	0	0	1.3	1.3	2.5	2.5	6.5	0	0	0	0
9	0	0	0	1.1	1.1	2.2	2.5	6.5	0	0	0	0
10	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
11	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
12	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
13	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
14	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
15	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
16	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
17	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
18	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
19	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
20	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
21	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
22	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
23	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
24	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
25	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
26	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
27	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
28	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
29	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
30	0	0	0	1.0	1.0	2.2	2.2	6.5	0	0	0	0
31	0		0	1.0		2.2	2.2	6.5		0	0	
Total	0	+	0	35	365	230	112	23	0	0	0	0
Mean	0	+	0	.57	6.39	3.75	1.69	.38	.01	0	0	1.16
Years Previous	.06	+	1.24	1.35	17.8	11.62	56.7	11.7	.40	0	0	1.95
Mean Acre-Feet	3.6	+	76	35	365	230	112	23	.40	0	0	1.95

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

F. C. Dist. Form 32 150 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

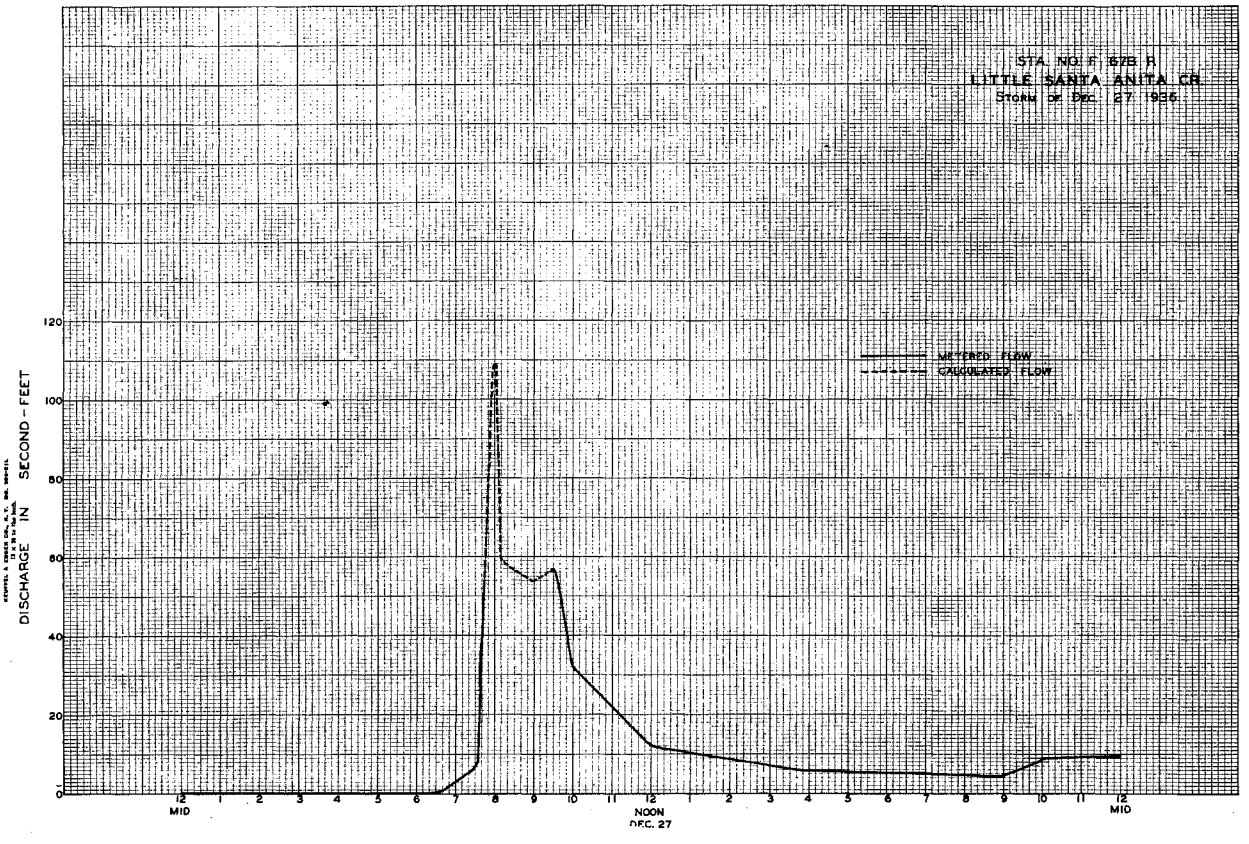
Sta. No. F67B-R

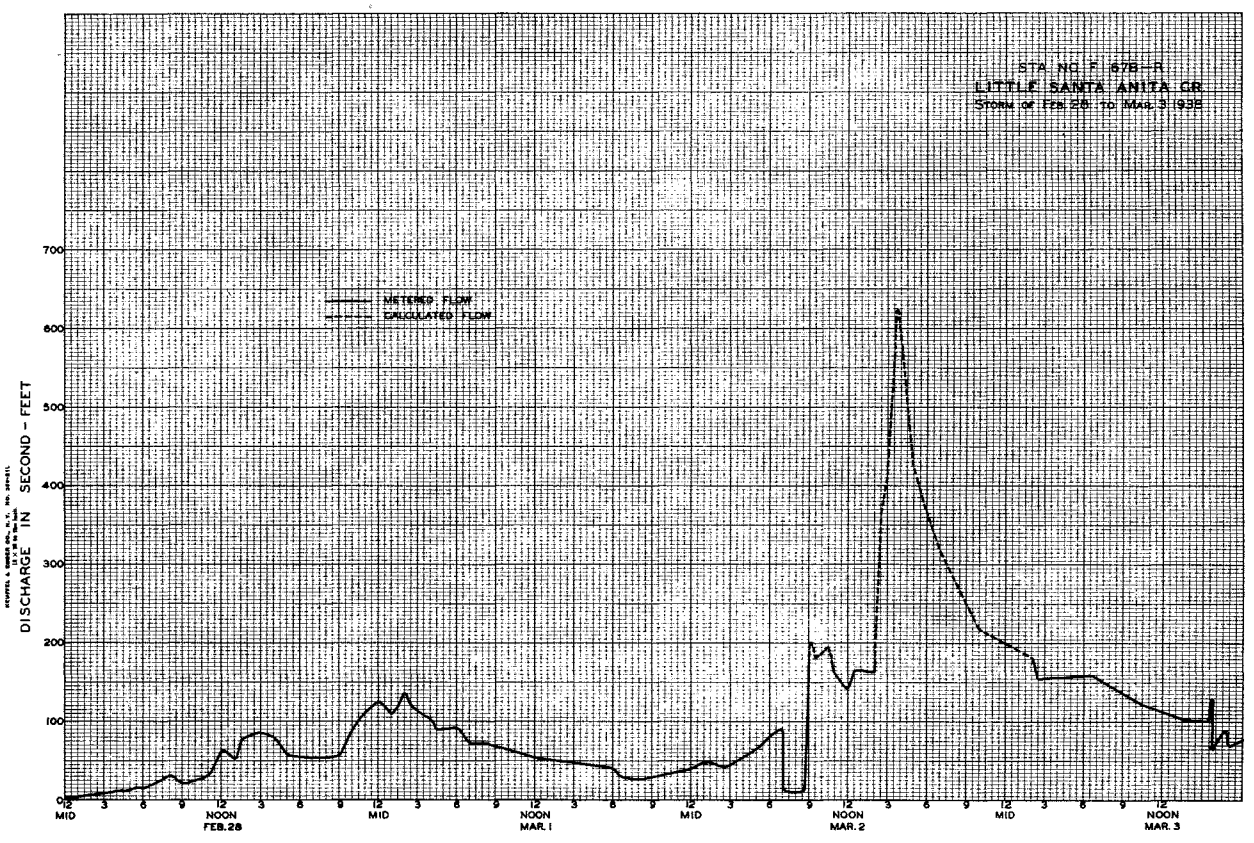
Daily discharge, in second-feet of LITTLE SANTA ANITA CR. 270 ft. below Sierra Madre Dam for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.9	6.4	5.5	3.7	0.3	0	0	0
2	0	0	0	0	+	19.2	5	3.3	0.8	0	0	0
3	0	0	0	0	6.5	11.8	5	3.3	1.1	+	0	0
4	0	0	0	0	8.5	4.2	6	3.3	0.9	0	0	0
5	0	0	0	0	3.9	3.8	6	2.2	0.7	+	0	0
6	0	0	0	0	1.8	3.2	5.5	1.4	0.4	0	0	0
7	0	0	0	0	1.1	2.8	5	0.9	0.3	0	0	0
8	0	0	0	0	0.8	1.6	4.7	1.1	0.2	0	0	0
9	0	0	0	0	2.4	1.2	5	1.2	0.4	0	0	0
10	0	0	0	0	1.6	1.6	5	2.0	0.4	0	0	0
11	0	0	0.8	0	6.5	1.9	4.7	2.8	0.4	0	0	0
12	0	0	0.1	0	5.5	3.8	5	0.9	0.4	0	0	0
13	0	0	0	0	3.3	3.5	5.5	0.5	0.2	0	0	0
14	0	0	0	0	2.8	2.0	5	0.7	0.2	0	0	0
15	0	0	0	1.7	2.0	3.0	5	1.2	0.1	0	0	0
16	0	0	0	+	1.6	1.4	6	3.3	0.1	0	0	0
17	0	0	0	0	1.2	1.2	5	1.8	0.1	0	0	0
18	0	0	0	0	1.1	1.3	2.6	1.2	0.2	0	0	0
19	0	0	0	0	0.9	1.9	1.6	2.0	0.2	0	0	0
20	0	0	0	0	0.7	2.4	2.2	1.4	0.3	0	0	0
21	0	0	0	0	0.7	2.7	3.7	1.6	0.2	0	0	0
22	0	0	0	0	0.5	1.6	3.0	2.0	0.2	0	0	0
23	0	0	0	0	0.4	8.5	2.8	0.6	+	0	0	0
24	0	0	0	0	0.3	8	3.3	0.2	+	0	0	0
25	0	0	0	0	0.2	11	3.3	0.4	+	0	0	0
26	0	0	+	0	0.2	11	3.3	0.5	0	0	0	0
27	0	0	+	0	1.5	7.5	2.8	0.5	0	0	0	0
28	0	0	0	0	4.5	7	2.5	0.6	0	0	0	0
29	0	0	0	0		7.5	2.8	0.5	0	0	0	0
30	0	0	0	0		4.7	3.3	0.4	0	0	0	0
31	0		0	0		4.7		0.3		0	0	
	0	0	0.9	1.7	102.1	894.9	127.7	45.8	8.1	+	0	0
MEAN	0	0	.03	.05	3.65	28.9	4.26	1.48	.27	+	0	0
ACRE-FEET	0	0	.18	3.4	203	1780	253	91	16	+	0	0

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

YEAR OR PERIOD — MEAN 3.24 — ACRE-FEET 2350





STATION F19R

LITTLE TUJUNGA CREEK at Foothill Boulevard

LOCATION:

On downstream end of second pier from east (left) abutment of Foothill Boulevard bridge, 4 miles east of San Fernando.

DRAINAGE AREA:

21.0 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 January 1, 1934 which was later replaced and still later backed up with rubble. The control was washed out during the March 2, 1938 storm.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed December, 1928 in an F. C. standard type house over an 18 inch diameter corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 26, 1928 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 964 second-feet February 14.
Minimum no flow part of year.

1937-1938
Maximum 8500 second-feet, estimated, March 2.
Minimum no flow part of year.

1928-1938
Maximum 8500 second-feet, estimated, March 2, 1938.
Minimum no flow part of each year.

ACCURACY:

Poor.
Clock stopped; gage height interpolated February 16, 17, 18, 1937.
No record; gage height interpolated March 2, 3, April 13, 14, 15, 1937.
No record; flow estimated by comparison graph and occasional measurements March 2 to April 12, 1938.
Due to poor channel conditions, record of little value, flow interpolated between measurements April 12 to September 30, 1938.

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 1M 8-36

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 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Eff.	METH-OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	12/27		24.0	6.64	3.53	3.45	23.		.6	10	0	1240P 1250P	FC 13
2	12/28	Miller-Barclay	10.5	1.64	1.98	3.42	3.2		.6	9	+.03	230P 240P	FC 35
3	12/30	Luce-Paul	53.6	41.50	8.09	3.77	336.		.6	10	+.03	953P 1020P	FC 25
4	12/31	" "	37.0	11.61	4.80	3.60	56.		.6	14	0	751A 800A	FC 13
5	12/31	Miller-Barclay	18.5	5.38	3.51	3.73	19.		.6	11	+.01	210P 225P	FC 35
6	1/5	Miller	1.4	.06	.50	3.62	.03		.6	3	0	1100A 1110A	"
7	1/6	"	14.2	2.81	2.43	3.73	6.8		.6	9	-.01	245P 300P	"
8	1/12	Miller-Barclay	5.0	.76	1.46	3.55	1.1		.6	7	0	235P 245P	"
9	1/14	Luce	4.5	.53	.92	3.61	.49		.6	5	0	435P 440P	FC 13
10	1/29	Luce-Paul	8.1	1.49	1.34	3.73	2.0		.6	7	-.01	1002A 1008A	"
11	1/30	Miller-Barclay	33.5	12.61	3.98	3.83	50.		.6	11	+.14	405P 415P	FC 35
12	1/30	Luce-Paul	39.0	18.38	6.22	3.70	114.		.6	12	0	610P 620P	FC 13
13	1/30	" "	40.1	10.87	4.00	3.70	44.		.6	12	0	1120P 1130P	"
14	1/31	Miller-Barclay	19.0	4.33	2.39	3.50	10.		.6	9	-.04	110P 125P	FC 35
15	2/4	Luce-Paul	14.0	2.15	1.48	3.71	3.2		.6	7	-.02	210P 214P	FC 13
16	2/5	" "	35.8	5.60	2.08	3.81	14.		.6	10	+.02	1145P 1155P	"
17	2/6	" "	39.3	12.72	5.05	3.81	64.		.6	10	+.02	828A 835A	"
18	2/6	" "	57.5	19.98	5.11	3.88	102.		.6	14	+.12	845A 855A	"
19	2/6	" "	58.4	60.43	7.25	4.20	437.		.6	12	+.20	430P 448P	FC 25
20	2/7	" "	24.8	16.87	6.24	3.35	105.		.6	10	0	1145P 1155P	FC 13
21	2/8	" "	20.0	11.54	4.25	3.35	49.		.6	10	0	915A 925A	"
22	2/9	" "	20.0	7.84	3.65	3.22	29.		.6	10	0	545P 550P	"
23	2/11	Luce	15.2	5.44	4.21	3.22	23.		.6	10	0	1155A 1205P	"
24	2/13	Luce-Paul	29.5	18.55	5.31	3.48	98.		.6	11	+.05	940P 950P	"
25	2/14	Luce-Paul	36.0	28.74	8.45	4.06	243.		.6	8	0	612A 627A	FC 25
26	2/14	" "	31.7	20.36	4.98	3.65	101.		.6	10	0	155P 202P	FC 13
27	2/18	Luce	19.0	6.43	5.14	3.25	33.		.6	9	0	1230P 1240P	"
28	2/26	Luce-Paul	20.0	7.37	4.35	3.25	32.		.6	10	0	100A 110A	"
29	2/26	" "	20.5	6.53	4.09	3.20	27.		.6	9	0	858A 905A	"
30	2/26	Paul	16.0	5.64	3.65	3.20	21.		.6	9	0	1254P 108P	"
31	3/1	"	9.0	3.20	2.97	3.10	9.5		.6	9	0	300P 307P	"
32	3/3	"	9.0	2.85	2.73	3.07	7.8		.6	6	0	1100A 1105A	"
33	3/15	"	17.0	5.99	3.06	3.17	18.		.6	7	0	408P 415P	"
34	3/15	Luce	28.5	19.23	4.23	3.49	81.		.5	11	-.02	850P 905P	"
35	3/16	Luce-Paul	21.0	11.07	4.67	3.24	52.		.6	8	0	106A 111A	"
36	3/16	Miller	18.0	7.16	3.62	3.22	26.		.6	9	0	130P 145P	FC 35
37	3/18	Luce	18.0	6.54	2.38	3.19	16.		.6	9	0	834A 842A	FC 13
38	3/19	"	18.2	6.67	2.51	3.20	17.		.6	9	0	405P 415P	"
39	3/22	"	24.5	14.25	3.74	3.33	53.		.6	13	0	700A 715A	"
40	3/22	Luce-Paul	18.5	8.47	4.12	3.25	35.		.6	10	0	923A 929A	FC 39
41	3/23	" "	20.5	7.30	3.47	3.22	25.		.6	10	0	420P 428P	FC 13
42	3/24	" "	25.0	17.10	4.46	3.49	76.		.6	9	-.02	853P 901P	"
43	3/26	Paul-Luce	20.5	8.84	3.50	3.22	30.		.6	11	0	1105A 1111A	"
44	3/31	Paul	16.0	6.81	3.07	3.17	21.		.6	9	0	1230P 1238P	"
45	4/1	Luce-Paul	18.6	7.43	2.19	3.14	16.		.6	9	0	126P 131P	"
46	4/14	Luce	8.0	3.55	1.73	3.06	6.1		.6	7		240P 250P	"
47	4/17	"	16.6	5.64	1.77	3.05	10.		.6	10	0	115P 128P	"
48	4/22	"	8.0	3.00	1.42	3.01	5.1		.6	9	0	1105A 1115A	"
49	4/29	Luce	5.5	1.71	1.45	2.94	2.5		.6	6	0	315P 325P	FC 13
50	5/6	"	5.0	1.58	1.40	2.90	2.2		.6	5	0	453P 500P	"
51	5/13		4.0	1.41	1.23	2.87	1.7		.6	5	-.01	1015A 1025A	"
52	5/20	Luce	3.2	.79	1.01	2.84	.8		.6	4	0	120P 125P	"
53	5/27	"	4.2	1.17	1.37	2.90	1.6		.6	5	0	1245P 1250P	"
54	6/3	"	2.7	.44	.66	2.78	.29		.6	4		400P 405P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

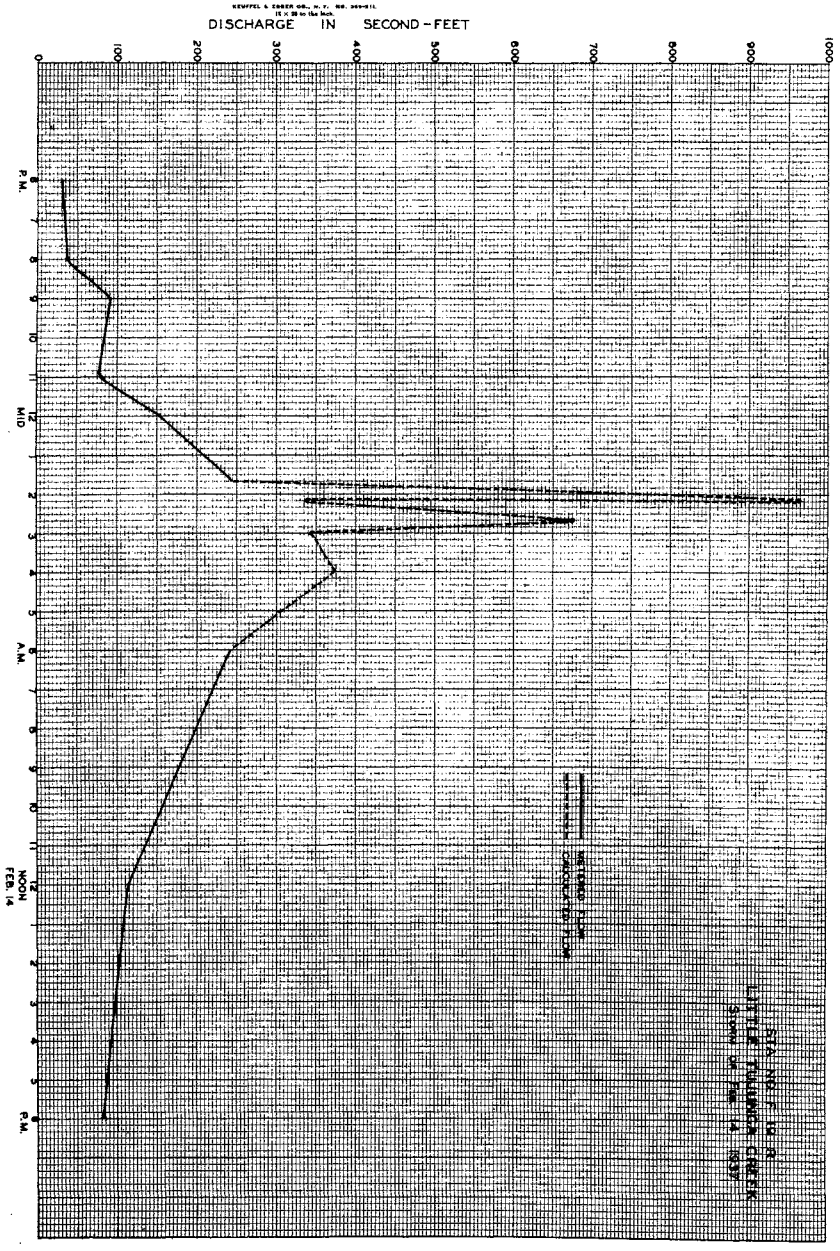
STATION NO. F 19 R

DISCHARGE MEASUREMENTS OF LITTLE TUJUNGA CREEK

AT Foothill Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Eff.	METH-OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
55	12/11	Luce-Skelly	7.0	2.72	1.50	3.00	4.1		.6	6	-.01	1025P 1030P	FC 39
56	12/23	Luce	12.0	6.69	2.38	3.22	16.		.6	6	+.04	340A 345A	"
57	12/23	Luce-B. Luce	6.0	2.12	.98	2.94	2.1		.6	6	-.01	915A 925A	"
58	12/31	Luce	1.8	.17	.23	2.80	0.04		.6	4		1115 1120	"
59	1/15	Luce	6.8	2.78	1.27	3.03	3.5		.6	7	-.04	935A 945A	"
60	1/15	Luce-Skelly	3.5	.93	1.12	2.95	1.0		.6	4	0	950A 955A	"
61	1/15	" "	2.5	.72	1.44	2.95	1.0		.6	5	0	1005A 1010A	"
62	1/15	" "	7.5	4.20	2.21	3.12	9.3		.6	6	+.14	1120A 1125A	"
63	1/15	" "	14.0	6.78	2.20	3.20	15.		.6	6	-.01	1125A 1135A	"
64	1/20	Luce	2.5	.38	.63	2.84	0.24		.6	5	0	1253P 1258P	"
65	1/27	"	1.0	.12	.58	2.80	0.07		.6	2	0	210P 212P	"
66	2/1	Luce-Skelly	16.3	11.44	3.83	3.36	44.		.6	9	-.08	615A 625A	"
67	2/1	" "	14.3	9.00	2.90	3.28	26.		.6	9	-.04	640A 650A	"
68	2/1	" "	19.5	8.88	2.67	3.24	24.		.6	8	-.02	710A 720A	"
69	2/1	Miller-M.Miller	6.5	2.29	1.24	2.98	2.8		.6	6	-.01	300P 315P	FC 35
70	2/3	Luce-Skelly	21.5	16.41	4.13	3.44	68.		.6	9	+.01	130P 140P	FC 39
71	2/3	" "	21.3	16.28	4.24	3.46	69.		.6	9	+.01	140P 150P	"
72	2/3	" "	22.0	17.77	5.42	3.56	96.		.6	8	+.02 -.32	607P 620P	"
73	2/3	" "	24.5	19.64	5.69	3.72	112.		.6	9	-.05 +.05	630P 640P	"
74	2/4	" "	17.0	8.68	2.82	3.28	25.		.6	7	-.01	1110A 1115A	"
75	2/4	" "	17.0	8.05	2.63	3.26	21.		.6	8	-.01	1115A 1123A	"
76	2/4	Luce-Skelly	20.0	11.28	2.71	3.30	31.		.6	7	-.01	1207P 1215P	"
77	2/7	Miller	10.3	2.16	.74	3.01	1.5		.6	8	0	915A 930A	FC 35
78	2/9	" "	16.0	3.94	1.12	3.09	4.4		.6	8	0	355P 402P	"
79	2/10	" "	5.0	2.66	1.26	3.05	3.4		.6	6	0	1105A 1115A	"
80	2/11	Luce-Van Buren	29.0	22.07	5.79	3.75	128.		.6	9	+.10	1205P 1220P	FC 39
81	2/11	" "	33.0	44.06	8.23	4.01	363.		.6	8	+.10 -.20	120P 140P	FC 25
82	2/11	" "	26.0	13.07	4.42	3.47	58.		.6	9	+.02	1050P 1105P	FC 39
83	2/11	" "	25.0	12.83	4.51	3.45	58.		.6	9	-.06	1115P 1130P	"
84	2/12	" "	19.0	7.69	3.58	3.33	28.		.6	7	+.01	1050A 1100A	"
85	2/12	" "	19.5	7.02	3.72	3.32	26.		.6	8	-.01	1100A 1110A	"
86	2/12	" "	19.5	7.16	3.35	3.31	24.		.6	8	-.02	1110A 1120A	"
87	2/15	Miller-W.Miller	17.2	3.59	1.77	3.25	6.4		.6	10	0	315P 330P	
88	2/24	Luce	3.5	.44	1.39	3.12	0.60		.6	5	0	245P 250P	FC 39
89	2/24	"	3.3	.42	1.48	3.12	0.60		.6	5	0	250P 255P	"
90	2/27	Luce-Skelly	10.2	2.39	3.01	3.28	7.2		.6	7	+.01	155P 200P	"
91	2/27	" "	9.7	2.41	3.17	3.28	7.6		.6	8	0	210P 215P	"
92	2/28	" "	26.3	11.72	4.47	3.46	52.		.6	10	+.04	940A 950A	"
93	2/28	" "	26.3	13.77	4.75	3.51	65.		.6	10	+.06	1015A 1025A	"
94	2/28	" "	26.3	14.31	4.97	3.50	71.		.6	10	+.01	1030A 1040A	"
95	2/28	" "	26.5	19.90	4.92	3.40	98.		.6	10	-.05	115P 130P	"
96	3/1	" "	52.9	112.3	8.19	4.55	920.		.6	13	+.23 -.44	125A 145A	FC 25
97	3/1	" "	51.3	53.45	6.63	3.82	354.		.6	11	-.05	205A 235A	"
98	3/1	" "	32.0	17.98	4.86	3.46	87.		.6	10	-.07	115P 125P	FC 39
99	3/15	Miller	30.5	13.39	6.27	0.95	84.			14	0	1150A 1210P	FC 35
100	3/30	Luce-Skelly	11.0	3.12	3.04	1.25	9.5		.6	8	0	340P 350P	FC 39
101	4/5	" "	9.7	3.07	2.02	-.55	6.4		.6	6	0	410P 415P	"
102	4/12	Skelly	8.8	3.71	1.70	-.07	6.3		.6	9	0	925A 935A	"
103	4/28	Luce	9.5	1.83	2.86	-.02	5.2		.6	7	0	435P 445P	"
104	5/5	Luce	6.0	1.70	1.25	-.20	2.1		.6	5	0	400P 410P	FC 39
105	5/12	"	5.4	1.33	2.32	-.02	3.1		.6	5	0	1120A 1125A	"
106	5/19	"	8.5	2.07	1.07	*1.78	2.2		.6	5	0	840A 850A	"
107	5/27	"	4.5	1.34	1.18	1.82	1.6		.6	5		1010A 1015A	"
108	6/9	"	4.5	1.03	1.42	1.82	1.5		.6	4	0	1100A 1110A	"
109	6/23	"	2.0	.16	.38	2.66	0.06		.6	2	0	315P 317P	"

* Staff Gage datum plane lowered 2.00 feet.



F. C. Dist. Form 52 156 8-36

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, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	8	9.5	15	16	2.1	0.7	+	0	0
2	0	0	0	2.9	3.8	9.5	12	2.1	0.4	+	0	0
3	0	0	0	0.6	3.5	9	9.5	1.8	0.4	+	0	0
4	0	0	0	0.1	2.1	8.5	8.5	1.8	0.7	+	0	0
5	0	0	0	0.1	6.5	9	7.5	2.1	1.0	0	0	0
6	0	0	0	6	172	8	7	2.1	0.6	0	0	0
7	0	0	0	0.2	149	7.5	7	2.1	0.4	0	0	0
8	0	0	0	0.2	36	6.5	7	1.8	0.4	0	0	0
9	0	0	0	3.2	33	4.6	7.5	2.1	0.4	0	0	0
10	0	0	0	2.2	24	4.6	8.5	2.1	0.4	0	0	0
11	0	0	0	0.2	23	5	9	1.8	0.4	0	0	0
12	0	0	0	1.3	26	14	7	1.7	0.3	0	0	0
13	0	0	0	1.5	39	34	7	1.5	0.3	0	0	0
14	0	0	0	0.7	175	21	6.5	1.1	0.3	0	0	0
15	0	0	0	0.4	43	32	7.5	1.3	0.2	0	0	0
16	0	0	0	0.2	34	31	9	1.3	0.2	0	0	0
17	0	0	0	0.1	41	23	11	1.3	0.2	0	0	0
18	0	0	0	0.1	51	16	8.5	1.3	0.1	0	0	0
19	0	0	0	0	52	29	7	1.1	0.1	0	0	0
20	0	0	0	+	47	21	6.5	1.0	0.1	0	0	0
21	0	0	0	+	43	21	6	1.1	+	0	0	0
22	0	0	0	+	40	33	4.5	1.4	+	0	0	0
23	0	0	0	+	31	23	4.3	1.8	+	0	0	0
24	0	0	0	+	26	33	3.8	1.7	+	0	0	0
25	0	0	+	0	31	36	3.5	1.7	+	0	0	0
26	0	0	0	0	21	26	3.5	1.7	+	0	0	0
27	0	0	6.5	0	17	23	3.8	1.5	+	0	0	0
28	0	0	6	0	15	23	3.5	1.5	+	0	0	0
29	0	40	2.4			21	2.7	1.7	+	0	0	0
30	0	0	145	44		19	2.4	1.7	+	0	0	0
31	0		60	24		20		1.3		0	0	
	0		257.5		1194		207.6		7.6		0	
		0		98.4		566.2		50.6		+		0
MEAN	0	0	8.30	3.17	42.7	18.9	6.91	1.63	.25	+	0	0
ACRE-FEET	0	0	511	195	2370	1160	412	100	15	+	0	0

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

YEAR OR PERIOD MEAN 6.58
ACRE-FEET 4760

F. C. Dist. Form 52 156 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

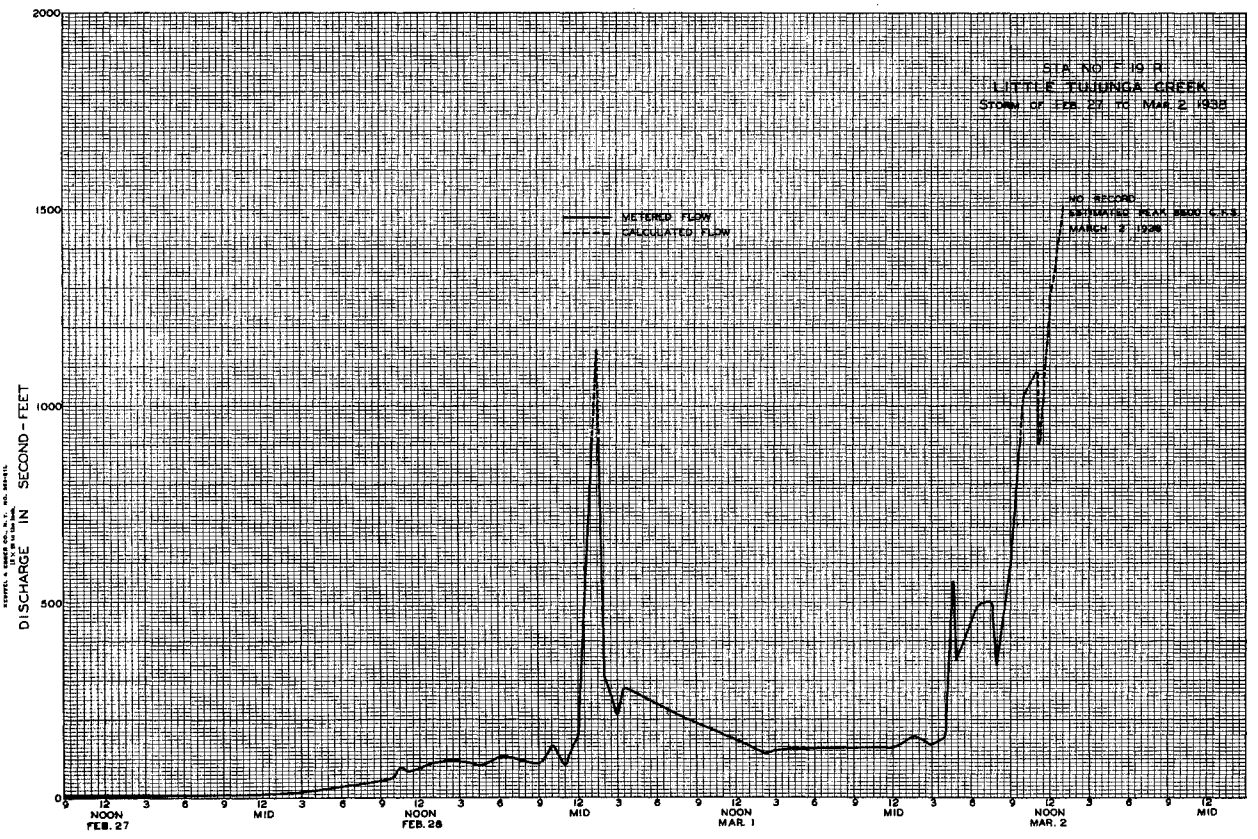
Sta. No. F19R

Daily discharge, in second-feet of LITTLE TUJUNGA CREEK at Foothill Blvd., for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.1	7	209	8.5	3.8	1.6	+	0	0
2	0	0	0	0.1	1.5	1300	8	3.3	1.6	+	0	0
3	0	0	0	0.1	36	750	7.5	2.9	1.5	+	0	0
4	0	0	0	0.1	22	275	7	2.5	1.5	+	0	0
5	0	0	0	0.1	5.5	123	6.5	2.1	1.5	+	0	0
6	0	0	0	0	3.2	93	6.5	2.3	1.5	+	0	0
7	0	0	0	0	1.3	76	6.5	2.4	1.5	+	0	0
8	0	0	0	0	1.1	62	6.5	2.6	1.5	+	0	0
9	0	0	0	0	3.5	51	6.5	2.7	1.5	+	0	0
10	0	0	0	0	4.5	45	6.5	2.6	1.4	+	0	0
11	0	0	0.8	0	71	41	6.5	3.0	1.3	+	+	0
12	0	0	0.3	0	28	95	6.5	3.1	1.2	+	+	0
13	0	0	0	0	15	139	6.5	3.2	1.1	+	+	0
14	0	0	0	0	9	108	6	2.8	1.0	0	0	0
15	0	0	0	1.6	7.5	84	6	2.7	0.9	0	0	0
16	0	0	0	0.4	6	71	6	2.6	0.8	0	0	0
17	0	0	0	0.3	4.1	61	6	2.5	0.7	0	0	0
18	0	0	0	0.4	4.6	52	6	2.3	0.6	+	0	0
19	0	0	0	0.4	3.8	45	6	2.2	0.5	0	0	0
20	0	0	0	0.3	1.7	39	5.5	2.1	0.4	0	0	0
21	0	0	0	0.2	1.4	34	5.5	2.0	0.3	0	0	0
22	0	0	0	0.2	1.3	29	5.5	2.0	0.2	+	0	0
23	0	0	2.3	0.2	1.1	25	5.5	1.9	0.1	+	0	0
24	0	0	0.3	0.1	1.0	22	5.5	1.8	+	0	0	0
25	0	0	0.2	0.1	1.0	19	5.5	1.8	+	0	0	0
26	0	0	0.5	0.1	0.8	16	5	1.7	+	0	0	0
27	0	0	0.3	0.1	4.4	14	5	1.6	+	0	0	0
28	0	0	0.1	0.1	64	12	5	1.6	+	0	0	0
29	0	0	0.1	0.2		11	4.6	1.6	+	0	0	0
30	0	0	0.1	0.2		9.5	4.2	1.6	+	0	0	0
31	0		+	0.2		9		1.6		0	0	
	0		5.0		311.1		162.3		24.2		+	
		0		5.6		3919.5		73.0		+		0
MEAN	0	0	.17	.19	11.1	126	6.08	2.35	.81	+	+	0
ACRE-FEET	0	0	10	11	617	7770	362	145	48	+	+	0

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

YEAR OR PERIOD MEAN 12.4
ACRE-FEET 8960



STATION P31R

LIVE OAK CREEK near mouth of canyon

LOCATION:

On west (right) bank of stream near mouth of canyon, about 1/2 mile below Live Oak Dam, and about 2 miles northeast of La Verne.

DRAINAGE AREA:

2.6 square miles.

CHANNEL AND CONTROL:

Channel - sand, gravel and rocks.
Cipolletti weir, 12 inches deep in a small concrete control.

DISCHARGE MEASUREMENTS:

At low flow by wading.

RECORDER:

Installed January 4, 1928 in F. C. Standard type concrete house over a 3 ft. x 4 ft. concrete stilling well.
Horizontal rational recorder, in service October 1, 1936, was replaced on January 6, 1937 with Stevens type L recorder; Stevens type L recorder replaced December 31, 1937 with an H.C.F. continuous recorder.

REGULATION:

Flow regulated by Live Oak Dam.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 4, 1928 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-37
Maximum 29 second-feet February 14.
Minimum no flow for several months
1937-38
Maximum 257 second-feet March 2.
Minimum no flow for several months.

ACCURACY:

Fair.

OPERATION:

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

F. C. D. Form 104 M 6-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 31 R

DISCHARGE MEASUREMENTS OF LIVE OAK CREEK

AT OR NEAR mouth of canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Adj.	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	12/30	Brewster	7.0	1.90	1.36	.49	2.6		.6	4	+.06	921P 930P	FC 8
2	2/6	"	4.0	2.46	2.08	.66	5.1		.6	4	-.04	1100A 1106A	"
3	2/6	Brewster-Pettis	5.0	3.61	3.10	1.10	11.		.6	5	0	145P 151P	"
4	2/7	Brewster	6.0	5.16	3.21	1.29	17.		.6	6	0	210P 220P	"
5	2/14	Brewster-Pettis	6.0	6.65	3.23	1.40	21.		.6	6	0	220P 230P	"
6	2/19	Brewster	4.0	1.15	1.25	.45	1.4		.6	4	0	855A 901A	"
7	2/26	"	4.0	1.44	1.10	.47	1.6		.6	4	0	815A 821A	"
8	3/5	"	4.0	1.26	.90	.43	1.1		.6	4	0	915A 920A	"
9	3/12	"	3.0	.68	.54	.29	.37		.6	3	0	850A 855A	"
10	3/16	"	6.0	4.49	1.45	.98	6.5		.6	6	0	330P 340P	"
11	3/19	"	6.0	5.28	1.73	1.13	9.2		.6	6	0	815A 825A	"
12	3/22	Brewster-Pettis	5.0	3.58	1.99	.94	7.1		.6	5	0	1207P 1213P	"
13	3/26	Brewster	4.0	1.52	1.11	.54	1.7		.6	4	-.08	950A 956A	"
14	4/2	"	3.0	.75	.68	.30	.50		.6	3	+.01	805A 810A	"
15	4/9	"	3.0	.60	.42	.27	.25		.6	3	0	830A 835A	"
16	4/16	"	1.5	.20	.30	.20	.06		.6	3	0	820A 824A	"
17	4/23	"	1.0	.22	.41	.20	.09		.6	2	0	825A 829A	"
18	4/30	"	1.0	.23	.43	.20	.10		.6	2	0	900A 904A	"
19	5/7	"	1.0	.24	.46	.22	.11		.6	2	0	845A 849A	"
20	5/14	"	3.0	.86	.91	.40	.80		.6	3	0	810A 816A	"
21	5/21	"	4.0	1.23	1.09	.48	1.3		.6	4	0	730A 736A	"
22	5/28	"	4.0	1.14	.96	.46	1.1		.6	4	0	825A 833A	"
23	6/4	"	4.0	1.08	.80	.39	.85		.6	4	0	807A 815A	"
24	6/11	"	4.0	1.00	.66	.38	.65		.6	4	0	800A 806A	"
25	6/18	"	1.0	.16	.38	.23	.06		.6	2	0	806A 810A	"

F. C. D. Form 104 M 6-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 31 R

DISCHARGE MEASUREMENTS OF LIVE OAK CREEK

AT OR NEAR mouth of canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Adj.	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
26	3/3	Brewster	12.0	20.20	4.18	2.12	84.		.6	6	-.04	1115A 1124A	FC 8
27	3/8	"	8.0	9.00	2.18	1.38	20.		.6	5	0	1020A 1030A	"
28	3/10	"	6.0	2.50	.75	1.04	1.9		.6	5	0	610P 616P	"
29	3/12	Brewster-Pettis	8.0	6.28	1.05	1.25	6.6		.6	5	0	1224P 1230P	"
30	3/17	Brewster	8.0	4.92	1.07	1.18	5.3		.6	4	0	1020A 1028A	"
31	3/24	"	6.0	5.21	.79	1.05	2.5		.6	6	0	930A 936A	"
32	5/6	Brewster	4.0	2.40	.55	.90	1.3		.6	4	0	1054A 1100A	"
33	5/13	"	5.0	2.78	.72	.90	2.0		.6	5	0	820A 828A	"
34	5/20	"	5.0	2.88	.60	.89	1.7		.6	5	0	830A 836A	"
35	5/27	"	5.0	2.70	.42	.86	1.1		.6	4	0	1005A 1011A	"
36	6/2	"	2.0	1.53	.86	.88	1.3		.6	4	0	515P 520P	"

F. C. Dist. Form 35 160 4-48

Sta. No. F31R

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Daily discharge, in second-feet of LIVE OAK CREEK near 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	0	19	0	+	1.3	0	0	0
2	0	0	0	0	0	9.6	0	0	1.3	0	0	0
3	0	0	0	0	0	5.8	0	0	1.2	0	0	0
4	0	0	0	0	0	2.7	0	0	1.2	0	0	0
5	0	0	0	0	0	2.2	0	0	1.1	0	0	0
6	0	0	0	0	0	2.1	0	0	+	0	0	0
7	0	0	0	0	0	2.0	0	0	0	0	0	0
8	0	0	0	0	0	1.9	0	0	0	0	0	0
9	0	0	0	0	+	2.5	0	0	0	0	0	0
10	0	0	0	0	0	2.5	0	0	0	0	0	0
11	0	0	0	0	0	2.0	0	0	0	0	0	0
12	0	0	0	0	2	2.5	0	0	0	0	0	0
13	0	0	0	0	+	2.5	0	0	0	0	0	0
14	0	0	0	0	0	2.5	0	0	0	0	0	0
15	0	0	0	0	0	2.5	0	0	0	0	0	0
16	0	0	0	0	0	2.5	0	0	0	0	0	0
17	0	0	0	0	0	2.5	0	0	0	0	0	0
18	0	0	0	0	0	2.4	0	0	0	0	0	0
19	0	0	0	0	0	2.3	0	0	0	0	0	0
20	0	0	0	0	0	2.3	0	0	0	0	0	0
21	0	0	0	0	0	2.3	0	0	0	0	0	0
22	0	0	0	0	0	2.2	0	0	0	0	0	0
23	0	0	0	0	0	2.2	0	0	0	0	0	0
24	0	0	0	0	0	2.2	0	0	0	0	0	0
25	0	0	0	0	0	2.2	0	0	0	0	0	0
26	0	0	0	0	0	2.2	0	0	0	0	0	0
27	0	0	0	0	0	2.2	0	0	0	0	0	0
28	0	0	0	0	0	2.2	0	0	0	0	0	0
29	0	0	0	0	0	2.2	0	0	0	0	0	0
30	0	0	0	0	0	2.2	0	0	0	0	0	0
31	0		0	0	1.8	2.2	0	0	0	0	0	0
Mean	0	0	0	0	.06	3.514	.01	.421	.045	0	0	0
Acre-Feet	0	0	0	0	3.6	216	.6	26	2.7	0	0	0

Year or Period: Mean 1.10 Acre-Feet 794

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

F. C. Dist. Form 35 160 4-48

Sta. No. F31R

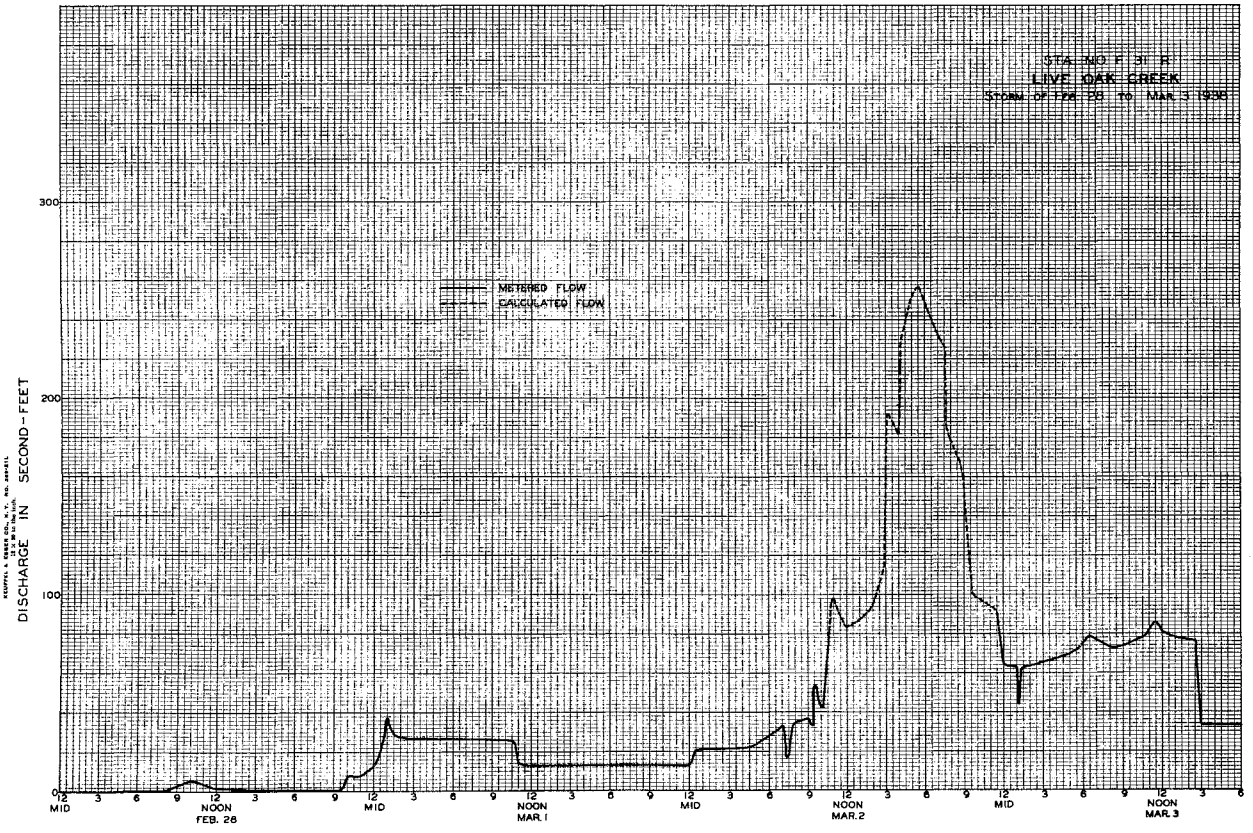
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Daily discharge, in second-feet of LIVE OAK CREEK near mouth of canyon for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	1.3	0	1	0.9	0	0	0
2	0	0	0	0	0	1.2	0	1	0.8	0	0	0
3	0	0	0	0	0	1.1	0	1	0.8	0	0	0
4	0	0	0	0	0	1.1	0	1	0.8	0	0	0
5	0	0	0	0	0	1.0	0	1	0.8	0	0	0
6	0	0	0	0	0	0	0	1	0.7	0	0	0
7	+	0	0	0	0	0	0	1	0.6	0	0	0
8	0	0	0	0	0	0	0	1	0.6	0	0	0
9	0	0	0	0	0	0	0	1	0.5	0	0	0
10	0	0	0	0	0	0	0	1	0.5	0	0	0
11	0	0	0	0	0	0	0	1	0.5	0	0	0
12	0	0	0	0	0	0	0	1	0.4	0	0	0
13	0	0	0	0	0	0	0	1	0.4	0	0	0
14	0	0	0	0	0	0	0	1	0.3	0	0	0
15	0	0	0	0	0	0	0	1	0.3	0	0	0
16	0	0	0	0	0	0	0	1	0.2	0	0	0
17	0	0	0	0	0	0	0	1	0.2	0	0	0
18	0	0	0	0	0	0	0	1	0.2	0	0	0
19	0	0	0	0	0	0	0	1	0.2	0	0	0
20	0	0	0	0	0	0	0	1	0.2	0	0	0
21	0	0	0	0	0	0	0	1	0.2	0	0	0
22	0	0	0	0	0	0	0	1	0.2	0	0	0
23	0	0	0	0	0	0	0	1	0.2	0	0	0
24	0	0	0	0	0	0	0	1	0.2	0	0	0
25	0	0	0	0	0	0	0	1	0.2	0	0	0
26	0	0	0	0	0	0	0	1	0.2	0	0	0
27	0	0	0	0	0	0	0	1	0.2	0	0	0
28	0	0	0	0	0	0	0	1	0.2	0	0	0
29	0	0	0	0	0	0	0	1	0.2	0	0	0
30	0	0	0	0	0	0	0	1	0.2	0	0	0
31	+		0	0	0	0	0	1	0.2	0	0	0
Mean	+	0	.06	.01	3.66	2.11	.40	.74	.33	0	0	0
Acre-Feet	+	0	3.6	.60	203	130	24	45	20	0	0	0

Year or Period: Mean .531 Acre-Feet 429

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



STATION F5R

LOS ANGELES RIVER at Van Nuys Boulevard

LOCATION:

On the downstream end of center pier 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 an F. C. standard type house over a 21 inch diameter, corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1936 until it was removed on the afternoon of March 2, 1938. It was also in service from April 28, 1938 to September 30, 1938.

REGULATION AND DIVERSIONS:
OR

By Chatsworth Reservoir, Upper and Lower San Fernando Reservoirs, Twin Lakes Dams, a dam on a tributary to Limekiln Creek and Encino Reservoir.

DIVERSIONS:

Several diversions for irrigation on the mountain tributaries.

RECORDS AVAILABLE:

December 19, 1928 to March 2, 1938 and from April 28, 1938 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 2630 second-feet February 14, 1937.
Minimum not determined.
1937-1938
Maximum 12000 second-feet, estimated, March 2.
Minimum 0.5 second-foot October 1.
December 19, 1928 to September 30, 1938.
Maximum 12000 second-feet, estimated, March 2, 1938.
Minimum + at various times.

ACCURACY:

Fair.
Gage height estimated part of day February 28, March 1, 2, and April 28, 1938.
Clock stopped: December 31, 1936.
Well sanded: February 26 to March 3, March 17, 18, and April 20-22, 1937.
No record: March 2 to April 28, 1938.

OPERATION:

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

F. C. D. FORM 104 7M 8-36

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, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Acting Person Int.	METH OD	MEAS. REGS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Bollinger	3.5	.43	.88	1.30	.38		.6	6	0	835A 841A	FC 6
2	10/7	"	3.8	.58	.64	1.33	.37		.6	5	0	947A 952A	"
3	10/15	"	3.5	.48	.66	1.33	.31		.6	4	0	406P 411P	"
4	10/17	Bollinger-Koch	4.1	1.31	1.70	1.50	2.2		.6	5	-.01	256P 259P	"
5	10/22	Bollinger	3.5	.52	.88	1.32	.46		.6	4	0	345P 350P	"
6	10/29	"	3.7	.53	.70	1.30	.37		.6	4	0	1053A 1058A	"
7	10/31	Bollinger-Koch	4.8	1.84	1.80	1.57	3.3		.6	4	0	400A 404A	"
8	11/5	Bollinger	3.0	.61	.62	1.30	.38		.6	4	0	230P 235P	"
9	11/12	"	4.0	.54	.63	1.28	.34		.6	4	0	147P 152P	"
10	11/19	"	6.5	2.49	1.89	1.54	4.7		.6	7	0	217P 224P	"
11	11/25	"	6.0	2.38	1.83	1.52	4.4		.6	6	0	213P 223P	"
12	12/3	"	5.0	2.14	2.01	1.51	4.3		.6	5	0	1148A 1154A	"
13	12/10	"	5.5	2.37	2.11	1.52	5.0		.6	7	0	952A 1000A	"
14	12/15	Bollinger-Koch	10.3	10.53	1.17	2.38	12.		.6	6	-.03	1205A 1213A	"
15	12/15	Koch-Bollinger	6.0	5.28	2.20	1.96	12.		.6	7	0	910A 922A	"
16	12/17	Bollinger	8.5	3.64	1.12	1.48	4.1		.6	6	0	255P 307P	"
17	12/23	"	8.2	3.82	1.03	1.50	3.9		.6	6	0	202P 210P	"
18	12/27	Bollinger-Koch	38.	86.8	3.07	5.26	267.		.6	9	-.17	1210P 1228P	"
19	12/28	" "	10.4	19.12	2.36	3.11	45.		.6	6	-.06	355A 405A	"
20	12/30	" "	50.7	146.4	4.70	6.60	690.		.6	11	+.50	1120P 1150P	"
21	12/31	" "	20.2	55.2	3.14	4.47	173.		.6	6	-.05	723A 733A	"
22	1/6	" "	9.0	6.81	.90	1.63	6.2		.6	6	-.01	234A 242A	"
23	1/7	Bollinger	8.0	6.95	.82	1.63	5.7		.6	6	0	240P 248P	"
24	1/12	"	7.5	7.06	.89	1.74	6.3		.6	5	-.01	125P 135P	"
25	1/14	Bollinger	7.8	3.78	1.24	1.57	4.7		.6	6	0	208P 213P	FC 6
26	1/21	"	7.7	3.78	1.53	1.60	5.8		.6	7	0	1039A 1049A	"
27	1/28	"	7.5	3.32	1.20	1.55	4.0		.6	8	0	1251P 100P	"
28	1/29	Bollinger-Koch	8.3	7.83	1.72	2.06	13.		.6	7	0	858A 905A	"
29	1/30	" "	29.2	90.	3.76	5.62	339.		.6	7	-.15	939P 950P	"
30	2/4	Bollinger	7.8	3.81	1.41	1.56	5.4		.6	7	0	135P 145P	"
31	2/6	Bollinger-Koch	28.2	56.6	2.85	4.18	162.		.6	6	0	406A 417A	"
33	2/11	Bollinger	7.5	5.98	1.44	1.71	8.6		.6	6	0	230P 237P	"
34	2/13	Bollinger-Koch	35.7	89.4	3.73	5.19	335.		.6	9	+.47	1045P 1100P	"
36	2/18	Bollinger	12.	14.23	1.36	2.45	20.		.6	8	0	320P 330P	"
37	2/25	"	12.	14.96	1.22	2.53	18.		.6	7	-.04	1256P 106P	"
38	3/4	"	9.5	10.22	1.08	2.17	11.		.6	6	0	1128A 1135A	"
39	3/11	"	12.	12.76	.94	2.20	12.		.6	9	0	221P 233P	"
40	3/13	Bollinger-Koch	35.7	81.2	3.18	5.00	259.		.6	10	-.10	1020A 1031A	"
41	3/16	" "	39.7	112.3	3.46	5.72	390.		.6	11	-.25	230A 245A	"
42	3/19	Bollinger	18.7	13.37	1.07	2.37	14.		.6	10	-.01	1215P 1227P	"
43	3/22	Bollinger-Koch	31.7	67.3	2.75	4.58	185.		.6	9	+.05	1045A 1055A	"
44	3/25	Bollinger	10.5	17.83	1.47	2.65	26.		.6	10	-.01	340P 355P	"
45	4/1	"	8.3	9.45	1.14	1.98	11.		.6	7	0	408P 417P	"
46	4/8	"	8.5	6.40	1.02	1.78	6.5		.6	7	0	120P 130P	"
47	4/15	"	8.5	7.08	1.11	1.81	7.8		.6	8	0	1217P 1227P	"
48	4/22	"	7.0	3.47	.63	1.30	2.2		.6	7	0	155P 201P	"
49	4/29	Bollinger	7.7	2.24	.88	1.31	2.0		.6	6	0	1225P 1232P	FC 6
50	5/6	"	7.8	2.08	.78	1.27	1.6		.6	6	0	1143A 1149A	"
51	5/13	"	6.3	1.85	.92	1.25	1.7		.6	6	0	305P 311P	"
52	5/20	"	2.2	1.69	1.24	1.27	2.1		.6	4	0	229P 235P	"
53	5/27	"	7.2	2.41	.80	1.28	1.9		.6	7	0	505P 513P	"
54	6/3	"	5.0	1.43	.96	1.20	1.4		.6	7	0	358P 405P	"
55	6/17	"	5.7	1.57	.85	1.21	1.3		.6	6	0	420P 426P	"
56	7/1	"	5.7	1.35	.69	1.20	.95		.6	5	0	1036A 1041A	"
57	7/15	"	5.5	1.43	1.00	1.19	1.4		.6	7	0	1115A 1120A	"
58	7/29	"	4.6	1.14	1.12	1.23	1.3		.6	6	0	320P 326P	"
59	8/12	Luce	6.0	1.22	.94	1.16	1.2		.6	6	0	925A 935A	FC 13
60	8/26	Bollinger	4.6	1.29	.76	1.13	1.0		.6	7	0	134P 143P	FC 6
61	9/8	"	4.7	1.27	.71	1.12	0.90		.6	6	0	225P 231P	"
62	9/23	"	5.1	1.15	.63	1.12	0.70		.6	6	0	121P 127P	"

F. C. D. FORM 104 7M 8-36

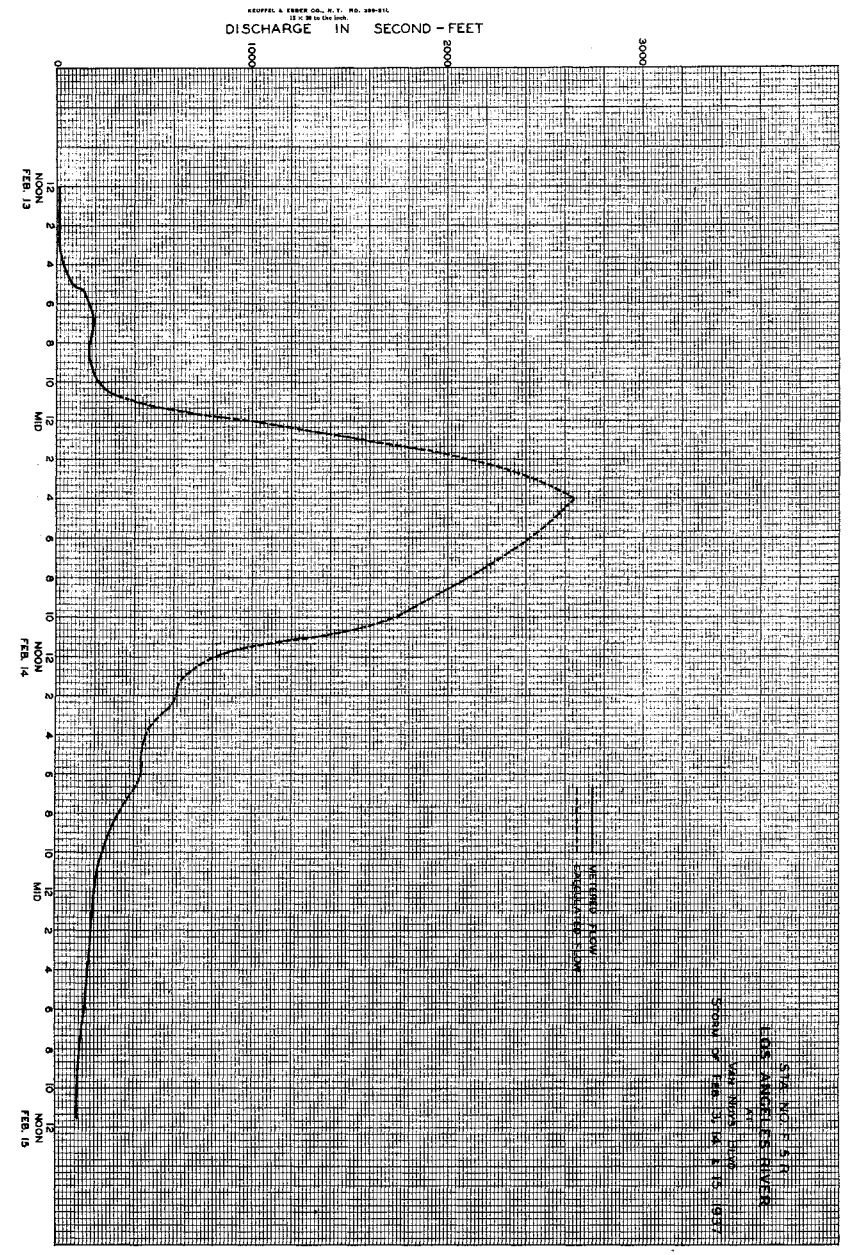
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 5 R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

~~At~~ Van Nuys Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Acting Person Int.	METH OD	MEAS. REGS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
63	10/7	Bollinger	5.0	1.89	.53	1.12	1.0		.6	6	0	848A 854A	FC 6
64	10/21	"	5.5	2.16	.51	1.14	1.1		.6	6	0	252P 258P	"
65	10/28	"	4.9	1.92	.52	1.12	1.0		.6	6	0	1142A 1150A	"
66	11/4	"	5.5	2.02	.51	1.12	1.0		.6	7	0	212P 220P	"
67	11/10	"	4.5	1.82	.53	1.14	.95		.6	6	0	245P 250P	"
68	11/18	"	4.5	2.08	.39	1.14	.80		.6	6	0	833A 840A	"
69	11/24	"	5.2	1.19	.70	1.14	.85		.6	5	0	338P 344P	"
70	12/2	"	5.2	1.26	.86	1.14	1.1		.6	6	0	323P 329P	"
71	12/9	"	5.5	1.29	.74	1.14	.95		.6	5	0	153P 158P	"
72	12/11	Bollinger-Koch	7.5	7.01	.63	1.74	4.4		.6	5	0	545P 552P	"
73	12/16	Bollinger	4.5	1.14	.80	1.14	.90		.6	5	0	313P 318P	"
74	12/23	"	5.3	1.46	.95	1.18	1.4		.6	6	0	1247P 1257P	"
75	12/31	"	4.0	1.13	.80	1.14	.90		.6	5	0	1054A 1100A	"
76	1/5	"	5.2	1.19	.90	1.14	1.1		.6	6	0	308P 315P	"
77	1/15	Bollinger-Koch	8.5	9.82	1.0	2.01	9.8		.6	6	-.04	1102A 1107A	"
78	1/19	Bollinger	8.0	6.25	.76	1.61	4.8		.6	7	0	342P 350P	"
79	1/27	"	8.5	7.03	.91	1.61	6.3		.6	9	0	200P 210P	"
80	2/1	Bollinger-Koch	40.7	141.2	3.48	6.12	492.		.6	10	-.15	726A 740A	"
81	2/3	" "	24.2	44.25	1.95	3.64	86.		.6	7	-.09	156P 209P	"
82	2/4	" "	16.2	35.21	2.17	3.34	77.		.6	5	-.04	944A 951A	"
83	2/4	" "	10.	14.76	1.48	2.57	22.		.6	7	-.02	329P 335P	"
84	2/4	" "	17.8	19.82	2.15	2.57	43.		.6	8	-.02	411P 418P	"
85	2/9	" "	10.2	17.24	1.84	2.62	32.		.6	6	+.16	1009A 1014A	"
86	2/9	" "	35.20	83.47	2.38	4.86	198.		.6	12	+.16 -.02	1115A 1129A	"
87	2/10	Bollinger	10.0	10.40	1.53	2.08	16.		.6	6	-.01	415P 423P	FC 6
88	2/17	"	7.8	6.12	1.23	1.68	7.5		.6	6	0	956A 1006A	"
89	2/23	"	8.5	5.23	1.27	1.62	6.6		.6	9	0	248P 256P	"
90	2/27	Bollinger-Koch	22.2	44.12	2.08	3.71	92.		.6	7	0	226P 238P	"
91	2/28	" "	48.7	152.	3.74	6.62	568.		.6	12	+.30	954A 1021A	"
92	3/25	Bollinger	9.5	11.92	1.55	1.68	18.		.6	5	0	1133A	"
93	4/1	"	12.5	16.66	.89		15.		.6	7		1000A 1010A	"
94	4/7	"	7.3	11.08	.82	1.40	9.1		.6	6		506P 516P	"
95	4/14	"	8.0	12.88	1.25	1.70	16.		.6	7		447P 453P	"
96	4/28	"	16.8	15.82	.68	1.52	11.		.6	8	0	315P 325P	"
97	5/5	"	9.1	8.65	3.22	1.18	2.8		.6	6	0	312P 319P	"
98	5/12	"	18.0	14.66	.52	1.46	7.6		.6	8	0	335P 345P	"
99	5/19	"	17.0	13.80	.52	1.41	7.3		.6	9	0	419P 427P	"
100	5/26	"	8.0	6.02	.51	6.06	3.1		.6	6	0	446P 453P	"
101	6/9	"	8.0	3.27	.77	5.96	2.5		.6	8	-.01	2255P 101P	"
102	6/23	"	8.0	4.70	.56	5.95	2.6		.6	6	0	1219P 1226P	"
103	7/7	"	7.9	4.82	.60	5.94	2.9		.6	6	0	1210P 1216P	"
104	7/21	"	8.0	5.43	.48	6.00	2.6		.6	7	0	244P 253P	"
105	7/28	"	4.0	2.77	.78	6.00	2.2		.6	5	0	1248P 1255P	"
106	8/3	Luce-B. Luce	3.0	1.44	1.30	5.98	1.9		.6	6	+.04	940A 950A	FC 39
107	8/16	Bollinger	7.9	3.99	.56	5.86	2.2		.6	7	-.01	305P 312P	FC 6
108	9/1	"	7.7	3.99	.51	5.86	2.0		.6	6	0	416P 422P	"
109	9/15	"	7.7	3.76	.47	5.83	1.8		.6	8	0	1042A 1051A	"
110	9/29	"	8.4	6.84	.91	6.17	6.2		.6	8	0	134P 141P	"



F. C. Dist. Form 52 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F5R

Daily discharge, in second-feet of LOS ANGELES RIVER at Van Nuys Blvd., for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.9	4.4	7.5	4.6	12	11	1.9	1.4	1.0	1.1	1.0
2	0.4	0.8	4.2	5.5	4.7	12	11	1.8	1.4	1.0	1.0	1.0
3	0.5	0.7	4.4	5.5	5	11	10	1.7	1.4	1.1	1.0	1.1
4	0.3	0.6	4.5	5.5	5.5	11	9.5	1.8	1.4	2.1	1.1	1.1
5	0.4	0.4	4.5	5.5	11	11	9	1.7	1.5	1.4	1.1	1.0
6	0.4	0.4	4.6	16	1050	12	5.5	1.7	1.4	1.3	1.1	1.1
7	0.4	0.4	4.5	5.5	158	12	7	1.6	1.4	1.3	1.2	1.1
8	0.3	0.3	4.5	4.7	19	12	6.5	1.9	1.4	1.4	1.3	0.9
9	0.2	0.3	4.6	4.5	10	12	6.5	1.9	1.4	1.3	1.3	0.8
10	0.2	0.3	4.7	4.5	9.5	12	6.5	1.7	1.4	1.4	1.1	0.8
11	0.2	0.3	4.4	4.4	9	13	6.5	1.6	1.4	1.4	1.2	0.8
12	0.2	0.4	4.6	20	9.5	35	6	1.8	1.4	1.4	1.2	0.8
13	0.2	0.4	4.7	12	87	185	5	1.7	1.4	1.4	1.1	0.8
14	0.2	0.4	7	4.7	1200	22	7.5	1.8	1.4	1.4	1.1	0.9
15	0.3	0.3	14	4.7	114	285	8	1.8	1.3	1.6	1.5	0.9
16	0.5	0.3	5.5	4.6	43	193	8	1.8	1.3	1.8	1.2	0.8
17	2.0	2.4	4.2	4.8	30	18	7.5	2.1	1.3	1.8	1.5	0.8
18	1.5	4.4	4.0	4.9	18	16	7	2.1	1.4	1.8	1.4	0.8
19	0.6	4.5	4.0	5	18	14	6	2.1	1.3	1.5	1.4	0.8
20	0.4	4.4	3.9	5	17	15	2.8	2.1	1.2	1.7	1.4	0.7
21	0.4	4.4	3.9	5	16	14	2.5	2.1	1.2	1.4	1.5	0.7
22	0.5	4.6	3.8	5	16	128	2.2	2.1	1.2	1.4	1.2	0.7
23	0.4	4.4	4.0	4.8	14	24	2.2	2.0	1.3	1.5	1.3	0.7
24	0.4	4.1	4.6	4.7	14	44	2.4	2.0	1.3	1.5	1.2	0.7
25	0.5	4.4	11	4.5	21	40	2.3	1.9	1.2	1.6	1.1	0.7
26	0.6	4.4	3.9	4.4	15	21	2.2	2.1	1.1	0.8	1.0	0.8
27	0.4	4.2	9.6	4.1	13	16	2.1	1.9	1.1	1.2	1.3	0.8
28	0.3	4.1	26	4.5	13	15	2.0	1.9	1.1	1.2	1.0	0.8
29	0.3	4.4	7	9		13	1.9	1.8	1.0	1.7	1.0	0.9
30	0.8	4.4	86	97		10	2.1	1.7	1.0	1.0	1.0	0.9
31	1.8		200	29		11		1.5		1.1	1.1	
	16.0	663	547.4	306.8	2944.8	1249	168.7	57.6	39.0	43.5	37.3	25.7
MEAN	.52	2.21	17.7	9.90	105	40.3	5.62	1.86	1.30	1.40	1.20	.86
ACRE-FEET	32	132	1090	609	5840	2480	335	114	77	86	74	51

Remarks:

YEAR OR PERIOD — MEAN 15.1 — ACRE-FEET 10920

F. C. Dist. Form 52 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

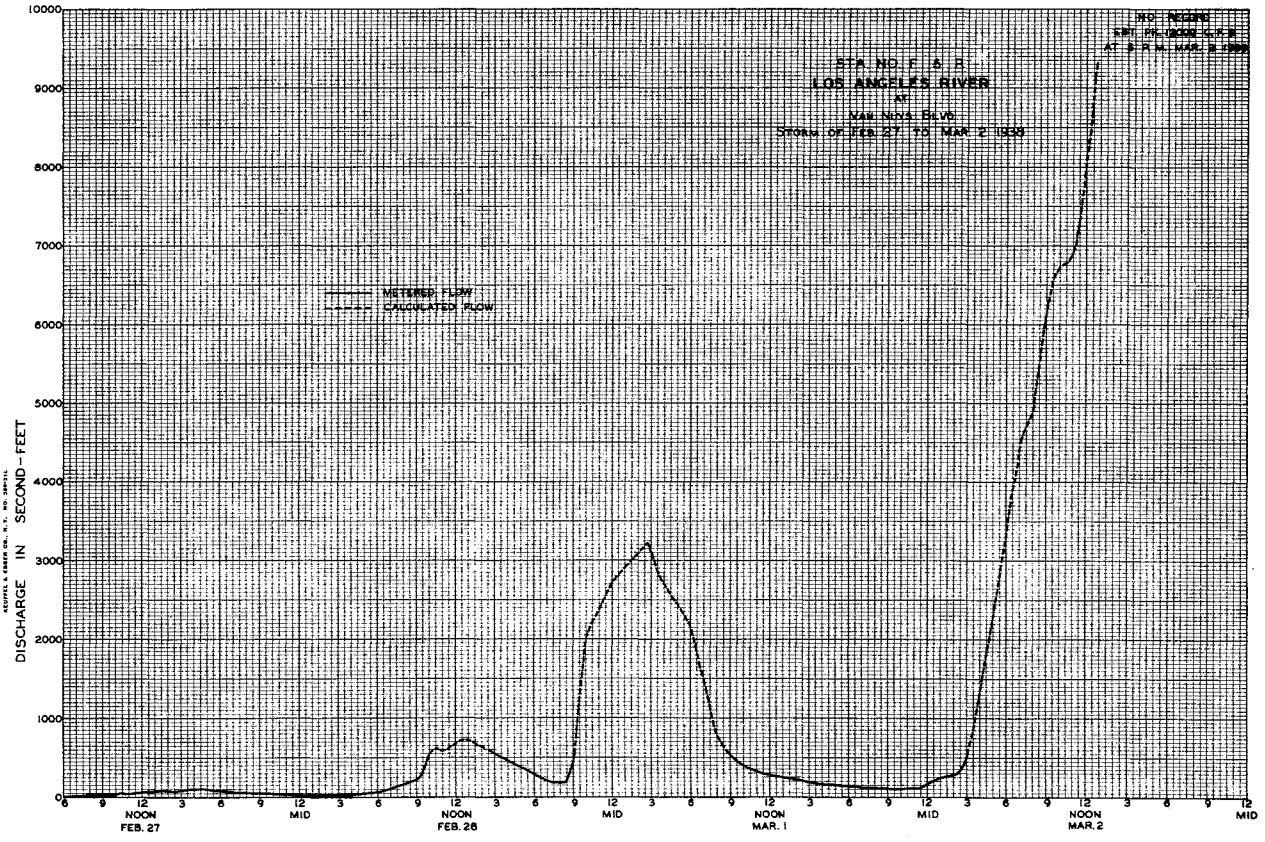
Sta. No. F5R

Daily discharge, in second-feet of LOS ANGELES RIVER at Van Nuys Blvd., for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	1.0	0.9	1.0	211	974		10	2.7	2.8	1.9	2.2
2	0.9	1.1	1.3	1.1	10	5870		9.5	2.7	3.0	1.9	2.1
3	1.1	0.9	1.2	1.1	58			3.9	2.7	2.7	1.8	1.9
4	1.1	1.0	1.0	1.2	50			3.2	2.6	2.9	1.9	1.8
5	1.1	1.0	1.0	1.1	8.5			2.8	2.6	2.9	2.0	1.8
6	1.1	1.0	0.9	1.2	6.5			3.4	2.8	3.0	2.8	1.8
7	1.0	0.9	0.9	1.2	6.5			6.5	2.8	2.9	3.0	1.9
8	1.0	0.9	0.9	1.2	7			7	2.9	3.1	3.1	1.8
9	1.1	1.0	1.2	1.1	73			7	2.7	3.2	5.5	1.8
10	0.9	0.9	1.5	1.1	20			7.5	2.6	3.3	6.5	1.9
11	1.0	0.9	3.3	1.1	477			8	2.6	3.1	6	1.8
12	1.0	0.9	1.8	1.1	45			8	2.6	3.0	6.1	1.8
13	1.0	1.0	1.3	1.1	11			7.5	2.6	3.0	6.5	1.8
14	0.9	1.0	1.1	1.1	9			7.5	2.6	3.0	7	1.9
15	1.1	0.8	1.1	3.3	8	NO RECORD		7.5	2.6	3.1	5.5	1.8
16	1.0	0.8	0.9	4.1	8			8.5	2.8	2.9	4.8	1.9
17	1.1	0.9	1.0	4.8	7.5			9	2.8	2.9	2.6	1.9
18	1.1	0.8	1.1	4.7	8			8.5	2.8	2.7	2.2	1.9
19	1.1	0.8	1.1	4.9	10			8	2.8	2.6	2.2	1.9
20	1.1	0.9	1.1	5.5	7.5			7.5	2.7	2.7	2.2	1.9
21	1.1	1.1	1.2	5.5	7			3.9	2.7	2.6	2.1	2.0
22	1.1	1.2	1.2	5.5	7			3.8	2.6	2.3	2.2	3.9
23	1.1	1.3	3.3	5.5	6.5			4.0	2.6	2.4	1.9	6
24	1.1	1.2	1.3	5.5	6.5			4.3	2.6	2.3	2.2	6
25	1.2	0.9	1.3	6	6			3.6	2.6	2.2	1.9	6
26	1.2	0.9	5.5	5.5	6			3.4	2.5	2.2	2.1	6
27	1.1	0.9	1.5	6.5	45			3.0	2.6	2.2	1.9	6
28	1.1	0.9	1.3	6	509			3.1	2.6	2.3	1.8	6
29	1.1	0.9	0.9	6.5			11	3.0	2.7	2.2	1.9	6
30	1.1	0.9	0.9	5.5			11	3.1	2.8	2.2	1.9	6
31	1.1		0.9	7				3.0		2.2	2.2	
	32.8	28.7	43.9	108.0	1634.5	6844 (Mar.1-2) (Apr.29-30)	22	178.0	80.3	83.8	97.6	91.5
MEAN	1.06	.96	1.42	3.48	58.4			5.74	2.68	2.70	3.15	3.05
ACRE-FEET	65	57	87	214	3240	13570	44	353	159	166	194	181

Remarks: Total acre-feet for year does not include discharge between 3/2 and 4/29.

YEAR OR PERIOD — MEAN — ACRE-FEET 18330 inc.



STATION F124R

LOS ANGELES RIVER at Vineland Avenue

LOCATION:

On downstream side of Vineland Avenue bridge, near Universal City.

DRAINAGE AREA:

Indeterminate due to a natural split which divides the Big Tujunga Wash about 7 miles above the station; the west wash enters the Los Angeles River above and the east wash enters the Los Angeles River below station F124R.

CHANNEL AND CONTROL:

Sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

At low flow by wading near gage.
At high flow from highway bridge at gage.

RECORDER:

Recorder installed December 29, 1930 in an F. C. standard type recorder house over an 18 inch diameter, corrugated iron pipe stilling well. From October 1, 1936 to December 8, 1936 an H.C.F. continuous recorder was in service; from December 8, 1936 to June 25, 1937 a horizontal Rational recorder was in service; from June 25, 1937 to March 2, 1938 an H.C.F. continuous recorder was in service. The recorder was removed in the afternoon of March 2, 1938.
Station abandoned.

REGULATION:

Flow partially regulated by Big Tujunga Dam No. 1, and by Pacoima Dam and by Haines Debris Basin. Los Angeles Aqueduct water used in the power house At Diaz Avenue is discharged intermittently into the river above the gaging station.

REGULATION AND OR DIVERSIONS:

Twin Lakes Dams, Chatsworth Reservoir, Upper and Lower San Fernando Reservoirs, Encino Reservoir and a dam on a tributary to Limekiln Creek.

DIVERSIONS:

There are several diversions for irrigation in the mountain tributaries.

RECORDS AVAILABLE:

From December 29, 1930 to March 2, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 2770 second-feet February 14.
Minimum 2.3 second-feet October 2.
1937-1938
Maximum 37700 second-feet, estimated, March 2.
Minimum not determined.
December 29, 1930 to March 2, 1938.
Maximum 37700 second-feet, estimated, March 2, 1938.
Minimum .1 second-foot at various times.

OPERATION:

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

F. C. D. FORM 104 1M 8-36

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, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN	END	METER NO.
1	10/1	Bollinger	9.0	3.43	.95	1.89	3.2		.6	7	0	938A	948A	FC 6
2	10/8	"	9.0	2.37	.93	1.78	2.2		.6	7	0	326P	336P	"
3	10/15	"	9.3	3.12	.91	1.98	2.8		.6	7	0	212P	222P	"
4	10/17	Bollinger-Koch	9.0	6.21	1.04	2.22	6.4		.6	6	0	410P	416P	"
5	10/22	Bollinger	8.0	2.69	1.09	1.90	2.9		.6	5	0	119P	125P	"
6	10/29	"	8.0	2.61	1.18	1.90	3.1		.6	6	0	908A	916A	"
7	10/31	Bollinger-Koch	8.0	4.46	1.09	2.14	4.9		.6	5	-.01	312A	315A	"
8	11/5	Bollinger	7.0	2.47	1.18	1.82	2.9		.6	5	0	1140A	1146A	"
9	11/12	"	7.0	2.80	.98	1.93	2.7		.6	5	0	1110A	1116A	"
10	11/19	"	10.0	7.57	.94	2.38	7.1		.6	5	-.01	114P	120P	"
11	11/23	"	8.5	7.40	1.05	2.50	7.9		.6	6	0	328P	336P	"
12	11/25	"	9.0	6.11	1.12	2.33	6.9		.6	5	+.03	1105A	1110A	"
13	12/3	"	9.0	6.93	1.05	2.37	7.3		.6	6	0	1038A	1044A	"
14	12/10	"	9.0	6.34	1.14	2.33	7.2		.6	7	0	1104A	1111A	"
15	12/15	Bollinger-Koch	15.5	31.20	.72	3.98	22.		.6	5	0	233A	240A	"
16	12/17	Bollinger	10.0	5.44	1.44	2.35	7.8		.6	7	0	120P	130P	"
17	12/23	"	9.0	6.39	1.12	2.35	7.2		.6	6	-.01	107P	115P	"
18	12/28	Bollinger-Koch	27.0	53.85	1.91	4.52	103.		.6	5	-.19	212A	222A	"
19	1/6	" "	13.6	7.65	1.46	2.60	11.		.6	7	-.01	323A	332A	"
20	1/7	Bollinger	12.5	6.59	1.53	2.45	10.		.6	8	0	130P	140P	"
21	1/12	"	11.5	12.80	1.24	2.91	16.		.6	5	-.01	1145A	1150A	"
22	1/14	"	10.0	4.50	2.04	2.41	9.2		.6	6	0	110P	118P	"
23	1/21	"	11.5	4.55	1.65	2.31	7.5		.6	7	0	125P	135P	"
24	1/28	"	13.0	7.84	1.52	2.64	12.		.6	8	0	221P	231P	"
25	1/29	Bollinger-Koch	16.5	15.05	2.18	3.07	33.		.6	9	-.05	825A	833A	FC 6
26	1/30	" "	Two Channels			5.30	421.		.6	13	-.21	1039P	1108P	"
27	2/4	Bollinger	11.6	4.93	1.78	2.56	8.8		.6	10	-.02	332P	342P	"
28	2/6	Bollinger-Koch	Two Channels			4.11	136.		.6	11	+.20	503A	533A	"
29	2/6	" "	Three Channels			6.77	1520.		.6	16	-.25	805P	840P	"
30	2/7	" "	30.0	29.34	2.80	4.16	82.		.6	13	-.02	302P	308P	"
31	2/11	Bollinger	10.5	5.91	1.97	3.11	12.		.6	8	0	345P	353P	"
32	2/13	Bollinger-Koch	Two Channels			4.61	305.		.6	12	-.01	808P	830P	"
33	2/14	" "	Three Channels			6.92	1720.		.6	20	-.15	1020A	1105A	"
34	2/19	Bollinger	28.0	20.66	2.14	3.80	44.		.6	11	0	734A	808A	"
35	2/25	Bollinger-Koch	28.0	23.09	2.06	3.72	47.		.6	10	-.01	527P	535P	"
36	3/4	Bollinger	23.5	10.47	1.56	3.08	16.		.6	9	0	1032A	1040A	"
37	3/11	"	10.2	7.93	2.08	3.06	16.		.6	7	0	1040A	1050A	"
38	3/13	Bollinger-Koch	Two Channels			5.26	637.		.6	16	-.08	847A	909A	"
39	3/15	Bollinger	26.5	15.24	1.41	2.85	21.		.6	12	+.03	355P	409P	"
40	3/15	Bollinger-Koch	Three Channels			6.60	1880.		.6	19	-.10	1116P	1159P	"
41	3/18	Bollinger	23.5	13.03	1.95	3.61	25.		.6	13	0	100P	115P	"
42	3/22	Bollinger-Koch	90.5	91.68	2.70	4.61	247		.6	22	+.08	110P	126P	"
43	3/25	Bollinger	23.5	18.14	2.28	3.49	42.		.6	11	-.02	134P	146P	"
44	4/1	"	17.0	9.22	1.63	2.76	15.		.6	10	-.02	250P	300P	"
45	4/8	"	9.8	6.26	2.22	2.69	14.		.6	9	-.02	257P	308P	"
46	4/15	"	11.0	7.28	1.91	2.73	14.		.6	8	-.04	152P	200P	"
47	4/22	"	9.5	6.45	1.14	2.62	7.3		.6	8	0	1130A	1140A	"
48	4/29	"	12.2	4.26	1.44	2.57	6.2		.6	8	0	1100A	1110A	"

F. C. D. FORM 104 1M 8-36

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, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN	END	METER NO.
49	5/6	Bollinger	11.2	4.84	1.61	2.57	7.8		.6	8	-.01	1036A	1047A	FC 6
50	5/13	"	9.5	5.14	1.20	2.54	6.2		.6	8	0	130P	140P	"
51	5/20	"	6.2	3.14	1.84	2.52	5.8		.6	6	0	340P	350P	"
52	5/27	"	7.0	3.74	1.91	2.54	7.2		.6	8	0	1253P	107P	"
53	6/3	"	6.5	3.86	1.59	2.52	6.1		.6	8	0	1120A	1136A	"
54	6/10	"	6.5	3.70	1.55	2.52	5.7		.6	7	0	945A	957A	"
55	6/17	"	6.5	4.80	1.28	2.55	6.2		.6	6	0	236P	245P	"
56	6/24	"	7.5	3.25	1.86	2.57	6.1		.6	8	0	958A	1008A	"
57	7/1	"	6.0	4.76	1.21	2.55	5.8		.6	6	+.01	100P	108P	"
58	7/15	"	10.5	6.02	.99	2.57	6.0		.6	9	0	122P	132P	"
59	7/29	"	10.0	4.83	1.13	2.55	5.5		.6	9	0	1025A	1035A	"
60	8/12	Luce	11.4	5.00	1.03	2.52	5.2		.6	13	0	725A	740A	FC 13
61	8/26	Bollinger	8.5	3.98	1.28	2.54	5.1		.6	8	0	1036A	1044A	FC 6
62	9/8	"	7.1	3.59	1.35	2.49	4.8		.6	8	0	1053A	1103A	"
63	9/23	"	7.3	3.46	1.47	2.48	5.1		.6	7	0	1046A	1056A	"

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, 19 38

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN	END	METER NO.
64	10/7	Bollinger	7.2	3.43	1.41	2.56	4.8		.6	7	0	1210P	1218P	FC 6
65	10/21	"	7.2	3.37	1.38	2.46	4.7		.6	7	0	133P	143P	"
66	10/28	"	7.5	3.53	1.34	2.47	4.7		.6	8	0	1050A	1100A	"
67	11/4	"	7.8	3.60	1.44	2.47	5.2		.6	8	0	110P	120P	"
68	11/10	"	7.5	3.58	1.60	2.53	5.7		.6	7	-.02	127P	133P	"
69	11/18	"	6.8	3.42	1.46	2.48	5.0		.6	8	0	1020A	1027A	"
70	11/24	"	7.0	3.61	1.55	2.49	5.6		.6	7	0	235P	241P	"
71	12/2	"	7.2	3.45	1.57	2.48	5.4		.6	7	0	226P	233P	"
72	12/9	"	6.6	3.26	1.53	2.46	5.0		.6	7	0	1245P	1252P	"
73	12/11	Bollinger-Koch	14.5	12.72	1.96	3.28	25.		.6	8	+.01	1006P	1016P	"
74	12/16	Bollinger	8.3	3.74	1.36	2.42	5.1		.6	7	0	204P	212P	"
75	12/23	"	14.5	9.14	1.83	2.82	17.		.6	7	-.04	1120A	1130A	"
76	12/31	"	7.4	4.35	1.17	2.38	5.1		.6	7	0	952A	1000A	"
77	1/6	"	7.2	4.44	1.25	2.38	5.6		.6	6	0	1222P	1229P	"
78	1/15	Bollinger-Koch	14.5	12.37	2.52	3.09	33.		.6	8	-.02	1147A	1152A	"
79	1/19	Bollinger	8.5	5.59	1.59	2.46	8.9		.6	7	0	1124A	1131A	"
80	1/27	"	8.5	5.71	1.57	2.43	9.0		.6	8	0	111P	119P	"
81	2/1	Bollinger-Koch	112.0	195.8	3.13	5.36	613.		.6	19	-.19	830A	858A	"
82	2/3	" "	Two Channels			3.75	120.		.6	8	-.10	836P	855P	"
83	2/4	" "	Two Channels			3.92	135.		.6	10	-.11	1104A	1118A	"
84	2/9	" "	12.0	14.9	1.48	1.98	22.		.6	6	0	925A	931A	"
85	2/9	" "	Two Channels			3.88	208.		.6	10	-.04	415P	438P	"
86	2/10	Bollinger	9.2	7.2	2.76	1.92	20.		.6	7	-.01	235P	247P	"
87	2/11	Bollinger-Koch	146.0	470.8	3.96	7.15	1860.		.6	17	-.20	152P	234P	"
88	2/17	Bollinger	10.5	5.87	2.51	1.30	15.		.6	7	0	200P	207P	FC 6
89	2/23	"	10.0	5.67	2.28	1.33	13.		.6	7	0	340P	348P	"
90	2/28	Bollinger-Koch	114.0	253.4	3.26	5.72	826.		.6	20	-.07	1146A	1222P	"
91	3/25	Bollinger	58.3	33.87	2.51		85.		.6			317P	333P	"

STATIONS F57R AND F57B-R

LOS ANGELES RIVER at Dayton Avenue (formerly Figueroa St.)

LOCATION:

Station F57R was on the west (right) abutment, underneath the Dayton Avenue (formerly Figueroa Street) bridge.
Station F57B-R is on the west (right) bank 127 feet downstream from station F57R and upstream from the junction of the Los Angeles River with the Arroyo Seco.

DRAINAGE AREA:

510 square miles.

CHANNEL AND CONTROL:

Station F57R:
Channel - sand, silt and rocks. There are also old piling in the channel, the stumps of which are kept cut 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.
On December 13, 1937 a control was constructed by spiking planks to the stumps of the old piling 30 feet downstream from the stilling well; this control was removed December 30, 1937.
Station F57B-R:
Channel - sand, silt and rocks.
No artificial control.

DISCHARGE MEASUREMENTS:

At low flow by wading.
At high flow from cable car underneath Dayton Avenue bridge.

RECORDER:

Installed in December, 1929 in an F. C. standard type house over an 18 inch diameter, corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service at station F57R from October 1, 1936 to May 26, 1938 when it was moved to station F57B-R where it was continued in service until September 30, 1938.

REGULATION:

Flow is partially regulated by Sir Tujunga Dam No. 1, by Pacoima Dam and various debris basins. Los Angeles Aqueduct water used in the power house at Diaz Avenue is discharged into the river at various times above the station F124R.

REGULATION AND DIVERSIONS:

Twin Lakes Dams, Chatsworth Reservoir, Upper and Lower San Fernando Reservoirs, Encino Reservoir and a dam on a tributary to Limekiln Creek.

DIVERSIONS:

There are several small diversions on the mountain tributaries for irrigation.
Underflow near Griffith Park diverted by L.A.C.W.D.

RECORDS AVAILABLE:

December, 1929 to May 25, 1938 at station F57R.
May 26, 1938 to September 30, 1938 at station F57B-R.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 2410 second-feet February 8, 14.
Minimum 0.4 second-foot several days in October.
1937-1938
Maximum 68000 second-feet, estimated, March 2.
Minimum 0.0 second-foot October 25-28.
1928-1939
Maximum 68000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year from 1929-1930 to 1933-34.

ACCURACY:

Fair: October to December, 1936; May to August, 1937.
Poor: January to April, 1937; September, 1937 to September, 1938.
The naturally unstable stage-discharge relation was aggravated, particularly in the 1937-1938 water year, by construction activities in the river channel. On numerous days there were either no communication or communication for only part of the day.
Estimated.
December 16, 1936; February 6, 7, 13-15, 25, March 4-13, 16, 22, 1937; January 15, 16, February 1, 3, 5, 12-16, 19-21, 26, March 2-11, 14-24, May 26, 1938.
Interpolated: February 8-12, 16, 17, 26-28, March 1-3, 14, December 30, 1937; January 1-3, 6, 7-12, 14, 16, 20-26, 28-30, February 6, 17, 22, March 25-28, April 1-6, 8-13, 15-21, 23-28, 30, May 1-4, 6-10, 12-25, September 21, 1938.
Discharge measurements: December 31, 1937; January 4, 6, 13, 17, 19, 27, 31, February 5, 7, 23-25, March 29-31, April 7, 14, 22, 29, May 5, 11, 1938.
Clock stopped: November 13-17, 1937; August 29 to September 1, September 8-13, 1938.

*Used as basis for mean daily flow.

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 Department.

F. C. D. FORM 104 IN 6-39

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 57 R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT Dayton Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Number Ref.	METH OD	MEAS. MECH. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/8	Bollinger	4.0	.88	.77	2.19	.70		.6	4	-.01	830A 835A	FC 6
2	10/15	"	3.7	.60	.77	2.20	.46		.6	5	0	812A 818A	"
3	10/17	Bollinger-Koch	26.5	12.33	1.44	2.68	18.		.6	10	-.03	505P 510P	"
4	10/18	" "	62.0	57.7	3.11	3.63	180.		.6	11	-.33	555P 607P	"
5	10/22	Bollinger	3.0	.57	1.32	2.18	.75		.6	4	0	842A 847A	"
6	10/28	"	3.5	.55	1.07	2.19	.60		.6	4	0	140P 146P	"
7	10/31	Bollinger-Koch	14.5	2.63	1.07	2.48	2.8		.6	5	-.03	158A 204A	"
8	10/31	" "	7.0	2.31	1.12	2.44	2.6		.6	5	-.04	210A 215A	"
9	10/31	" "	32.0	17.46	1.90	2.93	33.		.6	12	-.05	625A 632A	"
10	10/31	" "	28.5	15.71	1.47	2.80	23.		.6	8	-.03	653A 659A	"
11	11/5	Bollinger	5.5	1.03	.92	2.38	.95		.6	5	0	843A 849A	"
12	11/12	"	6.0	1.13	.71	2.33	.80		.6	5	0	840A 846A	"
13	11/19	"	4.5	1.06	1.04	2.30	1.1		.6	5	0	934A 939A	"
14	11/25	"	5.5	1.03	.73	2.23	.75		.6	5	-.01	844A 850A	"
15	12/3	"	3.7	.97	.95	2.24	.90		.6	4	0	833A 838A	"
16	12/10	"	4.5	1.04	1.08	2.27	1.1		.6	5	0	405P 411P	"
17	12/14	Bollinger-Koch	28.0	11.31	1.61	2.65	18.		.6	10	-.03	847P 855P	"
18	12/14	" "	30.5	27.47	3.72	3.28	102.		.6	8	+.11	935P 945P	"
19	12/15	" "	64.5	55.83	2.70	3.64	150.		.6	14	-.08	634A 645A	"
20	12/15	" "	70.5	57.26	2.61	3.60	151.		.6	16	-.06	150P 203P	"
21	12/16	Bollinger	20.0	11.80	1.21	2.66	14.		.6	8	0	1045A 1055A	"
22	12/17	"	5.0	1.26	.86	2.36	1.1		.6	5	-.01	909A 915A	"
23	12/23	"	5.0	1.30	1.08	2.38	1.4		.6	5	0	933A 940A	"
24	12/25	Bollinger-Koch	74.0	78.12	3.72	3.94	291.		.6	7	-.13	550A 600A	"
25	12/25	Bollinger-Koch	72.0	72.90	3.04	3.75	222.		.6	13	-.05	630A 643A	FC 6
26	12/27	" "	151.	426.6	4.98	6.63	2130.		.6	9	+.10	740A 820A	"
27	12/27	" "	136.	292.2	5.05	5.83	1480.		.6	10	-.74	945A 1000A	"
28	12/27 12/28	" "	75.	102.4	4.55	4.00	466.		.6	6	0	1206A 1220A	"
29	12/28	Bollinger	65.	57.02	1.89	2.89	108.		.6	10	-.02	1120A 1135A	"
30	12/30	Bollinger-Koch	64.	72.60	3.21	3.27	233.		.6	9	+.26	425P 435P	"
31	12/30	" "	73.	98.1	4.09	3.94	402.		.6	7	+.12	615P 628P	"
32	1/6	" "	32.	23.92	1.44	2.62	34.		.6	9	-.04	1203A 1213A	"
33	1/6	" "	69.	66.45	2.76	3.32	184.		.6	6	-.05	810A 820A	"
34	1/7	Bollinger	25.5	12.33	1.48	2.36	18.		.6	9	-.01	930A 940A	"
35	1/12	"	37.	30.82	2.98	2.76	92.		.6	10	+.01	920A 933A	"
36	1/14	"	19.	7.16	1.70	2.33	12.		.6	8	-.02	1015A 1025A	"
37	1/21	"	8.0	3.74	1.61	2.30	6.		.6	6	0	408P 418P	"
38	1/28	"	7.9	3.78	1.69	2.28	6.4		.6	7	0	407P 417P	"
39	1/29	Bollinger-Koch	34.5	34.55	3.62	2.96	125.		.6	9	-.04	705A 714A	"
40	1/30	" "	79.0	126.9	5.32	4.32	675.		.6	8	-.11	630P 650P	"
41	2/5	Bollinger	19.5	6.20	1.23	2.29	7.6		.6	10	+.05	1115A 1125A	"
42	2/6	Bollinger-Koch	138.	23.6	5.77		1360.		.6	12		924A 950A	"
43	2/6	" "	136.	221.7	4.70	5.39	1040.		.6	13	-.18	1030A 1052A	"
44	2/8	Bollinger	45.	25.75	3.10	2.17	80.		.6	11	0	1222P 1237P	"
45	2/11	"	28.3	9.75	1.73	1.62	17.		.6	11	0	440P 452P	"
46	2/13	Bollinger-Koch	70.	96.45	4.49		433.		.6	9	-.01	525P 538P	"
47	2/14	" "	127.	265.6	6.41	5.85	1700.		.6	12	-.06	1215P 1240P	"
48	2/19	Bollinger	40.5	29.72	3.80	2.23	113.		.6	11	-.03	955A 1010A	"
49	2/25	Bollinger-Koch	61.0	66.90	4.17	2.52	280.		.6	8	-.01	329P 344P	FC 6
50	3/4	Bollinger	36.0	14.08	1.87	1.81	26.		.6	11	-.02	858A 914A	"
51	3/12	Bollinger-Koch	38.0	19.47	2.79	1.84	54.		.6	14	+.05	644A 654A	"
52	3/13	" "	75.0	129.8	6.27	3.95	813.		.6	8	-.18	558A 624A	"
53	3/13	" "	48.3	54.16	3.77	2.43	204.		.6	13	-.05	425P 435P	"
54	3/15	" "	97.	231.3	7.95	5.03	1840.		.6	11	-.20	844P 913P	"
55	3/18	Bollinger	42.5	24.82	3.40	1.74	84.		.6	16	0	903A 922A	"
56	3/22	Bollinger-Koch	56.0	112.2	5.19	3.18	582.		.6	7	-.05	758A 810A	"
57	3/23	Bollinger	43.7	24.44	3.53	1.73	86.		.6	17	+.02	1046A 1106A	"
58	3/25	"	40.0	28.81	4.07	1.93	117.		.6	15	-.02	910A 922A	"
59	4/1	"	42.0	20.36	2.26	1.54	46.		.6	16	0	1038A 1048A	"

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 57 R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at Dayton Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
60	4/9	"	33.0	9.33	1.48	1.28	14.		.6	11	+.01	940A 950A	"
61	4/22	"	15.2	3.87	1.29	1.20	5.0		.6	9	0	923A 931A	"
62	4/29	"	31.5	11.71	1.74	1.30	20.		.6	14	0	825A 940A	"
63	5/6	"	7.4	3.06	1.69	1.18	5.2		.6	8	0	820A 833A	"
64	5/13	"	10.8	2.80	.98	1.18	2.7		.6	9	-.01	1050A 1058A	"
65	5/20	"	8.3	2.26	1.21	1.14	2.8		.6	6	-.01	815A 824A	"
66	5/27	"	5.9	2.22	1.33	1.06	3.0		.6	6	0	950A 958A	"
67	6/3	"	9.4	3.11	1.25	1.09	3.9		.6	6	0	900A 910A	"
68	6/10	"	4.7	1.57	1.11	1.05	1.8		.6	6	0	825A 835A	"
69	6/17	"	5.8	1.35	1.16	1.04	1.6		.6	6	0	840A 847A	"
70	6/24	"	3.5	1.38	1.03	1.05	1.4		.6	7	+.02	830A 836A	"
71	7/1	"	4.0	.70	.88	.98	.6		.6	4	0	340P 345P	"
72	7/8	Bollinger-Koch	5.5	1.41	1.19	1.02	1.7		.6	5		831A 835A	"
73	7/15	Bollinger	4.2	1.04	1.11	.99	1.2		.6	6		412P 417P	FC 6
74	7/22	"	3.5	1.06	1.10	1.00	1.2		.6	5		248P 253P	"
75	7/29	"	4.5	1.33	1.26	1.06	1.7		.6	5		800A 805A	"
76	8/19	"	5.0	1.83	.97	1.04	1.8		.6	7		835A 843A	"
77	8/26	"	5.0	1.55	1.16	1.05	1.8		.6	6	0	806A 812A	"
78	9/2	"	4.0	1.17	1.08	1.04	1.3		.6	5	-.01	844A 849A	"
79	9/8	"	6.2	1.26	.87	1.00	1.1		.6	7		837A 843A	"
80	9/16	"	4.7	.91	1.01	1.00	.90		.6	5	0	844A 850A	"
81	9/23	"	3.7	.82	1.04	1.02	.86		.6	5		833A 838A	"
82	9/30	"	3.7	.85	1.13	.97	.95		.6	4	0	850A 856A	"

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 57 R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at Dayton Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
83	10/7	Bollinger	3.0	0.73	0.93	0.98	0.70		.6	4	0	150P 155P	FC 6
84	10/14	"	3.1	0.83	0.84	0.94	0.70		.6	5	0	312P 317P	"
85	10/21	"	2.5	0.67	1.02	0.94	0.70		.6	4	0	827A 833A	"
86	10/28	"	2.5	0.64	0.98	0.83	0.65		.6	4	0	820A 826A	"
87	11/4	"	4.8	1.40	1.28	0.84	1.8		.6	6	0	905A 911A	"
88	11/10	"	8.6	2.85	1.28	0.86	3.7		.6	8	-.01	1030A 1036A	"
89	11/18	"	6.8	2.26	1.26	0.84	2.8		.6	7	0	253P 300P	"
90	11/24	"	4.6	0.82	0.79	0.83	0.65		.6	5	0	1248P 1254P	"
91	11/29	"	12.2	6.07	1.71	1.12	10		.6	9	0	130P 137P	"
92	11/29	"	12.2	6.05	1.73	1.12	10		.6	9	0	145P 153P	"
93	12/2	"	16.4	9.28	1.85	1.23	17		.6	10	0	848A 859A	"
94	12/8	"	10.8	5.94	1.41	1.06	8.4		.6	9	0	246P 256P	"
95	12/10	Bollinger-Koch	10.7	6.40	2.36	1.24	15		.6	8	+.03	635A 642A	"
96	12/11	" "	25.4	27.39	2.61	1.69	71		.6	10	+.10	215P 222P	"
97	12/14	Bollinger	24.9	15.45	2.15	0.98	33		.6	12	0	929A 941A	"
98	12/14	"	26.5	16.49	1.90	1.02	31		.6	12	0	1029A 1042A	"
99	12/22	"	24.0	16.0	1.79	1.02	29		.6	10	-.01	1013A 1024A	"
100	12/23	Bollinger-Koch	56.0	46.25	2.62	1.54	121		.6	7	+.08	433A 442A	"
101	12/23	" "	31.0	30.75	2.63	1.34	81		.6	9	-.09	709A 718A	"
102	12/26	Bollinger	44.0	47.93	3.06	1.77	146		.6	10	-.06	705A 714A	"
103	12/26		41.5	33.95	2.57	1.34	87		.6	8	+.02	942A 950A	"
104	12/27	Bollinger	26.0	16.52	2.58	0.99	43		.6	11	0	329P 341P	"
105	12/29	"	23.0	19.41	1.66	0.97	32		.6	9	0	932A 942A	"
106	12/31	Bollinger	24.0	19.65	2.21	0.32	43		.6	10		239P 249P	FC 6
107	1/4	"	19.0	12.89	1.50	0.30	19		.6	11		1047A 1059A	"
108	1/6	"	18.5	13.35	1.81	0.30	24		.6	10		855A 907A	"
109	1/13	"	18.0	10.96	1.79		20		.6	9		238P 248P	"
110	1/15	U.S.E.D.	80.0	98.5	5.00	1.85	492		.6	8	-.64	935A 1015A	35621
111	1/15	U.S.E.D.	73.0	60.3	4.91	1.15	296		.6	5	-.03	1100A 1120A	"
112	1/15	Bollinger-Koch	59.5	52.42	2.98	0.60	156		.6	12	-.05	104P 115P	FC 6
113	1/15	U.S.E.D.	65.0	41.5	3.76	0.50	156		.6	7	-.10	145P 205P	35621
114	1/15	U.S.E.D.	55.0	35.4	3.98	0.42	141		.6	6	-.03	225P 245P	"
115	1/15	U.S.E.D.	41.5	42.4	2.33	0.39	99		.6	8	-.04	257P 312P	"
116	1/15	U.S.E.D.	41.5	42.4	2.01	0.32	85		.6	8	0	335P 349P	"
117	1/15	U.S.E.D.	41.3	33.0	2.49	0.38	82		.6	9	0	508P 521P	"
118	1/17	Bollinger	22.5	18.87	1.48		28		.6	10		133P 146P	FC 6
119	1/18	Bollinger-Koch	31.5	32.97	2.64	0.58	87		.6	10	+.04	258P 306P	"
120	1/18	" "	32.2	31.72	2.49	0.60	79		.6	11	-.01	425P 434P	"
121	1/18	U.S.E.D.	40.	29.0	2.21	0.29	64		.6	9	0	640P 655P	35621
122	1/18	U.S.E.D.	40.	24.8	1.92	0.48	48		.6	7	-.03	853P 908P	"
123	1/18	U.S.E.D.	37.5	20.7	1.62	0.38	34		.6	8	-.01	1042P 1102P	"
124	1/19	Bollinger-Koch	23.0	16.89	1.87	0.24	32		.6	10	+.05	940A 950A	FC 6
125	1/27	Bollinger	22.5	25.68	1.81	-0.04	47		.6	9		852A 903A	"
126	1/31	"	20.3	27.93	1.77	0.66	50		.6	11		1020A 1035A	"
127	2/1	Bollinger-Koch	72.0	51.45	2.24	1.18	115		.6	8	+.64	1236A 1251A	"
128	2/1	" "	71.0	166.6	6.12	2.30	1020		.6	7	+.41	210A 235A	"
129	2/1	U.S.E.D.	106	206	5.36	3.32	1310		.6	11	-.29	600A 710A	35621
130	2/1	U.S.E.D.	71.	137.	5.67	1.97	777		.6	7	-.12	850A 908A	35621
131	2/1	U.S.E.D.	71.	118.	4.98	1.57	588		.6	7	-.07	1019A 1030A	"
132	2/1	U.S.E.D.	46.	93.4	4.03	1.00	376		.6	5	-.03	1155A 1203P	"
133	2/1	U.S.E.D.	39.	68.1	4.72	0.30	322		.6	5	-.05	200P 210P	"
134	2/1	U.S.E.D.	37.	49.3	4.63	0.16	228		.6	5	-.01	256P 305P	"
135	2/2	Bollinger	35.5	27.65	3.31	-0.61	92		.6	11	+.14	1022A 1036A	FC 6
136	2/2	U.S.E.D.	37.	33.3	3.73	-0.48	124		.6	7	-.07	225P 241P	35621
137	2/3	U.S.E.D.	36.	30.0	3.53	-0.73	106		.6	7	0	545A 600A	"
138	2/3	U.S.E.D.	35.8	29.4	3.64	-0.70	107		.6	7	-.01	653A 705A	"
139	2/3	U.S.E.D.	36.	33.4	3.11	-0.46	112		.6	7	-.02	854A 904A	"
140	2/3	Bollinger-Bowman	35.5	35.27	3.41	-0.42	120		.6	10	+.03	910A 923A	FC 6
141	2/3	U.S.E.D.	36.5	32.2	3.42	-0.56	110		.6	7	-.01	940A 955A	35621
142	2/3	U.S.E.D.	32.	45.5	2.73	-0.46	124		.6	5	+.08	1023A 1042A	"
143	2/3	U.S.E.D.	33.	27.6	3.68	-0.38	101		.6	5	+.04	1105A 1126A	"
144	2/3	U.S.E.D.	43.	63.6	3.88	0.64	247		.6	7	+.32	1236P 115P	"
145	2/3	U.S.E.D.	45.	78.8	4.54	0.45	358		.6	8	+.11	220P 243P	"
146	2/3	U.S.E.D.	46.	60.4	5.41	0.26	327		.6	6	-.13	350P 417P	"
147	2/3	U.S.E.D.	51.	66.4	5.24	0.90	348		.6	7	+.07	500P 525P	"
148	2/3	U.S.E.D.	53.	82.1	6.22	1.12	511		.6	6	+.21	540P 618P	"
149	2/3	U.S.E.D.	77.	127.	6.43	1.57	817		.6	7	+.04	710P 740P	"
150	2/3	U.S.E.D.	50.	53.2	5.02	0.58	267			6	-.28	918P 938P	"
151	2/3	U.S.E.D.	41.	55.8	2.99	0.04	167		.6	5	0	1120P 1135P	"
152	2/4	U.S.E.D.	44.	69.9	4.39	0.13	307		.6	6	-.05	230A 250A	"
153	2/4	U.S.E.D.	51.	86.8	4.31	1.04	374		.6	6	+.64	625A 648A	"
154	2/4	U.S.E.D.	78.	100.	5.13	1.39	513		.6	9	-.16	724A 740A	35621
155	2/4	U.S.E.D.	50.	68.8	4.28	0.51	294		.6	6	-.38	908A 930A	"
156	2/4	U.S.E.D.	42.	59.4	5.02	0.19	298		.6	4	-.02	940A 950A	"

P.C.D. FORM NO. 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 57 R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT Dayton Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	RETR-ON	READ. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
157	2/4	U.S.E.D.	44.	58.9	4.96	0.11	292		.6	5	+.07	1205P 1215P	"
158	2/4	U.S.E.D.	46.	65.3	5.14	0.33	336		.6	6	-.07	100P 115P	"
159	2/4	U.S.E.D.	49.	67.0	4.97	0.53	333		.6	6	-.10	233P 250P	"
160	2/5	Bollinger	37.	35.0	2.63	-0.69	92		.6	10		1127A 1149A	FC 6
161	2/7	Bollinger	27.5	18.16	2.46	-1.24	45		.6	11		1020A 1033A	"
162	2/8	U.S.E.D.	38.	28.3	2.79	-0.80	79		.6	7	+.09	1107P 1130P	35621
163	2/9	U.S.E.D.	32.	19.6	3.47	-0.55	68		.6	5	-.09 +.10	131A 200A	"
164	2/9	U.S.E.D.	45.	22.2	2.97	-0.62	66		.6	8	-.01	334A 343A	"
165	2/9	U.S.E.D.	43.	22.9	2.92	-0.78	67		.6	8	+.05	510A 523A	"
166	2/9	U.S.E.D.	49.	33.8	3.75	-0.34	127		.6	10	+.12	630A 645A	"
167	2/9	U.S.E.D.	38.	35.5	3.75	-0.02	133		.6	5	-.04	725A 735A	"
168	2/9	U.S.E.D.	38.	32.7	3.76	-.12	123		.6	5	+.04	920A 935A	"
169	2/9	U.S.E.D.	81.	137.	5.44	2.08	745		.6	7	+.37	1102A 1130A	"
170	2/9	U.S.E.D.	83.	147.	5.21	2.00	766		.6	7	-.20	1135A 1155A	"
171	2/9	U.S.E.D.	82.	139.	5.43	1.87	753		.6	8	-.20	1210P 1230P	"
172	2/9	U.S.E.D.	55.	66.2	5.25	1.00	348		.6	6	-.04	240P 245P	"
173	2/9	U.S.E.D.	55.	70.3	5.68	0.92	399		.6	6	-.04	250P 300P	"
174	2/9	U.S.E.D.	61.	81.8	5.22	1.09	427		.6	7	-.02	440P 455P	"
175	2/9	U.S.E.D.	56.	86.5	4.78	1.05	413		.6	6	-.03	615P 628P	"
176	2/9	U.S.E.D.	44.	52.0	4.92	0.44	256		.6	5	-.07	900P 926P	"
177	2/10	U.S.E.D.	43.	32.0		-0.17	106		.6	8	0	625A 637A	"
178	2/10	U.S.E.D.	42.	43.3	3.19	0.04	138		.6	4	0	125P 135P	35621
179	2/10	U.S.E.D.	39.	35.3	4.56	-0.14	161		.6	6	-.02	215P 225P	"
180	2/10	U.S.E.D.	41.	26.0	3.39	-0.22	88		.6	8	-.01	355P 410P	"
181	2/10	U.S.E.D.	31.	27.5	3.06	-0.27	84		.6	7	+.01	645P 700P	"
182	2/10	U.S.E.D.	31.	29.	3.14	-0.26	91		.6	7	-.01	700P 713P	"
183	2/10	U.S.E.D.	31.	28.5	3.37	-0.26	96		.6	7	-.04	910P 930P	"
184	2/11	U.S.E.D.	32.	31.4	3.47	-0.22	109		.6	7	0	615A 635A	"
185	2/11	U.S.E.D.	54.	64.6	4.61	0.60	298		.6	6	-.27	800A 815A	"
186	2/11	U.S.E.D.	77.	98.6	4.75	1.45	469		.6	8	+.19	850A 905A	"
187	2/11	U.S.E.D.	81.	138.5	5.16	1.92	714		.6	8	-.05	925A 935A	"
188	2/11	U.S.E.D.	83.	154.2	4.07	1.95	628		.6	8	-.18	1100A 1130A	"
189	2/11	U.S.E.D.	119.	297.2	6.18	3.69	1840		.6	12	-.14	1250P 115P	"
190	2/11	U.S.E.D.	112.	191.5	6.78	3.07	1300		.6	10	+.06	230P 310P	"
191	2/11	U.S.E.D.	114	210.	6.92	3.12	1450		.6	10	-.12	435P 455P	"
192	2/11	U.S.E.D.	109.	197.	7.52	2.77	1480		.6	12	-.43	655P 740P	"
193	2/11	U.S.E.D.	82.	102.7	6.82	1.65	700		.6	9	-.09	930P 953P	"
194	2/12	U.S.E.D.	62.	82.3	5.89	0.43	485		.6	8	-.09	200A 225A	"
195	2/12	U.S.E.D.	61.	40.3	5.22	0.09	210		.6	7	+.06	500A 515A	"
196	2/16	Bollinger	22.	19.98	2.46	-0.71	49		.6	10	0	927A 942A	FC 6
197	2/18	"	22.5	16.65	2.44	-0.70	41		.6	8		845A 856A	"
198	2/19	U.S.E.D.	57.	36.8	2.80	-0.56	103		.6	11	-.08	325A 350A	35621
199	2/21	Bollinger	22.	16.16	2.58	-0.71	42		.6	9	0	827A 839A	FC 6
200	2/23	"	22.	16.07	2.51	-0.71	40		.6	10	0	831A 845A	"
201	2/24	Bollinger	34.	20.36	2.10	-0.11	43		.6	12		150P 205P	FC 6
202	2/25	"	29.	16.22	2.36	-0.02	38		.6	11	0	837A 849A	"
203	2/27	U.S.E.D.	101.	118.	3.51	1.68	415		.6	8	+.08	920A 935A	35621
204	2/27	U.S.E.D.	99.	126.	4.51	2.16	568		.6	9	+.28	1000A 1020A	"
205	2/27	U.S.E.D.	103.	144.	4.47	2.40	645		.6	10	+.08	1115A 1135A	"
206	2/27	U.S.E.D.	91.	114.	4.28	1.92	489		.6	10	-.06	215P 230P	"
207	2/27	U.S.E.D.	85.	82.	3.72	1.63	305		.6	8	+.02	400P 412P	"
208	2/28	U.S.E.D.	117.	244.	5.28	3.67	1290		.6	12	-.22	800A 825A	"
209	2/28	U.S.E.D.	123.	272.	6.54	4.36	1780		.6	12	+.28	855A 915A	"
210	2/28	U.S.E.D.	117.	229.	8.20	3.51	1880		.6	11	-.16	1015A 1035A	"
211	2/28	U.S.E.D.	110.	205.	5.80	2.97	1190		.6	11	-.06	1140A 1200N	"
212	2/28	U.S.E.D.	110.	215.	5.24	2.99	1130		.6	10	+.02	130P 150P	"
213	2/28	U.S.E.D.	110.	228.	5.16	2.83	1180		.6	11	-.02	310P 331P	"
214	2/28	U.S.E.D.	108.	206.	4.94	2.70	1020		.6	10	-.04	425P 443P	"
215	2/28	U.S.E.D.	101.	163.	4.82	2.16	785		.6	10	-.11	650P 718P	"
216	2/28	U.S.E.D.	110.	231.	5.32	2.99	1230		.6	10	+.02	850P 915P	"
217	2/28	U.S.E.D.	158.	546.	5.77	5.30	3150		.6	13	+.90	957P 1050P	"
218	3/1	U.S.E.D.	180.	869.	7.37	7.03	6400		.6	13	+.30 -2.90	1220A 310A	"
219	3/1	U.S.E.D.	145.	539.	8.36	5.75	4500		.6	10	-.23	405A 507A	"
220	3/1	U.S.E.D.	113.	395.	8.02	4.85	3170		.6	11	-.25	700A 720A	35624
221	3/1	U.S.E.D.	100.	234.	6.18	2.65	1450		.6	10	-.26	1025A 1050A	"
222	3/1	U.S.E.D.	107.	229.	5.02	2.22	1150		.6	11	-.34	1102A 1130A	"
223	3/1	U.S.E.D.	95.	160	5.62	1.48	901		.6	9	0	110P 125P	"
224	3/1	U.S.E.D.	99.	145.	4.58	1.17	665		.6	9	-.02	307P 324P	35624
225	3/1	U.S.E.D.	92.	129.	4.71	1.01	607		.6	9	-.06	412P 430P	"
226	3/1	U.S.E.D.	89.	106.	4.60	0.71	487		.6	8	-.02	705P 720P	"
227	3/1	U.S.E.D.	89.	127.	5.36	0.95	681		.6	8	+.14	1125P 1143P	"
228	3/2	U.S.E.D.	101.	203.	5.17	2.16	1050		.6	9	0	145A 204A	"
229	3/2	U.S.E.D.	165.	746.	7.90	6.00	5880		.6	9	+.40	440A 504A	"
230	3/2	U.S.E.D.	180.	1659.	13.25	12.20	22000			10	+1.20	900A 1000A	"
231	3/3	U.S.E.D.	137.	339.	9.33	3.00	3160		.6	11	-.04	849P 918P	35622
232	3/3-4	U.S.E.D.	134.	311.	8.93	2.95	2780		.6	12	-.02	1142P 1220A	"
233	3/4	U.S.E.D.	137.	317.	8.00	2.95	2540		.6	10	0*	336A 355A	"
234	3/4	U.S.E.D.	136.	289.	8.10	2.95	2340		.6	10	0	519A 535A	"
235	3/4	U.S.E.D.	135.	256.	7.03	2.90	1800		.6	12	0	705A 722A	"
236	3/4	U.S.E.D.	140.	268.	6.87	2.80	1840		.6	13	0	1033A 1105A	"
237	3/4	U.S.E.D.	140.	229.	6.12	2.63	1400		.6	12	-.02	215P 235P	"
238	3/4	U.S.E.D.	140.	219.	7.08	2.52	1550		.6	12	-.02	355P 420P	"
239	3/4	U.S.E.D.	139.	223.	5.96	2.43	1320		.6	12	-.02	515P 535P	"
240	3/4	U.S.E.D.	133.	213.	6.81	2.30	1450		.6	8	0	902P 915P	"
241	3/5	U.S.E.D.	133.	181.	6.57	2.15	1190		.6	8	-.05	1219A 1234A	"
242	3/5	U.S.E.D.	130.	188.	6.33	2.05	1190		.6	8	0	334A 347A	"
243	3/5	U.S.E.D.	130.	172.	6.40	2.04	1100		.6	7	0	514A 525A	"
244	3/5	U.S.E.D.	133.	173.	5.78	1.88	998		.6	11	0	1045A 1111A	"
245	3/5	U.S.E.D.	118.	138.	6.32	1.85	873		.6	12	+.02	205P 222P	"
246	3/5	U.S.E.D.	117.	132.	6.00	1.88	793		.6	12	0	424P 443P	"
247	3/10	Bollinger	111.	159.1	4.82		767		.6	11		1020A 1100A	FC 6
248	3/12	U.S.E.D.	116.	181.	5.27	1.88	954			12	+.13	1235A 1250A	35622
249	3/12	U.S.E.D.	118.	224.	5.94	2.05	1330		.6	13	+.11	130A 156A	"
250	3/12	U.S.E.D.	117.	151.	6.02	2.09	909		.6	11	-.09	439A 510A	"
251	3/12	U.S.E.D.	144.	241.	4.90	2.42	1180		.6	13	+.36	700A 730A	"
252	3/12	U.S.E.D.	143.	262.	5.19	2.70	1360		.6	13	+.20	740A 810A	"
253	3/12	U.S.E.D.	140.	220.	5.90	2.49	1300		.6	12	+.14	930A 955A	"
254	3/13	U.S.E.D.	116.	215.	5.02	1.82	1080		.6	12	+.02	600A 630A	"
255	3/13	U.S.E.D.	122.	215.	6.65	2.46	1430		.6	13	+.06	800A 830A	"
256	3/13	U.S.E.D.	138.	232.	5.47	2.10	1270		.6	13	-.04	1040A 1110A	"
257	3/13	U.S.E.D.	135.	211.	6.68	2.19	1410		.6	10	-.06	203P 235P	"
258	3/13	U.S.E.D.	120.	175.	5.94	1.79	1040		.6	10	-.06	504P 528P	"

F.C.D. FORM 104 150 9-57

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 57 B

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at Dayton Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	SECTION	MEAS. SECR. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
259	3/13	U.S.E.D.	118.	161.	5.82	1.57	937		.6	8	0	917P 947P	"
260	3/14	U.S.E.D.	118.	196.	5.64	1.64	1050		.6	8	0	1229A 1252A	"
261	3/29	Bollinger and Prickett	39.0	32.12	2.12		68		.6	8		920A 930A	FC 6
262	3/30	Bollinger	32.5	27.73	2.47		68		.6	11		1015A 1027A	"
263	3/31	"	30.7	27.91	2.41		67		.6	9		1015A 1024A	"
264	4/7	Bollinger and Bailey	28.7	26.13	2.23		58		.6	10		933A 944A	"
265	4/14	Bollinger	14.3	19.02	2.69		51		.6	7		1141A 1149A	"
266	4/22	Bonadiman	22.0	14.75	2.49		37		.6	7		340P 355P	FC 40
267	4/29	Bollinger	22.7	15.52	2.31		36		.6	10		1010A 1025A	FC 6
268	5/5	"	33.0	24.33	2.89		70		.6	10		1012A 1023A	"
269	5/11	Bollinger and Odekirk	19.5	14.97	2.16		32		.6	9		1057A 1109A	"

F.C.D. FORM 104 150 9-57

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 57 B-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

below Dayton Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	SECTION	MEAS. SECR. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	5/19	Bollinger	25.	22.43	1.41	5.26	32.		.6	11		928A 939A	FC 6
2	5/24	"	23.0	23.12	1.77	5.28	41.		.6	10	+.04	911A 923A	FC 6
3	5/26	"	25.0	21.73	1.43	5.20	31.		.6	9		236P 251P	"
4	5/31	"	28.4	19.25	1.53	5.12	29.		.6	12		839A 853A	"
5	6/2	"	29.0	25.5	1.65	5.27	42.		.6	13		833A 850A	"
6	6/6	"	27.1	17.75	1.40	5.04	25.		.6	9		821A 832A	"
7	6/9	"	24.5	11.94	1.34	4.89	20.		.6	10	+.18	834A 846A	"
8	6/13	"	27.3	11.7	1.12	4.76	13.		.6	9	-.02	838A 852A	"
9	6/16	"	25.5	17.60	1.43	4.92	25.		.6	10	+.05	840A 853A	"
10	6/20	"	25.2	16.49	1.34	4.92	22.		.6	10	-.03	844A 856A	"
11	6/23	"	23.7	10.26	1.05	4.65	11.		.6	10	+.02	841A 853A	"
12	6/27	"	24.5	14.03	1.47	4.77	21.		.6	11	+.22	838A 849A	"
13	6/30	"	25.0	14.43	0.88	4.80	13.		.6	12	-.06	937A 951A	"
14	7/5	"	23.3	12.06	1.12	4.68	14.		.6	12	-.04	835A 847A	"
15	7/7	"	22.8	11.22	1.25	4.88	14.		.6	10	+.08	817A 827A	"
16	7/14	"	19.0	11.48	1.25	4.77	14.		.6	10	-.02	839A 851A	"
17	7/18	"	20.0	15.90	1.54	4.94	25.		.6	10	-.01	835A 845A	"
18	7/21	"	24.0	26.30	1.63	5.34	43.		.6	12	+.04	905A 918A	"
19	7/25	"	22.5	20.13	1.60	5.12	32.		.6	12	+.05	845A 900A	"
20	7/28	"	23.0	21.54	1.50	5.24	32.		.6	11	0	920A 932A	"
21	8/16	"	25.2	29.63	1.04	4.98	31.		.6	10	0	844A 854A	"
22	8/18	"	25.7	29.42	1.0	5.00	29.		.6	11	+.01	938A 948A	"
23	8/22	"	29.0	38.08	1.12	5.26	43.		.6	11	0	836A 854A	"
24	8/25	Bollinger	19.0	28.0	1.29	5.18	36.		.6	10	-.07	948A 1000A	FC 6
25	8/29	"	24.2	35.82	1.37	5.36	49.		.6	9	-.03	847A 857A	"
26	9/1	"	20.0	22.40	1.32	5.07	30.		.6	11	0	905A 915A	"
27	9/8	"	35.0	38.2	1.14	5.46	44.		.6	14	-.01	1018A 1033A	"
28	9/13	"	30.5	30.32	1.07	6.02	33.		.6	10	+.03	849A 902A	"
29	9/15	"	35.5	30.61	1.20	5.84	37.		.6	14	+.01	856A 913A	"
30	9/22	"	17.5	17.91	2.0	7.27	36.		.6	10	0	1046A 1058A	"
31	9/26	"	16.8	22.20	1.76	7.40	39.		.6	9	0	834A 845A	"
32	9/27	"	16.8	20.90	1.76	7.37	37.		.6	11	0	847A 900A	"

P. C. Dec. Form 52 150 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F57R for the year ending September 30, 1937

LOS ANGELES RIVER at Dayton Ave.

Daily discharge, in second-feet of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	12	0.9	42	16	39	44	45	49	0.8	1.6	1.3
2	0.6	0.7	0.9	14	13	33	58	58	34	0.9	1.6	1.0
3	0.7	0.7	1.2	11	8.5	28	51	48	38	1.1	1.8	1.1
4	0.7	0.7	1.5	7.7	7	25	35	45	34	1.1	1.8	1.1
5	0.7	0.6	1.8	37	1080	26	21	5	29	1.4	1.6	1.1
6	0.7	0.6	0.7	27	515	28	19	4.8	27	1.4	1.6	1.1
7	0.7	0.5	0.7	12	89	31	16	4.4	20	1.6	2.0	1.1
8	0.7	0.5	0.7	12	53	31	14	4.1	22	1.6	2.0	1.1
9	0.7	0.4	0.7	16	26	34	12	3.9	18	2.0	1.8	1.1
10	0.7	0.6	0.9	14	21	39	14	3.6	18	1.3	2.5	0.9
11	0.6	0.6	1.0	15	21	44	14	2.9	18	1.1	2.2	0.9
12	0.4	0.5	1.0	64	83	221	14	2.9	18	1.1	2.2	0.9
13	0.4	0.4	1.0	38	286	1300	13	2.7	20	1.4	2.0	0.9
14	0.4	0.7	1.0	11	36	1670	13	3.2	20	1.6	2.0	0.9
15	0.4	0.9	1.65	9.5	323	421	12	3.4	20	1.8	2.0	0.9
16	1.8	0.9	2.1	6.5	155	570	13	3.4	18	1.4	2.0	0.9
17	3.3	0.9	1.0	8	119	221	11.5	3.4	16	1.4	2.0	0.8
18	3.3	0.9	1.0	11	95	76	9.5	3.4	14	1.4	1.8	0.8
19	3.4	0.7	1.0	12	95	63	7.5	2.9	14	1.3	1.6	0.8
20	3.4	0.7	1.0	13	95	51	6.5	2.5	13	1.3	1.6	0.9
21	0.6	0.7	1.2	8.5	95	374	5	2.7	09	1.3	1.4	0.9
22	0.6	0.7	1.2	9	95	108	6.5	2.7	0.8	1.6	1.4	0.8
23	0.6	0.7	1.2	12	118	117	6.5	2.7	0.6	1.8	1.4	0.8
24	0.6	0.7	1.3	10	95	63	7	2.7	0.9	1.1	1.6	0.8
25	0.6	0.7	1.5	7	178	139	7	2.7	1.4	2.5	1.4	0.8
26	0.6	0.8	4.7	5.5	65	91	10.5	3.4	1.4	2.9	1.4	0.9
27	0.7	0.6	7.6	8	55	70	9.5	2.9	1.1	2.9	1.6	1.1
28	1.8	1.0	19.3	12	45	63	12	2.7	1.3	2.0	1.8	1.1
29	3.2	1.0	15.0	73		51	14.9	3.2	1.5	1.8	1.4	1.1
30	2.9	0.9	25.2	162		51		3.2	1.4	1.6	1.4	1.0
31	1.2		36.8	120		50		3.6		1.4	1.4	
	92.9	22.2	191.84	850.0	5465.0	3230	461.9	111.0	591	46.9	53.2	28.5

Mean	2.99	.74	6.2.0	27.4	195	104	15.4	3.58	1.97	1.51	1.72	.95
Max.	184	44	379	1690	10840	6410	916	220	117	93	106	57
Acre-Feet												

Remarks:

Year or Period: Mean 31.8 Acre-Feet 24470

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F57B-F57B-R for the year ending September 30, 1938

LOS ANGELES RIVER below Dayton Ave.

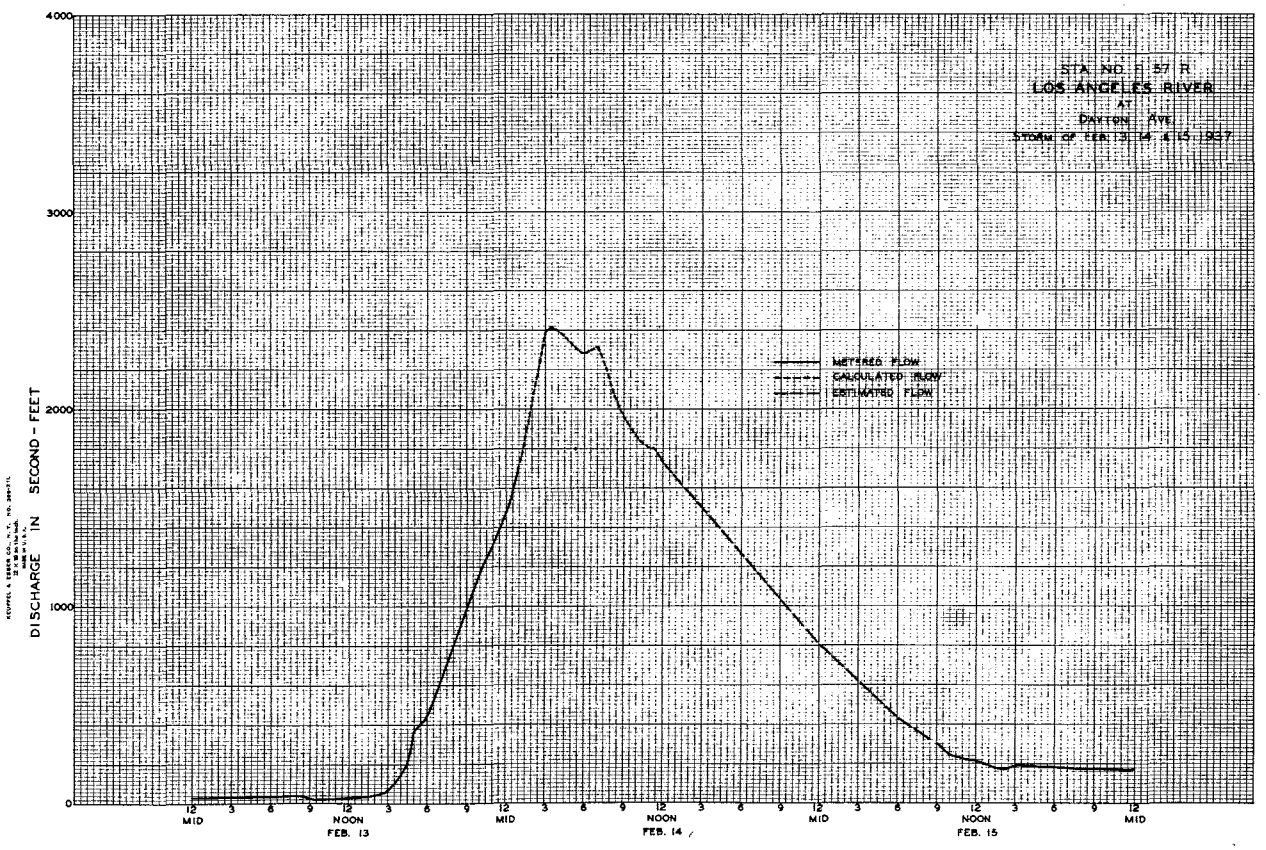
Daily discharge, in second-feet of

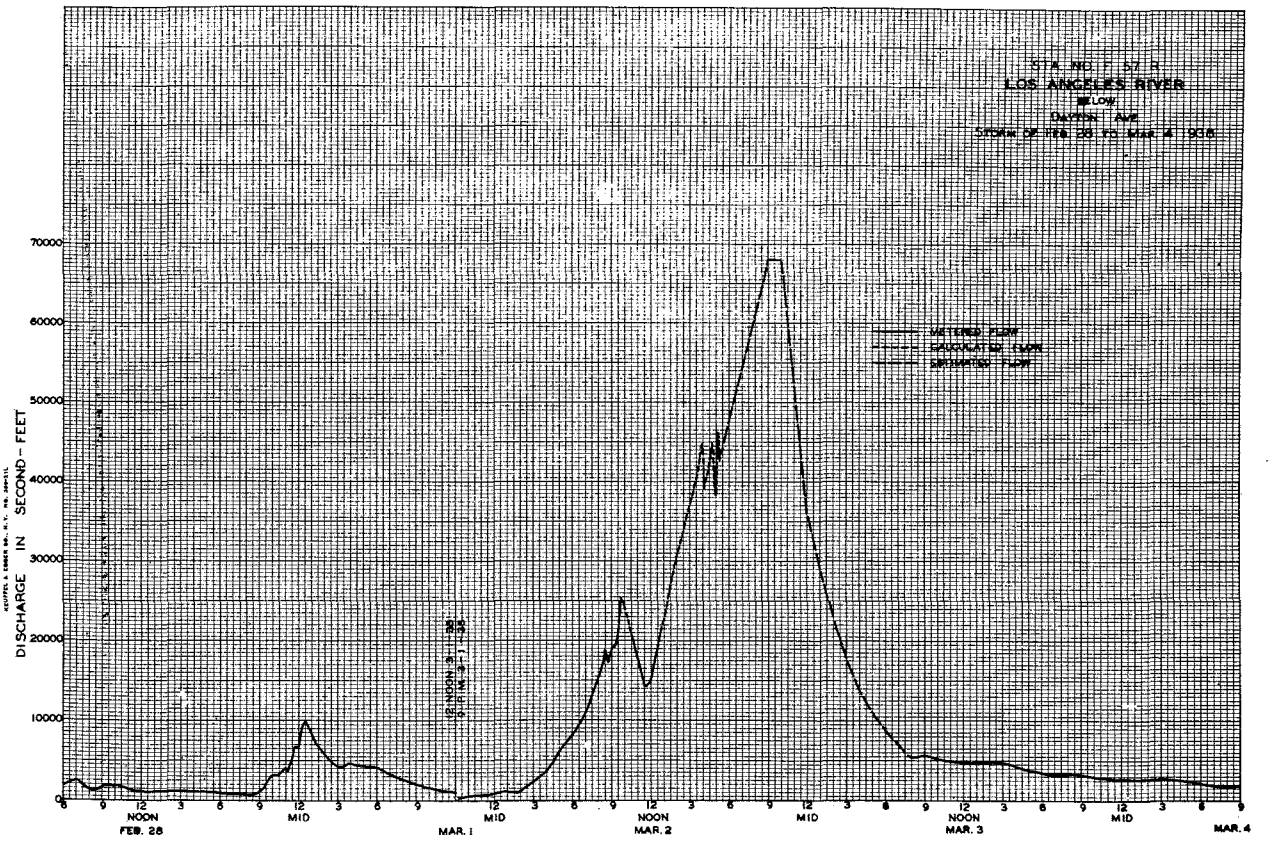
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	1.3	1.3	35	598	2300	66	66	39	10	25	30
2	1.0	1.7	12.5	30	211	2700	65	65	36	11	27	30
3	1.0	1.7	7.5	25	82	2110	64	65	28	11	30	29
4	1.0	1.8	8	22	242	1790	62	70	28	12	28	32
5	0.8	2.1	12	24	61	650	60	60	25	13	37	30
6	0.7	2.1	18.5	24	45	600	58	50	26	13	25	29
7	0.7	2.7	8.5	23	43	900	57	45	26	13	30	38
8	0.7	3.4	12	23	271	800	56	40	26	12	31	37
9	0.7	3.4	25	22	110	770	55	35	23	13	40	36
10	0.7	3.2	30	22	766	800	54	32	21	13	40	35
11	0.7	3.0	40	21	188	1320	53	32	20	14	39	34
12	0.7	3.0	32	20	84	1190	52	32	20	13	34	35
13	0.7	3.0	29	20	65	800	51	32	22	13	29	35
14	0.7	2.9	28	18	55	540	49	32	24	16	32	33
15	0.7	2.9	31	39	48	360	45	32	23	20	30	33
16	0.7	2.8	31	28	44	370	45	32	22	23	28	32
17	0.7	2.8	27	30	45	330	43	32	22	23	25	32
18	0.7	2.7	25	30	95	330	41	32	21	26	24	32
19	0.7	2.7	25	33	55	330	39	32	19	26	24	32
20	0.7	1.6	26	35	42	340	38	32	18	31	25	34
21	0.7	1.1	27	37	41	340	37	31	16	31	40	36
22	0.7	0.8	84	39	40	330	37	31	16	30	40	40
23	0.7	0.7	29	41	43	330	37	30	17	30	37	46
24	0.7	0.7	29	43	38	180	37	30	19	34	31	37
25	0.6	0.7	148	45	40	90	37	30	20	36	36	35
26	0.6	0.7	47	47	252	80	37	31	25	37	18	36
27	0.6	0.7	34	49	1390	74	37	29	18	38	35	35
28	0.8	8	34	50		68	36	31	14	30	38	35
29	0.9	10	37	50		68	50	29	10	27	33	35
30	1.0		42.5	50		67	1460	1218	671	649	963	1033
31	2.4		1225	1146	5164	53257						
		77.6										

Mean	.75	2.59	39.5	37.0	184	1717	48.7	39.3	22.4	20.9	31.1	34.4
Max.	46	154	2430	2270	10240	105600	2900	2420	1330	1290	1910	2050
Acre-Feet												

Remarks: | indicates change in station location—see station description

Year or Period: Mean 183 Acre-Feet 132600


STA NO F 57 R
LOS ANGELES RIVER
AT
DAYTON AVE
STORM OF FEB 13 14 & 15 1937
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND-FEET
4000
3000
2000
1000
0
12 MID
3
6
9
12 NOON
FEB. 13
MID
NOON
FEB. 14
MID
NOON
FEB. 15
MID


STA NO F 57 R
LOS ANGELES RIVER
BELOW
DAYTON AVE
STORM OF FEB 28 TO MAR 4 1938
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND-FEET
70000
60000
50000
40000
30000
20000
10000
0
NOON
FEB. 28
MID
MAR. 1
NOON
MAR. 2
MID
NOON
MAR. 3
MID
MAR. 4

STATION F34R

LOS ANGELES RIVER at Stewart and Gray Road

AND

STATION F34B-R

LOS ANGELES RIVER at Firestone Boulevard

HISTORICAL:

Station F34R was washed out during the storm of March 2, 1938 and station F34B-R was installed to replace it.

LOCATION:

Station F34R
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 was at or near the location of the station operated in 1923 by the State Division of Water Rights.

Station F34B-R
On downstream end of fifth pier from west (right) end of Firestone Boulevard bridge, 3 miles west of Downey.

DRAINAGE AREA:

614 square miles.

CHANNEL AND CONTROL:

Channel is sand and silt. Below station F34R the slopes are riprapped. Above Station F34R the slopes are paved.
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:

Station F34R
There were two recorder houses: one (the west house) an F. C. standard type house over a 21 inch diameter, corrugated iron pipe stilling well on downstream end of bridge pier 75 feet east of the west end of the bridge; the other (the east house) a box type house over a 21 inch diameter, corrugated iron pipe stilling well on downstream end of bridge pier 70 feet west of the east end of the bridge.
The recorder was moved as required to keep it on the side of the channel in which the stream was flowing.
The recorder was installed March 1, 1928.
During the period from October 1, 1936 to March 2, 1938, the recorder was located as follows:
From October 1, 1936 to December 29, 1936 in the east house.
From December 29, 1936 to February 8, 1937 in the west house.
From February 8, 1937 to February 23. 1937 in the east house.
From February 23, 1937 to March 27, 1937 in the west house.
From March 25, 1937 to February 9, 1938 in the east house.
From February 9, 1938 until the bridge was washed out during the March 2, 1938 storm recorders were maintained in both houses.
An Au continuous recorder was in service from October 1, 1936 until the bridge washed out.
A Stevens type L recorder was also in service in the west house from February 9, 1938 until the bridge washed out.

Station F34B-R
An H.C.F. continuous recorder was installed on April 11, 1938 in a standard F. C. type house over an 18 inch diameter, corrugated iron pipe stilling well.

REGULATION:

Flow partially regulated by Big Tujunga Dam No. 1, Pacoima Dam, Devils Gate Dam, and by various 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, Encino Reservoir and a dam on a tributary to Limekiln Creek.

DIVERSIONS:

The City of Pasadena diverts water from the Arroyo Seco. 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, 1938 (for previous records see State of California, Division of Water Rights Bulletin No. 5).

EXTREMES OF DISCHARGE:

1936-1937
Maximum 10000 second-feet, estimated, December 30.
Minimum no flow at various times.
1937-1938
Maximum 79000 second-feet, estimated, March 2.
Minimum no flow at various times.
1928-1938
Maximum 79000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year except 1930-1931.

ACCURACY:

Poor due to badly shifting control.
Well usually sanded and/or inlet channel obstructed at low flows following storms.
Discharges estimated by comparison with stations F57R and F5R from February 15, to April 11, 1938.
Stilling well undercut December 30, 31, 1936.
Interpolated: December 17-23, 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 and the U.S.G.S. Water Resources Branch.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT STATION NO. F 34 R
HYDRAULIC DEPARTMENT

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT ~~XXXXX~~ Stewart and Gray Road DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adds Percent Dis.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												823A	
1	10/1	Bonadiman	7.5	3.12	.85	3.16E	2.6		.6	5	0	828A	FC 9
												736A	
2	10/8	"	8.0	2.56	.88	3.15E	2.3		.6	4	0	741A	"
												1053A	
3	10/15	"	7.5	2.94	.87	3.21E	2.6		.6	4	0	1103A	"
												755A	
4	10/17	"	Two	Channels		3.76E	46.		.6	10	-.03	812A	"
												933P	
5	10/18	"	300.	357.8	1.29	4.40E	460.		.6	10	+.03	952P	"
												1150A	
6	10/19	"	30.	17.64	1.02	3.35E	18.		.6	7	-.02	1157A	"
												802A	
7	10/22	"	8.	5.35	.53	2.84E	2.8		.6	6	0	810A	"
												806A	
8	10/29	"	9.0	5.42	.67	2.84E	3.6		.6	5	0	813A	"
		Bonadiman and										1200A	
9	10/30	Jordan	322.	363.7	2.33	4.80E	847.		.6	11	0	1215A	"
												652A	
10	10/31	Bonadiman	312.	461.0	1.54	4.59E	706.		.6	11	-.10	716A	"
												840A	
11	11/5	"	8.5	6.60	.55	2.88E	3.6		.6	4	0	845A	"
												826A	
12	11/12	"	8.5	7.62	.57	2.87E	4.3		.6	4	0	834A	"
												756A	
13	11/19	"	8.0	5.86	.69	2.93E	4.1		.6	4	0	801A	"
												811A	
14	11/25	"	7.0	6.53	.65	2.94E	4.2		.6	4	0	822A	"
												15A	
15	12/3	"	12.	7.60	.47	2.98E	3.6		.6	4	0	825A	"
												805A	
16	12/10	"	11.	5.95	.61	2.86E	3.6		.6	5	0	812A	"
												1116P	
17	12/14	Bonadiman-Lind	316.	583.2	1.54	4.66E	901.		.6	13	+.05	1154P	"
												435A	
18	12/15	" "	314.	483.4	1.55	4.58E	747.		.6	13	-.12	505A	"
												1005A	
19	12/15	" "	315.	500.4	2.10	4.69E	1050.		.6	15	-.12	1025A	"
												740P	
20	12/15	" "	284.	362.5	1.57	4.44E	569.		.6	11	-.03	755P	"
												956A	
21	12/16	" "	18.	24.70	1.79	3.55E	44.		.6	5	-.02	1005A	"
												855A	
22	12/23	Bonadiman	10.	4.53	.95	2.70E	4.3		.6	5	-.01	903A	"
												820A	
23	12/25	Bonadiman-Lind	Three	Channels		4.63E	927.		.6	16	-.14	827A	"
												1050A	
24	12/25	Jordan-Jordan	61.	79.1	2.85	4.16E	225.		.6	13	-.04	1105A	FC 21
												936A	
25	12/26	Bonadiman-Lind	12.5	4.80	1.70	2.77E	8.2		.6	5	-.01	940A	FC 9
												905A	
26	12/27	" "	340.	1134.	6.01	5.95E	6820.		.6	11	-.20	935A	"
									.6			1130A	
26A	12/27	U.S.E.D.	322.	520.	3.79	5.08E	1970.		Sur	21	-.35	1217P	35683
									.6			1229P	
27	12/27	"	305.	548.1	3.62	4.85E	1980.		Sur	21	-.10	117P	"
												1200A	
28	12/28	Bonadiman-Lind	305.	445.4	4.98	4.74E	2220.		.6	9	-.14	1225A	FC 9
												906A	
29	12/28	" "	Two	Channels		3.19E	332.		.6	10	-.02	921A	"
												1000A	
30	12/29	" "	Two	Channels		2.24W	52.		.6	10	0	1015A	"
												708P	
31	12/30	" "	276.	412.1	3.98	3.95W	1640.		.6	13	+.05	732P	"
												955P	
32	12/30	" "	335.	736.2	7.96	5.55W	5860.		.6	10	-.50	1025P	"
												227A	
33	12/31	U.S.E.D.	Two	Channels			1870.		.6	21		312A	35621
												1115A	
34	12/31	Bonadiman-Lind	Two	Channels		3.39W	853.		.6	12	-.02	1125A	FC 9
												1020A	
35	1/2	" "	Two	Channels		2.30W	16.		.6	9	0	1030A	"
												112A	
36	1/6	" "	Three	Channels		2.77W	351.		.6	13	-.02	130A	"

F.C.D. FORM 104 IM 9-37

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 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
37	1/6	" "	Two Channels			3.12W	873.		.6	14	4.23	810A 825A	"
38	1/7	Bonadiman	45.	21.06	1.39	2.23W	29.		.6	8	0	420P 435P	"
39	1/12	"	Two Channels			2.67W	241.		.6	10	+.02	1035A 1055A	"
40	1/12	Bonadiman-Lind	Two Channels			2.91W	338.		.6	12	-.02	743P 756P	"
41	1/14	Bonadiman	20.	9.55	1.62	2.24W	16.		.6	7	0	1025A 1036A	"
42	1/28	"	24.	8.24	.67	2.20W	5.5		.6	6	0	827A 837A	"
43	1/29	"	Two Channels			3.20W	662.		.6	12	0	805A 829A	"
44	1/30	Bonadiman-Lind	Two Channels			3.71W	1450.		.6	14	+.08	800P 822P	"
45	1/31	" "	Two Channels			2.55W	204.		.6	12	-.06	955A 1015A	"
46	2/4	Bonadiman	28.	8.58	1.11	2.19W	9.5		.6	5	0	817A 825A	"
47	2/6	Bonadiman-Lind	Two Channels			2.90W	514.		.6	11	-.10	430A 445A	FC 9
48	2/6	" "	330.	763.0	6.64	5.28W	5200.		.6	12	-.05	1030A 1055A	"
49	2/6	U.S.E.D.	Two Channels			5.00W	2900.		.6 Sur	15	-.20	1200N 10P	USED
50	2/6	"	329.	2218.	2.01	5.52W	4460.		.6 Sur	17	-.05	420P 525P	"
51	2/7	Bonadiman-Lind	Two Channels			2.98W	489.		.6	15	-.01	155P 210P	FC 9
52	2/8	" "	Two Channels			2.73W	116.		.6	13	0	1015A 1040A	"
53	2/11	Bonadiman	Two Channels			2.41E	27.		.6	13	0	748A 808A	"
54	2/13	Bonadiman and Jordan	Two Channels			4.29E	2030.		.6	13	+.02	815P 830P	"
55	2/13	Bonadiman-Lind	Two Channels			4.77E	4140.		.6	13	+.14	1020P 1055P	"
56	2/14	U.S.E.D.	337.	1085.	6.97	5.65E	7560.		.6	16	+.10	144A 254A	35621
57	2/14	"	292.	504.3	4.46	4.84E	2250.		.6	15	-.21	1005A 1038A	"
58	2/14	Bonadiman-Lind	284.	534.	4.56	4.12E	2430.		.6	12	+.01	210P 230P	FC 9
59	2/15	Bonadiman	Three Channels			2.98E	590.		.6	12	0	850A 907A	"
60	2/18	"	Three Channels			2.42E	256.		.6	13	0	747A 810A	"
61	2/25	"	Three Channels			2.41W	200.		.6	12	0	751A 810A	"
62	3/4	"	Two Channels			1.85W	19.		.6	10	0	945A 1003A	"
63	3/10	"	Two Channels			1.88W	14.		.6	11	0	845A 900A	"
64	3/12	"	Three Channels			2.40W	523.		.6	15	-.01	140P 205P	"
65	3/13	"	Two Channels			2.94W	1260.		.6	15	-.01	625A 650A	"
66	3/15	"	Three Channels			2.38W	265.		.6	13	-.04	315P 336P	"
67	3/15	U.S.E.D.	293.	616.0	5.54		3410.		.6	16		1005P 1120P	35621
68	3/15	Bonadiman-Daley	287.	523.7	5.00	4.18W	2620.		.6	12	-.20	1105P 1132P	FC 9
69	3/17	Bonadiman	Two Channels			2.05W	120.		.6	8	0	1042A 1102A	"
70	3/22	"	Three Channels			3.48W	1570.		Sur .6	13	-.03	812A 837A	"
71	3/23	Bonadiman	113.	66.0	2.77	2.14W	183.		.6	7	0	800A 822A	FC 9
72	3/25	"	Two Channels			2.38W	346.		.6 Sur	10	-.03	610A 630A	"
73	3/26	"	74.	52.53	2.95	2.20W	155.		.6	7	0	201P 215P	"
74	4/1	"	48.	19.44	1.45	2.25E	28.		.6	10	0	808A 835A	"
75	4/7	"	53.	21.43	1.33	2.20E	28.		.6	10	0	1120A 1135A	"
76	4/15	"	36.	10.81	.65	2.09E	7.1		.6	9	0	818A 831A	"
77	4/22	"	Two Channels			2.04E	3.8		.6	6	0	812A 820A	"
78	4/29	"	Two Channels			2.14E	9.1		.6	8	+.05	814A 825A	"
79	5/6	"	16.	5.11	.77	2.09E	3.9		.6	5	0	852A 900A	"
80	5/13	"	Two Channels			2.09E	4.6		.6	7	0	857A 847A	"
81	5/20	"	32.	7.17	.66	2.08E	4.7		.6	6	0	840A 847A	"
82	5/27	"	27.	8.76	.72	2.10E	6.3		.6	6	0	822A 839A	"
83	6/2	"	28.	6.91	.59	2.12E	4.1		.6	6	0	821A 828A	"
84	6/10	"	28.	6.96	.68	2.10E	4.8		.6	8	0	916A 925A	"
85	6/17	"	17.5	6.90	.78	2.07E	5.4		.6	4	0	1000A 1006A	"
86	6/24	"	31.	8.57	.74	2.12E	6.4		.6	7	0	905A 915A	"
87	7/1	"	19.	4.55	.71	2.08E	3.2		.6	4	0	754A 800A	"
88	7/8	"	18.	5.32	1.08	2.12E	5.8		.6	5	0	851A 858A	"
89	7/15	"	22.	5.51	.76	2.12E	4.2		.6	5	0	935A 941A	"
90	7/22	"	24.0	5.13	.64	2.12E	3.3		.6	6	0	1000A 1009A	"
91	7/29	"	20.	5.79	.77	2.14E	4.4		.6	6	0	939A 945A	"
92	8/5	"	23.	6.66	.91	2.12E	6.1		.6	6	0	820A 826A	"
93	8/12	"	Two Channels			2.13E	2.8		.6	5	0	930A 938A	"
94	8/19	Prickett	5.5	2.31	1.12	2.12E	2.6		.6	4	0	1040A 1050A	FC 22
95	8/26	Prickett	21.0	6.25	.96	2.14E	6.0		.6	6	0	1050A 1100A	FC 22
96	9/1	Bonadiman	Two Channels			2.13E	3.3		.6	7	0	846A 855A	FC 9
97	9/8	"	Two Channels			2.10E	3.7		.6	8	0	830A 845A	"
98	9/16	"	27.	6.16	.79	2.12E	4.9		.6	6	0	1025A 1035A	"
99	9/23	"	Two Channels			2.10E	4.4		.6	8	0	802A 811A	"
100	9/30	"	Two Channels			2.11E	4.0		.6	5	0	847A 857A	"

"W" indicates West Staff.

"E" indicates East Staff.

F. C. D. FORM 104 IM 9-36

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 38

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
101	10/7	Bonadiman	30.	6.80	.51	2.12E	3.5		.6	5	0	807A 815A	FC 9
102	10/14	"	Two Channels			2.14E	4.7		.6	6	0	814A 825A	"
103	10/21	"	Two Channels			2.10E	3.4		.6	6	0	810A 817A	"
104	10/28	"	9.	4.67	1.05	2.14E	4.9		.6	4	-.01	810A 818A	"
105	11/4	"	8.	3.38	1.07	2.06E	3.5		.6	4	0	804A 810A	"
106	11/10	"	10.	4.68	1.11	2.10E	5.1		.6	4	0	805A 812A	"
107	11/18	"	10.	5.66	1.56	2.11E	6.6		.6	6	+.02	847A 855A	"
108	11/24	"	12.	5.25	1.21	2.12E	6.4		.6	4	-.01	830A 840A	"
109	12/2	"	46.	15.29	1.11	2.26E	17.		.6	9	0	130P 144P	"
110	12/9	"	58.	15.85	.79	2.21E	12.		.6	11	0	1109A 1128A	"
111	12/10	"	47.	37.46	2.82	2.32E	106.		.6	7	0	1010A 1028A	"
112	12/11	"	42.	24.78	2.14	2.36E	53.		.6	10	+.02	1009A 1022A	"
113	12/11	Bonadiman-Lind	291.	606.9	5.10	4.50E	3100.		.6	12	-.07	619P 637P	"
114	12/11	" "	Two Channels			4.18E	1880.		.6	12	-.13	900P 917P	"
115	12/11	U.S.E.D.	195.	416.	2.71	3.95E	1130.		.6	17	-.40	915P 1038P	35621
116	12/11	"	156.	257.	2.06	3.65E	528.		.6	12	-.30	1106P 1134P	"
117	12/14	Bonadiman	27.	13.81	1.80	1.78E	24.		.6	8	0	1046A 1056A	FC 40
118	12/16	"	28.	17.95	1.65	1.80E	30.		.6	8	0	832A 850A	"
119	12/23	Bonadiman-Lind	Two Channels			3.36E	753.		.6	8	+.23	544A 557A	"
120	12/23	" "	Two Channels			2.12E	152.		.6	6	0	1245P 1251P	"
121	12/26	Bonadiman	Two Channels			2.93E	497.		.6	9	+.10	516P 530P	"
122	12/27	"	Two Channels			1.76E	75.		.6	7	0	1025A 1043A	"
123	12/30	"	36.	16.44	1.56	1.64E	26.		.6	9	0	852A 902A	"
124	1/6	"	37.	17.10	1.44	1.65E	25.		.6	8	0	812A 826A	"
125	1/13	Bonadiman	38.	14.15	1.71	1.76E	24.		.6	8	0	802A 816A	FC 40
126	1/15	"	Two Channels			3.81E	1840.		.6	13	+.06	916A 944A	"
127	1/15	U.S.E.D.	186.	350.	2.67	3.82E	934.		.6	16	-.05	932A 1015A	35619
128	1/15	"	181.	355.	2.62	3.52E	935.		.6	14	-.15	1100A 1145A	"
129	1/15	"	165.	298.	2.57	3.22E	766.		.6	14	-.28	1214P 108P	"
130	1/15	Bonadiman-Lind	Two Channels			2.58E	324.		.6	11	0	302P 315P	FC 40
131	1/16	Bonadiman	Two Channels			1.76E	76.		.6	9	0	947A 1005A	"
132	1/20	"	37.	16.76	1.92	1.68E	32.		.6	9	0	835A 848A	"
133	1/27	"	66.	49.20	1.42	1.86E	70.		.6	7	0	1008A 1020A	"
134	2/1	Bonadiman-Lind	311.	910.8	5.56	4.96E	5080.		.6	12	+.22	330A 351A	"
135	2/1	U.S.E.D.	305.	980.	4.82	4.98E	4720.		.6	13	-.53	600A 647A	35619
136	2/1	"	200.	491.	5.29	4.38E	2600.		.6	12	-.15	727A 750A	6
137	2/1	"	178.	378.	4.12	4.00E	1560.		.6	11	-.20	828A 859A	6
138	2/1	"	152.	321.	5.03	3.62E	1610.		.6	16	-.15	940A 1007A	6
139	2/1	"	143.	267.	4.16	3.40E	1110.		.6	15	-.10	1046A 1109A	"
140	2/1	Bonadiman-Lind	Two Channels			2.09E	360.		.6	12	-.02	555P 607P	FC 40
141	2/2	Bonadiman	Two Channels			1.76E	183.		.6	13	0	335P 355P	"
142	2/3	Bonadiman	Two Channels			1.60E	175.		.6	10	0	842A 900A	"
143	2/3	U.S.E.D.	51.	60.2	1.54	1.60E	93.		.6	9	0	945A 1000A	35619
144	2/3	Bonadiman	Two Channels			2.46E	605.		.6	13	+.05	148P 210P	FC 40
145	2/3	U.S.E.D.	128.	231.	4.13	2.80E	953.		.6	11	+.20	216P 248P	35619
146	2/3	U.S.E.D.	145.	199.	4.34	3.10E	864.		.6	11		405P 437P	"
147	2/3	"	179.	388.	4.69	3.93E	1820.		.6	10	0	617P 635P	"

F. C. D. FORM 104 1M 9-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 34 R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT ~~RIVER~~ Stewart and Gray Road DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period No.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												840P	
148	2/3	Bonadiman-Lind	Two	Channels		3.82E	1920.		.6	14	-.19	856P	FC 40
						3.25W						838A	
149	2/4	U.S.E.D.	156.	203.	6.07	3.25E	1230.		.6	18	+.30	905A	35619
												1112A	
150	2/4	Bonadiman-Lind	Two	Channels		2.86E	715.		.6	13	-.19	1130A	FC 40
												1121A	
151	2/5	Bonadiman	Two	Channels		1.56E	126.		.6	8	0	1132A	"
						2.25W						931A	
152	2/9	"	Two	Channels		2.40E	289.		.6	9	+.16	950A	"
						3.40W						1155A	
153	2/9	U.S.E.D.	160.	168.	5.63	3.65E	1060.			10	+.90	1215P	
						5.85W						200P	
154	2/9	"	160.	319.	5.11	4.02E	1950.			18	-.25	225P	
						2.70W						417P	
155	2/9	"	95.	141.	4.58	3.05E	646.			9	-.10	435P	
						2.70W						749P	
156	2/9	"	148.	186.	3.10	2.82E	575.		.6	16	-.15	812P	35619
						2.80W						950A	
157	2/10	Bonadiman-Lind	Two	Channels		1.90E	142.		.6	5	-.01	1000A	FC 40
						3.32W						1040A	
158	2/11	U.S.E.D.	189.	265.	5.60	3.58E	1480.			13	-.05	1100A	35619
						4.54W						220P	
159	2/11	"	293	650.	6.42	4.95E	4170.			14	-.20	300P	"
						4.50W						220P	
160	2/11	Bonadiman-Lind	Two	Channels		4.50E	3790.		.6	15	-.10	305P	FC 40
						2.82W						1255P	
161	2/12	" "	Two	Channels		2.28E	286.			14		107P	"
												850A	
162	2/16	Bonadiman	66.	43.08	1.56	1.84E	68.		.6	7	0	900A	"
												850A	
163	2/24	"	48.	25.94	1.44	1.76E	37.		.6	8	0	910A	"
		Bonadiman and										1202P	
164	2/27	Waddicor	Two	Channels		3.85E	2250.			14			"
						5.35W						906A	
165	2/28	" "	300.	924.7	6.76	5.36E	6250.		.6	13	-.48	935A	"
						5.22W						928A	
166	2/28	U.S.E.D.	310.	957.	6.40	5.18E	6090.		.6	16	-.75	955A	35619
						3.70W						127P	
167	2/26	"	200.	375.	4.88	3.81E	1830.		.6	20	-.18	155P	"
						3.58W						449P	
168	2/28	"	198.	275.	4.83	3.49E	1330.		.6	12	-.02	515P	"
						4.20W						920A	
169	3/1	"	297.	626.	6.47	4.58E	4050.			15	-.25	1000A	"
						3.78W						446P	
170	3/1	"	188.	290.	5.00	3.50E	1450.		.6	20	-.10	515P	
						3.70W						900P	
171	3/1	U.S.E.D.	194.	268.	4.33	3.22E	1160.		.6	16	-.05	915P	35619
						3.70W						1100P	
172	3/1	"	202.	207.	4.62	3.30E	956.		.6	18	0	1125P	"
						4.30W						230A	
173	3/2	"	294.	433.	5.92	4.15E	2570.		.6	29	-.10	310A	"
						7.00W						540A	
174	3/2	"	346.	1450.	11.2	6.95E	16300		.6	15	+.03	620A	"

"W" indicates West Staff.

"E" indicates East Staff.

F. C. D. FORM 104 1M 9-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 34 B-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT ~~RIVER~~ Firestone Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period No.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												350P	
1	3/4	U.S.E.D.	355.	403.	4.99		2010.		.6	9		402P	
		Bonadiman-and										115P	
2	3/10	Galbraith	355.	328.5	3.08		1010.		.6	11		130P	FC 40
												1245P	
3	3/15	" "	371.	335.	3.00		988.		.6	10		105P	"
									.6			210P	
4	3/14	" "	Two	Channels			787.		Sur	10		225P	"
												900A	
5	3/17	Bonadiman	Two	Channels			504.		.6	14		935A	"
												830A	
6	3/24	"	348.	199.7	2.57		515.		.6	12		900A	"
												805A	
7	3/31	"	55.	70.5	1.2		90.		.6	4		825A	"
												825A	
8	4/7	"	Two	Channels			51.		.6	6		839A	"
												200P	
9	4/14	"	39.	23.65	1.70	4.80	40.		.6	9	0	220P	"
												850A	
10	4/21	"	30.	21.05	1.45	4.82	31.		.6	4	0	900A	"
												840A	
11	4/28	"	Two	Channels		4.86	49.		.6	7	0	905A	"
												905A	
12	5/5	"	90.	45.	2.02	4.86	91.		.6	8	0	930A	"
												912A	
13	5/12	"	73.	30.46	1.69	4.94	52.		.6	10	0	935A	"
												904A	
14	5/19	"	52.	27.20	1.36	4.82	37.		.6	9	0	915A	"

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period No.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												820A	
15	5/26	"	51.	22.27	1.36	4.91	30.		.6	9	0	850A	"
												802A	
16	6/2	"	67.	22.59	1.26	4.90	29.		.6	8	-.01	829A	"
												942A	
17	6/9	"	46.	19.32	1.34	4.83	26.		.6	8	0	957A	"
												835A	
18	6/16	"	39.	13.61	1.34	4.81	18.		.6	6	0	855A	"
												800A	
19	6/23	"	44.	15.36	1.08	4.68	17.		.6	7	0	820A	"
												825A	
20	6/30	"	37.	10.53	1.25	4.70	17.		.6	7	0	845A	"
												755A	
21	7/7	"	32.	11.08	1.04	4.84	12.		.6	6	0	805A	"
												106P	
22	7/14	"	51.	17.51	1.02	4.82	17.		.6	12	0	125P	"
												830A	
23	7/22	"	Two	Channels			4.83		27.	.6	11	0	850A	"
												817A	
24	7/29	"	50.	24.49	1.42	4.92	34.		.6	8	0	[illegible]	"
												825A	
25	8/5	Bonadiman	39.	22.50	1.46	4.83	33.		.6	7	0	840A	FC 40
												838A	
26	8/12	"	58.	29.18	1.37	4.86	40.		.6	10	0	858A	"
												835A	
27	8/19	"	36.	20.84	1.59	4.84	33.		.6	7	0	855A	"
												815A	
28	8/26	"	33.	16.40	1.61	4.91	27.		.6	7	0	835A	"
												850A	
29	9/2	"	49.	20.97	1.54	4.89	33.		.6	8	0	912A	"
												205P	
30	9/8	Bollinger	39.5	26.	1.45	4.92	38.		.6	13	-.01	223P	"
												1111A	
31	9/14	"	46.7	25.96	1.55	4.93	40.		.6	14	0	1133A	"
												324P	
32	9/22	"	61.	26.98	1.43	4.87	38.		.6	17	-.02	341P	"
												820A	
33	9/29	Bonadiman	24.	18.01	2.31	4.86	42.		.6	7	0	841A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F34R

Daily discharge, in second-feet of LOS ANGELES RIVER at Stewart and Gray Road for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	14	38	181	17	42	29	0	28	28	28	0
2	26	46	37	26	27	27	29	14	14	14	55	28
3	23	33	37	0	17	0	26	0	28	14	55	28
4	27	33	30	85	17	17	20	28	28	0	55	14
5	27	33	36	250	250	125	20	28	28	28	55	14
6	23	33	36	250	589	50	24	41	0	14	28	14
7	23	40	36	50	114	5	24	14	14	55	20	41
8	25	37	41	0	49	10	15	0	28	28	0	41
9	26	41	44	13	33	75	7	28	28	14	41	41
10	19	44	49	25	29	50	5.5	14	41	0	0	28
11	22	46	44	20	15	152	9	14	28	14	28	28
12	27	49	33	150	823	577	9	0	28	0	0	14
13	26	47	84	85	3460	148	7	0	14	14	14	28
14	26	47	798	105	497	98	0	28	28	28	14	28
15	23	47	161	0	161	634	10	0	14	14	0	28
16	26	46	114	57	114	79	7	28	7	0	14	28
17	90	46	12	126	79	79	12	0	55	28	14	28
18	45	47	75	23	244	83	9	0	55	28	14	28
19	37	47	75	225	226	226	7	41	28	28	14	28
20	35	43	6	13	209	115	5.5	0	7	14	0	14
21	28	38	49	17	186	642	5.5	0	55	28	0	41
22	27	50	43	26	164	215	41	0	28	0	0	28
23	25	47	43	13	142	249	14	0	41	0	0	28
24	27	43	248	13	272	303	10	14	14	0	0	28
25	28	35	95	13	79	134	12	15	14	0	0	14
26	29	34	1290	125	64	107	10	28	0	14	0	28
27	29	30	620	191	50	81	41	41	28	0	0	28
28	29	29	241	557		78	5	55	55	28	0	28
29	101	29	1130	231		32	0	28	41	0	0	28
30	117		557									
31	141		231									
	1330		6200	1826.5	9919	5026.5	373.1	67.7	101.2	47.4	49.9	76.5
Mean	20.7	4.43	202	58.9	354	162	12.4	2.16	3.37	1.53	1.61	2.55
Acre-Feet	1270	264	12420	3620	19670	9970	740	134	201	94	99	152

Year: Mean 67.2, Acre-Feet 48630

Remarks:

F. C. Dwg. Form 32 150 8-33

F. C. Dist. Form 81 196 2-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

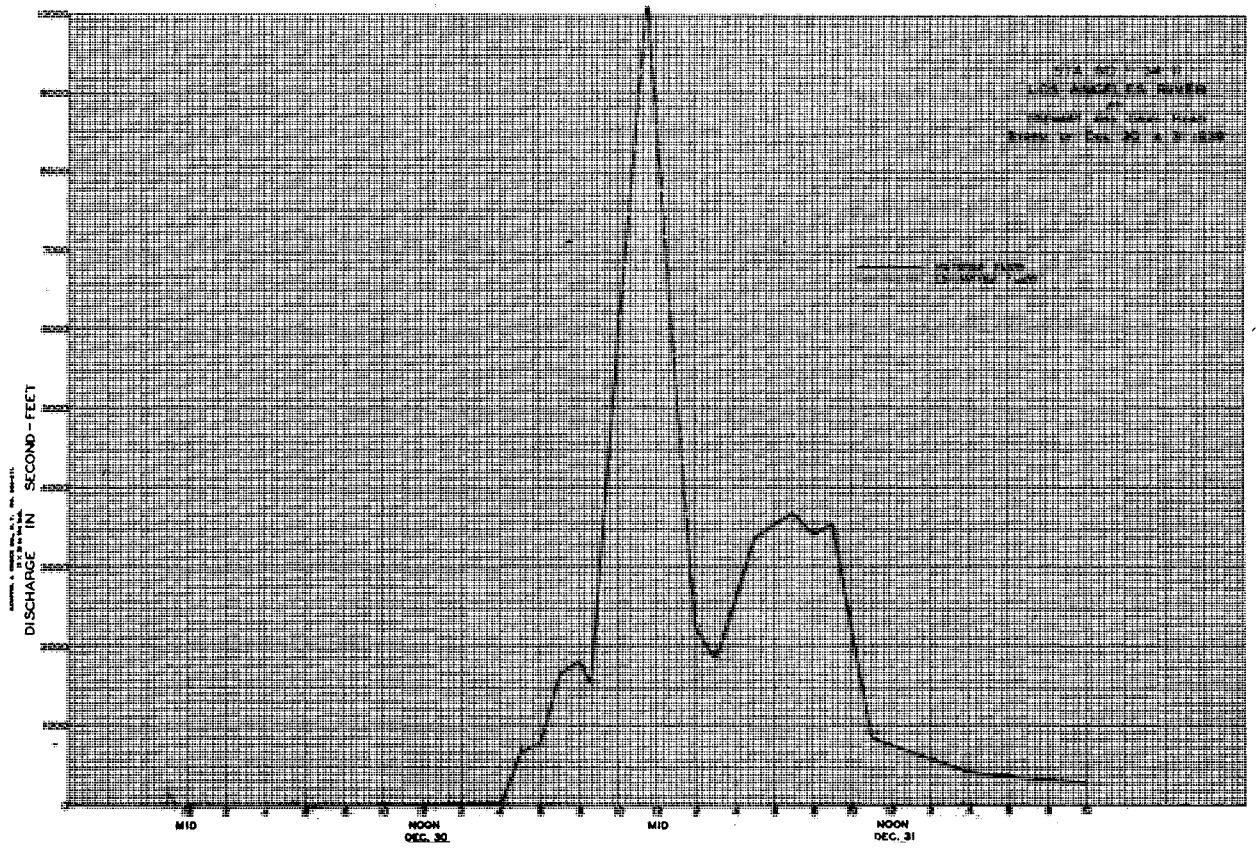
Sta. No. F34B—F34B-R

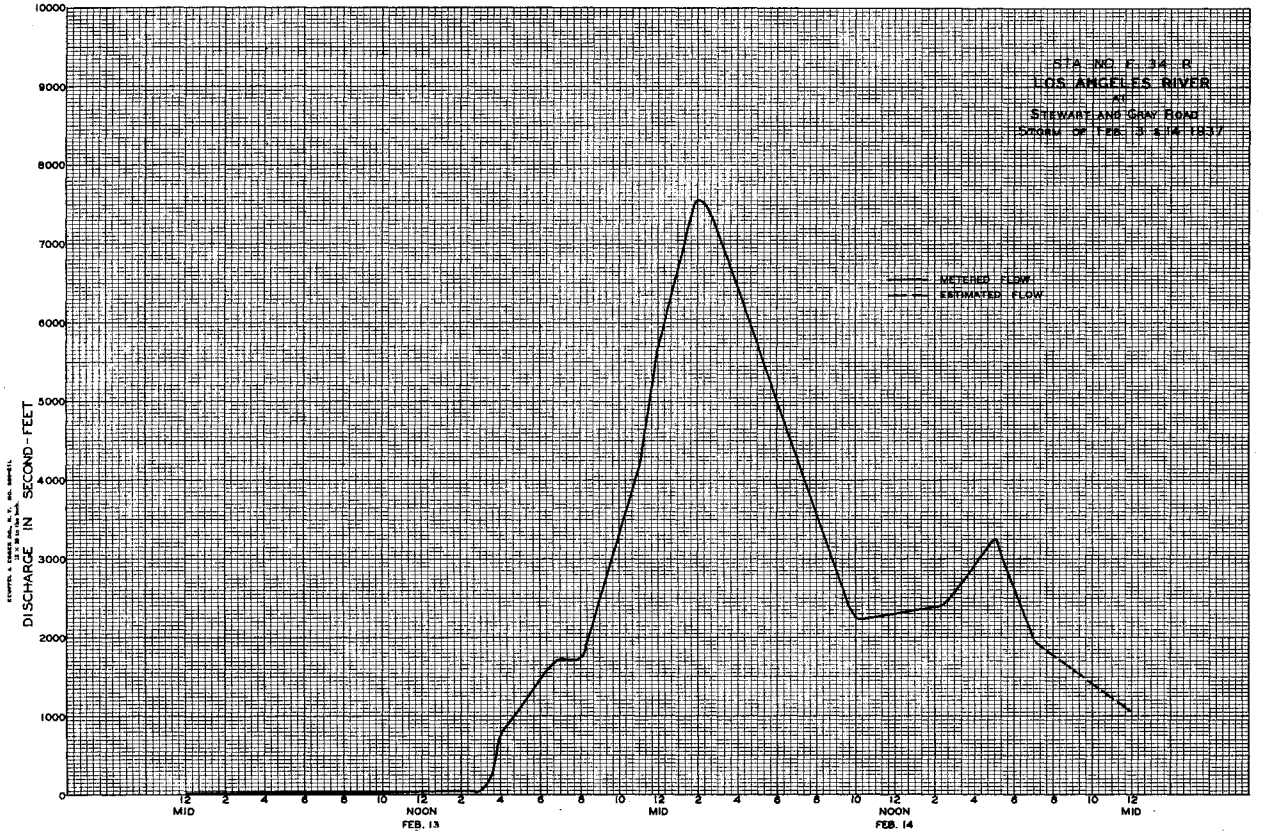
Daily discharge, in second-feet of LOS ANGELES RIVER at Firestone Blvd., for the year ending September 30, 19 38

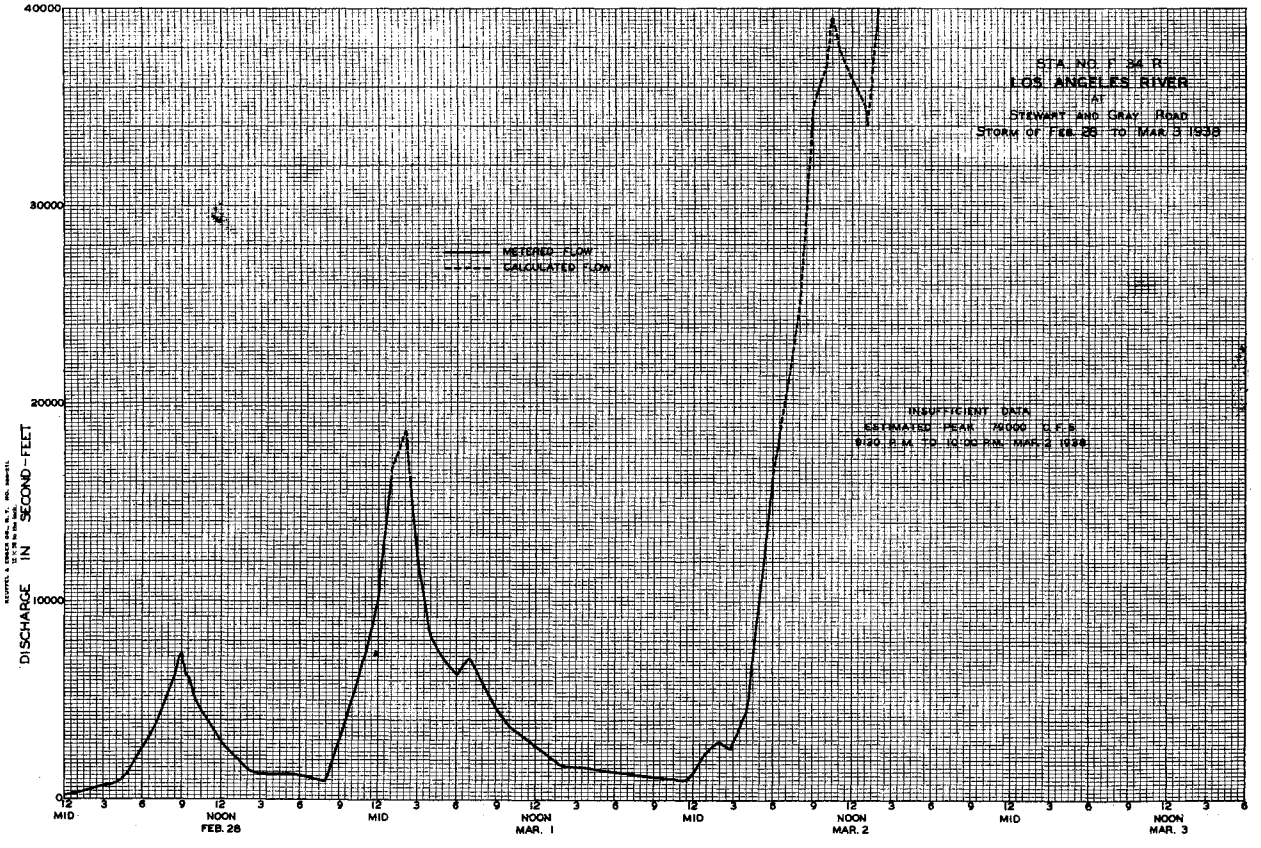
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	0	10	29	1580	4910	82	81	22	13	22	27
2	0.8	0.8	14	26	200	40000	75	98	29	7	27	34
3	0	0.8	10	31	525	15500	70	109	34	9.5	31	48
4	0	3.3	5	29	418	2500	64	126	29	8.5	34	45
5	0	5	5	25	130	1600	59	104	29	10	42	42
6	1.7	2.5	8	24	80	1300	54	70	29	13	52	39
7	3.3	0	11	26	72	1000	50	42	36	9.5	34	45
8	3.3	0	10	25	71	1500	44	27	21	9.5	26	39
9	3.3	3.3	13	24	517	1200	39	42	26	10	26	27
10	0	4.2	108	26	140	1050	34	24	26	9.5	26	26
11	0.8	6	704	29	1300	1000	30	34	18	11.0	45	21
12	3.3	5	91	38	830	1500	27	52	24	14	39	26
13	3.3	4.2	31	32	235	1100	26	31	22	18	31	29
14	3.3	0	25	32	180	840	39	24	21	12	36	39
15	2.5	1.7	20	350	115	680	29	34	19	19	34	36
16	1.7	5	29	76	68	560	31	26	18	22	45	31
17	0	1.7	24	46	58	520	27	31	17	18	56	31
18	1.7	7	18	64	60	560	26	39	14	21	42	36
19	3.3	8	14	61	110	550	22	34	14	27	31	45
20	2.5	7	14	40	80	540	34	21	16	26	26	52
21	3.3	5	15	35	55	530	29	48	24	27	18	48
22	6	3.3	16	36	42	520	22	42	22	29	24	42
23	3.3	6	234	36	39	510	21	36	18	21	45	45
24	0	5	25	41	37	500	26	45	18	12	48	70
25	2.5	6	11	60	39	250	29	27	17	18	34	45
26	5	7	190	76	41	130	52	29	11	31	22	39
27	4.2	8	86	74	400	125	52	29	7	29	18	48
28	3.3	3.3	48	99	2750	120	42	14	21	26	26	45
29	3.3	2.5	38	138		108	42	16	18	29	36	39
30	1.7	7	29	106		96	81	17	19	27	36	39
31	0		28	106		88		16		24	29	
	699	118.6	1884	1840	10172	81387	1268	1368	637	5605	1041	1178
Mean	2.25	3.95	60.8	59.4	363	2625	42.3	44.1	21.2	18.1	33.6	39.3
Acre-Feet	139	235	3740	3650	20180	161400	2580	2710	1260	1110	2060	2340

Remarks: ┌ indicates change in station location--see station description

Year or Period — Mean [illegible] — Acre-Feet 201300




STA NO F 34 R
LOS ANGELES RIVER
AT
STEWART AND GRAY ROAD
STORM OF FEB. 13 & 14 1937
METERED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND-FEET
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
12 MID
2
4
6
8
10
12 NOON
FEB. 13
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON
FEB. 14
2
4
6
8
10
12 MID


STA NO F 34 R
LOS ANGELES RIVER
AT
STEWART AND GRAY ROAD
STORM OF FEB 28 TO MAR 3 1938
METERED FLOW
CALCULATED FLOW
INSUFFICIENT DATA
ESTIMATED PEAK 76000 C.F.S.
9:30 P.M. TO 10:00 P.M. MAR. 2 1938
DISCHARGE IN SECOND-FEET
40000
30000
20000
10000
0
12 MID
3
6
9
12 NOON
FEB. 28
3
6
9
12 MID
3
6
9
12 NOON
MAR. 1
3
6
9
12 MID
3
6
9
12 NOON
MAR. 2
3
6
9
12 MID
3
6
9
12 NOON
MAR. 3
6

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 180 R

STATION F180R

LOS ANGELES RIVER at State Street, Long Beach

LOCATION:

On the downstream side of State Street bridge, on the downstream end of 4th pier from east abutment and about 1-3/4 miles from the Pacific Ocean.

DRAINAGE AREA:

Indeterminate due to a natural split near Arrow Highway which 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.

CHANNEL AND CONTROL:

The channel, approximately 570 feet wide, is composed of fine sand and silt between levees protected by riprap.
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 an 18 inch diameter corrugated iron pipe stilling well.
Stevens continuous recorder.

REGULATION:

Flow partially regulated by Big Tujunga Dam No. 1, Pacoima Dam, Devils Gate Dam, Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dam No. 2, Morris Dam, Eaton Dam, and various debris basins; and after November 17, 1937, by San Gabriel Dam No. 1.
Los Angeles Aqueduct water used in the power house at Diaz Avenue is discharged into the river above station F124R.

REGULATION AND OR DIVERSIONS:

Twin Lakes Dams, Chatsworth Reservoir, Upper and Lower San Fernando Reservoirs, Encino Reservoir, and a dam on a tributary to Limekiln 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, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 20500 second-feet February 14.
Minimum 1.7 second-feet June 19, July 16,
1937-1938
Maximum 99000 second-feet, estimated, March 2.
Minimum not determined.
1931-1937
Maximum 99000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times in 1934.

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:
February 3, 1938.
Lower end of stilling well was lost in the March 2, 1938 storm: discharges March 2, 1938 to March 11, 1938, estimated by comparison with stations F34R and F45R.

OPERATION:

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

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT State St., Long Beach DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	ADJ. PERCENT DIF.	METH OD	MEAS. REGS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Bonadiman	36.	13.92	.35	5.52	4.8		.6	5	0	1051A 1057A	FC 9
2	10/8	"	35.	15.25	.35	5.55	5.5		.6	5	0	1123A 1132A	"
3	10/15	"	35.5	13.54	.52	5.41	7.1		.6	5	0	107P 117P	"
4	10/19	"	Two Channels			5.96	134		.6	10	-.01	803A 824A	"
5	10/22	"	26.	11.44	.59	5.59	6.8		.6	5	0	1113A 1125A	"
6	10/29	"	26.	11.44	.67	5.54	7.7		.6	6	0	943A 954A	"
7	10/31	"	Two Channels			6.49	595		.6	15	+.02	1035A 1108A	"
8	11/5	"	32.	12.01	.56	5.58	6.7		.6	5	0	1111A 1117A	"
9	11/12	"	22.	8.95	.51	5.56	4.6		.6	5	-.01	1105A 1116A	"
10	11/19	"	32.	10.64	.59	5.61	6.2		.6	6	-.02	1041A 1050A	"
11	11/25	"	38.	13.90	.61	5.58	8.5		.6	6	+.07	1040A 1050A	"
12	12/3	"	39.	14.03	.50	5.58	7.1		.6	8	0	1020A 1032A	"
13	12/10	"	31.	11.99	.59	5.56	7.2		.6	6	0	1007A 1014A	"
14	12/15	Bonadiman and Lind	191.	192.4	1.91	6.28	366		.6	12	-.01	212A 235A	"
15	12/15	"	187.	244.3	2.49	6.60	610		.6	12	0	730A 747A	"
16	12/15	"	219.	307.6	2.64	6.70	812		.6	12	-.05	940P 1000P	"
17	12/16	"	Two Channels			6.23	199		.6	10	-.02	127P 140P	"
18	12/23	Bonadiman	30.	14.97	.63	5.59	9.5		.6	6	0	1148A 1202P	"
19	12/26	Bonadiman and Lind	Three Channels			5.86	25		.6	13	-.04	1155A 1215P	"
20	12/27	"	Two Channels			8.85	6410		.6	10	-.30	1140A 1220P	"
21	12/27	"	228.	438.4	6.78	7.44	2970		.6	7	-.03	234P 249P	"
22	12/28	"	230.	529.9	5.46	7.88	2900		.6	6	-.05	345A 400A	"
23	12/28	"	218.	290.4	4.27	6.90	1240		.6	10	-.04	737A 755A	"
24	12/29	"	Two Channels			6.12	91		.6	9	-.01	1251P 105P	"
25	12/31	Bonadiman and Lind	220.	775.8	5.86	8.12	4550		.6	6	-.25	356A 415A	FC 9
26	12/31	McAulay and Detweiler	209	401.4	5.59	7.45	2240		.6	4	-.30	550A 640A	FC 18
27	12/31	"	225.	235.0	4.07	7.16	957		.6	4	-.10	1120A 1150A	"
28	1/2	Bonadiman and Lind	40.	26.10	1.31	5.94	34		.6	6	0	1210P 1217P	FC 9
29	1/6	"	Two Channels			6.38	170		.6	10	0	1005A 1020A	"
30	1/7	Bonadiman	47.	46.41	1.03	6.16	48		.6	7	0	225P 236P	"
31	1/12	Bonadiman and Lind	217.	242.6	2.31	6.71	585		.6	14	+.02	1010P 1030P	"
32	1/13	Bonadiman	Two Channels			6.44	185		.6	13	0	135P 155P	"
34	1/28	"	30.	16.25	.92	5.59	15		.6	8	0	1022A 1040A	"
35	1/29	"	213.	265.8	2.31	6.85	614.		.6	15	+.10	1037A 1105A	"
36	1/30	Bonadiman and Lind	218.	509.6	4.60	7.63	2390		.6	11	+.05 -.15	1030P 1100P	"
37	1/31	"	222.	206.8	1.49	6.62	309		.6	13	-.15	1200N 1215P	"
38	2/4	Bonadiman	49.	17.48	.74	6.06	13		.6	7	-.01	142P 155P	"
39	2/6	Bonadiman and Lind	224.	373.2	3.35	7.16	1250		.6	14	+.01	610A 630A	"
40	2/6	"	Two Channels			9.18	7300		.6	13	-.05	125P 150P	"
41	2/6 2/7	Jordan and Thompson	229.	616.4	5.96	7.85	3670		.6	6	-.30	1140P 1215A	FC 21
42	2/7	Bonadiman and Lind	228.	702.3	2.89	7.17	2030		.6	13	-.03	745A 805A	FC 9
43	2/8	Bonadiman	205.	290.2	.98	6.41	283		.6	14	0	1258P 120P	"
44	2/11	"	50.	34.6	.86	6.02	30		.6	8	0	935A 950A	"
45	2/14	Bonadiman and Lind	Two Channels			9.50	10200		.6	11	+.20	115A 200A	"
46	2/14	"	448.	1976.	6.60	10.05	17500		.6	10	-.30	555A 617A	"
47	2/14	McAulay and Detweiler	235.	820.0	7.78	8.50	6390		.6	6	0	1030A 1055A	FC 18
48	2/14	"	209	517.4	4.97	7.8	2570		.6	5	-0.2	1250P 125P	"
49	2/14	McAulay and Detweiler	209.	484.2	4.84	7.55	2340		.6	5	-0.1	230P 249P	FC 18
50	2/14	"	204.	458.0	4.21	7.35	1930		.6	5	-0.1	408P 426P	"
51	2/15	Bonadiman	78.5	307.8	2.37	6.43	731		.6	6	0	340P 355P	FC 9
52	2/18	"	85.	237.2	3.50	6.70	835		.6	7	0	1024A 1040A	"
53	2/25	"	118.	252.7	2.82	6.80	712		.6	7	0	945A 1000A	"
54	3/4	"	32.	24.60	1.31	5.85	32		.6	8	0	330P 350P	"
55	3/10	"	36.	21.52	.88	5.80	19		.6	8	0	1007A 1019A	"
56	3/13	"	210.	488.2	3.76	7.64	1830		.6	12	+.08	1005A 1027A	"
57	3/14	"	Two Channels			6.74	188		.6	8	0	1145A 1200N	"
58	3/16	McAulay and Henderson	225.	970.8	6.08	8.40	5900		.6	7	-.20	1250A 115A	"
59	3/16	"	214.	570.8	4.83	7.85	2760		.6	6	-.30	210A 405A	FC 18

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, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Permit No.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
60	3/16	Bonadiman-Daley	209.	560.1	4.18	7.52	2340		.6	7	-.03	710A 735A	FC 9
61	3/17	Bonadiman	221.	311.5	2.32	7.00	724		.6	15	0	155P 214P	"
62	3/18	"	221.	297.7	1.90	6.95	566		Sur .6	10	-.02	140P 204P	"
63	3/22	"	228.	480.6	5.08	7.93	2440		.6	8	-.05	1052A 1114A	"
64	3/23	"	Two Channels			6.69	298		Sur .6	9	-.02	945A 1000A	"
65	3/25	"	Two Channels			7.14	857		Sur .6	11	0	843A 900A	"
66	3/26	"	Two Channels			6.78	249		Sur .6	9	0	1148A 1205P	"
67	4/1	"	45.	32.94	.94	6.22	31		.6	9	0	1222P 100P	"
68	4/8	"	46.	29.38	.56	6.12	16		.6	10	0	1000A 1019A	"
69	4/15	"	42.	15.71	.60	6.03	9.4		.6	8	0	1012A 1025A	"
70	4/22	"	23.	5.96	.53	5.90	3.1		.6	6	0	1028A 1035A	"
71	4/29	"	Two Channels			6.10	9.0		.6	10	0	1124A 1136A	"
72	5/6	"	Two Channels			6.08	9.9		.6	13	0	135P 152P	"
73	5/13	Bonadiman	Two Channels			6.02	5.2		.6	9	0	1030A 1040A	FC 9
74	5/20	"	Two Channels			6.02	5.0		.6	9	0	933A 945A	"
75	5/27	"	Two Channels			6.17	13		.6	12	0	1010A 1027A	"
76	6/2	"	17.	5.81	.65	6.00	3.8		.6	4	0	106P 112P	"
77	6/10	"	20.	7.07	.54	6.00	3.8		.6	5	0	1043A 1050A	"
78	6/17	"	19.	6.63	.66	6.00	4.4		.6	5	0	1042A 1050A	"
79	6/24	"	16.	6.00	.64	6.02	3.8		.6	4	0	1031A 1037A	"
80	7/1	"	17.	5.93	.72	6.02	4.3		.6	5	0	1213P 1220P	"
81	7/8	"	26.	5.90	.54	6.02	3.2		.6	5	0	1002A 1012A	"
82	7/15	"	29.	8.53	.64	6.04	5.5		.6	5	0	1035A 1042A	"
83	7/22	"	17.	6.61	.61	6.04	4.0		.6	5	0	1106A 1115A	"
84	7/29	"	21.	8.02	.63	6.05	5.0		.6	4	0	1031A 1040A	"
85	8/5	"	23.	6.72	.60	6.06	4.0		.6	4	0	110P 116P	"
86	8/12	"	Two Channels			6.06	4.1		.6	6	0	1030A 1040A	"
87	8/19	Prickett	20.5	6.49	.83	6.09	5.5		.6	6	0	1210P 1220P	FC 22
88	8/26	"	36.	11.93	.81	6.09	10		.6	7	0	1235P 1245P	"
89	9/1	Bonadiman	Two Channels			6.09	5.9		.6	6	0	230P 240P	FC 9
90	9/8	"	Two Channels			6.08	3.5		.6	7	-.01	1002A 1010A	"
91	9/16	"	Two Channels			6.10	3.9		.6	7	0	1202P 1210P	"
92	9/23	"	Two Channels			6.13	4.4		.6	8	0	1110A 1124A	"
93	9/30	"	Two Channels			6.12	5.3		.6	8	0	1118A 1129A	"

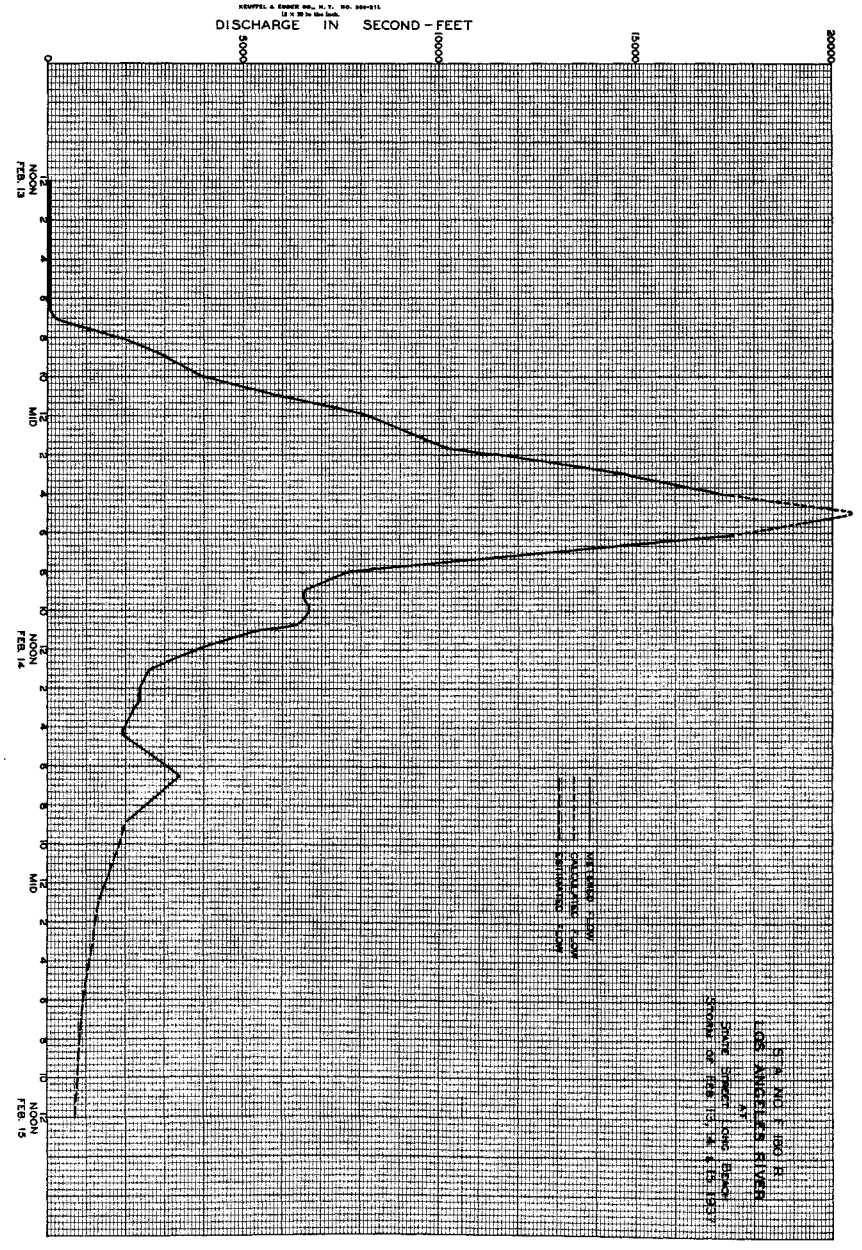
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 180 R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

At State St., Long Beach DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Permit No.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
94	10/7	Bonadiman	Two Channels			6.13	4.6		.6	8	-.02	1005A 1017A	FC 9
95	10/14	"	Two Channels			6.15	6.1		.6	8	-.01	1007A 1020A	"
96	10/21	"	Two Channels			6.16	6.4		.6	8	+.01	940A 951A	"
97	10/28	"	Two Channels			6.11	6.4		.6	7	-.01	948A 1005A	"
98	11/4	"	Two Channels			6.10	4.8		.6	6	0	1036A 1045A	"
99	11/10	"	Two Channels			6.10	4.7		.6	6	0	910A 920A	"
100	11/18	"	Two Channels			6.18	9.8		.6	9	-.01	1130A 1141A	"
101	11/24	"	Two Channels			6.14	7.4		.6	9	-.01	1110A 1121A	"
102	12/2	"	Three Channels			6.24	12		.6	10	0	1110A 1120A	"
103	12/9	"	Two Channels			6.32	24		.6	11	-.07	102P 125P	"
104	12/11	Bonadiman	Two Channels			6.54	83		.6	15	0	1209P 1245P	"
105	12/11	Bonadiman-Lind	237.	596.	5.43	8.31	3240		.6	11	-.18	1014P 1140P	"
106	12/12	Bonadiman-Lind	230.	374.	4.03	7.52	1510		.6	10	-.07	212A 232A	"
107	12/14	Bonadiman	Two Channels			6.50	32		.6	7	0	256P 310P	FC 40
108	12/16	"	Two Channels			6.49	25		.6	11	0	1100A 1122A	"
109	12/23	Bonadiman-Lind	231.	421.7	4.2	7.57	1780		.6	11	-.02	747A 805A	"
110	12/23	" "	229.	259.8	2.6	7.22	677		.6	11	-.09	930A 950A	"
111	12/24	Bonadiman	Two Channels			6.48	90		.6	10	0	1045A 1108A	"
112	12/26	Bonadiman-Lind	233.	318.	3.05	7.44	959		.6	13	-.03	928P 948P	"
113	12/27	Bonadiman	Three Channels			6.72	134		.6		0	130P 155P	"
114	12/30	"	59.	51.6	1.16	6.48	60		.6	4	0	1042A 1100A	"
115	1/6	"	47.	59.6	.59	6.42	35		.6	5	0	1250P 105P	"
116	1/13	"	Two Channels			6.48	40		.6	13	0	1002A 1025A	"
117	1/15	Bonadiman-Lind	231.	527.	4.36	7.93	2300		.6	14	+.06	1200N 1225P	"
118	1/15	Bonadiman-Lind	232.	522.2	3.34	7.70	1750		.6	16	-.01	133P 154P	FC 40
119	1/16	Bonadiman	Two Channels			6.80	83		.6	12	0	1102A 1122A	"
120	1/20	"	Three Channels			6.70	131		.6	12	.0	1100A 1120A	"
121	1/27	"	79.5	66.2	.87	6.52	57		.6	6	0	1212P 1228P	"
122	2/1	Bonadiman-Lind	255.	998.4	6.38	9.18	6370		.6	10	+.45	525A 558A	"
123	2/1	" "	Two Channels			9.70	8270		.6	10	+.40	615A 648A	"
124	2/1	" "	258.	1044.	5.69	9.40	5940		.6	7	-.40	822A 855A	"
125	2/1	" "	Two Channels			7.03	1010		.6	11	-.05	308P 325P	"
126	2/2	Bonadiman	85.4	273.	.91	6.17	249		.6	8	0	150P 205P	"
127	2/3	"	170.	398.3	1.31	6.49	522		.6	12	+.14	501P 525P	"
128	2/3	Bonadiman-Lind	243.	623.4	4.36	8.07	2740		.6	13	+.12 -.07	1009P 1045P	"
129	2/4	" "	228.	520.7	4.53	7.66	2370		.6	10	-.12	1234A 1250A	"
130	2/4	" "	143.5	267.9	1.75	6.72	469		.6	11	-.01	806A 822A	"
131	2/4	" "	191.	414.4	1.95	7.15	806		.6	12	-.07	307P 328P	"
132	2/5	Bonadiman	105.	313.8	.79	6.56	250		.6	8	0	127P 148P	"
133	2/9	Bonadiman-Lind	152.	256.6	1.15	6.69	295		.6	9	0	1143A 1200N	"
134	2/9	" "	254.	1028	5.29	8.90	5430		.6	11	-.10	336P 400P	"
135	2/9	" "	228.	335.	3.94	7.14	1320		.6	15	-.04	845P 905P	"
136	2/10	" "	184.	257.4	1.15	6.61	296		.6	12	0	208P 221P	"
137	2/11	" "	251.	919.4	5.49	8.82	5040		.6	11	-.13	505P 527P	"
138	2/12	" "	226.	369.8	2.47	7.13	913		.6	14	-.05	805A 825A	"
139	2/16	Bonadiman	39.	66.5	.95	6.25	63		.6	5	0	132P 150P	"
140	2/24	"	42.	38.4	.90	6.21	35		.6	6	-.02	1200N 1220P	"
141	2/27	Bonadiman and Waddicor	230.	859.9	5.00	8.78	4300		.6	12	+.03	222P 247P	FC 40
142	2/27	"	230.	643.4	4.76	8.33	3060		.6	8	-.10	504P 522P	"
143	2/28	"	419	1693.	6.30	10.61	10700		.6	13	+.30 -.25	1029A 1107A	"
144	2/28	"	229.	696.6	4.05	7.58	2820		.6	10	-.04	715P 730P	"
145	3/1	"	472.	2255.	7.50	10.97	16900		Sur .6	13	+1.76	1250A 200A	"
146	3/1	"	221.	1250.	5.43	8.47	6780		.6	10	-.03	1122A 1150A	"
147	3/5	Bonadiman	414.	1239.	4.28	7.26	5310		.6	12	-.08	420P 450P	"
148	3/5	"	415.	1143.	3.40	7.30	3890		.6	12	0	1115A 1150A	"
149	3/8	"	426.	1795.	2.36	7.50	4240		.6	20	0	135P 230P	"
150	3/9	"	402.	1263.	3.79	7.70	4780		.6	10	0	950A 1026A	"
151	3/10	Bonadiman and Galbraith	401.	1276.	3.79	7.88	4840		.6	19	-.05	826A 910A	"
152	3/11	"	266.	508.8	3.41	6.94	1730		.6	13	+.02	112P 135P	"
153	3/12	"	404.	1014.	4.18	8.15	4250		.6	10	-.05	607A 635A	"
154	3/12	"	397.	776.7	3.01	7.58	2340		.6	9	-.05	1220P 1245P	"
155	3/13	"	395.	732.2	4.45	7.97	3260		.6	10	+.05	926A 956A	"
156	3/14	"	398.	613.4	3.37	7.55	2070		.6	17	+.01	843A 915A	"
157	3/16	Bonadiman	399.	583.2	3.19	7.53	1860		.6	11	-.02	1002A 1038A	"
158	3/23	"	398.2	587.3	1.51	7.06	889		.6	17	0	845A 925A	"
159	3/30	"	Two Channels			7.08	1080		.6	11	0	950A 1020A	"
160	4/6	"	Two Channels			7.54	2600		.6	19	-.03	952A 1030A	"
161	4/14	"	41.	119.	2.47	6.42	294		.6	5		930A 950A	"
162	4/21	"	Two Channels			6.42	180		.6	10	0	1115A 1135A	"
163	4/28	"	35.	41.2	1.04		43		.6	5		1100A 1115A	"
164	5/5	"	53.	55.6	1.16	6.08	65		.6	6	0	132P 159P	"
165	5/12	Bonadiman	Two Channels			6.02	47		.6	8	0	1120A 1135A	FC 40
166	5/19	"	Two Channels			6.04	38		.6	8	0	1035A 1100A	"
167	5/26	"	Two Channels			5.93	22		.6	7	0	1103A 1118A	"
168	6/23	"	20.	14.1	.85	5.96	12		.6	5	0	1041A 1055A	"
169	6/30	"	16.5	12.4	1.14	5.95	13		.6	5	0	200P 215P	"
170	7/29	"	57.	30.8	.91	6.09	28		.6	10	0	1005A 1027A	"
171	8/26	"	66.	34.9	.92	6.08	32		.6	13	0	1105A 1128A	"
172	9/29	"	43.	31.6	1.17	6.06	37		.6	8	0	935A 1000A	"



F. C. Dist. Form 53 154 5-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F160R

Daily discharge, in second-feet of LOS ANGELES RIVER at State St., Long Beach, for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	11	3.5	96	114	128	33	6.5	4.8	4.8	4.1	6
2	4.8	9	7	40	35	93	96	5	5	4.8	3.5	5.5
3	5	8.5	7	24	17	68	78	5.5	4.5	3.8	3.8	5
4	4.1	8	11	12	11	45	35	6	5	3.5	3.8	4.5
5	4.8	7.5	9	14	11	24	21	7	6.5	3.8	3.3	4.1
6	5	8	6.5	364	4190	24	20	11	5	3.8	3.0	4.5
7	4.8	7.5	5.5	59	1520	21	20	8.5	4.5	3.8	3.5	4.1
8	5.5	5	8	24	292	21	15	9	4.5	3.5	3.5	3.5
9	6.5	4.1	9	14	118	20	14	6	4.5	3.8	3.3	3.5
10	8	4.5	9	9.5	105	17	12	5	4.8	3.8	3.5	3.3
11	6.5	6	12	6.5	42	17	11	6	3.8	4.5	3.8	3.8
12	9	4.8	11	146	23	124	11	7	4.5	4.1	3.8	4.1
13	11	6.5	9	274	803	754	10	4.8	4.5	4.8	4.5	3.5
14	12	6.5	9	45	6800	196	9	6	4.5	5	4.8	3.8
15	17	5.5	618	23	822	1810	9	6.5	4.5	5.5	4.8	3.8
16	17	4.5	368	16	716	1850	8.5	5	4.5	4.5	5	3.5
17	15	4.1	59	7.5	632	750	8	4.8	4.5	4.5	6	3.5
18	51	6	12	8	819	485	6	4.5	4.1	4.5	5.5	3.5
19	63	6.5	9.5	11	1070	320	6	5.5	2.5	4.1	6	4.5
20	5	6	9.5	9.5	1300	209	5	5.5	3.3	3.8	6.5	3.5
21	6	3.3	11	8	1230	118	4.1	6	3.8	3.8	7	3.5
22	6	4.1	11	9.5	971	1090	3.8	6.5	4.1	4.1	7	3.8
23	6.5	5.5	12	18	339	338	4.1	4.5	3.8	3.8	7	3.8
24	6.5	6.5	14	40	223	782	3.8	5	3.8	3.8	9	4.5
25	6.5	12	135	45	821	774	3.0	6.5	3.8	4.1	9.5	4.5
26	6.5	16	28	56	438	245	3.0	15	4.1	4.1	9.5	4.8
27	8	11	1310	75	216	180	33	11	4.5	4.5	9	4.8
28	8.5	5	1180	109	168	141	9	7	4.1	4.1	7.5	5
29	9	3.5	89	245		105	9	8	4.1	4.5	7	6
30	60	2.8	721	245		75	9	7.5	5	4.5	6.5	5.5
31	114		2040	435		50		7.5		3.8	6.5	
	497.3	1992	67435	24885	23846	10874	5093	2096	130.9	129.8	1715	127.7
Mean	16.0	6.64	218	80.3	852	351	17.0	6.76	4.36	4.19	5.53	4.26
Acre-Feet	986	395	13380	4940	47300	21570	1010	416	260	257	340	253

Remarks:

Year or Period — Mean 126 — Acre-Feet 91110

F. C. Dist. Form 53

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

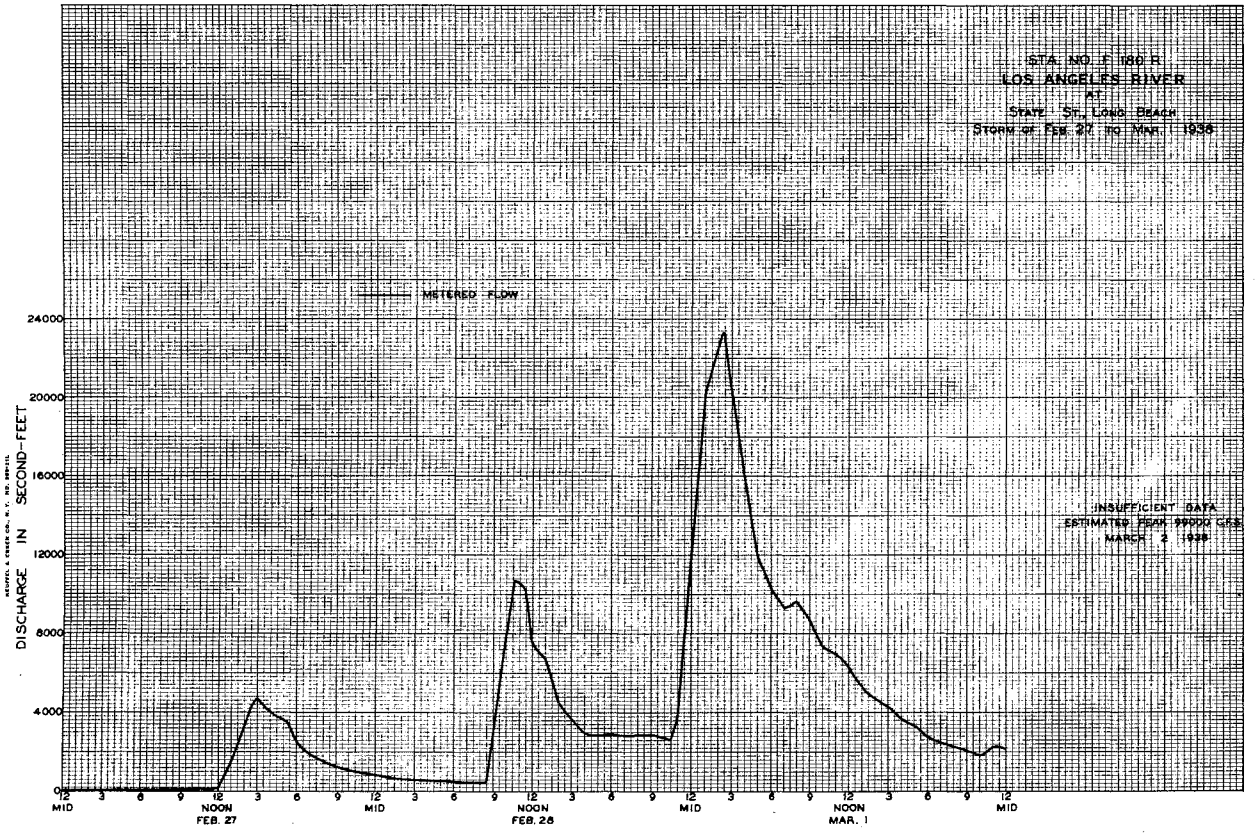
Sta. No. F160R

Daily discharge, in second-feet of LOS ANGELES RIVER at State St., Long Beach, for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.2	7	14	45	1960	7090	831	200	27	11	26	14
2	4.2	6	14	41	282	50000	1400	150	37	7	27	27
3	4.2	6	15	37	690	30000	1500	114	32	4.2	32	34
4	4.2	6	13	37	815	8000	1650	94	30	1.8	35	29
5	4.2	6	13	35	233	5400	2290	72	28	2.4	26	32
6	4.2	6	7.5	35	60	3900	2460	58	26	2.4	30	34
7	4.2	6	14	34	32	3800	2580	50	24	7.5	23	32
8	4.2	7	20	29	24	4400	2690	32	22	6	3.6	21
9	4.2	7	23	22	1370	4800	2600	47	18	8	1.1	21
10	4.2	7	24	23	450	4100	2060	55	20	9.5	15	17
11	4.2	8	810	26	1720	2300	1730	30	23	11	27	15
12	4.2	9	619	41	873	2630	1360	43	22	7.5	22	14
13	4.2	8	94	39	160	2880	748	50	21	10	22	16
14	4.9	9	39	32	107	2370	310	30	21	10	11	18
15	6	7	29	596	75	2150	266	27	20	7	1.2	20
16	6	7	26	72	63	1900	288	24	20	10	3.0	21
17	6	7.5	26	47	58	1420	255	22	20	10	18	23
18	5.5	10	24	58	58	1420	233	22	19	1.0	17	26
19	5.5	9	22	114	81	1630	222	89	17	3.0	16	27
20	5.5	8	20	81	50	1130	200	27	16	4.2	16	29
21	4.2	12	21	32	45	1050	190	59	16	6	15	30
22	3.0	11	23	27	41	986	352	47	15	7	15	34
23	4.2	11	273	26	37	914	450	32	15	9	14	35
24	4.9	7.5	81	23	32	1140	510	41	15	11	14	37
25	5.5	7	39	37	22	1190	465	30	21	13	13	41
26	6	5.5	237	50	26	1210	422	29	13	15	13	43
27	6	8	210	58	1140	1130	366	34	4.9	18	12	47
28	7	8	63	58	3250	1130	324	32	9	21	7.5	50
29	7	7.5	60	212		1080	288	27	14	24	24	50
30	7	10	60	130		1050	244	27	16	27	27	52
31	7		52	58		980		26		26	22	
	155.8	234.0	30555	2155	13754	153188	29284	1540	600.9	306.5	5583	889
Mean	5.03	7.80	98.6	69.5	491	4942	976	49.7	20.0	9.86	18.0	29.6
Acre-Feet	309	464	6060	4270	27280	303800	58080	3050	1190	608	1110	1760

Remarks:

Year or Period — Mean 564 — Acre-Feet 408000



STATION FLOOR

MAIN SPREADING CANAL at mouth of San Gabriel Canyon

LOCATION:

On north (right) bank of Spreading Canal at upstream side of railroad bridge, 300 feet east of San Gabriel Canyon Road and about 2 miles north of Azusa.

GENERAL:

This station is on a spreading ditch which receives water from two sources: one is from the City of Pasadena's power house tailrace; the other is by direct diversion from San Gabriel River through a tunnel, known as the SAN GABRIEL-AZUSA-DUARTE TUNNEL DIVERSION, and published herewith. The total represents the major part of the water spread by the East Side Water Company.

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 an 18 inch diameter, corrugated iron pipe stilling well.
Rational 7 day recorder, in service October 1, 1936, was replaced with a Stevens type L recorder on June 24, 1937.

REGULATION:

By diversion gates.

RECORDS AVAILABLE:

Recorder records from February 13, 1929 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 98 second-feet March 11.
Minimum no flow several months.
1937-1938
Maximum 107 second-feet February 26.
Minimum no flow several months.
1929-1938
Maximum 107 second-feet February 26, 1938.
Minimum no flow at times each year.

ACCURACY:

Good.
Clock stopped: March 22-25, April 28, 29, 1937.
Estimated: April 23-25, May 27-28, 1938.

OPERATION:

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

REMARKS:

The records for SAN GABRIEL RIVER-AZUSA-DUARTE TUNNEL DIVERSION are published herewith.

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 100 R

DISCHARGE MEASUREMENTS OF MAIN SPREADING CANAL

AT mouth of San Gabriel Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	RETS. ON	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	11/5	Lindsay	11.6	6.56	.91	1.05	5.3		.6	8	0	340P 350P	FC 28
2	11/12	"	6.1	1.42	1.02	.79	1.4		.6	5	0	435P 440P	"
3	12/16	Lindsay and McArthur	12.0	9.31	1.12	1.27	10		.6	11	-.02	255P 310P	"
4	12/23	Lindsay	12.9	18.96	2.45	2.00	46		.6	12	0	927A 937A	"
5	1/6	Lindsay and McArthur	12.9	19.06	2.39	2.08	48		.6	10	0	418P 428P	"
6	1/13	Lindsay	12.8	19.16	2.34	2.04	45		.6	10	0	315P 325P	"
7	1/21	"	12.5	18.08	2.31	1.95	42		.6	11	0	245P 300P	"
8	2/5	"	12.4	18.83	2.45	2.03	46		.6	11	0	825A 835A	"
9	3/5	"	13.2	26.54	3.11	2.58	83		.6	11	0	833A 848A	"
10	3/18	"	13.0	20.85	2.58	2.12	54		.6	10	-.02	1106A 1122A	"
11	4/1	"	13.2	25.62	3.03	2.54	78		.6	9	0	250P 300P	"
12	5/6	"	13.1	25.7	2.52	2.51	65		.6	9	0	317P 329P	"
13	5/20	"	13.1	20.0	2.40	2.12	48		.6	9	0	413P 425P	"
14	6/3	"	13.0	20.9	2.59	2.19	54		.6	9	0	413P 430P	"
15	6/10	"	12.5	16.8	2.08	1.89	35		.6	10	0	1255P 110P	"
16	6/24	Lindsay and Thompson	12.3	15.0	2.00	1.75	30		.6	9	0	254P 306P	"
17	7/1	Lindsay	11.6	10.08	1.37	1.34	14		.6	8	0	225P 235P	"

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 100 R

DISCHARGE MEASUREMENTS OF MAIN SPREADING CANAL

AT mouth of San Gabriel Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	RETS. ON	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
18	12/16	R. Lindsay and J. Lindsay	11.3	6.89	0.94	1.10	6.5		.6	8	0	340P 350P	FC 28
19	1/13	R. Lindsay	11.9	12.03	1.70	1.54	20		.6		0	310P 320P	"
20	1/21	"	13.3	27.70	3.38	2.70	94		.6		0	155P 210P	"
21	5/4	"	12.1	15.57	2.19	1.81	34		.6	10	0	1005A 1017A	"
22	6/1	Haig	11.9	12.27	1.62	1.51	20		.6	8	0	352P 406P	FC 38
23	6/9	"	12.6	17.1	1.62	1.66	28		.6	9	+.01	104P 120P	"
24	6/23	R. Lindsay	1.0	.16	.37	0.60	.06		.6	2	0	150P 152P	FC 28
25	6/29	"	11.9	12.67	1.78	1.56	22.		.6	10	-.05	310P 325P	"
26	8/4	Lindsay	12.4	19.4	2.62	2.11	51.		.6	9	0	315P 330P	FC 28
27	8/18	"	12.7	22.7	2.95	2.38	67.		.6	9	0	145P 158P	"

F. C. Dist. Form 92 100 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F100R

MAIN SPREADING CANAL at mouth of San Gabriel Canyon for the year ending September 30, 19 35

Daily discharge, in second-feet of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	12	48	15	1.3	27	20	24	50	0
2	0	0	0	12	47	.7	2.9	26	18	24	50	0
3	0	0	0	12	52	+	2.8	30	17	24	50	0
4	0	0	0	13	53	+	2.6	51	17	41	50	0
5	0	0	0	18	58	+	2.0	76	16	30	50	0
6	0	0	0	20	53	0	3.4	77	17	28	50	0
7	0	0	0	22	51	0	5.7	76	18	28	50	0
8	0	0	0	22	56	0	5.7	75	22	28	50	0
9	0	0	0	22	89	0	5.3	75	25	27	50	0
10	0	0	0	23	96	0	5.0	70	28	36	50	0
11	0	0	13	24	100	0	5.2	45	28	41	45	0
12	0	0	39	23	100	0	5.8	53	27	47	45	0
13	0	0	24	23	99	0	6.0	54	34	48	45	0
14	0	0	0	23	87	0	6.0	64	45	48	45	0
15	0	0	4.8	42	101	.2	5.9	64	48	47	45	0
16	0	0	0	42	101	.2	5.8	45	47	41	51	0
17	0	0	6	35	103	2.3	5.9	45	53	30	64	0
18	0	0	16	38	103	1.8	5.8	30	53	30	67	0
19	0	0	49	51	68	7.5	5.8	58	55	27	67	0
20	0	0	50	73	46	6	6.2	59	56	27	65	0
21	0	0	27	76	46	+	6.4	59	56	12	67	0
22	0	0	11	95	45	0	3.8	59	56	52	64	0
23	0	0	11	96	44	0	2.0	40	52	50	62	0
24	0	0	12	96	56	0	2.0	7.5	4	50	62	0
25	0	0	35	81	78	0	2.3	26	26	50	62	0
26	0	0	60	86	104	0	2.7	4.4	40	50	45.5	0
27	0	0	45	97	105	0	2.7	+	39	50	7.5	0
28	0	0	54	94	105	0	2.4	0	33	50	0	0
29	0	0	54	94	63	0	2.6	0	25	50	0	0
30	0	0	14	88		0	2.6	14.1	27	50	0	0
31	0	0	12	65		1.2	2.7		32	50	0	0.3
	0.1	0	490.8	1573	2058	37.0	1183.0	1302.7	972.4	1228	1345.8	0
Mean	+	0	15.8	50.7	73.5	1.19	39.4	42.0	32.4	39.6	43.4	0
Acre-Feet	.80	0	973	3120	4080	73	2350	2580	1930	2440	2670	27.9

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

Year or Period Mean 30.8 Acre-Feet 22280

F. C. Dist. Form 92 100 4-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F100R

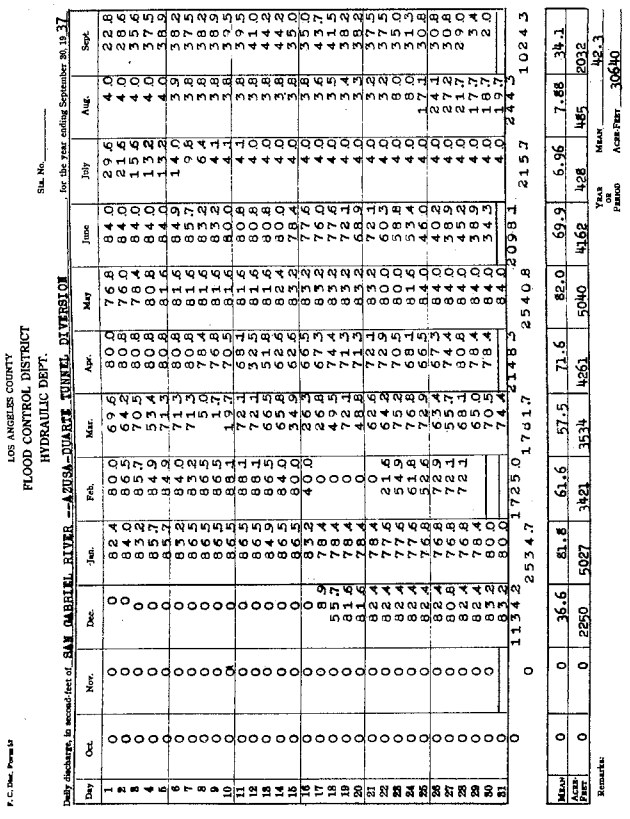
MAIN SPREADING CANAL at mouth of San Gabriel Canyon for the year ending September 30, 19 37

Daily discharge, in second-feet of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	45	45	80	79	79	54	16	0	0
2	0	16	0	46	46	71	80	78	55	11	0	0
3	0	42	0	46	46	83	83	77	55	7	0	0
4	0	38	0	48	46	74	83	74	53	5.5	0	0
5	0	35	0	49	46	83	82	74	50	5	0	0
6	0	35	0	46	46	82	82	74	51	4.6	0	0
7	0	30	0	49	46	83	82	72	51	0	0	0
8	0	24	0	50	46	83	80	67	51	0	0	0
9	0	29	0	49	46	83	79	66	51	0	0	0
10	0	14	0	46	49	83	74	66	47	0	0	0
11	0	15	0	46	47	94	67	66	47	0	0	0
12	0	18	0	45	49	95	47	69	46	0	0	0
13	0	10	0	45	49	86	47	69	46	0	0	0
14	0	5	0	46	46	86	47	66	47	0	0	0
15	0	0	0.4	46	46	79	69	66	47	0	0	0
16	0	0	10	45	46	62	72	66	48	0	0	0
17	0	0	13	42	24	68	61	61	48	0	0	0
18	0	0	33	42	29	72	74	58	47	0	0	0
19	0	0	40	42	32	88	76	53	47	0	0	0
20	1.2	0	41	42	31	74	80	48	46	0	0	0
21	0	0	42	42	32	81	83	48	46	0	0	0
22	0	0	43	42	46	81	85	47	38	0	0	0
23	0	0	45	42	46	80	86	47	33	0	0	0
24	0	0	45	42	46	80	85	48	31	0	0	0
25	0	0	45	42	65	80	83	55	24	0	0	0
26	0	0	45	42	81	72	82	58	18	0	0	0
27	0	0	49	42	80	72	41	53	17	0	0	0
28	0	0	53	42	80	78	74	53	21	0	0	0
29	0	0	49	42		72	79	53	20	0	0	0
30	0	0	49	42		72	80	53	19	0	0	0
31	0	0	47	43		74	80	53		0	0	0
	1.2	322	648.4	1376	1378	2324	2261	1917	1255	491	0	0
Mean	.04	1.05	20.5	44.4	49.2	75.0	75.4	61.8	41.8	15.8	0	0
Acre-Feet	2.4	64	1280	2730	2730	4610	4490	3800	2490	97	0	0

Remarks:

Year or Period Mean 30.8 Acre-Feet 22280



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. _____

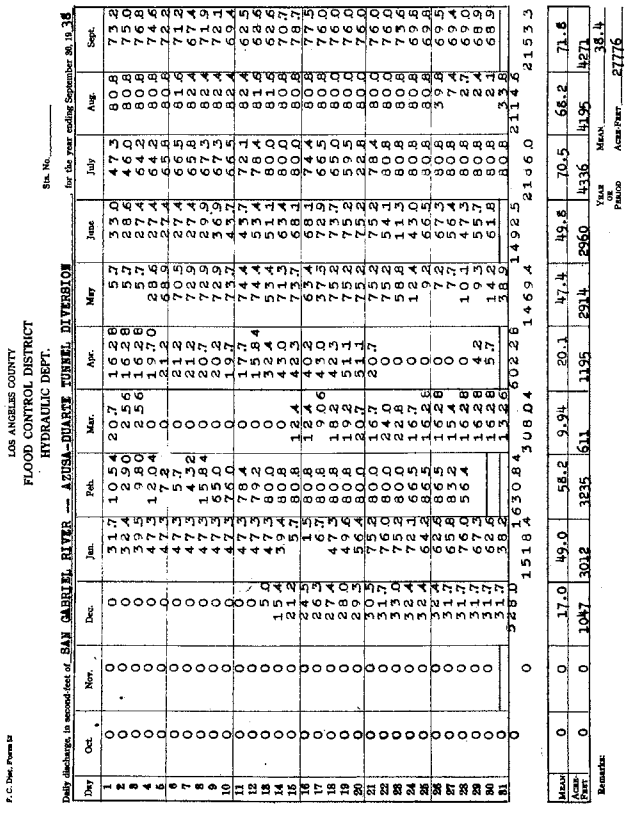
Daily discharge, in second-feet of SAN GABRIEL RIVER --AZUSA-DUARTE TUNNEL DIVERSION for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	824	800	695	800	768	840	296	40	228
2	0	0	0	824	800	642	808	760	840	215	40	286
3	0	0	0	824	857	705	808	784	840	156	40	356
4	0	0	0	857	849	534	808	808	840	132	40	375
5	0	0	0	857	849	713	808	816	840	132	40	382
6	0	0	0	832	840	713	808	816	849	140	39	382
7	0	0	0	865	865	713	808	816	857	96	38	375
8	0	0	0	865	865	501	784	816	832	64	38	382
9	0	0	0	865	865	197	760	816	832	44	38	382
10	0	0	0	865	881	197	705	816	808	44	38	395
11	0	0	0	865	881	721	681	816	808	44	38	410
12	0	0	0	849	865	721	825	816	808	44	38	442
13	0	0	0	865	865	665	816	816	808	44	38	442
14	0	0	0	865	840	649	665	832	784	44	38	350
15	0	0	0	865	840	649	665	832	776	44	36	437
16	0	0	0	832	400	268	673	832	776	40	36	415
17	0	0	0	784	0	268	673	832	776	40	36	382
18	0	0	0	784	0	495	713	832	721	40	34	382
19	0	0	0	784	0	721	713	832	721	40	34	382
20	0	0	0	784	0	488	689	832	689	40	34	382
21	0	0	0	784	0	624	729	832	721	40	32	375
22	0	0	0	776	216	649	665	800	603	40	32	375
23	0	0	0	776	549	752	705	800	584	40	30	350
24	0	0	0	776	618	760	681	816	534	40	30	313
25	0	0	0	776	526	729	665	840	460	40	30	308
26	0	0	0	768	721	634	657	840	402	40	171	308
27	0	0	0	768	721	551	713	840	352	40	241	290
28	0	0	0	768	721	650	784	840	352	40	217	290
29	0	0	0	784	721	705	784	840	343	40	167	314
30	0	0	0	832	721	784	784	840	343	40	167	20
31	0		0	800		784		840		40	197	
	0	0	1134.2	2534.7	17250	17d17	21485	25408	20981	2157	2443	10243
Mean	0	0	36.6	81.8	61.6	57.5	71.6	82.0	69.9	6.96	7.88	34.1
Acre-Feet	0	0	2250	5027	3421	3534	4261	5040	4162	428	485	2032

Year or Period Mean 42.3 Acre-Feet 30640

Remarks:

P.C. Dec. Form 1a



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. _____

Daily discharge, in second-feet of SAN GABRIEL RIVER --- AZUSA-DUARTE TUNNEL DIVERSION for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	317	1054	207	1628	57	330	473	808	732
2	0	0	0	324	2980	256	1628	57	286	460	808	750
3	0	0	0	395	1204	256	1628	57	274	642	808	768
4	0	0	0	473	732	0	1970	289	274	642	808	746
5	0	0	0	473	57	0	212	705	274	665	816	722
6	0	0	0	473	432	0	212	729	274	665	824	674
7	0	0	0	473	1584	0	207	729	299	673	824	719
8	0	0	0	473	650	0	202	729	367	673	824	704
9	0	0	0	473	650	0	177	737	437	681	824	625
10	0	0	0	473	784	0	177	744	437	721	824	625
11	0	0	0	473	792	0	1584	744	437	784	824	625
12	0	0	0	473	800	0	324	534	514	800	816	625
13	0	0	0	394	808	0	430	713	634	800	808	707
14	0	0	0	473	808	0	423	737	681	800	808	787
15	0	0	0	57	808	124	402	634	681	744	808	775
16	0	0	0	67	808	906	430	657	729	665	808	760
17	0	0	0	473	808	1822	423	657	737	665	808	760
18	0	0	0	496	808	1922	511	752	752	595	808	760
19	0	0	0	564	800	2027	207	752	752	784	808	760
20	0	0	0	752	800	167	0	752	752	784	808	760
21	0	0	0	317	760	2400	0	752	541	808	808	760
22	0	0	0	317	800	2248	0	584	113	808	808	760
23	0	0	0	324	752	1675	0	124	430	808	808	760
24	0	0	0	64	665	1626	0	0	665	808	808	693
25	0	0	0	324	665	1626	0	0	665	808	808	693
26	0	0	0	324	665	1626	0	0	665	808	808	693
27	0	0	0	317	665	1548	0	7	673	808	808	693
28	0	0	0	317	832	1628	0	101	473	808	808	691
29	0	0	0	317	673	1628	42	93	557	808	808	689
30	0	0	0	317	624	1628	57	142	618	808	824	689
31	0		0	317		1626		142		808	824	
	0	0	17.0	49.0	58.2	9.94	20.1	47.4	49.8	70.5	68.2	71.8
Mean	0	0	1047	3012	3235	611	1195	2914	2960	4336	4195	4271
Acre-Feet	0	0										

Year or Period Mean 38.4 Acre-Feet 27776

Remarks:

P.C. Dec. Form 1a

STATION F130R

MALIBU CREEK at Crater Camp

LOCATION:

At upper end of Malibu Gorge, about 1/4 mile downstream from Crater Camp in the Santa Monica Mountains.

DRAINAGE AREA:

103 square miles.

CHANNEL AND CONTROL:

Prior to the March 2, 1938 storm the channel was composed of soil and boulders; subsequent to the storm the channel was composed of coarse sand.
The banks below the high water line are covered with brush and trees which retard the velocity along the banks during high flows.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed January 17, 1931 in a box type house over an 18 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATIONS AND OR DIVERSIONS:

Lake Sherwood Dam, Lake Eleanor Dam, Malibu Lake Mountain Club Dam and Crags Dam.

RECORDS AVAILABLE:

January 17, 1931 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 2760 second-feet February 14.
Minimum no flow several days in October.
1937-1938
Maximum 10000 second-feet, estimated, March 2.
Minimum 0.2 second-foot various times.
1930-1938
Maximum 10000 second-feet, estimated, March 2, 1938.
Minimum no flow several times.

ACCURACY:

Poor.
Interpolated:
February 1-4, 17, 18, 22-25, March 4, 17-19, 1937.
Interpolated between measurements:
April 7 to June 2, July 1 to September 30, 1937; May 9 to September 30, 1938.
Estimated:
March 2-8, 1938.

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 1M 6-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 130 R

DISCHARGE MEASUREMENTS OF MALIBU CREEK

AT Crater Camp DURING THE YEAR ENDING SEPTEMBER 30, 1937

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Points Ref.	METH OD	MEAS SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/14	Bollinger	1.8	.09	.46	4.50	0.04		F1	2	0	228P	
2	10/18	Bollinger-Koch	8.0	3.17	.53	4.95	1.7		.6	5	-.02	824P 829P	FC 6
3	10/21	Bollinger	1.3	.25	1.24	4.58	0.31		F1	2	0	218P 221P	
4	11/12	"	1.7	.19	.74	4.58	0.14		F1	2	0	312P	
5	11/24	"	1.5	.26	.43	4.61	0.09		F1	2		235P	
6	12/15	Bollinger-Koch	2.0	.71	.39	4.74	0.28		.6	4	0	1035A 1042A	FC 6
7	12/27	" "	10.0	6.18	1.21	5.19	7.5		.6	5	0	140P 145P	"
8	12/31	" "	49.0	84.3	3.31	6.74	279		.6	6	-.04	850A 1005A	"
9	1/6	" "	29.	18.75	.73	5.30	14		.6	8	0	1056A 1101A	"
10	1/14	Bollinger	22.5	15.7	.93	5.31	15		.6	9	0	350P 400P	"
11	1/18	Bollinger-Lind	20.5	13.4	.66	5.18	8.8		.6	10	0	300P 310P	"
12	1/28	Bollinger	23.0	14.9	.36	5.08	5.4		.6	10	0	926A 948A	"
13	1/31	Bollinger-Koch	54.0	88.1	3.89	6.82	343		.6	10	-.03	220A 245A	"
14	2/4	Bollinger	34.0	27.9	1.18	5.54	33		.6	14	0	953A 1013A	"
15	2/6	Bollinger-Koch	53.0	369.4	6.24	10.68	2310		.6	7	+.21	425P 440P	"
16	2/8	Bollinger	44.0	80.2	2.18	6.14	175		.6	6	0	503P 524P	"
17	2/11	"	45.5	42.8	1.76	4.94	75		.6	17	0	1017A 1037A	"
18	2/14	Bollinger-Koch	63.0	469.	5.75	10.91	2720		.6	11	+.13	533A 558A	"
19	2/15	Bollinger	51.0	142.	3.28	7.51	467		.6	9	0	455P 512P	"
20	2/18	"	48.0	66.05	2.29	5.63	152		.6	9	-.03	1049A 1111A	"
21	2/25	"	44.5	35.2	1.76	4.75	62		.6	16	0	950A 1012A	"
22	3/4	"	22.	14.8	.77	4.37	11		.6	10	0	255P 307P	"
23	3/11	"	17.5	12.0	1.64	4.35	20		.6	10	0	429P 439P	"
24	3/13	Bollinger-Koch	49.0	79.05	2.42	5.86	192		6	10	-.02	1226P 1240P	"
25	3/16	Bollinger-Koch	41.0	123.9	3.94	7.43	488		.6	8	-.06	458A 511A	FC 6
26	3/19	Bollinger	46.5	39.8	2.03	4.93	81		.6	15	0	940A 955A	"
27	3/22	Bollinger-Koch	50.0	113.0	3.52	6.48	398		.6	10	-.03	259P 315P	"
28	3/26	Bollinger	46.5	50.7	2.11	5.18	107		.6	16	-.01	923A 941A	"
29	4/2	"	45.0	34.54	1.74	4.80	60		.6	17	0	910A 932A	"
30	4/8	"	23.5	16.35	2.07	4.56	34		.6	13	0	950A 1005A	"
31	4/15	"	28.0	22.35	.98	4.49	22		.6	11	0	920A 932A	"
32	4/22	"	19.5	13.33	1.04	4.39	14		.6	11	0	320P 332P	"
33	4/29	"	20.5	7.76	1.43	4.36	11		.6	10	0	200P 212P	"
34	5/6	"	16.5	6.58	1.32	4.30	8.7		.6	10	0	152P 204P	"
35	5/13	"	16.5	5.59	1.22		6.8		.6	10		500P 508P	"
36	5/20	"	15.5	6.70	.78		5.2		.6	9		1237P 1247P	"
37	5/27	"	14.7	5.90	.95		5.6		.6	9		308P 318P	"
38	6/3	"	6.2	3.72	1.20	4.26	4.5		.6	6	0	155P 200P	"
39	7/1	"	5.0	1.79	.74	4.16	1.3		.6	6	0	835A 842A	"
40	7/29	"	2.6	.53	.68	3.84	0.36		.6	3	0	451P 455P	"
41	8/26	"	1.6	.32	.56	4.06	0.18		.6	2	0	335P 338P	"
42	9/23	"	2.0	.38	.42	4.17	0.16		.6	3		330P 335P	"

F. C. D. FORM 104 1M 6-38

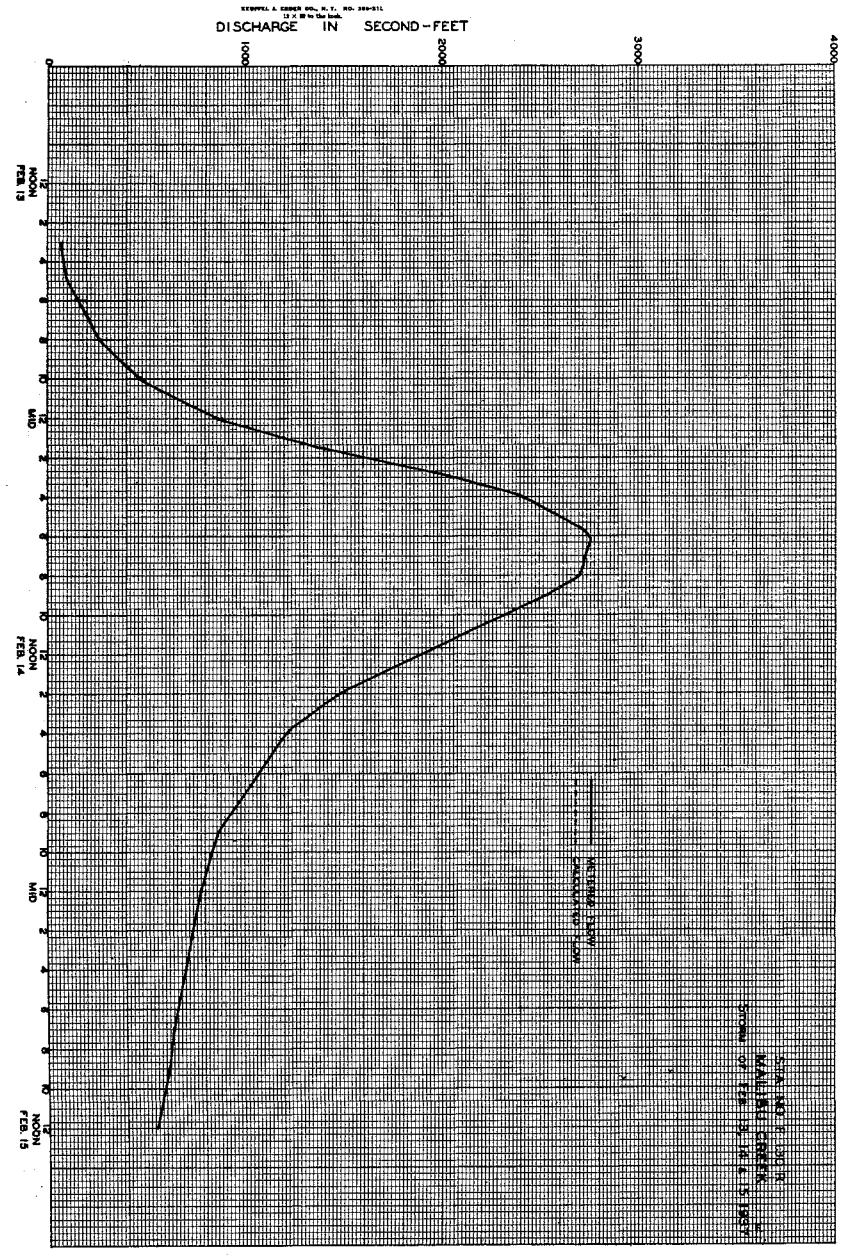
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 130 R

DISCHARGE MEASUREMENTS OF MALIBU CREEK

AT Crater Camp DURING THE YEAR ENDING SEPTEMBER 30, 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Points Ref.	METH OD	MEAS SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
43	10/6	Bollinger	2.0	.36	.51	4.18	0.18		F1	2		210P	
44	10/20	"	1.5	.26	.50	4.19	0.13		F1	2		145P 145P	
45	11/4	"	2.0	.38	.42	4.20	0.16		F1	2		333P 336P	
46	11/23	"	2.0	.38	.32	4.20	0.12		.6	2		1223P 1226P	FC 6
47	12/11	Bollinger-Koch	5.0	1.50	.61	4.34	0.90		.6	4		820P 826P	"
48	12/23	Bollinger	4.3	.82	.73	4.35	0.60		.6	5	0	227P 234P	"
49	1/5	"	2.8	.48	.81	4.32	0.39		.6	4		1048A 1053A	"
50	1/19	"	3.0	.53	.77	4.32	0.41		.6	4		149P 154P	"
51	2/1	Bollinger-Koch	47.5	60.2	2.38	5.79	143		.6	7	-.04	1108A 1124A	"
52	2/3	" "	42.0	86.45	3.14	6.28	271		.6	7	+.11	350P 402P	"
53	2/3	" "	42.0	82.25	3.19	6.26	262		.6	7	-.05	444P 450P	"
54	2/4	" "	44.5	31.30	2.03	5.14	63		.6	12	-.02	208P 218P	"
55	2/9	" "	43.5	26.34	1.56	4.90	41		.6	13	-.03	154P 207P	"
56	2/11	" "	45.0	131.2	3.99	7.25	524		.6	7	-.08	843P 907P	"
57	2/15	Bollinger	28.0	22.70	1.67	4.96	38		.6	11	0	315P 327P	"
58	2/23	"	15.0	8.33	1.60	4.71	13		.6	9	0	107P 116P	"
59	2/27	Bollinger-Koch	16.0	10.25	2.05	4.79	21		.6	8	+.01	409P 416P	"
60	2/28	" "	41.0	91.75	3.84	6.73	353		.6	8	+.05	343P 400P	"
61	3/1	" "	56.0	233.8	5.14	8.40	1200		.6	8	-.10	957A 1017A	"
62	3/5	Bollinger	50.0	87.05	3.48	6.37	303		.6	7		305P 330P	"
63	3/9	"	46.0	47.76	2.45	4.87	117		.6	14	0	215P 230P	"
64	3/17	"	45.0	55.07	2.39	4.94	131		.6	16	0	300P 325P	"
65	3/25	"	39.0	43.58	1.28	4.51	56		.6	13	0	938A 953A	"
66	3/28	Frickett and Bollinger	38.0	41.76	1.29	4.46	54		.6	12	0	347P 400P	"
67	4/7	Bollinger	29.3	38.7	.54	4.24	21		.6	12	0	332P 345P	FC 6
68	4/14	"	33.0	25.66	.70	4.20	18		.6	10		309P 319P	"
69	4/28	"	17.0	8.13	1.61	4.00	13		.6	10	0	1055A 1105A	"
70	5/11	"	14.0	6.08	1.33		8.1		.6	7		252P 301P	"
71	5/19	"	13.5	5.82	1.29		7.5		.6	7		225P 233P	"
72	6/9	"	11.2	6.00	.69		4.1		.6	7		245P 255P	"
73	7/7	"	10.5	3.93	.58		2.3		.6	7		225P 234P	"
74	7/28	"	9.0	2.80	.33		0.90		.6	6		215P 222P	"
75	9/1	"	3.5	1.11	.45		0.50		F1	3		225P 230P	
76	9/8	Bollinger-Wood	7.5	2.11	.23		0.50		.6	6		156P 200P	FC 6



F. C. Dist. Form 52 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F130R

Daily discharge, in second-feet of MALIBU CREEK at Crater Camp, for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.1	76	148	32	62	9	5	1.3		
2	0.1	0.1	0.1	39	103	43	48	7	4.5			
3	0.1	0.1	0.1	26	65	31	35	6.5	4.5			
4	0.1	0.1	0.1	22	34	13	40	9.5	4.1			
5	0.1	0.1	0.1	17	28	11	38	10	4.1			
6	+	0.1	0.1	14	1280	13	38	8.5	3.8	Estimated mean (7-2 to 7-28)= 0.9 c.f.s.		
7	0	0.1	0.1	11	686	14	36	8.5	3.4			
8	0	0.1	0.1	8.5	196	16	34	8	3.0			
9	+	0.1	0.1	7.5	118	18	31	8	3.0			
10	0	0.1	0.1	7	92	18	30	7.5	3.4		Estimated mean (7-30 to 8-25)= 0.3 c.f.s.	
11	0	0.1	0.1	7	74	20	28	7.5	2.6			
12	0	0.2	0.1	12	68	20	26	7	2.6			
13	0	0.2	0.2	18	152	131	26	7	2.2			
14	+	0.2	0.3	14	1680	60	23	6.5	2.2			
15	0.1	0.2	1.6	10	568	173	21	6.5	1.9			
16	0.1	0.1	0.8	11	354	416	20	6	1.9			
17	0.2	0.1	0.1	8.5	244	244	18	6	3.0			
18	7.5	0.1	0.1	8.5	151	159	18	5.5	2.6			
19	0.8	0.1	0.1	8	114	90	16	5.5	2.6			
20	0.6	0.1	0.1	8	104	74	15	5	2.6			
21	0.3	0.1	+	7	1105	70	14	5.5	2.6			
22	0.3	0.1	0.1	7	94	259	14	5.5	2.6			
23	0.3	0.1	0.1	6.5	83	209	14	5.5	2.6			
24	0.2	0.1	0.1	6	72	167	12	5.5	2.2			
25	0.2	0.1	0.1	6	60	173	12	5.5	2.2			
26	0.2	0.2	0.1	6	53	108	12	5.5	1.9		0.2	
27	0.2	0.2	30	6	44	93	12	5.5	1.9			
28	0.1	0.2	27	6.5	29	71	11	5.5	1.5			
29	0.2	0.1	19	16		68	11	5.5	1.5	0.4		
30	0.2	0.1	59	97		72	10	5	1.2			Est. mean (8-27 to 9-22)= 0.2 c.f.s.
31	0.2		347	262		64		5				Est. mean (9-24 to 9-30)= 0.2
	122	37	487.0	759.0	6799	2950	725	204.5	83.2	26.6	8.7	6.0
Mean	.39	.12	15.7	24.5	243	95.2	24.2	6.60	2.77	.86	.28	.20
Acre-Feet	24	7.3	966	1510	13490	5850	1440	406	165	53	17	12

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

Year or Period Mean 33.1
Acre-Feet 23940

F. C. Dist. Form 52 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

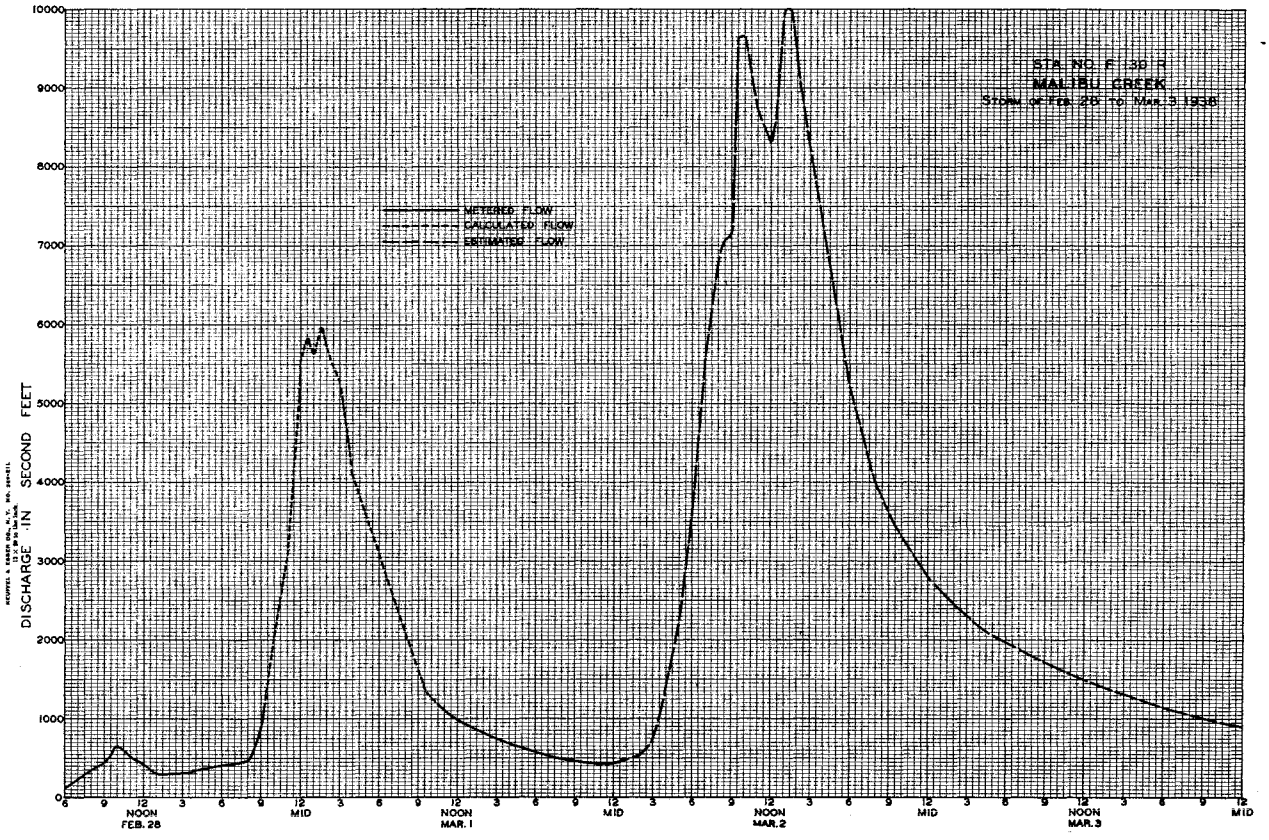
Sta. No. F130R

Daily discharge, in second-feet of MALIBU CREEK at Crater Camp, for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.2	0.5	146	1960	27	11	5	2.6	0.8	0.5
2	0.2	0.2	0.2	0.5	38	5090	25	11	5	2.5	0.8	0.5
3	0.2	0.2	0.3	0.5	100	1600	26	10	5	2.5	0.8	0.5
4	0.2	0.2	0.3	0.4	86	609	24	10	4.7	2.4	0.8	0.5
5	0.2	0.2	0.3	0.4	32	330	24	9	4.6	2.4	0.8	0.5
6	0.2	0.2	0.3	0.4	26	250	22	9	4.5	2.3	0.8	0.5
7	0.2	0.2	0.3	0.4	25	190	21	9	4.4	2.3	0.8	0.5
8	0.2	0.2	0.3	0.4	25	150	19	9	4.3	2.2	0.7	0.5
9	0.2	0.2	0.3	0.4	37	123	18	8.5	4.1	2.1	0.7	0.5
10	0.2	0.2	0.3	0.4	28	98	20	8	4.0	2.0	0.7	0.5
11	0.2	0.2	0.7	0.4	300	103	19	8	3.9	1.9	0.7	0.5
12	0.2	0.2	0.6	0.4	185	835	19	8	3.8	1.8	0.7	0.5
13	0.2	0.2	0.6	0.4	61	809	19	8	3.7	1.8	0.7	0.5
14	0.2	0.2	0.6	0.4	42	509	18	8	3.7	1.7	0.7	0.5
15	0.2	0.2	0.6	0.4	39	299	18	7.5	3.6	1.6	0.7	0.5
16	0.2	0.2	0.5	0.4	29	190	18	7.5	3.5	1.5	0.7	0.5
17	0.2	0.2	0.5	0.4	23	135	16	7.5	3.5	1.5	0.6	0.4
18	0.2	0.2	0.5	0.4	22	109	15	7.5	3.4	1.4	0.6	0.4
19	0.2	0.2	0.5	0.4	30	96	13	7.5	3.3	1.4	0.6	0.4
20	0.2	0.2	0.5	0.4	13	87	13	7.5	3.3	1.3	0.6	0.4
21	0.2	0.2	0.5	0.3	11	77	14	7	3.2	1.2	0.6	0.4
22	0.2	0.2	0.4	0.3	12	66	14	7	3.1	1.2	0.6	0.4
23	0.2	0.2	0.6	0.3	12	60	14	7	3.1	1.1	0.6	0.4
24	0.2	0.2	0.6	0.2	12	56	13	6.5	3.0	1.1	0.6	0.4
25	0.2	0.2	0.6	0.2	12	56	13	6.5	2.9	1.0	0.5	0.4
26	0.2	0.2	0.7	0.2	12	55	13	6	2.9	1.0	0.5	0.4
27	0.2	0.2	0.7	0.2	19	53	12	6	2.8	0.9	0.5	0.4
28	0.2	0.2	0.7	0.3	612	55	12	6	2.8	0.9	0.5	0.4
29	0.2	0.2	0.6	0.3		57	12	5.5	2.7	0.9	0.5	0.4
30	0.2	0.2	0.6	0.2		56	11	5.5	2.7	0.9	0.5	0.4
31	0.2		0.6	0.3		41		5		0.9	0.5	
	6.2	6.0	14.9	11.2	1989	14204	522	239.5	110.5	50.3	20.1	13.6
Mean	.20	.20	.48	.36	71.0	458	17.4	7.73	3.68	1.62	.65	.45
Acre-Feet	12	12	30	22	3950	28170	1040	475	219	100	40	27

Remarks:

Year or Period Mean 47.1
Acre-Feet 34100



STATION F22R

MONROVIA CREEK 200 ft. above junction with Sawpit Creek

LOCATION:

On south (right) bank of creek, in Monrovia Canyon, 150 feet above junction with Sawpit Creek, and about 2 1/2 miles north of Monrovia.

DRAINAGE AREA:

1.9 square miles.

CHANNEL AND CONTROL:

Channel - Rock and gravel.
Control - Prior to November 4, 1936, concrete with a 2 foot Cippoletti weir in the center.
The amount of sand in the pool above the control varied resulting in an unstable stage-discharge relation.
On November 4, 1936 the south end of the control was removed down to the bottom of the Cippoletti weir. In June, 1937 the north end of the control was removed down to the bottom of the Cippoletti weir and a bulkhead was constructed forming an auxiliary stilling box in front of the stilling well.
The bulkhead was washed out and the control was buried about 3 1/2 feet with rocks and gravel by the March 2, 1938 storm.

DISCHARGE MEASUREMENTS:

At low flow by wading near gage.
At high flow from foot bridge at station.
The footbridge was washed out during the March 2, 1938 storm.

RECORDER:

Installed November 10, 1927 in F. C. Standard house over 4 ft. x 3 ft. concrete stilling well.
An continuous recorder in service from October 1, 1936 to September 30, 1938.

REGULATION:

None.

DIVERSIONS:

Monrovia pipe line diverts water above gage.

RECORDS AVAILABLE:

November 10, 1927 to September 30, 1938.

EXTREMES OF DISCHARGE

1936-37
Maximum 81 second-feet December 27.
Minimum no flow several times during October.
1937-38
Maximum not determined.
Minimum + at various times.
1927-37
Maximum 109 second-feet April 8, 1935.
Minimum no flow at times several years.

ACCURACY:

Poor.
Interpolated between discharge measurements June 29, to September 30, 1937.
Estimated: December 21-23, 1937; February 10, March 2-9, 1938.
Clock stopped: April 14-18, July 28 to August 11, 1938.
Interpolated, August 17-24, 1938.

OPERATION:

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

C. D. FORM 104 1M 8-35

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, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Dif.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
3	10/18	Lindsay-Cole	2.2	.13	2.15	.62	.28		.6	4	0	955P 1000P	FC 28
6	10/29	Lindsay	1.1	0.7	.43	.55	.03		.6	2	0	1016A 1019A	"
7	10/29	Lindsay and McArthur	3.3	1.58	2.84	.58	4.5		.6	3	0	840P 845P	"
8	10/30	Lindsay	1.0	.08	1.00	.40	.08		.6	2	0	910A 915A	"
9	10/31	Lindsay and McArthur	2.0	.33	2.64	.56	.85		.6	3	0	653A 700A	"
10	11/4	" "	1.0	.14	2.00	.42	.28		.6	2	0	902A 904A	"
11	11/4	" "	1.1	.10	.80	.22	.08		.6	2	0	256P 258P	"
12	11/5	Lindsay	1.7	.13	.85	.21	.11		.6	4	0	240P 243P	"
13	11/12	Lindsay and Patterson	1.1	.13	1.15	.30	.15		.6	2	0	817A 822A	"
14	11/19	Lindsay	1.10	.13	1.00	.28	.13		.6	2	0	1131A 1134A	"
15	11/25	"	1.10	.13	1.08	.26	.14		.6	2	0	1005A 1007A	"
16	12/3	"	1.3	.10	.50	.22	.05		.6	2	0	845A 847A	"
17	12/10	"	0.5	.05	1.40	.22	.07		.6	1	0	836A 837A	"
18	12/15	Lindsay and McArthur	6.0	1.01	2.32	.70	2.3		.6	5	-.08	438P 448P	"
19	12/15	" "	8.0	2.58	3.45	.77	8.9		.6	6	+.03	752P 800P	"
20	12/15	" "	8.0	1.57	4.95	.68	7.8		.6	5	+.01	1010P 1016P	"
21	12/16	" "	4.0	.28	2.72	.45	.75		.6	4	0	1257P 100P	"
22	12/17	Lindsay	3.1	.23	2.22	.38	.50		.6	5	0	950A 956A	"
23	12/23	"	1.7	.13	.85	.34	.11		.6	3	0	1220P 1223P	"
24	12/27	Lindsay and McArthur	9.5	4.83	6.43	1.07	31.		.6	6	+.02	745A 750A	"
25	12/27	" "	10.0	1.54	3.61	.57	5.5		.6	5	+.03	1213P 1218P	"
26	12/27	" "	9.5	1.64	3.82	.55	6.5		.6	5	0	850P 855P	"
27	12/28	" "	10.0	2.46	4.30	.77	11.		.6	6	0	120A 130A	"
28	12/29	Lindsay	4.0	.40	2.87	.45	1.2		.6	4	0	925A 930A	FC 28
29	12/30	"	4.0	.55	2.38	.46	.85		.6	4	0	220P 225P	"
30	12/30	Lindsay and McArthur	10.5	2.94	4.96	.77	15.		.6	5	-.06	845P 855P	"
31	12/31	" "	6.6	1.64	4.71	.63	7.5		.6	6	-.04	810A 820A	"
32	1/5	" "	5.0	.55	1.42	.39	.80		.6	5	-.02	845P 851P	"
33	1/6	" "	4.2	.37	1.62	.35	.60		.6	4	0	1150A 1155A	"
34	1/12	" "	3.2	.35	.96	.28	.30		.6	4	0	1256P 100P	"
35	1/14	Lindsay	1.5	.16	.91	.26	.13		.6	3	0	207P 210P	"
36	1/20	"	1.8	.16	.75	.25	.12		.6	4	0	258P 301P	"
37	1/28	"	1.6	.13	.77	.26	.10		.6	4	0	233P 236P	"
38	1/30	"	3.6	.39	1.15	.38	.45		.6	4	0	204P 208P	"
39	1/31	"	4.7	.50	1.86	.40	.95		.6	4	0	1214P 1220P	"
40	2/4	"	2.5	.42	1.48	.31	.60		.6	4	0	225P 229P	"
41	2/6	"	3.3	.75	1.26	.34	.93		.6	5	+.01	656A 702A	"
42	2/6	Lindsay and McArthur	9.5	2.19	3.70	.73	8.1		.6	7	0	1020A 1026A	"
43	2/6	" "	10.5	3.25	4.02	.89	13.		.6	7	0	233P 240P	"
44	2/6	" "	10.0	5.59	5.38	1.07	30.		.6	6	-.12	635P 644P	"
45	2/6	" "	10.5	5.25	3.37	.88	18.		.6	7	-.05	935P 945P	"
46	2/7	" "	9.5	2.50	3.87	.70	9.7		.6	6	0	830A 835A	"
47	2/8	" "	6.0	1.39	2.71	.41	3.8		.6	6	+.01	445P 452P	"
48	2/11	Cole	5.0	1.06	1.21	.34	1.3		.6	5	+.01	215P 225P	FC 7
49	2/14	Lindsay and McArthur	10.5	4.75	3.80	.76	18.		.6	6	-.01	1220A 1230A	FC 28
50	2/14	" "	10.0	4.89	3.32	.80	16.		.6	6	0	750A 755A	"
51	2/14	" "	10.0	3.13	4.80	.67	15.		.6	6	0	240P 248P	"
52	2/16	Lindsay and McArthur	9.0	2.38	1.83	.46	4.4		.6	7	+.01	150P 200P	FC 28
53	2/18	Cole	4.6	1.88	1.49	.40	2.8		.6	6	0	245P 252P	FC 36
54	2/24	Lindsay	7.7	1.76	1.19	.37	2.1		.6	6	+.01	807P 815P	FC 28
55	2/26	Cole	4.6	.82	.93	.26	.75		.6	5	0	230P 237P	FC 36
56	3/4	Lindsay	3.0	.35	.83	.23	.29		.6	4	0	424P 428P	FC 28
57	3/11	"	3.2	.59	1.16	.31	.70		.6	5	0	837A 848A	"
58	3/12	Lindsay and McArthur	3.8	.82	1.22	.34	1.0		.6	5	0	925A 931A	"
59	3/13	" "	9.5	3.23	2.19	.65	7.1		.6	5	0	710A 715A	"
60	3/15	" "	10.0	4.22	2.87	.64	12.		.6	6	-.01	740P 758P	"
61	3/16	" "	8.0	1.87	1.26	.41	2.4		.6	6	-.01	240P 247P	"
62	3/18	Cole	4.8	1.84	1.14	.36	2.1		.6	5	-.01	220P 230P	FC 1
63	3/22	Lindsay and McArthur	7.0	1.71	1.34	.39	2.3		.6	6	0	917A 924A	FC 28
64	3/25	Cole	4.8	1.77	1.30	.36	2.3		.6	5	0	225P 238P	FC 36
65	4/1	Lindsay	2.5	.42	1.28	.26	.55		.6	4	0	811A 816A	FC 28
66	4/8	"	2.7	.39	1.05	.22	.41		.6	4	0	752A 758A	"
67	4/15	"	3.2	.56	.93	.25	.50		.6	4	0	1045A 1052A	"
68	4/22	"	3.1	.48	.88	.25	.42		.6	5	0	100P 108P	"
69	4/29	"	3.0	.50	.80	.24	.40		.6	4	0	112P 116P	"
70	5/6	"	3.0	.59	.63	.23	.37		.6	4	0	1112A 1117A	"
71	5/13	"	2.9	.49	.57	.21	.28		.6	4	0	324P 329P	"
72	5/20	"	1.2	.18	.94	.19	.17		.6	3	0	144P 148P	"
73	5/27	"	1.2	.23	1.00	.22	.23		.6	2	0	1222P 1225P	"
74	6/3	"	3.0	.49	.72	.26	.35		.6	4	0	248P 253P	"
75	6/10	"	2.4	.31	.61	.20	.19		.6	4	0	1017A 1021A	"
76	6/17	Lindsay	2.2	.24	.58	.20	.14		.6	4	0	158P 230P	FC 28
77	6/24	Lindsay and Thompson	2.1	.24	.50	.20	.12		.6	4	0	1245P 1251P	"
78	7/1	Lindsay	2.3	.28	.72	.22	.20		.6	4	0	1107A 1113A	"
79	7/8	"	2.2	.19	.53	.21	.10		.6	4	0	1128A 1133A	"
80	7/15	"	2.0	.14	.64	.21	.09		.6	4	0	233P 238P	"
81	7/22	"	2.0	.15	.53	.23	.08		.6	4	0	148P 153P	"
82	7/29	"	2.0	.16	.75	.23	.12		.6	4	0	1137A 1142A	"
83	8/5	"	1.8	.14	.57	.21	.08		.6	4	0	1103A 1107A	"
84	8/12	"	1.0	.06	.50	.19	.03		.6	3	0	1147A 1151A	"
85	8/18	"	1.0	.07	.43	.18	.03		.6	3	0	1122A 1126A	"

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, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Dif.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
86	10/14	Lindsay	0.5	0.04	0.75	0.18	.03		.6	1	0	853A 855A	FC 28
87A	10/28	"	0.5	0.07	0.71	0.20	.05		.6	1	0	832A 834A	"
87	11/4	"	0.5	0.07	0.71	0.14	.05		.6	1	0	843A 846A	"
88	11/10	"	0.5	0.07	0.71	0.16	.05		.6	1	0	858A 900A	"
89	12/2	"	0.5	0.06	0.83	0.14	.05		.6	1	0	925A 928A	"
90	12/9	"	0.5	0.05	0.80	0.18	.04		.6	1	0	850A 852A	"
91	12/10	"	2.7	0.42	0.60	0.23	.25		.6	5	0	303P 309P	"
92	12/11	Lindsay and Ingram	6.7	3.14	2.23	0.58	7.0		.6	6	0	520P 527P	"
93	12/11	" "	6.6	1.65	1.14	0.40	1.9		.6	6	0	1137P 1144P	"
94	12/13	Lindsay	3.6	0.63	0.92	0.28	.60		.6	7	0	1040A 1048A	"
95	12/16	"	3.5	0.58	0.86	0.28	.50		.6	7	0	906A 914A	"
96	12/23	Lindsay and Ingram	2.5	0.50	0.52	0.26	.26		.6	4	0	735A 740A	"
97	12/30	Lindsay and Thompson	2.0	0.24	0.50	0.22	.12		.6	4	0	920A 925A	"

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 22 R

DISCHARGE MEASUREMENTS OF MONROVIA CREEK

~~X~~ 200 ft. above junction with Sawpit Cr. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent age	METH OD	NEAR. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												110P	
98	1/6	Lindsay	1.9	0.22	0.45	0.23	.10		.6	4	0	114P	"
												934A	
99	1/13	"	1.8	0.20	0.45	0.23	.09		.6	4	0	938A	"
		Lindsay and										1145A	
100	1/15	Ingram	5.0	1.53	1.63	0.39	2.6		.6	5	-.02	1151A	"
												848A	
101	1/20	Lindsay	2.7	0.36	0.94	0.24	.34		.6	4	0	854A	"
												1034A	
102	1/27	"	1.3	0.13	0.69	0.20	.09		.6	3	0	1037A	"
		Lindsay and										1020A	
103	2/1	Ingram	6.5	0.95	1.15	0.32	1.1		.6	6	0	1027A	"
												810A	
104	2/3	" "	6.4	0.87	0.96	0.29	.85		.6	5	0	816A	"
		Lindsay and										742P	
105	2/3	Ingram	7.2	6.89	5.29	1.08	36.		.6	6	-.01	751P	"
												936P	
106	2/3	" "	7.0	4.41	3.56	0.70	16.		.6	6	-.01	942P	"
		Lindsay and										150P	
107	2/5	Thompson	6.8	1.57	1.08	0.28	1.7		.6	7	0	200P	"
		Lindsay and										337P	
108	2/9	Ingram	6.2	0.97	1.88	0.30	1.8		.6	6	-.01	342P	"
		Lindsay and										1143A	
109	2/11	Ingram	6.7	1.66	3.39	0.44	5.6		.6	5	0	1147A	FC 28
												416P	
110	2/11	" "	6.7	1.90	2.89	0.44	5.6		.6	5	-.04	425P	"
												952A	
111	2/16	Lindsay	6.3	0.85	0.99	0.24	.85		.6	6	0	1000A	"
												902A	
112	2/24	"	4.0	0.48	0.88	0.22	.42		.6	4	0	908A	"
		Lindsay and										519P	
113	2/27	Ingram	6.2	1.08	0.96	0.26	1.0		.6	5	0	527P	"
												1147A	
114	2/28	" "	7.2	6.98	5.93	1.15	42.		.6	5	0	1149A	"
												312P	
115	2/28	" "	8.0	9.06	4.84	1.14	44.		.6	6	+.02	320P	"
												548P	
116	2/28	" "	7.5	4.77	5.68	0.88	27.		.6	6	0	555P	"
												802A	
117	3/1	" "	9.0	3.76	8.84	1.12	33.		.6	5	-.01	806A	"
												1034A	
118	3/1	Haig-Baustian	8.0	4.08	5.22	1.00	23.		.6	7	0	1046A	FC 38
		Lindsay and										715P	
119	3/1	Ingram	9.5	2.54	8.05	0.82	20.		.6	6	-.01	728P	FC 28
												512P	
120	3/4	" "	8.5	5.85	3.55		21.		.6	6		520P	"
												255P	
121	3/8	" "	8.9	3.44	2.47		8.5		.6	6		302P	"
												315P	
122	3/9	" "	7.7	3.19	1.94	3.91	6.0		.6	6	0	325P	"
												114P	
123	3/12	" "	10.0	3.91	2.16	4.10	8.3		.6	7	0	120P	"
												943A	
124	3/16	Lindsay	9.0	2.98	1.54	4.01	4.6		.6	7	0	952A	"
												1003A	
125	3/23	"	10.0	2.99	1.21	3.94	3.6		.6	7	0	1013A	"
												332P	
126	3/25	"	5.8	2.42	1.57	3.93	3.8		.6	6	0	342P	"
												227P	
127	3/30	"	6.0	2.52	1.33	3.91	3.4		.6	5	0	235P	"
												1008A	
128	4/6	Haig-Lindsay	6.1	2.48	1.15	3.92	2.9		.6	6	0	1013A	"
												200P	
129	4/8	Haig	5.7	2.62	1.18	3.90	3.1		.6	7	0	211P	FC 1
												912A	
130	4/11	"	5.8	2.70	1.19	3.90	3.2		.6	7	0	921A	"
		Lindsay and										1115A	
131	4/14	Ingram	6.3	2.59	0.96	3.91	2.5		.6	6	0	1122A	FC 28
												902A	
132	4/18	Haig	5.8	2.62	0.95	3.95	2.5		.6	7	0	913A	FC 1
												230P	
133	4/21	Haig	5.8	2.67	1.09	3.94	2.9		.6	7	0	238P	FC 38
												915A	
134	4/28	Lindsay	6.1	2.33	1.02	3.94	2.4		.6	7	0	925A	FC 28
												815A	
135	5/2	"	6.3	2.32	1.09	3.97	2.5		.6	7	0	823A	"
												903A	
136	5/5	"	6.0	2.24	0.99	3.96	2.2		.6	7	0	910A	"
												420P	
137	5/12	Haig	5.6	2.25	0.98	3.95	2.2		.6	6	0	430P	FC 38
												348P	
138	5/18	"	5.5	2.32	0.99	3.96	2.3		.6	6	0	354P	"
												358P	
139	5/25	"	6.0	2.06	0.84	3.93	1.7		.6	6	0	406P	"
												446P	
140	6/1	"	5.3	1.35	0.60	3.84	.80		.6	5	0	452P	"
												1000A	
141	6/16	Lindsay	5.0	1.03	0.60	3.82	.60		.6	5	0	1007A	FC 28
												858A	
142	6/30	"	5.0	1.09	0.51	3.81	.55		.6	6	0	905A	"
												206P	
143	7/8	Haig	5.0	1.29	0.46	3.79	.60		.6	5	0	210P	FC 38
												220P	
144	7/14	Lindsay	5.0	0.78	0.51	3.79	.40		.6	5	0	226P	FC 28
												1335	
145	7/28	"	1.9	0.49	0.53	3.80	.26		.6	4	0	135P	"
												1225P	
146	8/11	"	1.9	0.56	0.54	3.77	.30		.6	4	0	1229P	"
												753A	
147	8/24	"	1.9	0.60	0.60	3.77	0.36		.6	4	0	758A	"
												445P	
148	9/7	Brewster	1.5	0.48	0.54	3.76	.26		.6	3	0	449P	FC 8
												250P	
149	9/16	Lindsay	1.8	0.49	0.31	3.75	.15		.6	4	0	254P	FC 28

F. C. Dist. Form 23 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F22R

Daily discharge, in second-feet of MONROVIA CREEK 200 ft. above junction with Sawpit Cr. for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.5	0.1	3.5	0.8	0.6	0.3	0.4	0.3	0.2	0.1	+
2	+	0.3	0.1	2.0	0.8	0.6	0.3	0.3	0.2	0.2	0.1	+
3	+	0.2	0.1	0.8	0.6	0.5	0.3	0.3	0.2	0.2	0.1	+
4	+	0.2	0.1	0.4	0.6	0.3	0.3	0.3	0.2	0.2	0.1	+
5	+	0.2	0.1	0.3	0.6	0.3	0.3	0.3	0.2	0.2	0.1	+
6	+	0.2	0.1	0.3	1.8	0.3	0.3	0.4	0.2	0.2	0.1	+
7	0	0.2	0.1	0.2	1.8	0.2	0.4	0.4	0.2	0.2	0.1	+
8	0	0.2	0.1	0.2	0.9	0.2	0.4	0.4	0.2	0.2	0.1	+
9	0	0.2	0.1	0.2	0.4	0.2	0.4	0.4	0.2	0.2	0.1	+
10	0	0.2	0.1	0.2	0.4	0.2	0.4	0.3	0.2	0.2	0.1	+
11	0	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
12	0	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
13	0	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
14	0	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
15	0	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
16	+	0.2	0.3	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
17	0	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
18	+	0.3	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
19	+	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
20	+	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
21	+	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
22	+	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
23	+	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
24	+	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
25	+	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
26	+	0.2	0.1	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
27	+	0.2	1.2	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
28	+	0.2	4.3	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
29	+	0.2	0.8	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
30	+	0.2	5.5	0.2	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
31	+	0.2	3.9	1.1	0.3	0.2	0.4	0.3	0.2	0.2	0.1	+
Mean	2.5	0.8	3.9	15.1	87.6	44.8	15.8	8.7	5.5	3.5	.8	
Acre-Feet	5	17	79	30	174	89	31	17	11	7.0	1.6	629

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

Year or Period Mean 1.98 Acre-Feet 1430

F. C. Dist. Form 23 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

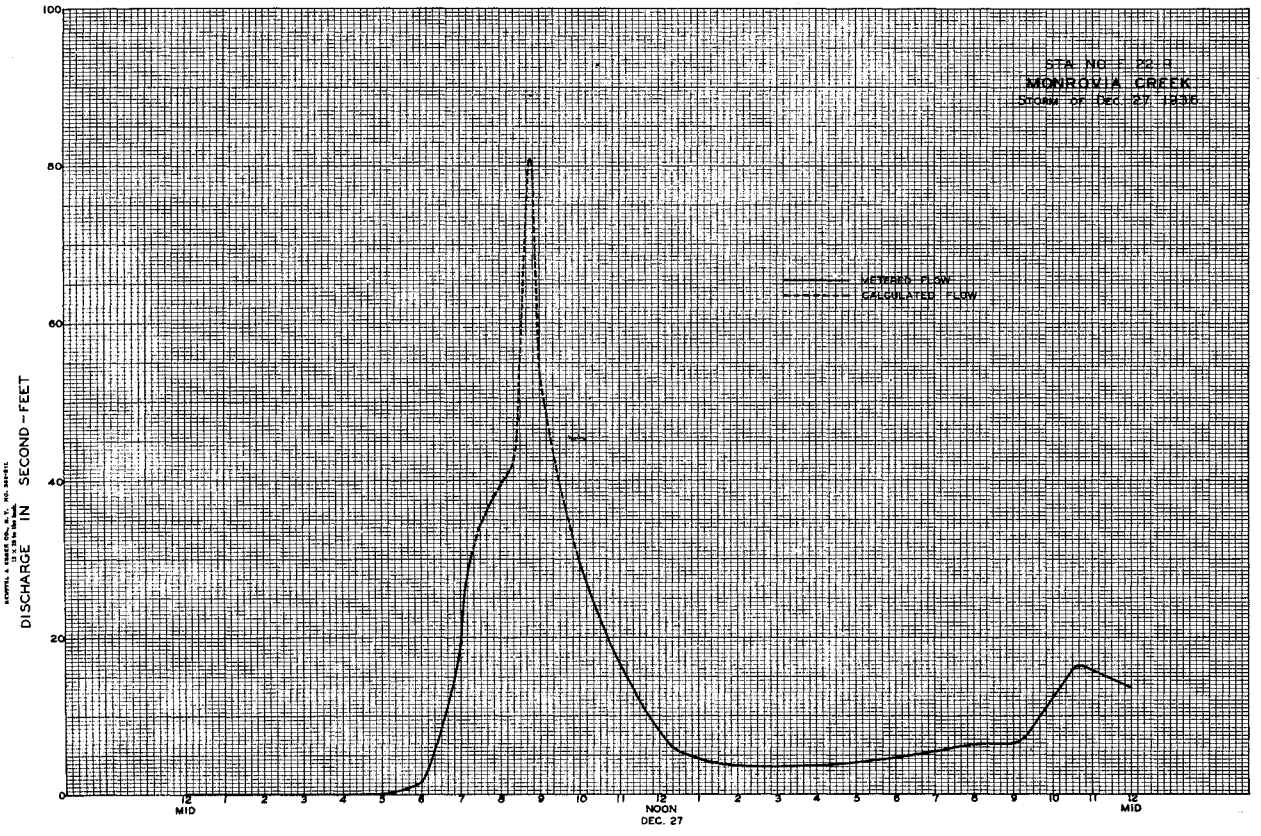
Sta. No. F22R

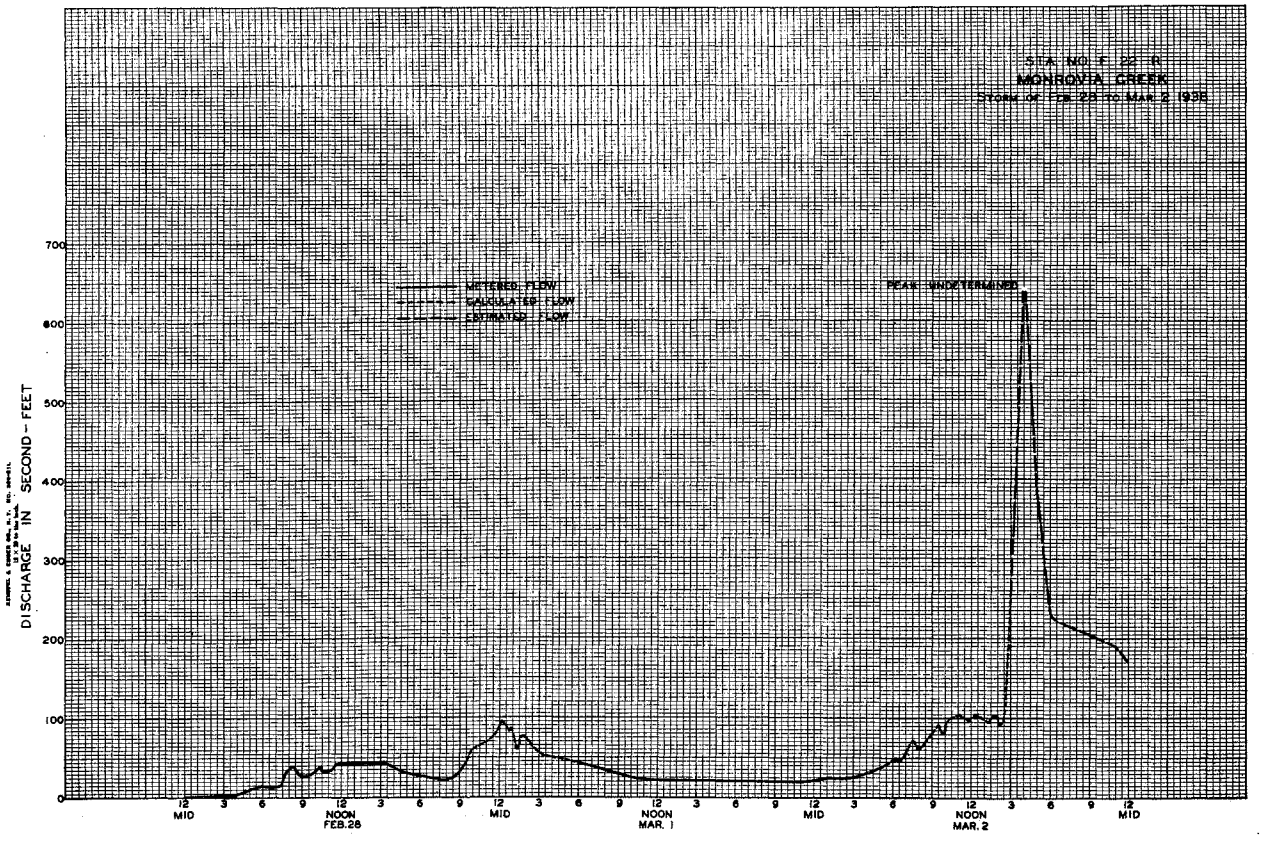
Daily discharge, in second-feet of MONROVIA CREEK 200 ft. above junction with Sawpit Cr. for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	0.1	1.5	23		3.2	0.8	0.5	0.3	0.3
2	+	+	+	0.1	0.5	150		2.5	0.8	0.5	0.3	0.3
3	+	+	+	0.1	7.5	66		3.2	0.8	0.6	0.3	0.3
4	+	+	+	0.1	4.8	22		3.2	0.7	0.6	0.3	0.3
5	+	+	+	0.1	2.0	20		3.0	0.7	0.6	0.3	0.3
6	+	+	+	0.1	2.0	17		3.0	0.7	0.6	0.3	0.3
7	+	+	+	0.1	0.9	14		2.2	0.7	0.6	0.3	0.3
8	+	+	+	0.1	0.6	8.5		2.2	0.7	0.6	0.3	0.3
9	+	+	+	0.1	1.8	6		2.2	0.7	0.6	0.3	0.3
10	+	+	0.2	0.1	1.2	6		2.4	0.7	0.6	0.3	0.3
11	+	+	3.1	0.1	3.7	6.5		2.4	0.7	0.6	0.3	0.3
12	+	+	1.5	0.1	2.5	8.5		3.0	0.7	0.6	0.3	0.3
13	+	+	0.6	0.1	1.6	5.5		2.2	0.7	0.5	0.3	0.3
14	+	+	0.6	0.1	1.4	5.5		2.2	0.7	0.5	0.3	0.4
15	+	+	0.2	0.1	1.0	4.5		2.2	0.6	0.5	0.3	0.4
16	+	+	0.4	0.1	0.9	4.7		2.2	0.6	0.5	0.3	0.4
17	+	+	0.2	0.2	0.9	4.4		2.4	0.6	0.5	0.3	0.4
18	+	+	+	0.2	0.8	4.2		2.2	0.6	0.5	0.3	0.4
19	+	+	+	0.2	0.8	4.2		2.2	0.6	0.5	0.3	0.4
20	+	+	0.4	0.2	0.6	4.0		2.2	0.6	0.5	0.3	0.4
21	+	+	0.9	0.2	0.5	3.8		2.2	0.5	0.5	0.3	0.4
22	+	+	1.6	0.2	0.4	3.8		2.2	0.5	0.5	0.3	0.4
23	+	+	0.9	0.2	0.4	3.6		1.9	0.5	0.5	0.3	0.4
24	+	+	0.6	0.2	0.4	3.5		1.9	0.5	0.5	0.3	0.4
25	+	+	0.4	0.2	0.4	3.8		1.6	0.5	0.5	0.3	0.4
26	+	+	0.2	0.1	0.3	4.0		1.6	0.5	0.5	0.3	0.4
27	+	+	0.2	0.1	0.3	3.8		1.5	0.5	0.4	0.3	0.3
28	+	+	0.2	0.1	0.3	3.8		1.5	0.5	0.3	0.3	0.3
29	+	+	0.2	0.1	0.3	3.6		1.0	0.5	0.3	0.3	0.4
30	+	+	0.2	0.1	0.3	3.5		1.0	0.5	0.3	0.3	0.4
31	+		0.2	0.1		3.5		0.9		0.3	0.4	
Mean	+	+	.37	.14	2.44	14.1	2.85	2.00	.61	.55	.34	.24
Acre-Feet	+	+	23	8.5	135	865	170	123	36	34	21	14

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

Year or Period Mean 1.98 Acre-Feet 1430


STA NO. F 22.8
MONROVIA CREEK
STORM OF DEC. 27 1938
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
0
20
40
60
80
100
12 MID
1
2
3
4
5
6
7
8
9
10
11
12 NOON DEC. 27
1
2
3
4
5
6
7
8
9
10
11
12 MID


STA NO. F 22.8
MONROVIA CREEK
STORM OF FEB 28 TO MAR 2 1938
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
PEAK UNDETERMINED
DISCHARGE IN SECOND-FEET
0
100
200
300
400
500
600
700
12 MID
3
6
9
12 NOON FEB. 28
3
6
9
12 MID
3
6
9
12 NOON MAR. 1
3
6
9
12 MID
3
6
9
12 NOON MAR. 2
3
6
9
12 MID

STATION F195R

MONROVIA STORM DRAIN near Peck Road

LOCATION:

On the east (left) wing wall of approach to concrete outlet channel of Monrovia Storm Drain into Peck Road and about 1 mile south of Monrovia.

DRAINAGE AREA:

4.5 square miles.

CHANNEL AND CONTROL

Channel - sand and gravel, upstream from stilling well; concrete channel starts at well.
Control - concrete sill at beginning of concrete lined channel 22.5 ft. wide x 3.2 ft. deep.

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 house over an 18 inch diameter corrugated iron pipe stilling well.
A Stevens type L recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

April 25, 1932 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 383 second-feet October 18.
Minimum no flow most of year.
1937-1938
Maximum 1200 second-feet, estimated, March 2.
Minimum no flow most of year.
1932-1938
Maximum 1200 second-feet, estimated, March 2, 1938.
Minimum no flow most of each year.

ACCURACY:

Poor.
Estimated:
December 4, 1936; March 3-5, 1938.

OPERATION:

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

F. C. D. FORM 104 (W 9-36)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 195 R

DISCHARGE MEASUREMENTS OF MONROVIA STORM DRAIN

XXX NEAR Peck Road DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Figure No.	METH OD	MEAS. PROF. NO.	S. PT. CHAINS TOTAL	BEGIN END	METER NO.
1	12/15	Lindsay and McArthur	21.0	7.66	3.36	.84	26		.6	7	-.01	137P 145P	FC 28
2	12/30	"	40.0	22.65	7.96	1.48	180		.6	6	-.05	930P 940P	"
3	2/6	"	23.5	13.0	3.55	1.00	46		.6	10	0	1108A 1119A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F195R

Daily discharge, in second-feet of MONROVIA STORM DRAIN near Peck Road for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0.9	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	3.6	2.2	0	0	0	0	0	0	0
7	0	0	0	1.5	4.1	0	0	0	0	0	0	0
8	0	0	0	0	2.1	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	1.8	0	0	0	0	0	0	0	0
12	0	0	0	10.5	0	3.9	0	0	0	0	0	0
13	0	0	0	0	21	6.5	0	0	0	0	0	0
14	0	0	0	0	23	0	0	0	0	0	0	0
15	0	0	0	0	3.3	0	0	0	0	0	0	0
16	0	0	0	0	0	2.9	0	0	0	0	0	0
17	4.0	0	0	0	0	0	0	0	0	0	0	0
18	12	0	0	0	0	0.2	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	
MEAN	0.12	0	2.24	.65	3.68	1.42	.03	0	0	0	0	0
ACRE-FEET	69	0	138	39	204	87	1.8	0	0	0	0	0

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

MEAN .746
YEAR OR PERIOD ACRE-FEET 539

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

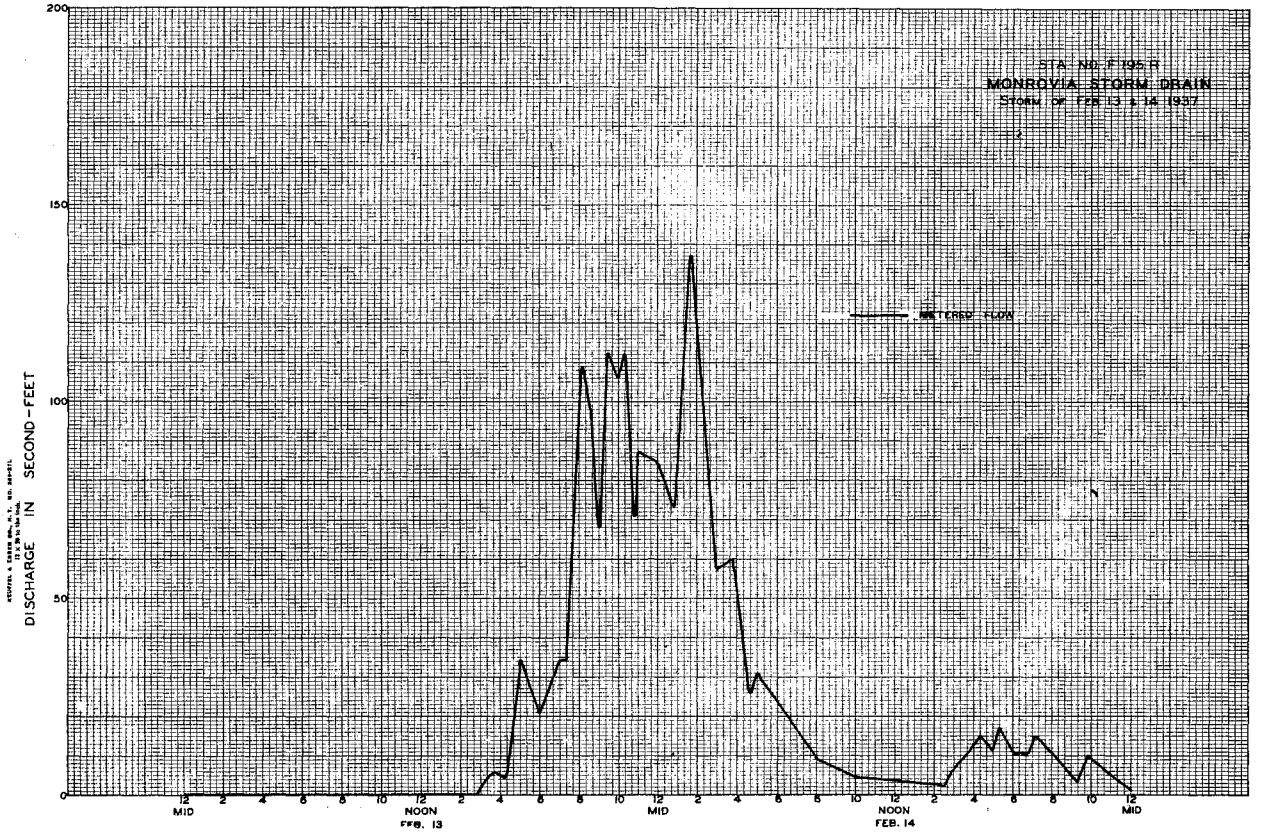
Sta. No. F195R

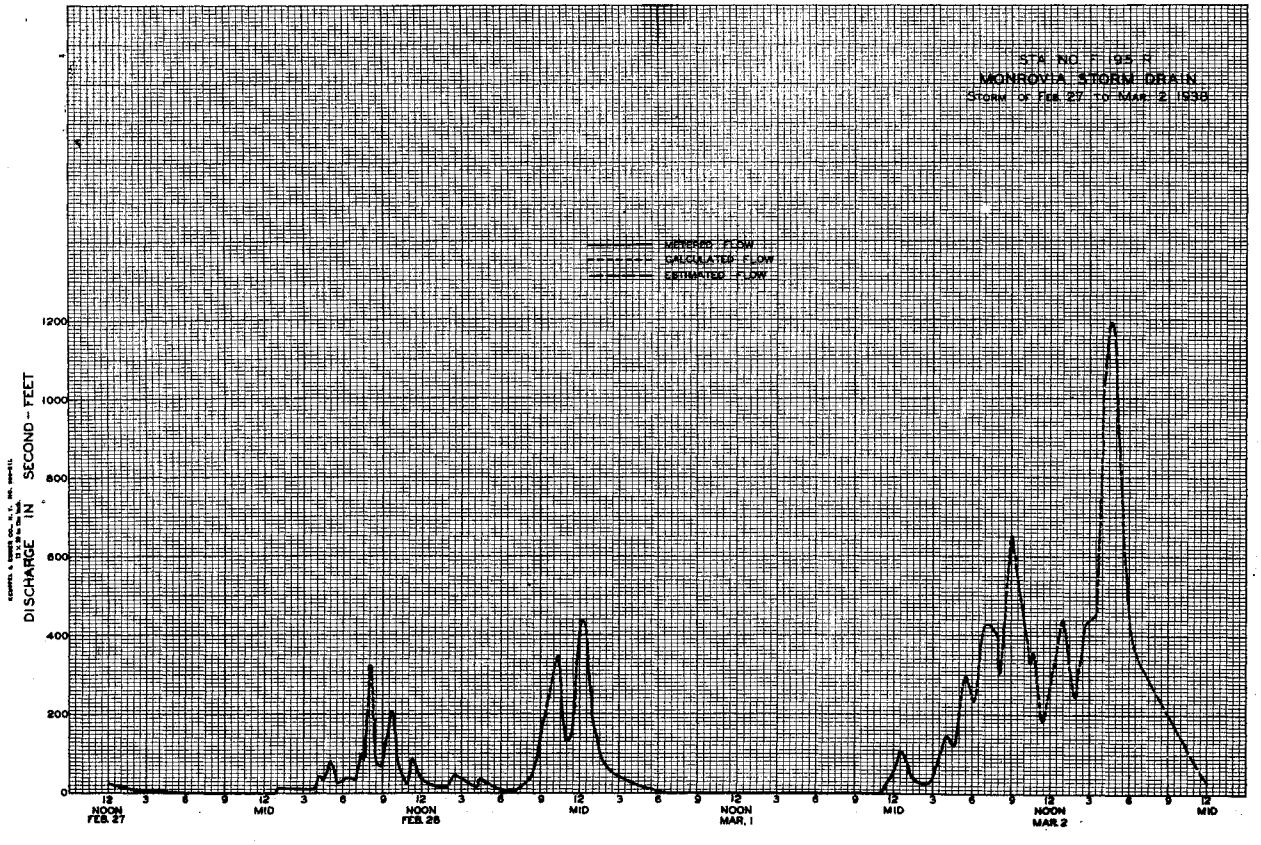
Daily discharge, in second-feet of MONROVIA STORM DRAIN near Peck Road for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	21	24	0	0	0	0	0	0
2	0	0	0	0	26	30	0	0	0	0	0	0
3	0	0	0	0	4.7	20	0	0	0	0	0	0
4	0	0	0	0	0	10	0	0	0	0	0	0
5	0	0	0	0	0	5	0	0	0	0	0	0
6	0	0	0	0	0	1	0	0	0	0	0	0
7	0	0	0	0	0	1	0	0	0	0	0	0
8	0	0	0	0	0	4	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	22	0	8.5	1.5	0	0	0	0	0	0
12	0	0	0	0	2.5	17	0	0	0	0	0	0
13	0	0	0	0	0	4.6	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	0.7	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	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	
MEAN	0	0	0	0	5.49	11.9	.03	0	0	0	0	0
ACRE-FEET	0	0	0	0	305	745	1.6	0	0	0	0	0

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

MEAN 1.56
YEAR OR PERIOD ACRE-FEET 1130


STA. NO. F 195-R
MONROVIA STORM DRAIN
Storm of Feb 13 & 14 1937
METERED FLOW
DISCHARGE IN SECOND-FEET
200
150
100
50
0
12 MID
2
4
6
8
10
12 NOON
FEB. 13
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON
FEB. 14
2
4
6
8
10
12 MID


STA NO. F 195-R
MONROVIA STORM DRAIN
Storm of Feb 27 to Mar 2, 1938
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND-FEET
1200
1000
800
600
400
200
0
12 NOON
FEB. 27
3
6
9
12 MID
3
6
9
12 NOON
FEB. 28
3
6
9
12 MID
3
6
9
12 NOON
MAR. 1
3
6
9
12 MID
3
6
9
12 NOON
MAR. 2
3
6
9
12 MID

STATION F181R

MONTEBELLO STORM DRAIN at Outlet into Rio Hondo at Mines Ave.

LOCATION:

On south (right) wing wall of storm drain outlet, 200 feet east of the east end of Mines Avenue and 220 feet west of west bank of the Rio Hondo near Montebello.

DRAINAGE AREA:

9.6 square miles.

CHANNEL AND CONTROL:

On concrete apron below 14 ft. x 10 ft. 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.
The stage-discharge relation, during flood flows in the Rio Hondo, is affected by backwater from the Rio Hondo.

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 an 18 inch dia. corrugated iron pipe stilling well.
Stevens type L recorder was in service from October 1, 1936 to September 30, 1938.

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, 1938.

EXTREMES OF DISCHARGE:

1936-37
Maximum not determined.
Minimum no flow for several months.
1937-38
Maximum 1400 second-feet, estimated, March 2.
Minimum not determined.
1931-38
Maximum 1400 second-feet, estimated, March 2, 1938.

ACCURACY:

Poor (Record not published).

OPERATION:

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

F. C. D. FORM 104 (M 8-38)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 181 R

DISCHARGE MEASUREMENTS OF MONTEBELLO STORM DRAIN

~~at~~ Outlet into Rio Hondo at Mines Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Eff.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/17	Bonadiman	12.	2.17	.27	0.24	2.1		.6	4	0	1005A 1010A	FC 9

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 181 R

DISCHARGE MEASUREMENTS OF MONTEBELLO STORM DRAIN

~~at~~ at Outlet into Rio Hondo at Mines Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Eff.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
3	12/10	Bonadiman	10.	1.81	.90	# .20	1.6		.6	4	0	821A 827A	FC 9
4	12/10	"	10.	1.86	.89	# .20	1.6		.6	3	+.01	829A 833A	"
5	12/11	"	7.	.70	.63	# .15	.44		.6	2	0	914A 916A	"
6	12/23	Bonadiman-Lind	16.2	26.0	8.3	#1.43	216.		.6	4	-.05	348A 355A	FC 40
7	12/23	" "	16.2	22.7	7.4	#1.35	168.		.6	5	-.10	400A 405A	"
8	12/26	Bonadiman	16.2	13.1	5.38	# .70	71.		.6	7	+.10	403P 415P	"
9	12/26	"	16.2	14.7	4.84	# .82	71.		.6	6	+.05	420P 430P	"
10	12/27	Bonadiman-Lind	16.2	19.3	6.79	#1.15 #1.20	131.		.6	5	-.10	415A 419A 751A	"
11	1/15	Bonadiman	16.2	21.5	6.53	*1.35	140.		.6	6	0	802A	"
12	1/15	"	8.	1.0	.63	# .17	.65		.6	2	0	500P	"
13	1/29	"	13.	2.8	1.36	# .26	3.7		.6	5	0	1251P 100P	"
14	1/29	"	12.	2.5	.96	# .24	2.4		.6	4	0	112P 118P	"
15	1/29	"	12.	2.5	.97	# .23	2.4		.6	4	-.01	120P 126P	"
16	1/29	"	10.	1.89	.84	# .22	1.6		.6	3	0	140P 144P	"
17	1/29	"	10.	1.73	.75	# .22	1.3		.6	3	-.01	153P 157P	"
18	1/29	"	10.	1.74	.57	# .20	1.0		.6	2	0	155P 158P	"
19	2/3	"	10.	1.83	1.0	# .20	1.8		.6	4	0	747A 755A	"
20	2/3	"	16.2	11.6	4.81	* .76	55.		.6	6	+.12	1141A 1152A	"
21	2/3	"	16.2	13.6	5.37	*1.01	73.		.6	5	+.02	1208P 1215P	"
22	2/5	"	6.	.36	.33	# .12	0.12		Sum	2	0	853A	"
23	2/9	"	16.2	6.94	5.0	# .46 * .60	35.		.6	5	0	821A 838A	"
24	2/10	Bonadiman-Lind	16.	3.51	1.67	# .28	5.9		.6	6	0	334P 338P	"
25	2/11	Jordan-Thayer	16.2	18.98	6.68	*1.30	127.		.6	8	-.10	255P 310P	FC 21
26	3/2	Bonadiman and Waddicor	16.2	22.57	7.06	*1.55	160.		.6	6		830A 842A	FC 40
27	4/30	Bonadiman	16.2	4.97	2.36	# .36	12.		.6	4	0	135P 145P	"

NOTE: # Staff Gage No. 1
* Staff Gage No. 2

STATION F118B-R

PACOIMA CREEK flume below Pacoima Dam

LOCATION:

Approximately 450 feet upstream from station F118R and approximately 500 feet downstream from Pacoima Dam.
Station U13R was approximately 1/3 mile downstream from station F118B-R.

DRAINAGE AREA:

28.2 square miles.

CHANNEL AND CONTROL:

Channel is sand, gravel and boulders above and below flume.
Between April 28, 1937 and June 25, 1937 the 4 foot Parshall flume was replaced with a 10 foot San Dimas type timber flume over a concrete cut-off well extending down to bed rock.
A V-notch weir, in guides in the 10 foot flume, can be dropped to measure low flows.

DISCHARGE MEASUREMENTS:

From bridge over flume.

RECORDER:

Installed at station F118R on March 24, 1933 in a box type house over a 16 inch x 16 inch wooden stilling well; removed February 1, 1935.
Installed at station F118B-R on February 9, 1935 in a box type house over a wooden stilling well; removed April 28, 1937; reinstalled June 25, 1937 in a box type house over a 2.5 foot x 3.0 foot wooden stilling well.
A horizontal Rational recorder was in service from October 1, 1936 to April 28, 1937.
An I.H.C.S. continuous recorder was in service from June 25, 1937 to September 30, 1938.

REGULATION:

Regulated by Pacoima Dam.
The first regulation by Pacoima Dam was in the latter part of 1926, while the dam was under construction; the completed dam was dedicated in February, 1929.
Station F118B-R does not measure spillway discharge.
Station F118R did not measure spillway discharge; the records from October 1, 1929 to March 23, 1933 did not include spillway discharge.
Station U13R did include spillway discharge.

DIVERSIONS:

Water passing over Pacoima Dam spillway enters Pacoima Creek below station F118B-R.

RECORDS AVAILABLE:

At station U13R, Pacoima Creek near San Fernando, California, at office of U. S. Geological Survey, Water Resources Branch, Los Angeles, from March, 1916 to September, 1929.
From October 1, 1929 to March 23, 1933 records based on dam outflow records and gage readings at the Parshall flume below Pacoima Dam. These records are available at the office of the Los Angeles County Flood Control District.
At station F118R, March 24, 1933 to February 1, 1935.
At station F118B-R, February 9, 1935 to April 28, 1937, and June 25, 1937 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 233 second-feet February 18.
Minimum no flow at various times.
1937-1938
Maximum 685 second-feet March 2.
Minimum 0 at various times.
1929-1938 (stations F113R, F118B-R, and Parshall flume and dam records)
Maximum 685 second-feet March 2, 1938.
Minimum no flow at various times.
1916-1938 (stations U13R, F113R, F118B-R, and Parshall flume and dam records)
Maximum 1860 second-feet February 16, 1927 (at station U13R)
Minimum no flow at various times.

ACCURACY:

Poor for 4 foot flume.
Fair for 10 foot flume.
No record, flume and station removed flow estimated April 28, 29, 30, 1937.
No record, station out, flow estimated from dam records May 1 to June 28, 1937.
V-notch weir was put into operation at various times during low flows; while pool was filling and head building up, flow was considered constant.
For certain periods, when dam has water stored, recorder record shows no flow due to the fact that there was not sufficient amount of flow to keep pool filled in back of V-notch weir or in case of 10 foot flume to cover floor completely. During these periods flow was assumed to be same as dam leakage records show. Estimated from dam records March 25 and 26, 1938.

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 (12-2-37)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 118 B-R

DISCHARGE MEASUREMENTS OF PACOIMA CREEK

AT Parshall flume below Pacoima Dam DURING THE YEAR ENDING SEPTEMBER 30, 1937

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING CURVE DEPT.	GEN.	YEAR DEC. NO.	G. HT. CORR. TOTAL	BEGIN END	METER NO.
1	2/1	Luce-Paul	11.2	13.1	3.20	1.61	42		.6	13	-.02	940A 955A	FC 13
2	2/7	" "	11.8	12.7	2.84	1.57	36		.6	12	0	930A 939A	"
3	2/8	" "	15.	19.4	3.68	2.18	72		.6	8	0	430P 437P	"
		* Type of flume changed beginning 6/25/37.											
* 1	7/2	Luce	10.0	4.96	6.65	.48	33		.6	9	0	600P 615P	FC 39
2	7/10	"	10.0	5.09	7.09	.48	36		.6	9	0	1140A 1155A	"
3	7/31	Bollinger and Waddicor	10.0	4.87	6.33	.45	31		.6	11	0	950A 1022A	FC 6
4	7/31	"	10.	4.85	6.40	.46	31		.6	11	0	1025A 1053A	"
5	8/26	Luce	10.0	5.26	7.47	.44	39		.6	12	0	901A 915A	FC 39
6	8/26	"	10.0	4.72	8.27	.43	39		.6	12	-.01	136P 153P	"
7	8/26	"	10.0	4.68	8.48	.43	40		.6	8	0	207P 223P	"
8	8/30	Luce-Bollinger	10.0	5.18	7.59	.49	39		.6	8	-.11	920A 932A	"
9	8/30	" "	10.0	9.19	8.39	.80	77		.6	8	-.01	954A 1006A	"
10	8/30	" "	10.0	9.26	8.53	.83	79		.6	8	+.04 -.06	1005A 1018A	"
11	8/30	" "	10.0	6.11	7.78	.53	48		.6	12	+.01	1055A 1110A	"
12	8/30	Fuller-Wood	10.0	6.05	6.64	.63	40		Ver Ve	10		1100A 1115A	Pitot Tube
13	9/2	Luce	10.0	4.39	8.50	.40	37		.6	11	0	100P 110P	FC 39
14	9/23	"	10.0	4.09	8.32	.38	34		.6	8	-.01	1210P 1230P	"

F.C.D. FORM 304 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 118 B -R

DISCHARGE MEASUREMENTS OF PACOIMA CREEK

at flume below Pacoima Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	RATING	YEAR REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
15	11/17	Fuller-Hedge	10.0	5.46	7.20	.55	39		Ver Vel	12		945A 1000A	Pitot
16	11/17	Luce-Bollinger	10.0	5.51	6.74	.55	37		.6	12	-.01 +.01	950A 1005A	FC 25
17	11/17	Fuller-Hedge	10.0	5.42	7.22	.55	39		Ver Vel	8	0	1003A 1010A	Pitot
18	11/17	Luce-Bollinger	10.0	15.34	9.07	1.64	139		.6	12	+.04	1027A 1047A	FC 25
19	11/17	Fuller-Hedge	10.0	15.11	9.98	1.64	151		Ver Vel	12		1027A 1050A	Pitot
20	11/17	Luce-Bollinger	10.0	19.97	10.05	2.07	201		.6	12	+.02	1105A 1124A	FC 25
21	11/17	Fuller-Hedge	10.0	20.11	11.04	2.07	222		Ver Vel	12		1105A 1126A	Pitot
22	11/17	Fuller-Hedge	10.0	18.76	10.64	2.06	200		Ver Vel	8	-.28	1146A 1158A	"
23	11/17	Luce-Bollinger	10.0	19.23	9.69	2.04	186		.6	12	.03	1147A 1205P	FC 25
24	11/17	Fuller-Hedge	10.0	10.97	9.17	1.11	101		Ver Vel	8		1225P 1236P	Pitot
25	11/17	Luce-Bollinger	10.0	11.32	8.48	1.11	96		.6	9	-.02	1227P 1246P	FC 25
26	11/17	Fuller-Hedge	10.0	4.38	7.09	.43	31		Ver Vel	8		153P 201P	Pitot
27	11/17	Luce-Bollinger	10.0	4.48	6.73	.43	30		.6	12	-.03	154P 209P	FC 25
28	11/17	Fuller-Hedge	10.0	11.86	9.14	1.24	108		Ver Vel	8		233P 245P	Pitot
29	11/17	Luce-Bollinger	10.0	12.02	8.42	1.24	101		.6	12	-.02	233P 251P	FC 25
30	11/17	Fuller-Hedge	10.0	12.99	9.40	1.38	122		Ver Vel	8		313P 324P	Pitot
31	11/17	Luce-Bollinger	10.0	12.89	8.64	1.38	111		.6	10	-.01	313P 335P	FC 25
32	11/26	Luce-Luce	10.0	2.52	6.15	.20	16		.6	12	0	1005A 1020A	FC 39
33	12/2	Luce	10.0	2.35	6.39	.17	15		.6	12	0	125P 145P	"
34	12/8	"	10.0	1.92	6.02	.09	12		.6	12	0	215P 230P	"
35	12/16	"	10.0	2.60	6.18	.22	16		.6	12	0	1250P 110P	"
36	2/23	"	10.0	4.70	7.29	0.50	34		.6	12	0	200P 215P	"
37	2/23	"	10.0	4.73	7.22	0.50	34		.6	8	0	215P 230P	"
38	3/12	Burke-Fuller	10.0	28.51	10.41	3.23	297		Ver Vel	11	0	1105A 1136A	Pitot
39	3/26	Luce	10.0	16.36	7.29	1.53	119		.6	9	0	1145A 1205P	FC 39
40	4/15	"	10.0	9.69	7.87	1.15	76		.6	10		950A 1005A	"
41	4/15		10.0	6.75	7.09	.86	48		.6	7	-.01	110P 120P	"
42	4/28	Luce	15.0	8.70	2.53	.72	22		.6	9	0	1105A 1115A	"
43	5/5	"	3.0	1.80	3.57	.20	6.4		.6	5	0	225P 235P	"
44	5/6	"	11.5	9.27	3.03	1.10	28		.6	6	0	1200N 115P	"
45	5/12	"	10.0	3.56	6.30	.40	22		.6	8	0	425P 435P	"
46	5/12	"	10.0	3.60	6.18	.40	22		.6	8	0	600P 615P	"
47	5/16	"	10.0	6.08	7.82	.66	48		.6	8	0	740A 755A	"
48	5/17	"	10.0	4.02	6.30	.44	25		.6	6	0	735A 810A	"
49	5/20	"	10.0	3.99	6.18	.44	25		.6	8	0	735A 750A	"
50	5/26	"	10.0	4.50	6.62	.48	30		.6	8	0	550P 600P	"
51	6/2	"	10.0	3.06	5.17	.36	19		.6	8	0	650A 700A	"
52	6/6	"	10.0	3.02	6.61	.34	20		.5	8	0	900A 910A	"
53	6/9	"	10.0	2.51	5.74	.27	14		.6	7	0	1000A 1010A	"
54	6/13	"	10.0	2.48	5.35	.27	13		.6	7	0	825A 835A	"
55	6/16	"	10.0	2.35	5.70	.27	13		.6	7	0	1025A 1035A	"
56	6/23	"	10.0	2.09	5.59	.25	12		.6	7	0	1130A 1140A	"
57	6/28	"	10.0	2.09	5.23	.24	11		.6	7	0	750A 800A	"
58	6/30	"	10.0	2.02	5.27	.24	11		.6	7	0	910A 920A	"
59	7/6	"	10.0	1.91	5.14	.23	9.8		.6	7	0	1100A 1110A	"
60	7/8	"	10.0	1.84	5.23	.22	9.6		.6	7	0	1135A 1145A	"

F. C. Dist. Form 82 100 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F118-R

Daily discharge, in second-feet of PACOIMA CREEK flume below Pacoima Dam for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	37	104	115	105	6	0	52	32
2	0	0	0	0	35	104	114	60	0	0	12	29
3	0	0	0	0	25	104	112	0	0	0	0	29
4	0	0	0	0	0	104	112	0	0	0	4	32
5	0	0	0	0	0	112	112	0	0	0	19	31
6	0	0	0	0	0	112	112	0	0	0	35	31
7	0	0	0	0	0	112	126	0	0	0	12	30
8	0	0	0	0	0	112	128	0	0	0	22	11
9	0	0	0	0	0	112	131	0	0	0	33	0
10	0	0	0	0	0	112	151	0	0	0	12	0
11	0	0	0	0	0	112	180	0	0	0	0	0
12	0	0	0	0	0	112	200	0	0	0	0	27
13	0	0	0	0	0	112	90	0	0	0	0	30
14	0	0	0	0	0	112	0	0	0	0	0	30
15	0	0	0	0	0	112	0	0	0	0	0	29
16	0	0	0	0	0	112	0	0	0	0	0	29
17	0	0	0	0	0	112	0	0	0	0	0	29
18	0	0	0	0	0	112	0	0	0	0	0	27
19	0	0	0	0	0	112	0	0	0	0	0	30
20	0	0	0	0	0	112	0	0	0	0	0	30
21	0	0	0	0	0	112	0	0	0	0	0	30
22	0	0	0	0	0	112	0	0	0	0	0	30
23	0	0	0	0	0	112	0	0	0	0	0	30
24	0	0	0	0	0	112	0	0	0	0	0	30
25	0	0	0	0	0	112	0	0	0	0	0	30
26	0	0	0	0	0	112	0	0	0	0	0	30
27	0	0	0	0	0	112	0	0	0	0	0	30
28	0	0	0	0	0	112	0	0	0	0	0	30
29	0	0	0	0	0	112	0	0	0	0	0	30
30	0	0	0	0	0	112	0	0	0	0	0	30
31	0	0	0	0	0	112	0	0	0	0	0	30
Mean	0	0	0	0	16.3	99.5	111.1	5.5	0.8	0	10.7	22.2
Acre-Feet	0	0	0	0	908	6120	6610	341	46	0	658	1320

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

Year Mean 20.1
Period Acre-Feet 14540

F. C. Dist. Form 82 100 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F118-R

Daily discharge, in second-feet of PACOIMA CREEK flume below Pacoima Dam for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	25	14	+	+	+	56	01	21	12	+	07
2	+	24	14	+	+	+	54	1	8	12	09	07
3	01	23	14	+	+	+	90	9	12	12	6	06
4	+	22	14	+	+	+	125	7	21	11	5	06
5	+	22	14	+	+	+	121	17	21	11	5	07
6	+	22	13	+	+	+	121	28	17	11	5	07
7	+	21	13	+	+	+	114	28	17	11	4	07
8	+	22	13	+	+	+	108	27	15	11	3	05
9	+	22	13	+	+	+	104	25	15	11	3	03
10	+	22	15	+	+	+	97	26	15	11	2	03
11	+	22	12	+	+	+	78	24	15	8.5	2.1	03
12	+	23	15	+	+	+	96	23	15	7.5	1.9	03
13	+	+	15	+	11	+	88	19	15	12	1.7	08
14	+	+	15	+	15	+	81	34	14	8.0	1.7	14
15	+	+	18	+	26	+	297	46	14	8.0	1.6	09
16	+	+	16	+	17	+	66	49	14	0.7	1.0	06
17	+	+	17	+	5.5	+	46	26	13	+	0.9	06
18	+	+	14	5	22	+	45	26	13	+	1.4	07
19	+	+	14	5	21	+	34	26	14	+	1.7	07
20	+	+	38	5	32	+	28	26	13	+	1.4	07
21	+	+	10	+	32	+	22	43	13	+	1.3	15
22	+	+	05	+	32	+	20	51	14	+	1.2	09
23	+	+	+	+	32	+	20	45	13	+	1.1	03
24	+	+	+	+	33	+	20	33	13	+	1.0	03
25	+	+	+	+	29	+	20	33	13	+	0.9	03
26	01	+	+	+	25	+	12	31	13	+	0.8	04
27	+	+	+	+	12	+	22	29	12	+	0.8	04
28	+	+	+	+	9	+	22	28	13	+	0.8	03
29	8	10	+	+		+	22	26	13	+	0.7	03
30	24	8.5	+	+		+	14	24	12	+	0.7	
31	24	16	+	+		+		22		+	0.7	
Mean	2.64	4.90	2.64.9	+	3.74.9	7.068	1.723	8.291	4.28	1.527	6.10	2.73
Acre-Feet	112	950	525	+	744	14020	3420	5.7.4	849	303	121	5.4

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

Year Mean 31.4
Period Acre-Feet 22740

STATION F16R

PACOIMA WASH at Parthenia Street

LOCATION:

On the downstream side of Parthenia Street bridge on the second pier from west abutment approximately 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 an 18 inch diameter, corrugated iron pipe stilling well.
Horizontal National 7 day recorder was in service from October 1, 1936 to September 30, 1938 except for the period from March 3 to April 30, 1938.

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, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 189 second-feet February 6.
Minimum no flow most of year.
1937-1938
Maximum 2400 second-feet, estimated, March 3.
Minimum no flow most of year.
1928-1938
Maximum 2400 second-feet, estimated, March 3, 1938.
Minimum no flow most of each year.

ACCURACY:

Poor.
Well sanded; gage height estimated March 26, April 1, 1937.
No record; station out of order and flow not determined March 3 to April 30, 1938.

OPERATION:

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

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 16 R

DISCHARGE MEASUREMENTS OF PACOIMA WASH

AT Parthenia St. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Percent Diff.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	12/27	Miller-Barclay	15.5	5.15	2.89	2.94	15.		.6	10	-.05	900A 915A	FC 35
2	12/27	" "	11.5	1.93	1.61	2.82	3.1		.6	7	-.03	1005A 1020A	"
3	12/28	" "	8.0	.86	.78	2.80	0.65		.6	6	-.01	105A 120A	"
4	12/29	" "	15.0	3.11	1.99	2.86	6.2		.6	9	-.03	140A 155A	"
5	12/30	" "	16.0	6.50	3.45	2.97	22.		.6	10	0	805P 820P	"
6	1/6	Miller	6.8	.74	.60	2.71	0.44		.6	6	-.02	830A 845A	"
7	1/12	Miller-Barclay	16.0	6.84	3.06	2.92	18.		.6	9	-.08	445P 500P	"
8	1/30	" "	23.3	10.18	3.15	3.02	32.		.6	10	-.04	540P 550P	"
9	2/1	Luce-Paul	6.1	1.62	2.46	2.78	4.0		.6	7	-.01	1212P 1217P	FC 13
10	2/6	Miller-Barclay	20.5	14.55	4.85	3.16	71.		.6	10	+.03	900A 920A	FC 35
11	2/6	" "	26.0	17.13	4.70	3.38	80.		.6	10	0	1110A 1130A	"
12	2/6	Luce-Paul	16.6	7.55	2.93	2.76	22.		.6	8	-.01	845P 850P	FC 13
13	2/13	Miller	22.5	14.76	4.18	3.10	62.		.6	9	0	1045P 1100P	FC 35
14	2/14	"	28.0	22.75	6.01	3.48	137.		.6	10	+.04	130A 200A	"
15	2/14	Miller-Barclay	20.0	19.40	4.70	3.35	91.		.6	11	-.10	345A 410A	"
16	2/14	Luce-Paul	11.4	2.86	1.30	2.81	3.9		.6	5	-.02	103P 106P	FC 13
17	3/13	Miller	15.5	2.01	1.02	3.11	3.0		.6	9	-.01	730A 745A	FC 35
18	3/13	"	15.3	2.64	1.02	3.10	2.7		.6	9	0	750A 800A	"
19	3/15	Miller-Barclay	17.5	8.25	3.07	3.29	32.		.6	10	+.01	835P 850P	"
20	3/15	" "	17.0	7.12	2.33	3.26	24.		.6	11	-.03	915P 925P	"
21	3/15	" "	17.0	5.66	3.27	3.22	19.		.6	10	-.01	930P 940P	"
22	3/22	" "	17.5	7.97	3.84	3.20	31.		.6	11	+.01	630A 650A	"
23	3/22	" "	10.0	6.48	3.53	3.16	23.		.6	10	-.01	730A 745A	"
24	3/24	" "	10.5	6.16	3.84	3.24	31.		.6	10	-.03	700P 715P	"
25	3/26	Paul-Luce	4.3	.89	.91	2.81	0.80		.6	5	0	1230P 1245P	FC 13

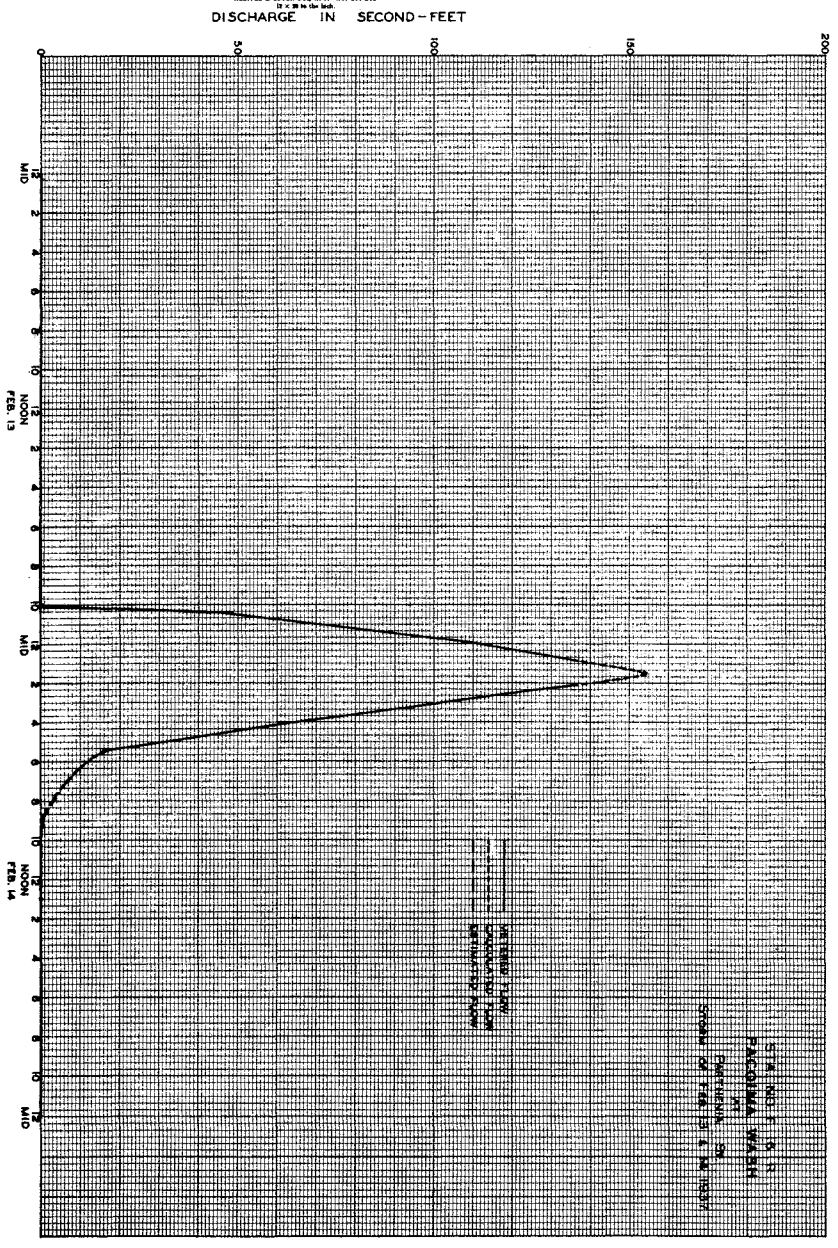
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 16 R

DISCHARGE MEASUREMENTS OF PACOIMA WASH

AT Parthenia St. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Percent Diff.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
26	12/11	Miller-B. Luce	15.0	4.45	1.99	3.07	8.9		.6	9	-.09	420P 430P	FC 35
27	12/11	" "	15.0	3.75	1.67	3.00	6.3		.6	9	-.04	430P 444P	"
28	12/11	Miller-Schaller	4.2	.62	.84	2.87	0.50		.6	4	+.02	850P 900P	"
29	2/1	Miller	16.0	6.86	3.06	3.15	21.		.6	8	0	400A 416A	"
30	2/1	Miller-Maly	16.0	9.28	3.93	3.25	36.		.6	9	-.11	540A 550A	"
31	2/1	" "	14.0	4.15	2.24	3.05	9.3		.6	7	-.07	630A 640A	"
32	2/3	" "	16.0	6.59	3.36	3.12	22.		.6	9	+.02	1245P 1250P	"
33	2/3	" "	15.5	5.21	2.79	3.07	15.		.6	9	0	205P 215P	"
34	2/3	" "	15.0	3.63	1.72	2.95	6.2		.6	9	0	445P 455P	"
35	2/4	Miller	3.5	.44	1.02	2.71	0.45		.6	5	-.02	830A 840A	"
36	2/9	Miller-Maly	16.5	5.90	2.67	3.01	16.		.6	10	+.06	1210P 1220P	"
37	2/9	" "	15.0	5.67	2.92	3.01	17.		.6	9	-.03	1245P 1255P	"
38	2/9	" "	10.5	2.24	1.63	2.87	3.7		.6	7	-.05	140P 150P	"
39	2/11	" "	14.5	6.31	2.78	3.06	18.		.6	10	-.03	930A 940A	"
40	2/11	" "	17.5	11.66	4.78	3.20	56.		.6	11	+.16	1250P 105P	"
41	2/11	" "	27.0	16.95	4.38	3.35	74.		.6	13	-.07	125P 140P	"
42	2/11	" "	26.8	15.47	4.35	3.29	67.		.6	13	-.02	200P 215P	"
43	2/11	" "	24.3	10.48	3.40	3.13	37.		.6	11	-.03	305P 320P	"
44	2/14	Miller	14.0	4.68	2.75	2.99	13.		.6	9	0	930A 945A	"
45	2/15	"	6.3	1.38	2.09	2.90	2.9		.6	8	-.01	900A 915A	"
46	2/27	Miller and M. Miller	14.0	3.21	1.95	2.94	6.2		.6	10	0	1200N 1215P	"
47	2/27	" "	7.5	1.09	.96	2.88	1.0		.6	6	0	235P 245P	"
48	2/28	Miller	15.0	3.99	2.27	3.00	9.1		.6	9	-.03	545A 600A	"
49	2/28	"	14.6	2.73	1.82	2.93	5.0		.6	10	-.01	645A 700A	"
50	2/28	Miller	15.5	5.83	2.99	3.07	17.		.6	9	+.04	1000A 1015A	FC 35
51	2/28	"	15.7	7.60	3.45	3.17	26.		.6	10	-.02	1110A 1125A	"
52	3/1	Miller-Trumbo	27.0	35.48	6.12	3.75	217.		.6	11	-.10	130A 155A	"
53	3/1	" "	23.4	26.67	4.72	3.51	126.		.6	8	-.07	220A 240A	"
54	3/1	" "	26.6	15.09	4.04	3.40	61.		.6	11	-.09	255A 305A	"
55	3/2	" "	Two Channels			3.63	131.		.6	19	-.07	820A 840A	"
56	3/2	" "	Two Channels			3.75	184.		.6	18	+.10	950A 1015A	"
57	3/2	" "	41.0	70.66	5.82	4.12	411.		.6	12	-.05	1100A 1140A	"
58	3/2	" "	59.0	121.6	4.70	4.60	572.		.6	15	0	315P 350P	"
59	3/3	" "	71.0	357.0	3.53	5.55	1260.		.6	17	-.10	710A 810A	"
60	3/4	" "	Three Channels			4.60	673.		.6		0	945A 1015A	"
61	3/15	Miller	Two Channels			4.27	13.		.6		-.06	200P 215P	"
62	3/17	Miller-M.Miller	59.3	43.01	4.99	4.86	214.		.6	14	0	325P 355P	"
63	3/25	Luce	33.5	16.70	4.14	5.40	69.		.6	13	0	1250P 105P	FC 39
64	6/9	"	4.5	1.02	1.58	4.92	1.6		.6	5	0	1145A 1155A	"



F. C. Dist. Form 52 150 8-36

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 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	2.8	0	1.1	0	0	0	0	0
2	0	0	0	0	0	0	.6	0	0	0	0	0
3	0	0	0	0	0	0	2.3	0	0	0	0	0
4	0	0	0	0	0	0	0.9	0	0	0	0	0
5	0	0	0	0	0.1	0	1.2	0	0	0	0	0
6	0	0	0	0.2	4.4	0	0.1	0	0	0	0	0
7	0	0	0	+	0	0	1.0	0	0	0	0	0
8	0	0	0	0	0	0	0.3	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	0.9	0	0	0	0	0	0	0	0
13	0	0	0	+	5.5	0.1	0	0	0	0	0	0
14	0	0	0	0	2.3	0	0	0	0	0	0	0
15	0	0	0	0	0	3.5	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	4.2	0	0	0	0	0	0	0
19	0	0	0	0	2.1	0	0	0	0	0	0	0
20	0	0	0	0	1.0	0	0	0	0	0	0	0
21	0	0	0	0	1.2	0	0	0	0	0	0	0
22	0	0	0	0	4.2	5	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	7	0	0	0	0	0	0
25	0	0	0	0	2.2	6.5	0	0	0	0	0	0
26	0	0	0	+	1.7	4.0	0	0	0	0	0	0
27	0	0	2.7	+	0.8	5.5	0	0	0	0	0	0
28	0	0	0.4	0	0	5	0	0	0	0	0	0
29	0	0	0	0		1.0	0	0	0	0	0	0
30	0	0	5	4.9		0.2	0	0	0	0	0	0
31	0		1.1	0		0.3		0		0	0	
	0		9.2		112.6		12.9		0		0	
		0		60		38.1		0		0		0
MEAN	0	0	.30	.19	4.02	1.23	.43	0	0	0	0	0
ACRE-FEET	0	0	18	12	224	76	26	0	0	0	0	0

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

YEAR OR PERIOD — MEAN .490 — ACRE-FEET 356

F. C. Dist. Form 52 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

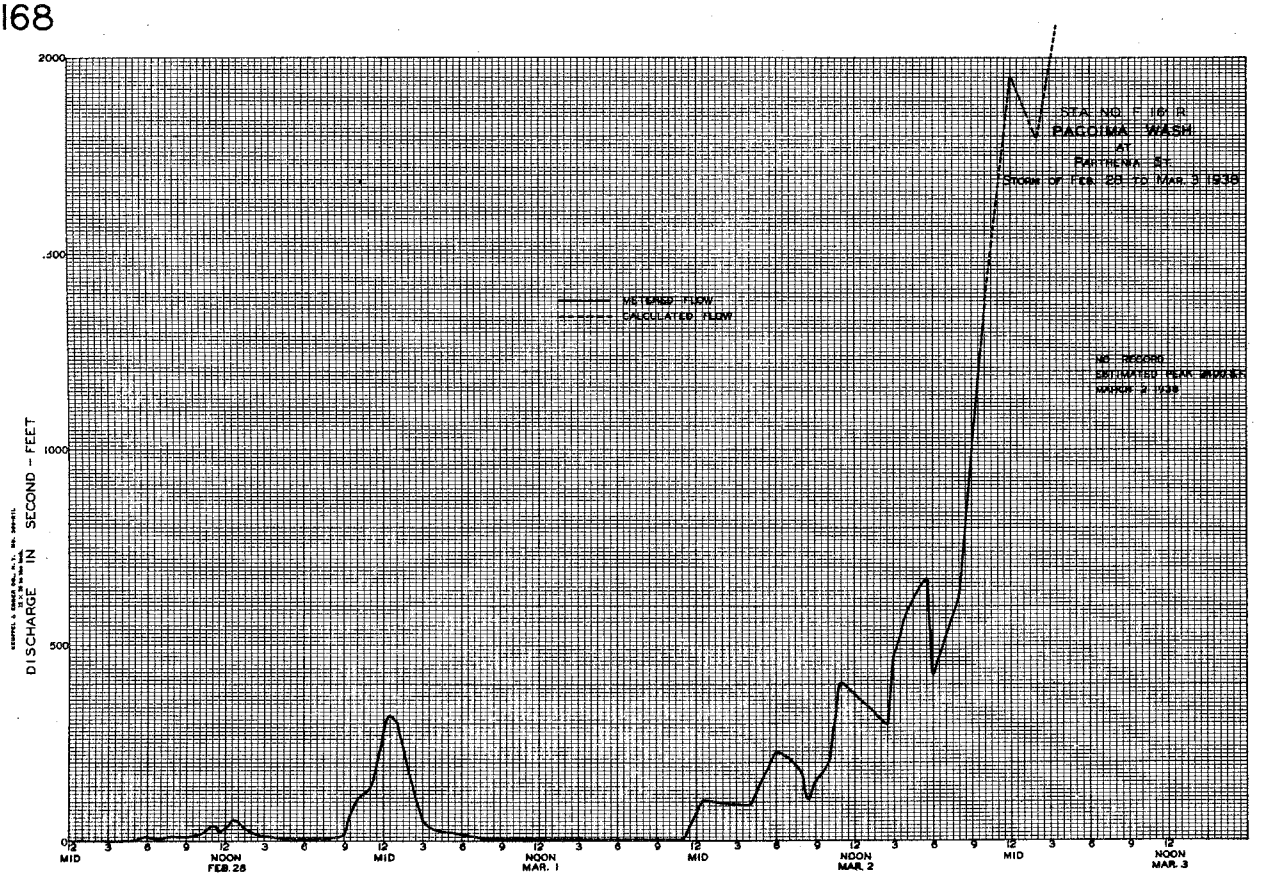
Sta. No. F16R

Daily discharge, in second-feet of PACOIMA WASH at Parthenia St., for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	6.5	3.4		0	0	0	0	0
2	0	0	0	0	0	4.70		0	0	0	0	0
3	0	0	0	0	5.5			0	0	0	0	0
4	0	0	0	0	0.4			0	1.0	0	0	0
5	0	0	0	0	0			0	2.3	0	0	0
6	0	0	0	0	0			0	1.3	0	0	0
7	0	0	0	0	0			0	1.1	0	0	0
8	0	0	0	0	0			0	0.7	0	0	0
9	0	0	0	0	1.3			0	1.1	0	0	0
10	0	0	0	0	0			0	0	0	0	0
11	0	0	0.5	0	1.2			0	0	0	0	0
12	0	0	0	0	0			0	0	0	0	0
13	0	0	0	0	0			0	0	0	0	0
14	0	0	0	0	3.7	NO RECORD		0	0	0	0	0
15	0	0	0	0.4	1.5			0	0	0	0	0
16	0	0	0	0	0	SEE STATION		0	0	0	0	0
17	0	0	0	0	0			0	0	0	0	0
18	0	0	0.3	0	0	DESCRIPTION		0	0	0	0	0
19	0	0	0	0	+			0	0	0	0	0
20	0	0	0	0	0			0	0	0	0	0
21	0	0	0	0	0			0	0	0	0	0
22	0	0	0.8	0	0			0	0	0	0	0
23	0	0	0	0	0			0	0	0	0	0
24	0	0	0	0	0			0	0	0	0	0
25	0	0	0	0	0			0	0	0	0	0
26	0	0	0.1	0	0			0	0	0	0	0
27	0	0	0	0	0.6			0	0	0	0	0
28	0	0	0	0	2.6			0	0	0	0	0
29	0	0	0	0				0	0	0	0	0
30	0	0	0	0				0	0	0	0	0
31	0		0	0.1				0		0	0	
	0		1.7		57.5 (Mar.1-2) 504				7.5		0	
		0		0.5				0		0		0
MEAN	0	0	.05	.02	2.05			0	.25	0	0	0
ACRE-FEET	0	0	3.4	1.0	114	1000		0	15	0	0	0

Remarks: Total acre-feet for year does not include discharge between 3/2 and 5/1.

YEAR OR PERIOD — MEAN — ACRE-FEET 1130 inc.



STATION F4OR

PUDDINGSTONE CREEK below Puddingstone Dam

LOCATION:

On east (right) side of Puddingstone Channel about 1000 feet below Puddingstone Dam near San Dimas.

DRAINAGE AREA:

55.1 square miles, including area above diversion dam on San Dimas Creek.

CHANNEL AND CONTROL:

Channel of sand and gravel.
Control - reinforced concrete Cipolletti weir 25 feet on bottom by 3 feet deep with a Cippolletti weir in center 24 inches on bottom by 18 inches deep.

DISCHARGE MEASUREMENTS:

By wading near station.

RECORDER:

Installed December 28, 1927 in an F. C. Standard type concrete house over a 3 ft. x 4 ft. concrete stilling well.
Rational horizontal 7 day recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

Flow regulated by Puddingstone Dam.

DIVERSIONS AND REGULATION:
OR

San Dimas Creek, which is regulated by San Dimas Dam and Puddingstone Diversion Dam, can be diverted to Puddingstone Creek above Puddingstone Dam.

DIVERSIONS:

San Dimas Water Company diverts water above the station.

RECORDS AVAILABLE:

December 28, 1927 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 18.4 second-feet February 6.
Minimum 0.1 second-foot various times.
1937-1938
Maximum 104 second-feet March 7.
Minimum .03 second-foot November 19.
1928-1938
Maximum 104 second-feet March 7, 1938.
Minimum .01 second-foot July 17, 1936.

ACCURACY:

Good.

OPERATION:

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

F.C.D. FORM 104 112 6-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 40 R

DISCHARGE MEASUREMENTS OF PUDDINGSTONE CREEK

~~At~~ below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. REC'D. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	12/15	Brewster	.05	.08	.75	.04	.06		.6	1	0	1130A 1132A	FC 6
2	12/28	"	1.0	.33	1.09	.14	.36		.6	2	0	310P 313P	"
3	12/30	"	14.0	5.40	1.48	1.08	8.0		.6	7	+.04	902P 910P	"
4	1/8	"	0.5	.13	1.00	.07	.13		.6	1	0	930A 932A	"
5	1/15	"	1.0	.17	.76	.07	.13		.6	2	0	902A 905A	"
6	1/22	"	.05	.08	1.50	.06	.12		.6	1	0	900A 902A	"
7	1/29	"	.05	.09	1.44	.07	.13		.6	1	0	858A 900A	"
8	2/5	"	0.5	.10	.60	.04	.06		.6	1	0	838A 840A	"
9	2/6	Brewster-Pettis	10.0	9.00	1.02	1.15	9.2		.6	5	+.10	110P 116P	"
10	2/12	Brewster	1.0	.18	.83	.08	.15		.6	2	0	1127A 1130A	"
11	2/14	Brewster-Pettis	1.5	1.22	1.32	.38	1.6		.6	3	0	715P 719P	"
12	2/19	Brewster	1.0	.23	.91	.10	.21		.6	2	0	757A 800A	"
13	2/26	"	1.0	.18	1.11	.10	.20		.6	2	0	922A 925A	"
14	3/5	"	1.0	.14	1.07	.08	.15		.6	2	0	1000A 1003A	"
15	3/12	"	1.0	.19	1.05	.10	.20		.6	2	0	925A 928A	"
16	3/15	Brewster-Pettis	6.0	2.34	1.63	.66	3.8		.6	6	+.03	730P 742P	"
17	3/16	Brewster	1.0	.35	1.09	.14	.38		.6	2	0	300P 303P	"
18	3/19	"	1.0	.21	1.05	.10	.22		.6	2	0	710A 715A	"
19	3/22	Brewster-Pettis	1.5	.60	1.20	.21	.70		.6	3	0	1117A 1120A	"
20	3/26	Brewster	1.5	.62	1.34	.24	.85		.6	3	0	856A 900A	"
21	4/2	"	1.5	.57	1.54	.24	.90		.6	3	0	700A 704A	"
22	4/9	"	1.0	.51	1.59	.23	.80		.6	2	0	730A 734A	"
23	4/16	"	1.5	.60	1.40	.24	.85		.6	3	0	735A 740A	"
24	4/23	"	1.5	.95	.91	.24	.85		.6	3	0	725A 730A	"
25	4/30	Brewster	1.5	.77	.88	.20	.70		.6	3	0	800A 804A	FC 8
26	5/7	"	1.0	.56	.71	.14	.40		.6	2	0	750A 754A	"
27	5/14	"	1.0	.19	.68	.07	.13		.6	2	0	720A 724A	"
28	5/21	"	1.5	.36	.97	.13	.35		.6	3	0	820A 824A	"
29	5/28	"	1.0	.22	.96	.10	.21		.6	2	0	800A 804A	"
30	6/4	"	1.5	.78	.49	.14	.38		.6	3	0	720A 725A	"
31	6/11	"	1.0	.28	.71	.10	.20		.6	2	0	715A 719A	"
32	6/18	"	1.5	.33	.67	.10	.22		.6	3	0	725A 730A	"
33	6/25	"	1.0	.32	.75	.11	.24		.6	2	0	754A 758A	"
34	7/1	"	0.5	.08	.62	.04	.05		.6	1	0	343P 345P	"
35	7/8	"	0.5	.10	.50	.04	.05		.6	1	0	428P 430P	"
36	7/15	"	1.0	.22	.27	.05	.06		.6	2	0	356P 400P	"
37	7/22	"	0.5	.11	.55	.05	.06		.6	1	0	200P 205P	"
38	7/29	"	0.5	.14	.43	.05	.06		.6	1	0	357P 400P	"
39	8/5	"	0.5	.14	.43	.05	.06		.6	1	0	300P 302P	"
40	9/8	"	1.0	.28	.64	.10	.18		.6	2	0	256P 300P	"
41	9/16	"	1.0	.28	.71	.10	.20		.6	2	0	253P 257P	"
42	9/23	"	1.0	.32	.66	.10	.21		.6	2	0	315P 320P	"
43	9/30	"	1.0	.28	.57	.08	.16		.6	2	0	350P 355P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 40 R

DISCHARGE MEASUREMENTS OF PUDDINGSTONE CREEK

~~At~~ below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH OD	MEAS. REC'D. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
44	10/7	Brewster	2.0	2.06	1.85	.74	3.8		.6	3	4.01	402P 406P	FC 8
45	10/14	"	1.0	.28	.71	.10	.20		.6	2	0	302P 306P	"
46	10/21	"	1.0	.24	.25	.05	.06		.6	2	0	315P 319P	"
47	10/28	"	1.0	.24	.88	.10	.21		.6	2	0	300P 305P	"
48	11/4	"	1.0	.32	.62	.10	.20		.6	2	0	314P 318P	"
49	11/10	"	1.0	.33	.18	.05	.06		.6	2	0	428P 432P	"
50	11/18	"	1.0	.33	.18	.05	.06		.6	2	0	405P 408P	"
51	11/24	"	1.0	.36	.31	.07	.11		.5	2	0	326P 329P	"
52	12/2	"	.5	.11	.55	.05	.06		.6	1	0	330P 332P	"
53	12/9	"	.5	.21	.57	.08	.12		.6	1	0	340P 342P	"
54	12/16	"	.6	.20	.60	.08	.12		.6	1	0	407P 409P	"
55	12/23	"	.5	.17	.82	.09	.14		.6	1	0	512P 513P	"
56	12/30	"	.6	.23	.57	.08	.13		.6	1	0	350P 355P	"
57	1/6	"	.6	.22	.55	.08	.12		.6	1	0	320P 323P	"
58	1/13	"	.6	.19	.68	.08	.13		.6	1	0	405P 408P	"
59	1/15	"	6.0	5.47	1.18	.90	6.4		.6	6	0	1030A 1040A	"
60	1/20	"	.5	.13	.92	.07	.12		.6	1	0	504P 506P	"
61	1/27	"	.5	.11	1.00	.07	.11		.6	1	0	340P 342P	"
62	2/3	"	1.5	.59	.80	.16	.47		.6	3	0	135P 140P	"
63	2/9	"	5.0	4.09	1.11	.75	4.6		.6	5	+.02	115P 120P	"
64	2/10	"	1.5	.58	.76	.14	.44		.6	3	0	426P 430P	"
65	2/17	"	1.0	.32	.47	.09	.15		.6	2	0	350P 354P	"
66	2/24	"	1.0	.31	.42	.08	.13		.6	2	0	350P 353P	"
67	3/4	"	1.5	.92	.79	.28	.75		.6	3	0	1045A 1048A	"
68	3/7	Van der Goot	19.5	25.27	2.93	2.07	74.		.6	10	0	1235P 1250P	
69	3/8	Brewster	18.0	30.30	3.30	2.26	100.		.6	9	0	750A 805A	FC 8
70	3/10	"	18.0	28.70	3.45	2.23	99.		.6	9	0	1107A 1122A	"
71	3/12	"	1.5	1.32	1.36	.40	1.8		.6	3	0	1130A 1135A	"
72	3/13	"	18.0	23.88	2.14	1.94	50.		.6	9	0	1137A 1153A	"
73	3/13	"	19.5	31.73	3.09	2.22	98.		.6	10	0	1212P 1228P	"
73A	3/17	"	19.5	31.50	3.15	2.22	99.		.6	10	0	1155A 1210P	"
74	3/24	"	19.5	31.53	3.14	2.22	99.		.6	10	0	402P 418P	"
75	3/29	"	14.0	14.80	1.09	1.56	16.		.6	7	0	900A 910A	"
76	5/31	"	13.0	9.39	1.03	1.20	9.7		.6	7	0	902A 914A	"
77	4/7	"	2.0	.87	.72	.24	.65		.6	4	0	350P 356P	"
78	4/14	"	2.0	.86	.78	.26	.65		.6	4	0	325P 330P	"
79	4/21	"	2.0	.89	.81	.27	.70		.6	4	0	250P 256P	"
80	4/28	"	2.0	.90	.80	.27	.70		.6	4	0	430P 436P	"
81	5/5	"	2.0	.91	.77	.28	.70		.6	4	0	405P 411P	"
82	5/12	"	1.0	.26	1.04	.12	.27		.6	4	0	300P 304P	"
83	5/19	"	2.0	.53	.66	.16	.35		.6	4	0	505P 511P	"
84	5/26	"	.8	.26	.58	.09	.15		.6	1	0	450P 453P	"
85	6/2	"	1.5	.38	.92	.14	.35		.6	3	0	550P 554P	"
86	6/9	"	1.5	.36	.78	.14	.28		.6	3	0	300P 305P	"
87	6/16	"	1.5	.31	1.00	.14	.31		.6	3	0	420P 424P	"
88	6/23	"	1.5	.48	.90	.18	.43		.6	3	0	325P 330P	"
89	6/30	"	1.0	.43	1.14	.20	.49		.6	2	0	445P 450P	"
90	7/7	"	1.0	.26	1.00	.15	.26		.6	2	0	245P 250P	"
91	7/14	Brewster	1.0	.25	.52	.09	.13		.6	2	0	416P 420P	FC 8
92	7/21	"	1.0	.32	.53	.10	.17		.6	2	0	100P 104P	"
93	7/28	"	1.0	.29	.86	.15	.25		.6	2	0	250P 254P	"
94	8/4	"	1.0	.29	.61	.11	.17		.6	2	0	350P 354P	"
95	8/11	"	1.0	.28	1.36	.22	.38		.6	2	0	245P 250P	"
96	8/18	"	1.0	.30	.73	.14	.22		.6	2	0	416P 419P	"
97	8/25	"	1.5	.35	.69	.14	.24		.6	3	0	310P 315P	"
98	9/1	"	14.0	11.71	2.16	1.68	25.		.6	8	0	450P 505P	"
99	9/8	"	11.0	13.68	1.61	1.67	22.		.6	11	0	336P 350P	"
100	9/15	Lindsay	12.5	12.36	1.48	1.64	18.		.6	7	0	202P 212P	FC 88
101	9/22	"	12.5	12.01	1.46	1.62	18.		.6	7	0	135P 144P	"
102	9/29	Brewster	1.0	.28	.43	.08	.12		.6	2	0	400P 404P	FC 8

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F192R

Daily discharge, in second-feet of PUDDINGSTONE CREEK below Puddingstone Dam for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	6	6	0	9	9	6	0	0	0
2	+	+	+	4	5	0	9	9	4	0	0	0
3	+	+	+	3	4	0	9	9	4	0	0	0
4	+	+	+	0	3	0	9	9	4	0	0	0
5	+	+	+	+	1	0	9	9	4	0	0	0
6	+	+	+	0	1	0	9	9	4	0	0	0
7	+	+	+	0	1	0	9	9	4	0	0	0
8	+	+	+	0	1	0	9	9	4	0	0	0
9	+	+	+	0	1	0	9	9	4	0	0	0
10	+	+	+	0	1	0	9	9	4	0	0	0
11	+	+	+	0	1	0	9	9	4	0	0	0
12	+	+	+	0	1	0	9	9	4	0	0	0
13	+	+	+	0	1	0	9	9	4	0	0	0
14	+	+	+	0	1	0	9	9	4	0	0	0
15	+	+	+	0	1	0	9	9	4	0	0	0
16	+	+	+	0	1	1	9	9	4	0	0	0
17	+	+	+	0	1	0	9	9	4	0	0	0
18	+	+	+	0	1	0	9	9	4	0	0	0
19	+	+	+	0	1	0	9	9	4	0	0	0
20	+	+	+	0	1	0	9	9	4	0	0	0
21	+	+	+	0	1	0	9	9	4	0	0	0
22	+	+	+	0	1	0	9	9	4	0	0	0
23	+	+	+	0	1	0	9	9	4	0	0	0
24	+	+	+	0	1	0	9	9	4	0	0	0
25	+	+	+	0	1	0	9	9	4	0	0	0
26	+	+	+	0	1	0	9	9	4	0	0	0
27	+	+	+	0	1	0	9	9	4	0	0	0
28	+	+	+	0	1	0	9	9	4	0	0	0
29	+	+	+	0	1	0	9	9	4	0	0	0
30	+	+	+	0	1	0	9	9	4	0	0	0
31	+	+	+	0	1	0	9	9	4	0	0	0
Mean	+	+	.18	.17	.65	.47	.87	.37	.20	.15	.07	.17
Acre-Feet		+	11	11	36	29	52	23	12	9.3	4.6	10

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

Year Mean .273
Year Total Acre-Feet 198

F. C. Dist. Form 52 150 4-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F192R

Daily discharge, in second-feet of PUDDINGSTONE CREEK below Puddingstone Dam for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2	3	1	1	0	25	10	0	0	0	2	27
2	2	2	1	1	0	16	5	0	0	0	2	26
3	2	2	1	1	0	24	8	0	0	0	2	27
4	2	2	1	1	0	08	7	0	0	0	2	28
5	2	2	1	1	0	06	8	0	0	0	2	30
6	2	2	1	1	0	06	7	0	0	0	3	25
7	1	2	1	1	0	53	6	0	0	0	4	24
8	1	2	1	1	0	86	4	0	0	0	4	24
9	1	2	1	1	0	99	2	0	0	0	4	24
10	1	2	1	1	0	99	3	0	0	0	4	24
11	1	2	1	1	0	99	3	0	0	0	4	23
12	1	2	1	1	0	99	3	0	0	0	4	21
13	1	2	1	1	0	99	3	0	0	0	4	20
14	1	2	1	1	0	99	3	0	0	0	5	19
15	1	2	1	1	0	99	3	0	0	0	5	18
16	1	2	1	1	0	99	3	0	0	0	4	18
17	1	2	1	1	0	99	3	0	0	0	4	18
18	1	2	1	1	0	99	3	0	0	0	4	19
19	1	2	1	1	0	99	3	0	0	0	4	19
20	1	2	1	1	0	99	3	0	0	0	4	19
21	1	2	1	1	0	99	3	0	0	0	4	18
22	1	2	1	1	0	88	3	0	0	0	4	18
23	1	2	1	1	0	99	3	0	0	0	4	18
24	1	2	1	1	0	99	3	0	0	0	4	18
25	1	2	1	1	0	99	3	0	0	0	4	18
26	1	2	1	1	0	49	3	0	0	0	4	16
27	1	2	1	1	0	55	3	0	0	0	4	5
28	1	2	1	1	0	16	3	0	0	0	3	0
29	1	2	1	1	0	42	3	0	0	0	3	0
30	1	2	1	1	0	95	3	0	0	0	3	0
31	1	2	1	1	0	10	3	0	0	0	3	0
Mean	.20	.14	.12	.15	.51	55.2	1.11	.61	.41	.37	2.60	17.7
Acre-Feet	12	8.1	7.3	9.3	28	3390	66	37	24	23	160	1050

Year Mean 6.66
Year Total Acre-Feet 4810

F. C. Dist. Form 52 150 4-38

Remarks:

STATION F192R

RIO HONDO at Lower Azusa Road

LOCATION:

On the downstream end of the extreme westerly pier of Lower Azusa Road bridge, about 1½ miles north of El Monte.

DRAINAGE AREA:

Indeterminate due to a natural split near Arrow Highway which 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.

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. Cableway is normal to channel.

RECORDER:

Installed March 29, 1932 in an F. C. standard type house over a 21 inch diameter, corrugated iron pipe stilling well.
An Au continuous recorder, in service October 1, 1936, was replaced January 15, 1938 with an H.C.F. continuous recorder.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, San Gabriel Dam No. 2 and Morris Dam, and, after November 17, 1937 by San Gabriel Dam No. 1.

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, 1938 recorder records.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 1030 second-feet, estimated, February 20.
Minimum no flow several months.
1937-1938
Maximum 31000 second-feet, estimated, March 2.
Minimum no flow several months.
1931-1938
Maximum 31000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Poor due to shifting control. At times the stream was in several channels at the recorder.
Estimated:
January 1, February 20 to March 3, April 12, 1937; March 10, 11, April 26, September 1-6, 1939.
Interpolated between discharge measurements September 7-30, 1939.

OPERATION:

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

F. C. D. FORM 104 1M 9-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 192 R

DISCHARGE MEASUREMENTS OF RIO HONDO

~~Mouth~~ Lower Azusa Road DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/17	Lindsay	6.8	1.00	0.76	1.22	0.80		.6	6	0	301P 308P	FC 28
2	10/18	Lindsay-Cole	7.5	3.05	1.52	1.66	4.6		.6	7	-.04	840P 848P	"
3	10/29	Lindsay and McArthur	21.0	20.96	3.40	2.35	71.		.6	6	+.07	752P 800P	"
4	10/30	" "	5.5	2.60	0.57	1.48	1.5		.6	5	0	1235A 1240A	"
5	10/31	" "	14.5	8.87	2.74	2.07	24.		.6	7	-.04	607A 614A	"
6	10/31	" "	6.0	1.50	1.35	1.57	2.0		.6	6	-.02	800A 805A	"
7	12/15	" "	13.5	5.39	2.11	1.88	11.		.6	6	0	805A 812A	"
8	12/15	" "	13.5	4.28	1.50	1.79	6.4		.6	6	+.06	1250P 100P	"
9	12/15	" "	16.0	10.81	2.72	2.21	29.		.6	7	-.02	843P 855P	"
10	12/16	" "	15.5	3.90	1.07	1.72	4.2		.6	8	-.01	920A 937A	"
11	12/27	" "	24.0	20.58	3.88	2.50	80.		.6	7	-.02	515P 525P	"
12	12/27	" "	70.0	43.33	2.82	2.75	122.		.6	11	+.01	1050A 1105A	"
13	12/27	" "	28.0	28.55	3.64	2.57	104.		.6	8	+.03	1100P 1125P	"
14	12/28	" "	24.0	24.06	3.39	2.44	82.		.6	9	-.01	508A 520A	"
15	12/29	Lindsay	21.5	13.35	2.47	1.99	33.		.6	8	0	1148A 1158A	"
16	12/30	Lindsay and McArthur	Two	Channels		3.11	310.		.6	13	+.03	1035P 1100P	"
17	12/31	" "	32.0	24.84	3.17	2.21	79.		.6	8	-.02	315P 330P	"
18	1/2	Lindsay	27.5	9.74	1.47	1.70	14.		.6	10	0	306P 316P	"
19	1/3	"	31.0	12.47	2.51	1.75	31.		.6	10	-.02	1115A 1130A	"
20	1/3	"	26.6	7.68	1.72	1.66	13.		.6	9	0	150P 200P	"
21	1/5	"	33.0	26.21	3.25	2.16	85.		.6	10	-.01	1227P 1247P	"
22	1/6	Lindsay and McArthur	17.0	3.14	1.02	1.42	3.2		.6	5	0	932A 938A	"
23	1/7	Lindsay	33.5	25.09	3.35	2.17	84.		.6	10	+.02	1130A 1150A	"
24	1/8	"	33.5	23.65	2.47	1.96	58.		.6	9	0	155P 205P	"
25	1/11	Lindsay	33.0	27.32	2.29	1.87	63.		.6	11	+.02	102P 115P	FC 28
26	1/12	Lindsay and Mc Arthur	32.0	19.66	2.82	1.86	56.		.6	11	+.01	255P 310P	"
28	1/14	Lindsay	33.0	23.46	2.81	1.88	66.		.6	11	-.01	938A 958A	"
29	1/15	"	33.0	24.02	2.44	1.86	58.		.6	11	0	425P 435P	"
31	1/31	"	18.5	9.29	1.25	1.44	7.9		.6	9	0	925A 935A	"
32	2/5	"	18.7	9.74	1.24	1.40	8.3		.6	8	0	1105A 1115A	"
33	2/6	Lindsay and McArthur	Two	Channels		2.48	137.		.6	19	-.08	1145A 1207P	"
34	2/6	" "	Two	Channels		2.74	220.		.6	16	+.06	508P 530P	"
35	2/7	" "	35.0	34.97	3.95	2.39	138.		.6	9	0	1005A 1020A	"
36	2/6	Lindsay	33.5	17.27	2.55	1.96	44.		.6	11	+.01	405P 420P	"
37	2/9	"	35.0	34.41	3.49	2.20	120.		.6	11	-.01	1050A 1105A	"
38	2/10	"	39.0	45.62	4.21	2.48	193.		.6	10	0	855A 910A	"
39	2/11	"	24.0	9.86	1.66	1.47	16.		.6	8	-.01	102P 113P	"
40	2/13	Lindsay and McArthur	Two	Channels		2.60	192.		.6	13	+.01	1050P 1110P	"
41	2/14	" "	Two	Channels		2.50	182.		.6	14	0	905A 925A	"
42	2/14	" "	37.0	36.5	3.65	2.26	133.		.6	9	-.03	350P 410P	"
43	2/16	" "	53.0	60.08	4.89	2.61	294.		.6	10	0	1000A 1015A	"
44	2/17	" "	45.0	41.86	4.38	2.50	183.		.6	11	0	235P 249P	"
45	2/16	Lindsay	78.0	120.5	5.17	3.14	623.		.6	9	0	1005A 1025A	"
46	2/18	Lindsay and McArthur	77.0	111.8	4.93	3.10	551.		.6	11	+.04	505P 545P	"
47	2/19	" "	81.0	138.2	5.53	3.36	764.		.6	13	-.05	206P 225P	"
48	2/19	" "	Two	Channels		3.54	984.		.6	13	-.01	840P 910P	"
49	2/20	" "	Three	Channels		3.77	960.		.6	18	-.05	940A 1020A	"
50	2/20	" "	Two	Channels		3.49	760.		.6	18	-.02	1125P 135P	"
51	2/22	Lindsay and McArthur	Two	Channels		2.98	821.		.6	21	+.04	945A 1016A	FC 28
52	2/23	Lindsay	Two	Channels			38.		.6	13		1020A 1035A	"
53	2/24	"	14.0	6.01	2.27		14.		.6	7		1120A 1127A	"
54	2/26	"	41.0	18.74	3.09		58.		.6	11		1150A 1205P	"
55	2/27	"	42.0	25.08	3.54		89.		.6	11		1025A 1040A	"
56	3/1	"	41.5	11.04	2.12		23.		.6	11		210P 220P	"
57	3/3	"	39.5	15.96	2.55		41.		.6	11		1013A 1029A	"
58	3/5	"	57.0	23.03	2.60	3.08	60.		.6	15	0	132P 150P	"
59	3/12	Lindsay and McArthur	58.0	31.33	3.22	3.13	101.		.6	12	-.01	1140A 1158A	"
60	3/12	" "	32.0	8.82	1.42	2.81	12.		.6	10	-.02	435P 445P	"
61	3/13	" "	40.0	14.87	2.53	2.91	38.		.6	12	+.01	828A 838A	"
62	3/15	Lindsay	74.0	61.55	4.04	3.27	249.		.6	10	0	1242P 1259P	"
63	3/16	Lindsay and McArthur	Two	Channels		3.75	693.		.6	22	-.13	1205A 1255A	"
64	3/16	" "	Two	Channels		3.61	636.		.6	22	0	1027A 1040A	"
65	3/17	" "	Two	Channels		3.62	654.		.6	19	-.01	1140A 1215P	"
66	3/19	Lindsay	Two	Channels		3.52	443.		.6	15	0	1132A 1152A	"
67	3/22	Lindsay and McArthur	Two	Channels		3.16	126.		.6	17	+.01	1100A 1110A	"
68	3/24	Lindsay	Two	Channels		3.45	442.		.6	16	0	1210P 1245P	"
69	3/26	"	Two	Channels		3.08	168.		.6	15	-.01	1055A 1116A	FC 21
70	3/29	"	37.0	17.32	2.28	2.62	39.		.6	10	0	1242P 1256P	"
71	3/31	"	28.0	15.12	2.40	2.60	36.		.6	10	0	230P 244P	FC 28
72	4/2	"	45.0	26.41	2.55	2.76	68.		.6	14	-.01	1012A 1025A	"
73	4/5	"	35.0	23.93	2.83	2.69	68.		.6	10	+.02	1241P 1253P	"
74	4/7	Lindsay	36.5	27.45	2.97	2.74	82.		.6	11	0	1020A 1034A	FC 28
75	4/9	"	40.0	31.22	2.86	2.72	89.		.6	11	-.02	928A 942A	"
76	4/12	"	16.0	3.48	0.82	1.44	2.8		.6	6	0	1046A 1054A	"
78	4/19	"	22.0	15.00	2.79	2.00	42.		.6	7	+.01	1120A 1129A	"
79	4/21	"	20.0	14.13	2.82	2.01	40.		.6	7	0	953A 1004A	"
80	4/23	"	20.0	14.16	2.65	1.99	37.		.6	7	0	105P 113P	"
81	4/26	"	18.0	9.49	2.24	1.81	21.		.6	6	0	1101A 1110A	"
82	4/28	"	22.0	17.27	2.79	2.16	48.		.6	8	0	1031A 1044A	"
83	4/30	"	20.0	11.75	2.29	1.91	27.		.6	7	0	1146A 1156A	"
84	5/3	"	21.0	11.35	2.08	1.84	24.		.6	9	0	1156A 1206P	"
85	5/5	"	20.0	12.96	2.40	1.92	31.		.6	8	0	130P 143P	"
86	5/7	"	25.0	16.19	2.24	1.96	36.		.6	8	0	142P 152P	"
87	5/10	"	22.0	12.73	2.10	1.86	27.		.6	8	0	151P 206P	"
88	5/12	"	18.0	8.71	1.76	1.70	15.		.6	7	0	301P 309P	"
89	5/14	"	19.0	8.86	1.70	1.73	15.		.6	8	-.02	1232P 1242P	"
90	5/17	"	15.0	7.41	1.40	1.62	10.		.6	8	0	101P 111P	"
91	5/19	"	19.0	11.46	2.33	1.87	27.		.6	8	0	106P 115P	"
92	5/21	"	Two	Channels		2.08	48.		.6	14	0	215P 238P	"
93	5/24	"	14.0	5.08	1.38	1.57	6.9		.6	7	0	302P 312P	"
94	5/28	"	12.0	4.48	1.23	1.49	5.5		.6	6	0	1047A 1055A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 192 R

DISCHARGE MEASUREMENTS OF RIO HONDO

~~Mouth~~ Lower Azusa Road DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
96	12/11	Lindsay-Ingram	Two	Channels		2.64	98.		.6	7	+.08	637P 645P	FC 28
97	12/11	" "	26.0	12.57	2.70	2.11	34.		.6	7	-.03	953P 1002P	"
98	12/23	" "	22.0	5.89	1.47	1.76	8.7		.6	7	-.03	555A 605A	"
99	1/15	" "	28.0	19.95	3.23	2.32	64.		.6	9	-.10	1050A 1057A	"
100	2/1	" "	13.0	3.65	1.16	1.78	4.2		.6	5		920A 926A	"
101	2/3	" "	24.	8.46	1.57	2.00	13.		.6	7	-.01	435P 442P	"
102	2/3	" "	75.	65.2	4.01	2.95	262.		.6	9	+.02	1012P 1025P	"
103	2/4	" "	Two	Channels		2.42	53.		.6	14	-.04	958A 1007A	"
104	2/4	" "	Two	Channels		2.44	53.		.6	13	0	435P 448P	"
105	2/5	" "	Two	Channels		2.34	37.		.6	12	0	1008A 1018A	"
106	2/7	Lindsay	21.0	7.23	1.46	2.02	11.		.6	7	0	1057A 1108A	"
107	2/9	Lindsay-Ingram	Two	Channels		2.40	53.		.6	14	+.01	725A 737A	"
108	2/9	" "	Two	Channels		2.48	75.		.6	14	-.11	232P 244P	"
109	2/9	" "	25.	9.36	1.64	2.12	15.		.6	7	0	957P 1007P	"
110	2/10	Ingram-Lindsay	21.	8.34	1.32	2.02	11.		.6	7	0	900A 915A	"
111	2/11	Lindsay-Ingram	Two	Channels		2.68	134.		.6	14	+.06	1055A 1110A	"
112	2/11	" "	Two	Channels		2.47	72.		.6	15	-.02	325P 337P	"
113	2/12	" "	Two	Channels		2.48	69.		.6	14	-.01	1129A 1142A	"
114	2/16	Lindsay	22.5	11.19	2.03	2.13	23.		.6	8	-.02	148P 155P	"
115	2/17	Lindsay	16.0	7.61	1.52	2.02	12.		.6	5	0	332P 340P	"

F. C. D. FORM 104 1M 9-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 192 R

DISCHARGE MEASUREMENTS OF RIO HONDO

AT Lower Azusa Road DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	GAGE HEIGHT CHANGE	ESTM'D %	YEAR REC'D NO.	G. HT. CHANGE TOTAL	BEGIN. END	METER NO.
116	2/25	"	Two Channels			2.59	93.		.6	15	-.01	1257P 115P	"
117	2/27	Lindsay-Ingram	Two Channels			2.69	145.		.6	13	+.02	1059A 1110A	"
118	2/27	" "	Two Channels			2.30	46.		.6	12	-.01	325P 335P	"
119	2/27	" "	23.0	12.42	2.21	2.16	27.		.6	6	+.01	556P 603P	"
120	2/28	Lindsay-Ingram	72.0	94.02	5.53	3.22	520.		.6	10	0	1008A 1020A	FC 28
121	3/1	" "	Three Channels			3.96	2100.		.6	17	+.15 -.20	340A 435A	"
122	3/2	" "	Three Channels			4.68	3860.		.6	11	+.04	1245P 130P	"
123	3/4	" "	405.	441.8	5.76	3.98	2540.		.6	20	-.13	1045A 1130A	"
124	3/5	" "	Two Channels			3.06	2730.		.6	28	+.05	1028A 1130A	"
125	3/5	Haig-Galbraith	Two Channels			3.04	3300.		.6	23		746P 904P	FC 38
126	3/6	" "	Four Channels			3.12	2400.		.6	27	-.07	342P 425P	"
127	3/8	" "	Four Channels			3.07	2970		.6	22	+.02	1126A 1202P	"
128	3/8	" "	Four Channels			3.65	3450.		.6	26		331P 405P	"
129	3/9	" "	Two Channels			3.96	3680.		.6	27	+.32	155P 240P	"
130	3/10	Haig	Two Channels			3.15	2370.		.6	13	+.10	102P 147P	"
131	3/11	Lindsay-Ingram	Three Channels			3.06	1000.		.6	22	0	1040A 1108A	FC 28
132	3/12	" "	Three Channels			3.56	1930.		.6	20		345P 415P	"
133	3/15	Lindsay	Three Channels			3.22	1530		.6	24	-.07	240P 330P	"
134	3/17	"	Two Channels			2.97	1260.		.6	16	-.02	925A 1000A	"
135	3/17	"	84.0	38.85	1.45	1.79	56.		.6	10	-.02	215P 230P	"
136	3/18	"	Three Channels			2.98	1300.		.6	16	-.01	125P 205P	"
137	3/22	Lindsay	Three Channels			2.54	265.		.6	20	+.03	132P 200P	"
138	3/24	"	Three Channels			2.89	1030.		.6	19		1055A 1125A	"
139	3/28	"	Three Channels			2.83	960.		.6	23	0	100P 145P	"
140	3/31	"	Three Channels			1.84	152.		.6	17	-.08	1230P 1255P	"
141	3/31	"	29.0	9.06	1.61	1.28	15.		.6	8	-.01	418P 430P	"
142	4/6	Lindsay-Haig	Four Channels			3.03	1750.		.6	24	+.12	330P 410P	"
143	4/11	Haig	Four Channels			2.33	1420.		.6	27	+.40	1135A 1256P	FC 38
144	4/14	Lindsay-Ingram	Three Channels			1.66	223.		.6	22	+.01	1217P 1242P	FC 28
145	4/18	Haig	Two Channels			1.52	272.		.6	24	+.04	1208P 1250P	FC 38
146	4/21	"	Two Channels			1.41	238.		.6	24		1149A 1230P	"
147	7/13	Lindsay	Three Channels			2.66	24.		.6	15	0	1047A 1105A	FC 28
148	7/15	"	Two Channels			2.76	35.		.6	13	0	746A 804A	"
149	7/22	"	Three Channels			3.24	160.		.6	27	0	838A 908A	"
150	7/25	"	Four Channels			3.25	150.		.6	31	0	925A 1020A	"
151	7/27	"	Three Channels			3.24	161.		.6	30	0	845A 922A	"
152	7/29	"	Four Channels			3.18	147.		.6	27	-.01	937A 1007A	"
153	8/1	"	Three Channels			3.07	117.		.6	28	0	908A 938A	"
154	8/3	"	Three Channels			3.09	122.		.6	27	0	908A 938A	"
155	8/5	"	Two Channels			3.05	110.		.6	21	0	920A 945A	"
156	8/8	"	Two Channels			3.12	134.		.6	21	0	1055A 1125A	"
157	8/12	"	Two Channels			3.00	98.		.6	22	0	955A 1025A	"
158	8/15	"	Two Channels			3.03	102.		.6	20	0	900A 935A	"
159	8/19	"	Two Channels			3.00	95.		.6	23	0	935A 1000A	"
160	8/22	"	Two Channels			3.00	91.		.6	22	0	827A 857A	"
161	8/25	"	Two Channels			2.95	74		.6	22	0	915A 940A	"
162	8/31	Brewster	26.0	33.80	2.43	2.92	82.		.6	7	0	220P 235P	FC 8
163	9/7	"	10.0	2.36	1.10	2.14	2.6		.6	5	0	1230P 1240P	"
164	9/16	Lindsay	6.5	1.37	1.66	2.53	2.3		.6	6	0	955A 1003A	FC 28
165	9/21	"	6.5	1.36	1.88	2.52	2.6		.6	7	0	925A 934A	"
166	9/29	"	6.5	.92	.66	2.58	.6		.6	7	0	1243P 1250P	"

Staff gage datum plane lowered 2.00 feet

F. C. Dist. Form 52 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F192R

Daily discharge, in second-feet of RIO HONDO at Lower Azusa Road for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	64	1170	331	+	0	0	109	60
2	0	0	0	0	76	1055	531	+	0	0	109	60
3	0	0	0	0	62	2960	735	+	0	0	112	70
4	0	0	0	0	52	2880	909	+	0	0	103	70
5	0	0	0	0	13	2230	1780	+	0	0	106	50
6	0	0	0	0	0	4280	1800	+	0	0	152	26
7	0	0	0	0	0	3660	1780	+	0	0	127	25
8	0	0	0	0	11	4510	1780	+	0	0	115	25
9	0	0	0	0	36	2200	1520	+	0	0	106	25
10	0	0	0	0	11	2200	1520	+	0	0	97	25
11	0	0	0	0	51	1230	1120	+	0	0	97	24
12	0	0	22	0	68	1550	305	+	0	21	97	24
13	0	0	+ 01	0	48	1990	225	+	0	0	100	23
14	0	0	0	0	35	1720	222	+	0	22	100	23
15	0	0	0	12	25	1350	225	+	0	29	103	23
16	0	0	0	0	24	780	284	+	0	28	106	23
17	0	0	0	+	13	1200	260	+	0	+	100	23
18	0	0	0	+	10	1460	210	+	0	0	92	23
19	0	0	0	0	9	1120	199	+	0	0	92	23
20	0	0	0	0	0	596	225	+	0	91	92	23
21	0	0	0	0	0	2900	241	+	0	155	87	22
22	0	0	0	0	14	773	237	+	0	155	81	18
23	0	0	0	0	9	1010	222	+	0	150	75	18
24	0	0	0	0	83	986	107	0	0	147	68	18
25	0	0	0	0	81	986	102	0	0	150	71	17
26	0	0	0	0	78	986	+	0	0	150	73	17
27	0	0	0	0	342	986	+	0	0	144	79	06
28	0	0	0	0		986	+	0	0	127	81	06
29	0	0	0	0		986	+	0	0	115	84	06
30	0	0	0	0		976	+	0	0	115	3019	06
31	0		275	12		11904	65309			15815		4291
Mean	0	0	.89	.39	42.5	2107	544	+	0	51.0	97.4	14.3
Acre-Feet	0	0	55	24	2360	129500	32400	+	0	3140	5990	851

Year ending September 30, 1938: Mean 241, Acre-Feet 174300

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

F. C. Dist. Form 52 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

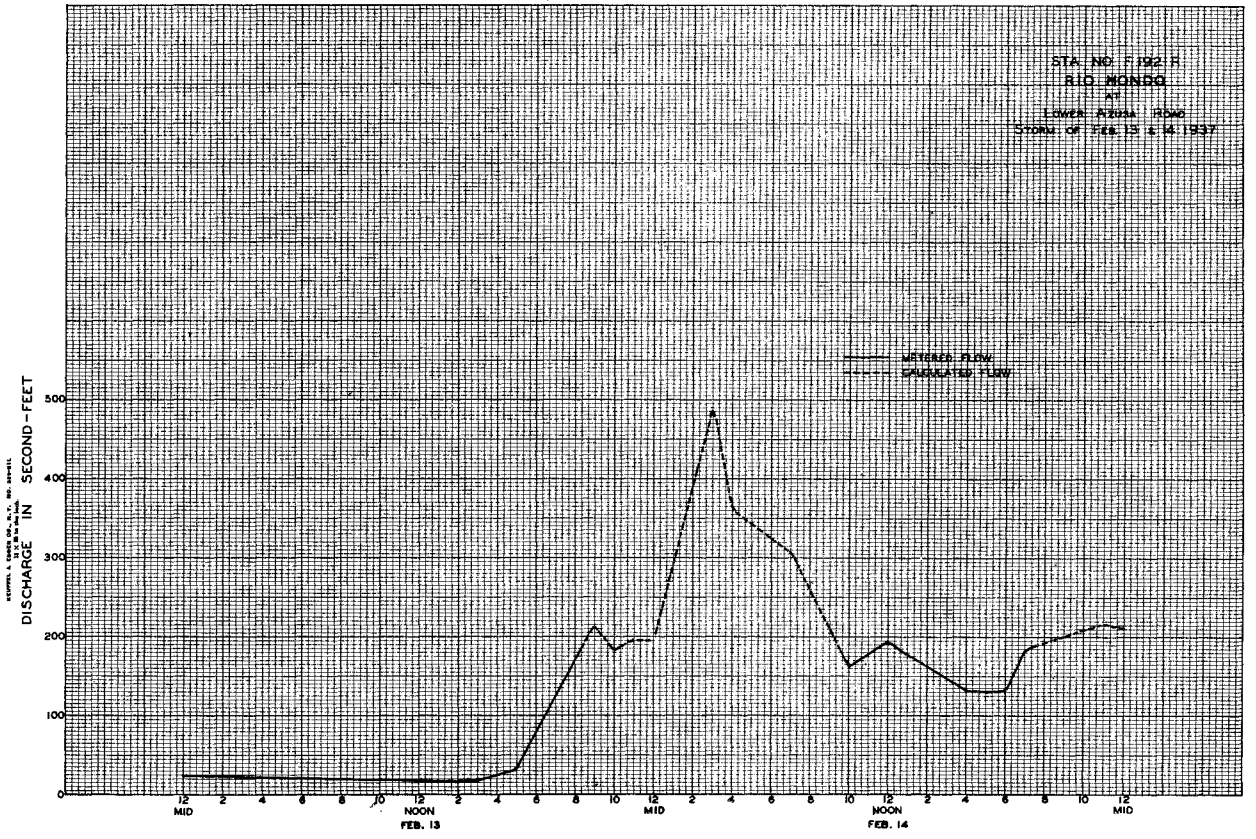
Sta. No. F192R

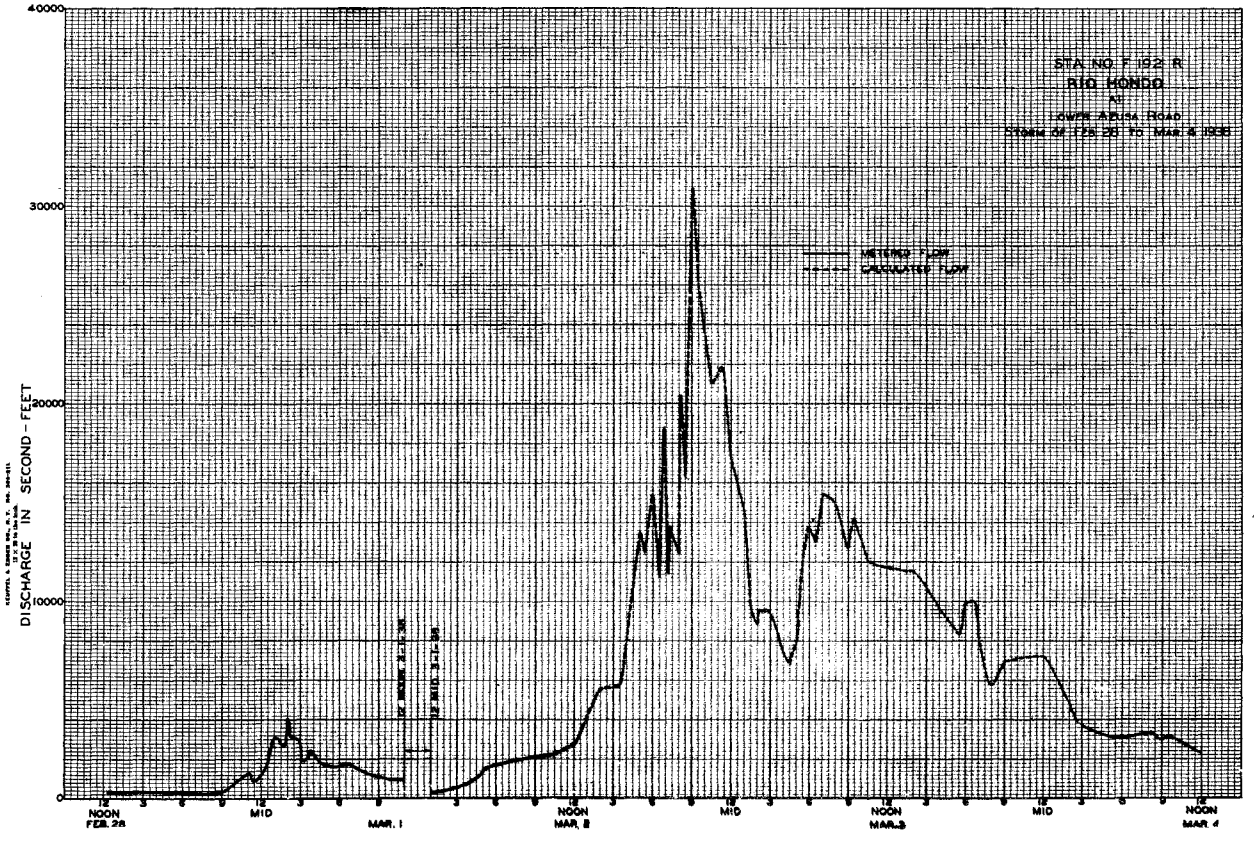
Daily discharge, in second-feet of RIO HONDO at Lower Azusa Road for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	33	25	23	60	29	0	0	0	0
2	0	0	0	44	55	41	72	23	0	0	0	0
3	0	0	0	45	75	39	74	23	0	0	0	0
4	0	0	0	15	75	85	72	29	0	0	0	0
5	0	0	0	89	133	60	76	34	0	0	0	0
6	0	0	0	11	119	81	81	34	0	0	0	0
7	0	0	0	70	163	60	77	29	0	0	0	0
8	0	0	0	54	105	20	85	28	0	0	0	0
9	0	0	0	53	100	31	74	25	0	0	0	0
10	0	0	0	54	19	58	70	25	0	0	0	0
11	0	0	0	60	28	139	20	19	0	0	0	0
12	0	0	0	61	59	139	00	17	0	0	0	0
13	0	0	0	50	233	340	00	15	0	0	0	0
14	0	0	0	63	230	340	00	13	0	0	0	0
15	0	0	0	58	290	686	00	11	0	0	0	0
16	0	15	0	40	333	676	108	11	0	0	0	0
17	16	+	0	01	602	337	165	23	0	0	0	0
18	+	0	0	0	722	410	42	21	0	0	0	0
19	0	0	0	0	871	216	45	23	0	0	0	0
20	0	0	0	0	904	146	40	36	0	0	0	0
21	0	0	0	0	600	135	46	16	0	0	0	0
22	0	0	0	0	335	261	46	8	0	0	0	0
23	0	0	0	0	20	468	32	7	0	0	0	0
24	0	0	0	0	18	333	25	6	0	0	0	0
25	0	0	0	0	65	166	28	75	0	0	0	0
26	0	0	0	0	89	107	34	75	0	0	0	0
27	0	0	0	0	62	161	38	55	0	0	0	0
28	0	0	0	01		63	16	55	0	0	0	0
29	15	0	0	0		51	32	48	0	0	0	0
30	2	0	0	0		49		0	0	0	0	0
31	26		0	0								
	95	0	0	7992	5961	5197	1434	549	0	0	0	0
Mean	1.07	0	0	25.8	203	168	47.8	17.7	0	0	0	0
Acre-Feet	66	0	0	1590	11300	10310	2840	1090	0	0	0	0

Year ending September 30, 1938: Mean 38.6, Acre-Feet 27940

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


STA. NO. F 192 R
RIO HONDO
AT
LOWER AZUSA ROAD
STORM OF FEB. 13 & 14, 1937
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
0
100
200
300
400
500
12 MID
2
4
6
8
10
12 NOON
FEB. 13
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON
FEB. 14
2
4
6
8
10
12 MID


STA. NO. F 192 R
RIO HONDO
AT
LOWER AZUSA ROAD
STORM OF FEB. 28 TO MAR. 4, 1938
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
0
10000
20000
30000
40000
12 NOON
FEB. 28
12 MID
MAR. 1
12 NOON
MAR. 2
12 MID
12 NOON
MAR. 3
12 MID
12 NOON
MAR. 4

STATION F64R

RIO HONDO 1000 ft. above Mission Bridge

LOCATION:

On west (right) side of Rio Hondo approximately 1000 feet above Mission bridge, two miles northeast of Montebello.
This is the station operated in 1923 by the State Division of Water Rights.
The recorder was temporarily maintained in the original recorder house of the State Division of Water Rights located on the upstream side of Mission bridge known as station F 64B-R while station F 64 R was being rebuilt following the March 2, 1938 storm.

DRAINAGE AREA:

Indeterminate due to a natural split near Arrow Highway which 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.

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 an F. C. standard type house over a 2 ft. x 4-1/2 ft. wooden stilling well; recorder removed about 10 P.M. March 2, 1938. The stilling well and house were washed out on March 2, 1938; on March 8, 1938 the recorder was installed at the temporary station F64B-R.
On March 26, 1938 the recorder was removed from station F64B-R and reinstalled at station F64R in a 42 inch diameter, corrugated iron pipe which serves both as a stilling well and as a house.
An Au continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dam No. 2, by Los Flores and Rubio Debris Basins, by Eaton Dam, and, after November 17, 1937 by San Gabriel Dam No. 1.

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, 1938 (for records prior to July, 1928 see State Division of Water Rights Bulletins). (Records from March 6, 1938 to March 25, 1938 are from station F 64 B-R).

EXTREMES OF DISCHARGE:

1936-1937
Maximum 4600 second-feet March 15.
Minimum 2.5 second-feet August 19.
1937-1938
Maximum 28000 second-feet, estimated, March 2.
Minimum 11 second-feet, various times in October.
1928-1938
Maximum 28000 second-feet, estimated, March 2, 1938.
Minimum 0.3 second-foot December 1, 1933.

ACCURACY:

Poor due to badly shifting control.
Estimated:
January 9-12, 1937; January 30,31, March 10, 11, 17, 20-22, 26-28, April 11-14, 1938.
Interpolated:
November 3-5, 1936.
Clock Stopped:
December 31, 1936; January 1-5, March 12, 13, November 15-17, 1937; April 28, 29, 1938.
Discharges from temporary station F 64 B-R March 6-25, 1938.

OPERATION:

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 1M 8-37

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, 19 37

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.	METH-OD	MEAS. AREA NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Brewster	27.0	9.63	1.11	3.70	11		.6	9	0	920A 935A	FC 8
2	10/8	"	15.0	6.84	1.48	3.67	10		.6	8	0	920A 932A	"
3	10/15	"	31.0	9.75	1.12	3.68	11		.6	11	0	905A 920A	"
4	10/17	Lindsay-Cole	44.5	27.54	2.08	4.14	57		.6	10	-.01	100P 110P	FC 28
5	10/18	" "	96.0	173.5	4.86	5.26	844		.6	8	-.27	612P 630P	"
6	10/18	" "	96.0	160.0	4.41	5.00	705		.6	8	-.26	630P 642P	"
7	10/19	Cole-Lindsay	29.0	27.94	1.21	3.64	34		.6	8	0	1242A 1258A	"
8	10/22	Brewster	26.0	9.61	1.29	3.58	12		.6	9	0	900A 918A	FC 8
9	10/29	"	38.0	9.04	1.13	3.60	10		.6	10	0	925A 947A	"
10	10/29	Cole-Baustian	95.0	110.7	2.86	4.64	317		.6	10	+.06	1031P 1103P	FC 7
11	10/29	" "	95.0	90.2	2.81	4.65	254		.6	8	-.04	1105P 1123P	"
12	10/30	Lindsay	49.3	23.04	1.31	3.73	30		.6	11	+.02	1105A 1120A	FC 28
13	10/31	Cole-Baustian	93.0	102.2	2.34	4.61	239		.6	12	-.02	547A 605A	FC 7
14	10/31	" "	93.0	77.08	3.00	4.57	231		.6	11	-.06	605A 618A	"
15	10/31	" "	55.0	37.76	1.32	3.93	50		.6	12	-.02	925A 940A	"
16	11/5	Brewster	22.0	9.42	1.58	3.68	15		.6	8	0	910A 925A	FC 8
17	11/12	"	Two	Channels		3.66	12		.6	9	0	925A 940A	"
18	11/19	"	9.0	5.63	1.90	3.64	11		.6	9	0	927A 945A	"
19	11/25	"	Two	Channels		3.70	13		.6	10	0	947A 1002A	"
20	12/3	"	17.0	8.86	1.43	3.68	13		.6	6	0	930A 942A	"
21	12/10	"	16.0	7.28	1.60	3.70	12		.6	8	0	924A 936A	"
22	12/15	Cole-Baustian	103	81.25	2.13	4.47	173		.6	15	-.01	1211A 1238A	FC 7
23	12/15	Lindsay	95.0	103.7	2.57	4.67	266		.6	13	-.04	923A 943A	FC 28
24	12/15	Cole-Baustian	102.5	73.92	1.85	4.41	137		.6	17	-.03	320P 337P	FC 7
25	12/16	Lindsay-McArthur	28.5	21.8	1.63	3.76	.35		.6	9	+.03	1105A 1120A	FC 28
26	12/17	Brewster	26.0	10.84	1.53	3.66	17		.6	9	0	935A 950A	FC 8
27	12/23	"	29.0	10.11	1.48	3.67	15		.6	10	0	940A 952A	"
28	12/27	Cole-Baustian	108.0	275.4	7.11	6.33	1960		.6	9	-.42	830A 902A	FC 7
29	12/27	" "	110.0	273.7	7.22	6.25	1980		.6	9	-.26	756A 828A	"
30	12/27	" "	48.0	84.00	4.34	4.22	364		.6	9	0	120P 136P	"
31	12/27	Lindsay-McArthur	34.0	51.30	3.41	4.02	177		.6	8	+.01	610P 630P	FC 28
32	12/28	Linden-Anderson	97.0	162.0	5.71	4.96	930		.6	10	-.38	200A 220A	FC 27
33	12/28	" "	52.0	94.7	3.16	4.08	300		.6	6	-.07	420A 440A	"
34	12/28	" "	48.0	78.9	2.36	3.99	186		.6	5	-.03	505A 525A	"
35	12/28	Anderson-Linden	48.0	64.8	1.74	3.91	106		.6	9	+.02	610A 630A	"
36	12/28	Lindsay-McArthur	45.0	46.55	3.11	3.96	145		.6	10	0	805A 820A	FC 28
37	12/28	Linden-Anderson	102	146.4	4.75	4.77	639		.6	11	-.15	220A 245A	FC 27
38	12/30	" "	120.0	347.8	6.69	6.42	2330		.6	12	-.25	1155P 1240A	FC 34
39	12/30	Cole-Baustian	54.0	66.0	3.31	4.31	218		.6	7	-.02 +.09	533P 542P	FC 7
40	12/30	" "	97.0	192.1	5.33	5.31	1020		.6	9	-.11	620P 640P	"
41	12/31	Linden-Anderson	120.0	322.0	5.38	6.07	1890		.6	12	-.36	1245A 110A	FC 34
42	12/31	Anderson-Linden	100.0	201.7	5.42	5.26	1090		.6	11	-.17	200A 220A	"
43	12/31	Linden-Anderson	100.0	207.0	5.17	5.17	1070		.6	11	-.18	225A 250A	FC 37
44	12/31	Cole	51.0	69.5	3.67	3.98	255		.6	11	-.09	1012A 1033A	FC 7
45	1/6	Cole-Baustian	64.5	61.14	2.80	4.24	171		.6	11	-.19	821A 839A	"
46	1/6	Cole	37.0	21.65	1.79	3.67	39		.6	9	0	425P 442P	"
47	1/7	Brewster	47.0	48.21	2.50	4.03	120		.6	7	+.04	1000A 1020A	FC 8
48	1/12	Cole-Baustian	57.0	68.2	4.10	4.45	280		.6	7	-.07	515P 528P	FC 7
49	1/13	Cole	47.0	21.45	1.36	3.72	29		.6	9	0	930A 948A	"
50	1/14	Brewster	46.0	36.16	2.61	4.06	94		.6	12	0	959A 1020A	FC 8
51	1/21	"	21.0	9.24	1.77	3.73	16		.6	8	0	1008A 1020A	"
52	1/28	"	29.0	10.52	1.35	3.67	14		.6	10	0	930A 945A	"
53	1/29	Lindsay	50.0	43.46	2.26	4.16	98		.6	8	-.01 +.01	855A 906A	FC 28
54	1/30	Cole-Baustian	60.5	58.67	2.66	4.37	156		.6	12	-.03	332P 344P	FC 7
55	1/30	" "	97.0	173.8	6.37	5.36	1110		.6	8	-.43	637P 658P	"
56	2/4	Brewster	33.0	16.26	1.35	3.75	22		.6	8	0	940A 958A	FC 8
57	2/6	Cole-Baustian	108.0	264.6	7.20	6.23	1900		.6	11	-.45	1057A 1130A	FC 7
58	2/6	" "	102.0	237.1	6.48	5.84	1540		.6	8	-.32	1130A 1148A	"

F.C.D. FORM 104 1M 9-37

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, 19 37

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.	KEPT. BY	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
59	2/6	Linden-Anderson	109.0	224.7	5.90	6.02	1330		.6	13	+.45	115P 140P	FC 27
60	2/6	" "	115.0	290.5	7.23	6.15	2100		.6	12	+.33	150P 215P	"
61	2/6	" "	95.0	114.4	4.13	4.68	472		.6	10	-.27	945P 1015P	"
62	2/7	Cole	46.0	65.05	3.12	4.38	203		.6	9	+.09	1050A 1110A	FC 7
63	2/10	Bonadiman	60.0	75.61	3.21	4.58	243		.6	12	-.05	130P 155P	FC 9
64	2/11	Brewster	43.0	18.76	2.01	3.94	38		.6	11	0	947A 1010A	FC 8
65	2/11	Cole	44.5	24.30	1.55	4.00	40		.6	10	0	515P 530P	FC 7
66	2/13	"	Two Channels			4.66	191		.6	8	+.12	450P 508P	"
67	2/13 2/14	Linden-Anderson	140.0	329.5	6.93	6.49	2280		.6	14	+.20	1145P 1230A	FC 27
68	2/14	" "	106.0	242.6	6.91	6.00	1680		.6	12	-.35	505A 525A	"
69	2/14	Anderson-Linden	105.0	214.0	6.42	5.82	1370		.6	12		540A 606A	
70	2/14	" "	106.0	218.3	5.26	5.65	1150		.6	11		645 710	"
71	2/14	Linden-Anderson	105.0	187.5	5.60	5.54	1050		.6	11		750A 800A	"
72	2/14	Linden-Anderson	140.0	365.3	7.49	6.63	2740		.6	14		1240A 125A	FC 27
73	2/16	Cole	96.0	109.6	3.18	4.72	330		.6	12		1258P 120P	FC 36
74	2/16	Bonadiman	95.0	101.7	3.78	4.55	385		.6	9	-.03	211P 229P	FC 9
75	2/17	"	100.0	104.4	3.77	4.62	395		.6	9	+.12	1112A 1135A	"
76	2/19	"	97.0	147.5	5.76	5.27	849		.6	8	+.14	1122A 1145A	"
77	2/19	Cole-Baustian	97.5	137.7	5.65	5.27	779		.6	11		505P 526P	FC 36
78	2/20	Bonadiman	104.0	171.7	4.87	5.48	836		.6	9	-.04	830A 852A	FC 9
79	2/22	"	99.0	136.1	5.74	5.47	782		.6	8	+.01	830A 847A	"
80	2/23	"	60.0	42.55	2.24	4.46	95		.6	6	0	910A 927A	"
81	2/24	Cole-Baustian	103.5	71.8	2.48	4.78	177		.6	20	-.07	1107P 1130P	FC 36
82	2/25	Brewster	41.0	21.18	1.82	4.25	39		.6	11	0	915A 940A	FC 8
83	2/25	Cole-Baustian	102.0	97.79	2.91	5.02	290		.6	14	+.05	215P 235P	FC 36
84	3/4	Brewster	Two Channels			4.55	81		.6	13	-.04	930A 950A	FC 8
85	3/11	"	70.0	40.12	2.02	4.64	81		.6	9	0	940A 955A	"
86	3/12	Cole	96.0	110.7	3.27	5.12	363		.6	9	-.07	755P 820P	FC 36
87	3/13	Cole-Baustian	96.5	72.5	4.73	4.95	343		.6	9	-.10	810A 825A	"
88	3/15	Cole	96.5	94.7	1.70	5.11	287		.6	9	+.03	503P 522P	"
89	3/15	Cole-Baustian	109.0	256.4	7.51	6.26	1920		.6	9		957P 1027P	
90	3/16	Cole	104.0	148.4	4.74	5.62	704		.6	9		203P 220P	FC 1
91	3/22	Cole-Baustian	97.5	103.5	2.72	5.13	280		.6	13	-.04	1045A 1100A	"
92	3/25	Brewster	92.0	134.2	4.23	5.55	568		.6	10	-.10	915A 1005A	FC 8
93	3/26	Bonadiman	95	73.35	2.80	5.04	206	Sus.	.6	8	0	800A 817A	FC 9
94	3/29	"	Two Channels			4.95	96		.6	7	+.02	822A 840A	"
95	3/30	"	Two Channels			4.92	94		.6	9	0	750A 808A	"
96	4/1	Brewster	92.0	41.58	1.93	4.97	80		.6	10	4.02	945A 1003A	FC 8
97	4/3	Bonadiman	95	68.45	2.10	4.98	144		.6	10	0	926A 945A	FC 9
98	4/5	"	95	63.05	2.23	5.02	137		.6	10	0	856A 916A	"
99	4/6	"	95	63.10	1.80	5.04	113		.6	10	0	800A 825A	"
100	4/7	"	95	65.05	2.04	5.04	143	Sus.	.6	12	0	815A 835A	"
101	4/8	Brewster	101.0	53.60	2.27	5.06	122		.6	11	+.01	910A 932A	FC 8
102	4/14	"	42.0	16.28	1.51	4.77	25		.6	11	+.02	1050A 1110A	"
103	4/19	Bonadiman	95	34.4	1.63	4.92	56		.6	12	0	758A 817A	FC 9
104	4/22	Brewster	70.0	32.52	1.80	4.84	59		.6	10	0	1000A 1015A	FC 8
105	4/26	Bonadiman	54	22.34	1.42	4.73	32		.6	11	-.01	758A 814A	FC 9
106	4/29	Brewster	40.0	18.80	1.90	4.62	36		.6	10	0	925A 940A	FC 8
107	5/3	Bonadiman	Two Channels			4.78	35		.6	13		821A 837A	FC 9
108	5/6	Brewster	64.0	28.96	1.68	4.86	49		.6	8	0	935A 955A	FC 8
109	5/10	Bonadiman	95	32.50	1.13	4.82	37		.6	12	0	837A 855A	FC 9
110	5/13	Brewster	Two Channels			4.74	35		.6	12	+.01	917A 941A	FC 8
111	5/17	Bonadiman	32	12.30	1.26	4.70	16		.6	10	0	855A 906A	FC 9
112	5/20	Brewster	Two Channels			4.77	33		.6	11	0	926A 948A	FC 8
113	5/24	Bonadiman	31.5	13.11	1.52	4.64	20		.6	8	0	907A 919A	FC 9
114	5/27	Brewster	Two Channels			4.64	21		.6	12	0	935 955	FC 8
115	6/1	Bonadiman	Two Channels			4.80	19		.6	12	+.02	115P 132P	FC 9
116	6/3	Brewster	Two Channels			4.68	12		.6	11	0	955A 1015A	FC 8
117	6/7	Bonadiman	Three Channels			4.85	22		.6	13	0	105P 125P	FC 9
118	6/10	Brewster	35.0	9.87	1.12	4.77	11		.6	9	0	925A 940A	FC 8
119	6/17	"	25.0	9.23	1.28	4.74	12		.6	9	0	935A 950A	"
120	6/24	Brewster	26.0	8.38	1.21	4.71	10		.6	9	0	927A 944A	FC 8
121	7/1	Brewster	20.0	8.73	1.36	4.74	12		.6	7	0	923A 936A	FC 8
122	7/8	"	20.0	6.60	1.32	4.66	8.7		.6	7	0	927A 939A	"
123	7/15	"	19.0	7.19	1.29	4.70	9.2		.6	7	0	923A 937A	"
124	7/22	"	16.0	7.76	1.33	4.70	10		.6	6	0	915A 930A	"
125	7/29	"	14.0	7.34	1.47	4.70	11		.6	7	0	840A 855A	"
126	8/5	"	18.0	7.38	1.33	4.69	9.8		.6	9	0	860A 905A	"
127	8/12	"	21.0	8.61	1.39	4.69	12		.6	7	0	915A 930A	"
128	8/19	Lindsay	37.0	8.75	1.03	4.72	9.0		.6	13	0	910A 930A	FC 28
129	8/26	"	32.0	9.75	1.04	4.70	10		.6	10	0	910A 925A	"
130	9/2	Brewster	18.0	7.33	1.50	4.70	11		.6	7	0	937A 955A	FC 8
131	9/8	"	17.0	7.03	1.60	4.70	11		.6	7	0	930A 945A	"
132	9/16	"	17.0	8.35	1.35	4.69	11		.6	9	0	925A 940A	"
133	9/23	"	14.0	8.66	1.50	4.69	13		.6	7	0	933A 945A	"
134	9/30	"	20.0	9.30	1.34	4.69	12		.6	7	0	928A 940A	"

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, 19 38

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.	KEPT. BY	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
135	10/7	Brewster	16.0	8.49	1.41	4.68	12		.6	6	0	917A 928A	FC 8
136	10/14	"	17.0	7.76	1.45	4.66	11		.6	6	0	940A 952A	"
137	10/21	"	15.0	6.75	1.66	4.66	11		.6	6	0	915A 927A	"
138	10/28	"	17.0	7.39	1.60	4.68	12		.6	6	0	925A 937A	"
139	11/4	"	15.0	8.06	1.55	4.69	13		.6	6	0	930A 942A	"
140	11/10	"	15.0	7.47	1.72	4.69	13		.6	8	0	950A 1005A	"
141	11/18	"	14.0	8.20	1.61	4.70	13		.6	7	0	940A 955A	"
142	11/24	"	15.0	7.59	1.74	4.71	13		.6	8	0	945A 1000A	"
143	12/2	"	14.0	7.58	1.68	4.72	13		.6	7	0	935A 950A	"
144	12/9	"	14.0	8.46	1.48	4.70	13		.6	7	0	908A 922A	"
145	12/11	"	110.0	139.2	2.08	5.94	290		.6	10	+.08	1235P 1255P	FC 28
146	12/11	Lindsay-Ingram	105.0	138.2	2.00	6.01	277		.6	9	-.02	100P 110P	"
147	12/11	Haig-Baustian	133.0	333.0	2.10	6.84	700		.6	19	-.26	610P 721P	FC 38
148	12/12	" "	29.0	36.05	3.66	4.54	132		.6	8	-.01	115A 120A	"
149	12/12	Ingram-Lindsay	29.5	19.36	1.92	4.47	37		.6	10	+.02	1212P 1238P	FC 28
150	12/16	Brewster	17.0	9.09	1.56	4.34	14		.6	7	0	912A 925A	FC 8
151	12/23	Haig-Baustian	87.0	91.85	3.81	4.96	350		.6	10	-.15	450A 505A	FC 38
152	12/23	Brewster	20.0	15.51	2.87	4.40	44		.6	7	0	930A 945A	FC 8
153	12/26	Lindsay-Ingram	53.0	32.3	3.43	4.80	111		.6	8	+.03	105P 113P	FC 28
154	12/26	Haig-Baustian	92.0	107.0	3.50	5.38	375		.6	9	-.11	652P 709P	FC 38
155	12/30	Brewster	20.0	9.76	1.60	4.40	16		.6	7	0	930A 945A	FC 8
156	1/6	"	16.0	8.08	1.73	4.43	14		.6	5	0	924A 936A	FC 8
157	1/13	"	22.0	11.28	1.40	4.44	16		.6	6	0	932A 943A	"
158	1/15	Lindsay-Ingram	57.0	38.89	2.11	4.69	82		.6	9		440A 452A	FC 28
159	1/15	Lindsay-Ingram	60.0	47.7	3.76	4.86	179		.6	8	4.03	510A 518A	FC 28
160	1/15	" "	110.0	173.5	5.40	6.14	937		.6	8	-.19	806A 920A	"
161	1/15	" "	110.0	184.0	5.20	6.02	958		.6	8	-.07	920A 931A	"
162	1/15	Haig-Baustian	102.0	162.4	5.24	5.70	852		.6	10	-.20	1045A 1106A	FC 1
163	1/15	Ingram-Lindsay	43.0	34.22	3.03	4.51	103		.6	9	-.02	228P 242P	FC 28
164	1/15	Haig-Baustian	31.8	30.56	2.32	4.44	71		.6	15	0	331P 343P	FC 1
165	1/20	Brewster	22.0	11.08	1.68	4.38	19		.6	6	0	947A 1000A	FC 8
166	1/27	Brewster	19.0	10.52	1.73	4.38	18		.6	6	0	920A 935A	"
167	2/1	Lindsay-Ingram	150.0	457.2	7.03	7.70	3210		.6	10	+.11 -.08	455A 532A	FC 28
168	2/1	" "	150.0	426.5	6.83	7.45	2910		.6	8	-.34	532A 550A	"
169	2/1	Linden and Anderson	84.0	184.9	6.09	5.73	1120		.6	10		650A 720A	FC 27
170	2/1	"	87.0	141.4	5.20	5.66	735		.6	12	-.32	740A 805A	"
171	2/1	"	40.0	57.8	4.34	4.27	251		.6	8	-.05	920A 940A	"
172	2/1	"	35.0	45.2	4.09	4.22	185		.6	8	-.05	950A 1005A	"

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, 19 58

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.	DIFF.	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
173	2/1	Lindsay-Ingram	38.0	18.68	2.93	4.14	55		.6	10	0	252P 302P	FC 28
174	2/3	" "	44.0	23.64	1.87	4.26	44		.6	9	+.01	348A 400A	"
175	2/3	" "	53.0	90.7	4.40	5.29	399		.6	10	+.03 -.04	120P 140P	"
176	2/3	Linden-Anderson	95.0	168.8	5.74	5.74	967		.6	10	-.27	905P 930P	FC 27
177	2/3	" "	90.0	123.5	5.05	5.15	624		.6	9	-.46	1000P 1025P	"
178	2/3	" "	65.0	82.2	4.74	4.88	390		.6	10	-.01	1105P 1130P	"
179	2/4	" "	41.0	38.7	3.56	4.51	138		.6	9	+.02	450A 515A	"
180	2/4	Lindsay-Ingram	46.0	53.5	4.29	4.66	229		.6	8	-.05	1102A 1111A	FC 28
181	2/4	Haig	50.0	42.0	2.94	4.80	123		.6	14	0	357P 418P	FC 1
182	2/5	Lindsay-Thompson	52.0	33.11	2.15	4.66	71		.6	10	0	1140A 1156A	FC 28
183	2/9	Lindsay-Ingram	90.0	103.2	3.59	5.36	371		.6	9	-.05	835A 848A	FC 28
184	2/9	" "	90.0	89.2	3.91	5.33	348		.6	8	-.02	848A 858A	"
185	2/9	" "	125.0	274.0	6.18	6.58	1690		.6	8	-.15	1232P 1246P	"
186	2/9	" "	125.0	253.8	6.62	6.42	1680		.6	8	-.17	1246P 1258P	"
187	2/9	Hoffman and Trumbo	37.0	46.67	3.76	4.54	175		.6	8	-.03	519P 532P	FC 23
188	2/9	Lindsay-Ingram	80.0	75.5	4.21	5.02	318		.6	7	-.16 +.07	809P 819P	FC 28
189	2/9	" "	80.0	82.25	4.34	4.99	357		.6	7	+.01 -.06	819P 829P	"
190	2/10	Brewster	26.0	25.52	2.08	4.44	53		.6	7	+.01	1010A 1025A	FC 8
191	2/11	Lind-Trumbo	107.0	140.2	5.80	5.03	812		.6	10	+1.50	1010A 1030A	FC 23
192	2/11	" "	112.0	224.1	7.03	6.40	1570		.6	9	-.30	1040A 1100A	"
193	2/11	Lindsay-Ingram	130.0	277.5	6.37	6.56	1760		.6	10	+.08	135P 147P	FC 28
194	2/11	" "	125.0	273.8	6.45	6.39	1760		.6	11	-.38	147P 200P	"
195	2/11	Linden-Anderson	47.0	68.0	4.61	4.70	313		.6	9	-.09	440P 505P	FC 27
196	2/11	" "	50.0	62.0	4.43	4.68	275		.6	9	-.04	505P 520P	"
197	2/11	" "	43.0	56.2	4.06	4.62	228		.6	8	-.02	545P 600P	"
198	2/11		43.0	56.7	4.07	4.60	231		.6	8	-.02	600P 615P	"
199	2/12	Lindsay-Ingram	51.0	61.2	3.53	4.81	216		.6	10	+.01	915A 928A	FC 28
200	2/17	Brewster	30.0	22.00	1.63	4.48	36		.6	9	0	940A 955A	FC 8
201	2/19	Lindsay	44.0	29.47	1.65	4.60	49		.6	12	-.02	838A 853A	FC 28
202	2/24	Brewster	26.0	11.92	1.55	4.36	18		.6	7	0	933A 947A	FC 8
203	2/25	Lindsay	46.5	48.43	2.38	5.00	115		.6	11	+.04	300P 315P	FC 28
204	2/27	Lindsay-Ingram	110.0	204.8	6.15	6.15	1260		.6	10	-.02	1209P 1220P	"
205	2/27	" "	111.0	197.2	6.04	6.08	1190		.6	9	-.11	1220P 1230P	"
206	2/27	Haig-Baustian	70.0	72.78	4.70	4.86	342		.6	11	-.05	436P 454P	FC 38
207	2/27	Haig-Baustian	41.5	46.86	3.93	4.64	184		.6	12	+.08	744P 759P	FC 38
208	2/28	Lindsay-Ingram	105.0	173.5	4.37	5.60	758		.6	9	-.03	613A 626A	FC 28
209	2/28	" "	105.0	157.2	5.01	5.58	788		.6	9	-.01	626A 636A	"
210	2/28	" "	145.0	438.7	8.32	7.60	3640		.6	9	-.27	811A 828A	"
211	2/28	" "	145.0	421.7	8.19	7.55	3460		.6	9	-.01	828A 841A	"
212	2/28	Gillespie and Linden	106.0	241.9	6.10	6.13	1480			13		1110A 1210P	FC 27
213	2/28	"	106.0	223.9	6.05	5.82	1350			14		1210P 100P	"
214	2/28	"	68.0	118.7	5.23	5.19	620			12		620P 645P	"
215	2/28	"	68.0	119.7	4.98	5.18	595			12		650P 715P	"
216	2/28	"	150.5	523.6	8.73	7.90	4560			17		1035P 1140P	"
217	3/1	Linden and Gillespie	156.0	614.1	8.94	8.64	5490			17		1210A 100A	"
218	3/1	"	156.0	576.6	8.55	8.28	4990			11		110A 135A	"
219	3/2	Lindsay-Ingram	160.0	677.5	9.83	8.54	6660		.6	9	+.16	628A 650A	FC 28
220	3/2	Linden-Marchant	171.	761.9	9.93	9.32	7560			10	+.15	720A 755A	
221	3/5	Ingram-Lindsay	112.0	299.7	8.22		2640		.6	10		1245P 115P	FC 28
221A	3/6	Haig-Galbraith	111.0	327.8	8.68		2840.		.6	8		1218A 1250A	FC 38
221B	3/6	" "	105.0	259.0	7.97		2860.		.6	8		203P 220P	"
222	3/26	Lindsay-Herting	114.0	196.0	4.98	5.97	977		.6	13		455P 525P	"
223	3/28	Lindsay	113.0	189.5	5.37	6.11	1020		.6	14		850A 920A	"
224	3/31	"	64.0	76.2	2.56	5.54	195		.6	9	-.01	240P 255P	"
225	4/7	Haig	115.5	228.0	7.40	6.52	1690		.6	17		316P 354P	FC 38
226	4/11	"	114.0	204.2	7.02	6.42	1430		.6	17		326P 400P	"
227	4/14	"	111.0	115.1	3.06	5.90	352		.6	15		406P 436P	"
228	4/18	"	111.5	108.7	2.59	6.08	280		.6	21	0	246P 328P	"
229	4/21	"	121.5	104.6	2.70	5.93	283		.6	16	+.02	916A 937A	"
230	4/28	Brewster	32.0	14.92	1.49	5.30	22		.6	8	0	937A 951A	FC 8
231	5/5	Brewster	46.0	15.34	1.37	5.30	21		.6	8	0	940A 1000A	FC 8
232	5/12	"	36.0	12.72	1.33	5.30	17		.6	9	0	932A 950A	"
233	5/19	"	42.0	14.16	1.38	5.36	20		.6	8	0	932A 947A	"
234	5/26	"	50.0	15.52	1.16	5.40	18		.6	8	0	940A 955A	"
235	6/2	"	44.0	16.52	1.16	5.40	19		.6	8	0	930A 945A	"
236	6/9	"	48.0	16.12	1.15	5.36	19		.6	9	+.02	938A 954A	"
237	6/16	"	32.0	12.32	1.38	5.33	17		.6	7	0	1005A 1015A	"
238	6/23	"	36.0	12.88	1.19	5.26	15		.6	7	0	944A 1000A	"
239	6/30	"	34.0	12.24	1.41	5.34	20		.6	6	0	948A 1000A	"
240	7/7	"	42.0	14.10	1.19	5.34	17		.6	8	0	935A 950A	"
241	7/13	Lindsay	86.0	34.10	1.37	5.54	47		.6	17	0	1135A 1203P	FC 28
242	7/14	Brewster	89.0	33.38	1.31	5.51	44		.6	10	0	920A 935A	FC 8
243	7/15	Lindsay	88.0	28.75	1.37	5.54	39		.6	17	0	825A 850A	FC 28
244	7/20	Brewster	28.0	10.40	1.40	5.37	15		.6	7	0	936A 948A	FC 8
245	7/22	Lindsay	114.0	84.47	2.17	5.95	183		.6	16	+.01	1005A 1020A	FC 28
246	7/25	"	108.0	87.30	2.04	5.98	178		.6	12	0	1110A 1125A	"
247	7/27	"	110.0	83.50	2.13	5.96	177		.6	13	+.01	1007A 1022A	"
248	7/28	Brewster	113.0	79.31	2.27	5.96	180		.6	12	0	920A 940A	FC 8
249	7/29	Lindsay	113.0	86.75	1.95	5.96	169		.6	14	+.02	1100A 1120A	FC 28
250	8/1	"	103.0	63.59	2.02	5.87	129		.6	13	0	1036A 1055A	"
251	8/3		98.0	64.97	2.09	5.87	136		.6	13	+.02	1022A 1040A	"
252	8/4	Brewster	101.0	76.49	1.66	5.85	127		.6	11	0	912A 930A	FC 8
253	8/5	Lindsay	93.0	53.11	2.12	5.86	113		.6	11	0	1034A 1052A	FC 28
254	8/8	"	103.0	69.08	2.00	5.92	138		.6	13	0	1252P 112P	"
255	8/11	Brewster	71.0	61.82	2.35	5.84	145		.6	10	+.01	935A 955A	FC 8
256	8/12	Lindsay	88.0	54.90	2.21	5.85	122		.6	14	0	1100A 1120A	FC 28
257	8/15	"	93.0	59.1	2.06	5.86	121		.6	12	+.03	1020A 1040A	"
258	8/18	Brewster	92.0	60.62	1.98	5.88	120		.6	10	0	935A 955A	FC 8
259	8/19	Lindsay	78.0	53.5	1.64	5.89	113		.6	11	0	1155A 1210P	FC 28
260	8/22	"	98.0	56.0	2.09	5.86	117		.6	14	0	1000A 1020A	"
261	8/25	Brewster	112.0	54.8	1.78	5.79	93		.6	12	0	925A 945A	FC 8
262	8/25	Lindsay	107.0	54.6	1.65	5.84	90		.6	15	0	1058A 1115A	FC 28
263	8/31	Brewster	115.0	61.65	1.55	5.83	95		.6	12	0	448P 500P	FC 8
264	9/1	"	115.0	50.70	1.77	5.82	90		.6	12	0	940A 1000A	"
265	9/8	"	43.0	18.25	1.27	5.48	23		.6	11	0	840A 856A	"
266	9/15	Lindsay	50.0	11.48	1.33	5.54	15		.6	11	-.01	900A 915A	FC 28
267	9/22	Lindsay	30.0	9.76	1.45	5.54	14		.6	10	0	855A 907A	"
268	9/29	Brewster	37.0	12.82	1.17	5.55	15		.6	10	0	840A 855A	FC 8

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 64 B-R

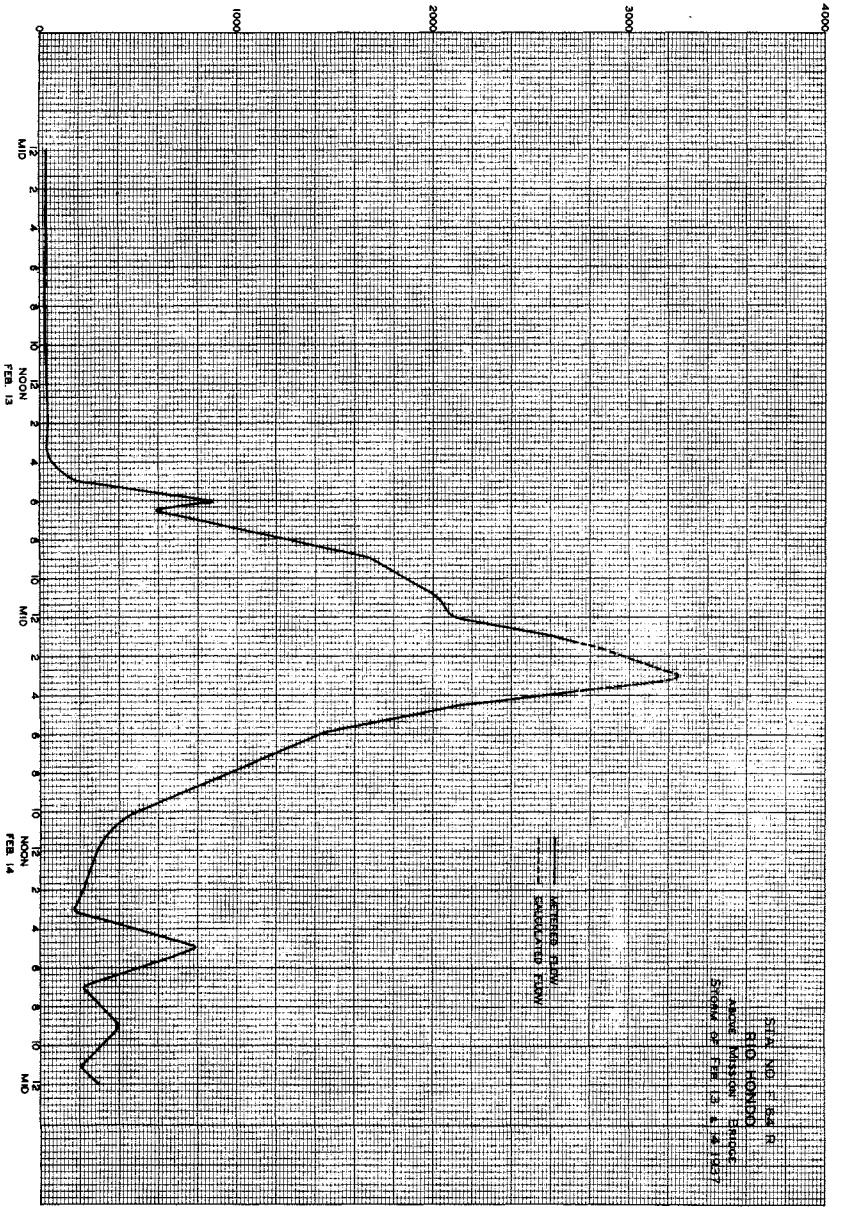
DISCHARGE MEASUREMENTS OF RIO HONDO

AT Mission Bridge DURING THE YEAR ENDING SEPTEMBER 30, 19 58

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.	DIFF.	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	3/7	Haig-Galbraith	107.0	336.0	9.05	2.47	3040		.6	12	+.05	612P 638P	FC 1
2	3/8	" "	105.5	353.0	9.03	2.90	3190		.6	11		945A 1001A	FC 38
3	3/8	" "	107.0	343.8	10.00	3.10	3460		.6	8	+.10	438P 454P	"
4	3/9	" "	105.0	460.0	9.16	3.54	4210		.6	8	-.02	1130A 1145A	"
5	3/9	" "	115.0	381.0	8.32	3.22	3270		.6	8	-.02	428P 445P	"
6	3/10	Haig	122.0	317.0	8.54	3.12	2700		.6	13	0	1002A 1031A	"
7	3/11	Lindsay-Ingram	112.0	201.0	6.47	2.42	1300		.6	12	-.03	310P 330P	FC 28
8	3/12	" "	113.0	270.0	8.26	2.96	2230		.6	9	-.01	411A 427A	"
9	3/12	" "	114.0	240.0	6.98	3.02	1670		.6	12	0	512P 540P	"
10	3/15	Lindsay	112.0	248.0	6.23	3.22	1550		.6	10		445P 505P	"
11	3/17	"	113.0	165.0	7.05	3.08	1160		.6	12	0	1123A 1148A	"
12	3/22	Bonadiman	110.0	96.5	3.26	2.50	314		.6	10	+.01	245P 305P	FC 40
13	3/24	Lindsay	112.0	165.0	6.53	3.27	1080		.6	13	-.02 +.02	125P 155P	FC 28
14	3/26	Lindsay-Herting	114.0	196.0	4.98	3.20	977		.6	13		455P 525P	"

KEUFFEL & ESSER CO., N. Y. NO. 359-211
13 X 26 to the Inch.

DISCHARGE IN SECOND-FEET



F. C. Dist. Form 52 150 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F64R

Daily discharge, in second-feet of RIO HONDO 1000 ft. above Mission Bridge, for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	23	16	90	16	62	87	64	22	12	12	13
2	15	23	16	65	19	52	148	41	16	12	12	13
3	14	22	16	60	24	132	153	39	13	13	12	13
4	14	20	17	35	27	104	142	44	15	12	12	13
5	14	18	15	90	40	127	137	47	16	12	12	13
6	14	17	15	62	984	97	127	55	16	12	12	13
7	14	17	14	100	233	87	142	55	18	12	13	13
8	14	16	14	80	84	48	118	53	18	12	13	13
9	14	17	14	75	90	40	159	47	15	12	13	14
10	14	17	14	60	115	41	113	41	12	12	13	13
11	14	16	14	90	42	80	118	42	12	12	13	13
12	16	15	14	120	42	210	92	40	13	12	13	12
13	15	16	14	52	425	250	30	34	13	12	13	13
14	16	16	32	97	989	249	26	30	14	11	12	13
15	15	16	322	87	226	788	25	24	13	10	12	12
16	16	14	44	62	273	768	24	20	13	11	12	13
17	35	15	22	26	386	542	109	19	14	11	10	14
18	72	15	22	25	655	376	87	24	13	11	10	14
19	27	14	21	22	842	300	66	34	13	13	9.5	14
20	25	15	21	21	734	100	64	36	12	12	10	14
21	22	14	21	18	695	97	77	48	12	12	11	14
22	18	14	20	18	601	352	77	31	12	12	11	15
23	18	15	20	18	84	329	90	26	12	12	10	15
24	17	15	20	18	110	441	45	25	12	13	10	16
25	15	14	53	19	117	419	42	25	12	12	11	15
26	16	14	16	20	70	218	50	26	12	12	11	14
27	14	14	698	20	113	132	69	26	12	12	11	15
28	13	15	234	19	90	118	90	25	12	12	12	16
29	40	16	37	44		100	53	25	13	12	12	16
30	34	16	472	151		97	64	26	13	12	12	16
31	57		275	12		84		24		12		
	657	489	2548	1696	8196	6840	2584	1096	413	369	361.5	415
Mean	21.2	16.3	82.2	54.7	293	221	86.1	35.4	13.8	11.9	11.7	13.8
Acre-Feet	1300	970	5050	3360	16260	13570	5130	2170	819	732	717	823

Remarks:

Year or Period — Mean 70.3 — Acre-Feet 50900

F. C. Dist. Form 52 150 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

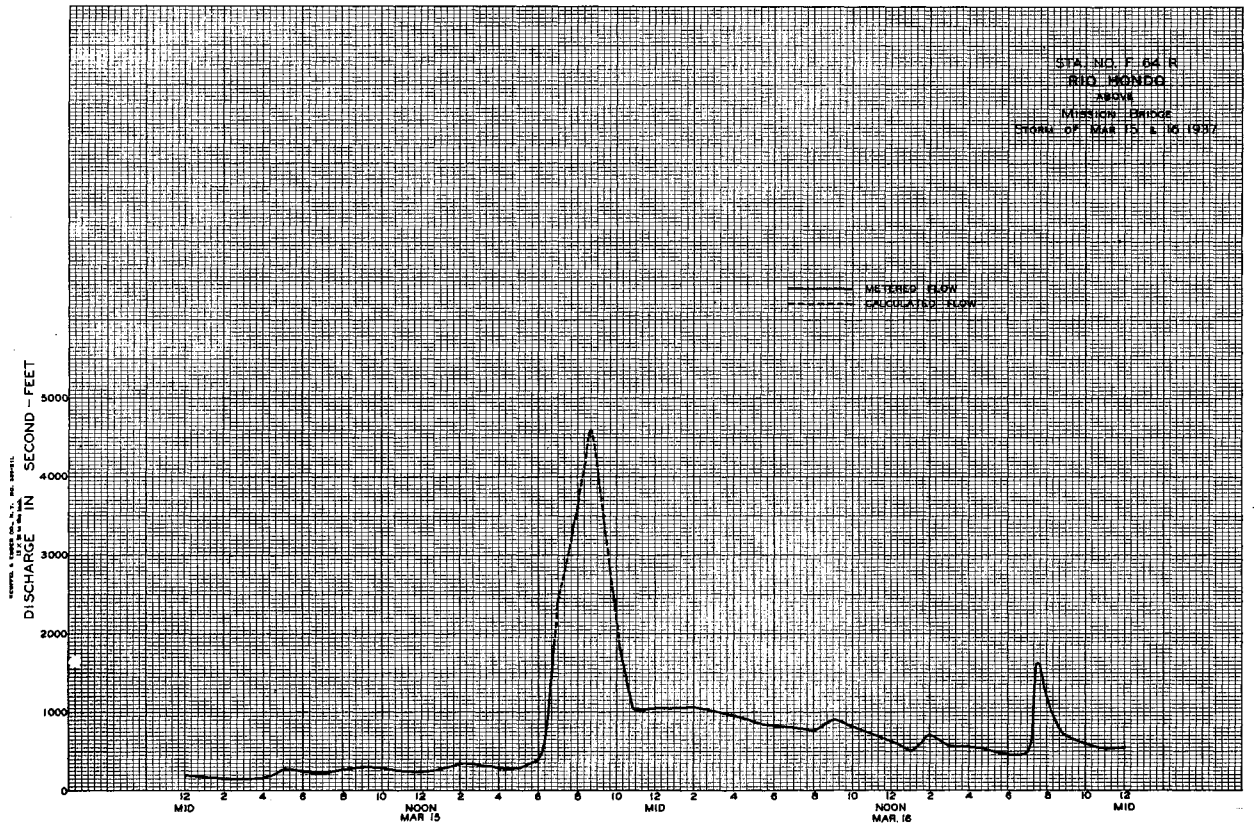
Sta. No. F64R - F64B-R

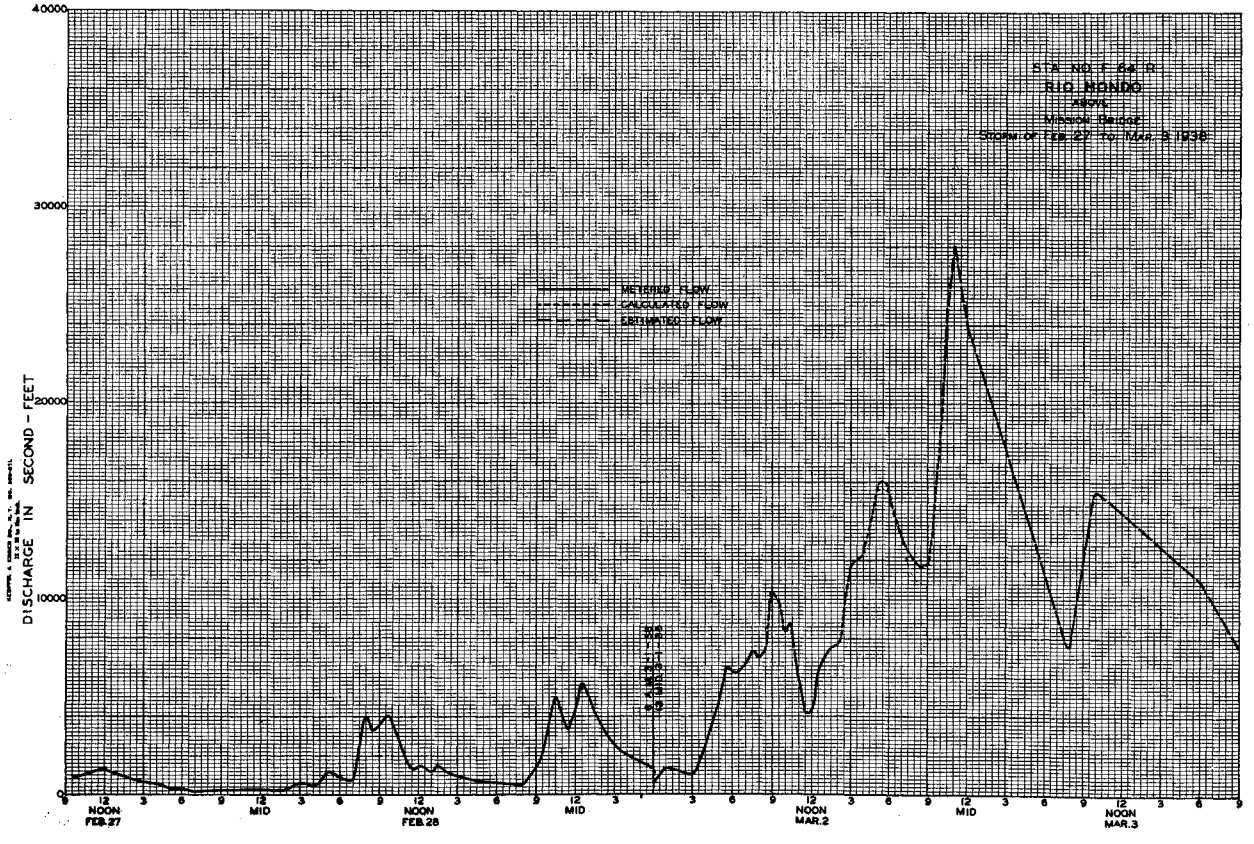
Daily discharge, in second-feet of RIO HONDO 1000 ft. above Mission Bridge, for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	18	20	38	560	1290	556	28	22	25	130	79
2	18	18	19	34	72	9430	1120	31	20	25	130	71
3	17	18	18	36	335	12600	968	28	19	25	135	76
4	17	18	18	34	187	2960	1320	30	20	22	135	76
5	17	19	21	34	66	2600	2040	26	21	22	118	71
6	17	18	21	36	54	2800	2240	27	20	21	118	73
7	16	18	19	38	62	2900	1960	23	19	21	179	36
8	15	20	20	38	76	3490	1760	23	20	21	144	27
9	16	20	21	29	345	3640	1720	23	23	23	150	25
10	15	20	40	34	65	2200	2010	27	21	23	150	26
11	15	18	241	36	364	1400	1300	25	21	25	144	22
12	14	19	51	41	230	1820	325	23	20	27	126	20
13	13	20	29	32	163	1850	250	21	22	42	122	20
14	14	19	34	29	125	1770	250	21	21	49	118	19
15	15	20	36	216	80	1790	269	21	20	42	122	18
16	17	22	29	58	63	1490	259	22	19	25	122	19
17	17	23	27	55	49	915	232	22	19	18	118	19
18	16	24	27	60	46	1100	172	25	21	17	114	20
19	15	21	27	52	60	1080	207	26	19	15	103	19
20	15	21	38	34	11	854	241	25	20	17	118	20
21	15	21	34	36	25	578	332	22	20	81	118	18
22	16	21	36	38	32	255	300	21	20	200	114	17
23	17	21	119	36	34	610	280	22	19	186	110	17
24	17	21	18	38	38	1010	249	23	23	179	97	20
25	17	21	18	38	96	980	122	23	23	179	87	19
26	16	21	112	34	110	1000	30	22	23	200	87	19
27	16	21	27	38	419	1000	26	21	22	200	90	17
28	16	19	34	41	1520	1000	28	22	22	179	90	16
29	17	20	34	46		1060	31	21	22	166	90	18
30	17	19	36	41		1280	34	21	23	140	93	18
31	17		38	41		808		21		144	94	
	498	599	1260	1391	5287	67560	20631	754	624	2359	3656	935
Mean	16.1	20.0	40.6	44.9	189	2179	688	23.7	20.8	76.1	118	31.2
Acre-Feet	988	1190	2500	2760	10490	134000	40920	1460	1240	4680	7250	1850

Remarks:

Year or Period — Mean 289 — Acre-Feet 209300


STA. NO. F 64 R
RIO HONDO
ABOVE
MISSION BRIDGE
STORM OF MAR. 15 & 16 1937
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
5000
4000
3000
2000
1000
0
12 MID
2
4
6
8
10
12 NOON MAR. 15
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON MAR. 16
2
4
6
8
10
12 MID


STA. NO. F 64 R
RIO HONDO
ABOVE
Mission Bridge
Storm of Feb. 27 to Mar. 3 1938
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND-FEET
40000
30000
20000
10000
0
12 NOON FEB. 27
3
6
9
12 MID
3
6
9
12 NOON FEB. 28
3
6
9
12 MID
3
6
9
12 NOON MAR. 2
3
6
9
12 MID
3
6
9
12 NOON MAR. 3

F.C.C. FORM 104 1M 8-37

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, 1937

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.	GEN OB	MEAS NOS	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												1105A	
4	10/17	Bonadiman	7.	.70	.22	5.00	.16		.6	2	0	1106A	FC 9
												630A	
7	10/31	"	23.	7.61	.94	5.16	7.2		.6	5	0	634A	"
												730A	
8	11/5	"	11.	2.6	.38	5.10	1.0		.6	3	0	734A	"
												742A	
11	11/25	"	23.	7.00	.56	5.14	3.9		.6	5	0	750A	"
												759A	
12	12/3	"	20.	4.68	.46	5.14	2.2		.6	5	-.01	806A	"
												741A	
13	12/10	"	26.	9.00	.77	5.20	7.0		.6	6	0	746A	"
												823P	
14	12/15	Bonadiman-Lind	47.	25.38	1.61	5.52	42.		.6	6	-.04	828P	"
												915A	
15	12/16	" "	20.	8.74	.25	5.17	2.0		.3	4	0	922A	"
												1000A	
18	12/27	Jordan-Thomsen	119.	289.3	6.34	7.32	1840.		.6	9	+.11	1020A	FC 21
												1135A	
19	12/27	" "	118.	200.1	5.84	6.73	1170.		.6	9	-.20	1150A	"
												255P	
20	12/27	" "	90.	72.0	3.14	5.78	226.		.6	10	-.04	305P	"
												1253A	
21	12/28	Bonadiman-Lind	114.	173.4	6.55	6.72	1170.		.3	7	-.05	110A	FC 9
												952A	
22	12/28	" "	90.	44.33	1.79	5.48	79.		.6	8	-.01	1000A	"
												849A	
23	12/29	" "	19.	6.36	.49	5.00	3.1		.6	5	0	855A	"
												1102P	
24	12/30	" "	120.	245.0	8.24	7.42	2020.		.6	6	+.17	1125P	"
												1245A	
25	12/31	Jordan-Thomsen	123.	409.3	8.91	7.82	3650.		.5	8	-.13	115A	FC 21
												240A	
26	12/31	" "	115.	255.3	7.30	6.38	1990.		.6	8	-.22	300A	"
												1140A	
27	12/31	Bonadiman-Lind	90.	75.75	2.91	5.92	220.		.6	6	+.01	1150A	FC 9
												145A	
29	1/6	" "	90.	68.75	2.41	5.66	166.		.6	7	-.04	200A	"
												845A	
30	1/6	" "	45.	19.0	.67	4.99	13.		.6	5	-.02	850A	"
												402P	
31	1/7	Bonadiman	26.	12.56	1.00	4.97	13.		.6	4	0	408P	"
												825P	
32	1/12	Bonadiman-Lind	90.	90.25	2.90	5.56	262.		.6	7	+.12	833P	"
												334P	
33	1/13	Bonadiman	6.	.90	.40	4.72	0.36		.6	2	0	336P	"
												848P	
36	1/30	Bonadiman-Lind	105.	118.4	4.44	6.20	527.		.6	7	-.20	900P	FC 9
												915A	
37	1/31	" "	9.5	4.34	1.98	5.00	4.7		.6	4	0	921A	"
												505A	
39	2/6	" "	55.	50.90	5.39	5.61	101.		.6	4	0	520A	"
												1130A	
40	2/6	" "	122.	319.2	7.09	7.65	2270.		.6	7	-.10	1150A	FC 21
												150P	
41	2/6	Jordan-Thomsen	115.	212.9	6.33	6.95	1350.		.6	8	+.10	205P	"
												410P	
42	2/6	" "	121.	286.	7.31	7.48	2090.		.6	9	+.05	430P	"
												110P	
43	2/7	Bonadiman-Lind	91.	77.45	1.30	5.63	140.		.6	8	-.01	130P	FC 9
												910A	
44	2/8	" "	29.	24.20	1.48	5.23	36.		.6	7	0	920A	"
												1212P	
45	2/10	" "	90.	62.35	1.89	5.62	118.		.6	7	0	1225P	"
												858P	
46	2/13	" "	116.	213.1	4.92	6.75	1060.		.6	7	+.10	910P	"
												210A	
47	2/14	Jordan-Thomsen	124.	408.7	9.46	8.30	3870.		.6	7	+.20	230A	FC 21
												450A	
48	2/14	" "	124.	420.1	9.28	8.10	3900.		.6	7	-.40	510A	"
												245P	
49	2/14	Bonadiman-Lind	94.	100.4	3.68	5.65	360.		.6	6	0	300P	FC 9
												935A	
50	2/15	" "	89.	78.65	2.34	5.75	174.		.6	6	0	942A	"
												110P	
51	2/16	Bonadiman	93.	85.0	2.65	5.93	226.		.6	8	0	122P	"
												120P	
52	2/17	"	104.	88.90	3.30	6.04	294.		.6	9	-.01	137P	"
												847A	
53	2/18	"	131.	129.4	4.88	6.32	632.		.6	8	0	900A	"
												245P	
54	2/19	"	112.	126.6	4.69	6.48	595.		.6	10	-.07	302P	"
												120P	
55	2/20	"	117.	160.9	4.79	6.79	770.		.6	9	-.06	132P	"
												110P	
56	2/22	"	117.	148.8	4.62	6.31	687.		.6	9	+.02	122P	"
												1244P	
57	2/23	"	12.5	3.97	1.08	5.34	4.3		.6	6	0	1255P	"
												725A	
58	2/25	"	107.	62.35	2.06	6.32	129.		.6	7	-.05	734A	"
												925A	
59	3/4	"	43.	18.3	1.31	6.00	24.		.6	7	0	935A	"
												230P	
61	3/12	Bonadiman	35.	15.16	1.24	5.88	19.		.6	6	+.01	244P	FC 9
												720A	
62	3/13	"	106.	59.85	1.73	6.22	103.		.6	7	+.09	731A	"
												813A	
63	3/13	"	115.	114.3	4.91	6.82	561.		.6	8	-.02	824A	"
												155P	
64	3/15	"	107.	81.44	1.78	6.46	145.		.6	8	-.02	206P	"
												1015P	
65	3/15	Bonadiman-Delay	125.	369.5	8.27	8.52	3060.		.6	7	-.07	1040P	"
												900A	
66	3/16	" "	112.	124.8	4.87	6.28	608.		.6	7	-.01	917A	"
												1015A	
67	3/17	Bonadiman	114.	131.6	4.97	6.65	654.		.6	8	-.02	1025A	"
												817A	
68	3/18	"	114.	111.9	4.62	6.66	518.		.6	9	-.07	836A	"
												1208P	
69	3/19	"	114.	114.7	3.74	6.73	429.		.6	9	+.02	1227P	"
												208P	
70	3/20	"	42.	28.05	1.68	6.20	47.		.6	7	0	210P	"
												850A	
71	3/22	"	118.	125.8	5.08	6.95	639.		.6	8	-.05	902A	"
												650A	
73	3/25	"	117.	111.1	4.30	6.80	479.		.6	8	0	700A	"

STATION P45R

RIO HONDO at Stewart and Gray Road

LOCATION:

On downstream side of highway bridge on second pier west of east (left) abutment, 1/2 mile upstream from junction of Rio Hondo and Los Angeles River, 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:

Indeterminate due to a natural split near Arrow Highway which 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.

CHANNEL AND CONTROL:

Sand between riprap on east bank and earth levee on right bank.
No artificial control.

DISCHARGE MEASUREMENTS:

At low flows by wading near gage.
At high flows from cable car 265 feet upstream from recorder.

RECORDER:

Installed March 1, 1928 in an F. C. standard type house over a 21 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dam No. 2 and Morris Dam, by Los Flores and Rubio Debris Basins, Eaton Dam, and, after November 17, 1937, by San Gabriel Dam No. 1.

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, 1938. (For records prior to March, 1928 see State Division of Water Rights Bulletins).

EXTREMES OF DISCHARGE:

1936-1937
Maximum 4800 second-feet February 14.
Minimum no flow at various times.
1937-1938
Maximum 24400 second-feet, estimated, March 3.
Minimum no flow at various times.
1929-1938
Maximum 24400 second-feet, estimated, March 3, 1938.
Minimum no flow at various times.

ACCURACY:

Poor due to shifting control.
Estimated: March 3, April 3-7, 25-29, 1938.
Recorder removed March 2, 1938, reinstalled March 3, 1938.
Well sanded: January 1, 1937, 8 hours on February 14, 1937.
Interpolated: March 27-29, November 10, 1937.
Clock stopped: August 15-19, 1937.

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 1M 9-57

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, 19 37

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.	STB.	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
74	3/26	"	37.	36.04	1.86	6.08	67.		.6	9	0	107P 120P	"
75	3/29	"	9.	3.80	1.02	5.50	3.9		.6	3	0	1106A 1110A	"
77	4/1	"	10.5	4.62	.96	5.50	4.4		.6	4	0	745A 752A	"
78	4/3	"	19.	7.19	1.03	5.64	7.4		.6	7	0	1135A 1145A	"
79	4/5	"	22.	6.12	.92	5.62	5.6		.6	8	0	1055A 1110A	"
80	4/6	"	30.	11.58	.64	5.72	7.5		.6	8	0	1052A 1105A	"
81	4/7	"	27.5	13.79	.94	5.74	13.		.6	9	0	1050A 1105A	"
82	4/8	"	27.5	9.39	.73	5.68	6.9		.6	8	0	753A 804A	"
88	5/6	"	24.	9.23	.83	5.72	7.6		.6	8	0	825A 836A	"
89	5/13	"	8.0	1.66	.22	5.57	0.37		.6	3	0	801A 806A	"
90	5/20	Bonadiman	18.	5.11	.65	5.67	3.3		.6	4	0	821A 825A	FC 9
93	6/10	"	9.0	2.74	0.17	5.60	0.47		.6	3	0	825A 838A	"
94	6/17	"	14.	3.13	0.55	5.61	1.7		.6	3	0	839A 842A	"
96	7/1	"	5.	0.75	0.29	5.56	0.22		.6	2	0	736A 738A	"
97	7/8	"	11.0	2.21	.48	5.58	1.1		.6	4	0	827A 831A	"
98	7/15	"	10.	2.37	.50	5.59	1.2		.6	4	0	825A 833A	"
100	7/29	"	4.5	.57	.35	5.58	.20		.6	2	0	924A 926A	"
102	8/5	"	4.0	1.14	.59	5.56	.65		.6	2	0	813A 815A	"
103	8/12	"	2.5	.18	.39	5.70	.07		.6	2	0	922A 924A	"
104	8/19	Prickett	3.3	1.12	.78	5.80	.90		.6	3	0	1110A 1115A	FC 22
105	9/1	Bonadiman	7.0	1.59	.50	5.75	.80		.6	3	0	929A 933A	FC 9
106	9/8	"	19.	5.28	.40	5.77	2.1		.6	4	0	759A 807A	"
106A	9/23	"	12	3.72	.47	5.96	1.8		.6	2	0	745A 750A	"
107	9/30	"	12	2.95	.45	5.95	1.3		.6	4	0	815A 822A	"

F.C.D. FORM 104 1M 9-57

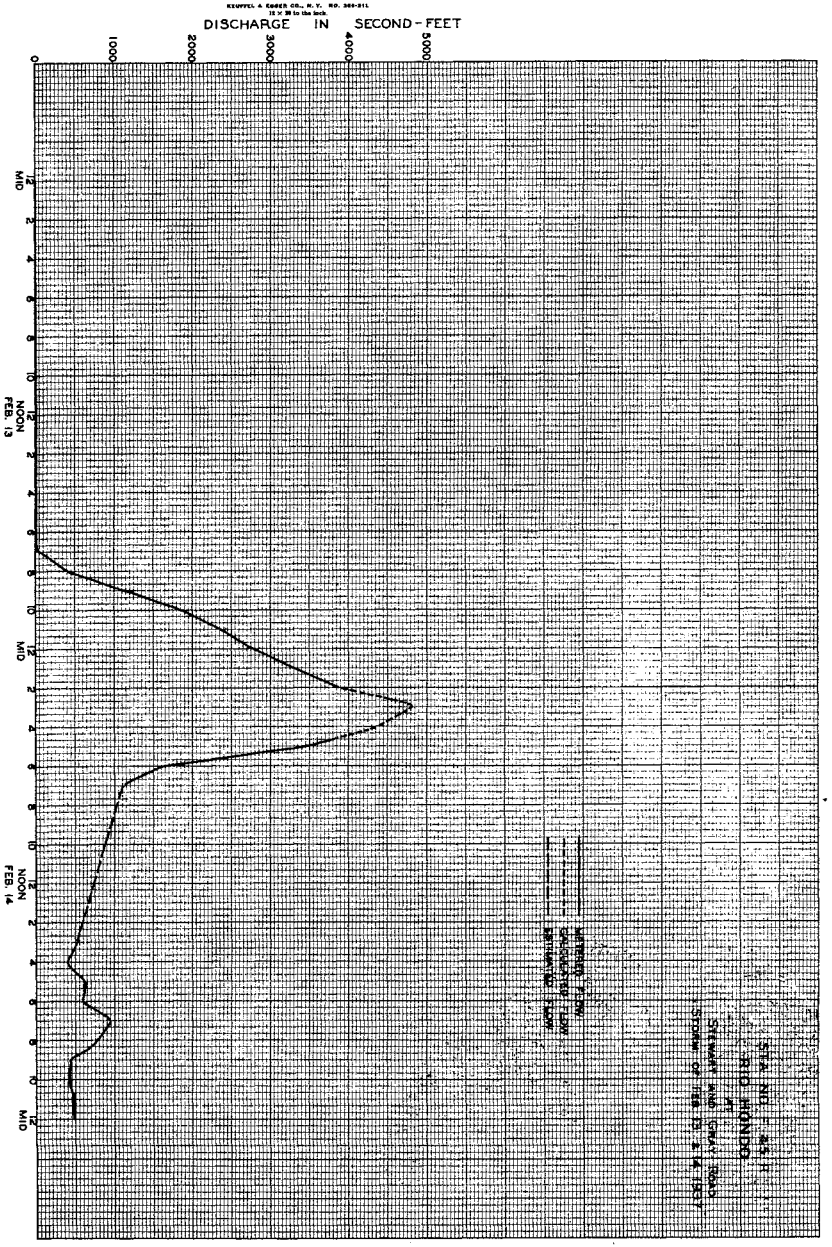
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 45 R

DISCHARGE MEASUREMENTS OF RIO HONDO

AT Stewart and Gray Road DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	STB.	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
108	10/7	Bonadiman	5	.75	.27	5.90	.20		.6	2	0	730A 731A	FC 9
109	10/14	"	17	6.40	.62	6.08	4.0		.6	5	0	740A 745A	"
110	10/21	"	17	6.01	.75	6.11	4.5		.6	5	0	745A 752A	"
111	10/28	"	12	4.65	.67	6.07	3.1		.6	5	-.02	743A 749A	"
112	11/4	"	10	2.39	.54	5.93	1.3		.6	3	0	844A 847A	"
113	11/10	"	20	11.12	.68	6.23	7.6		.6	4	0	744A 755A	"
114	11/18	"	12	3.27	.40	5.96	1.3		.6	5	0	801A 808A	"
115	12/2	"	17	6.88	.55	6.08	3.8		.6	6	0	205P 213P	"
116	12/9	"	18	7.16	.45	6.10	3.2		.6	7	0	1045A 1050A	"
117	12/10	"	30	15.63	.74	6.26	12		.6	6	0	940A 954A	"
118	12/11	Jordan-Thomsen	115	270	3.19	7.88	860		.6	9	+.05	850P 915P	FC 21
119	12/11	" "	115	219	2.45	7.64	536		.6	9	-.14	1015P 1035P	"
120	12/23	Jordan-Wood	115	95	1.50	6.83	142		.6	13	-.12	735A 800A	"
121	12/23	Bonadiman-Lind	8	3.30	.79	6.08	2.6		.6	3	0	117P 122P	FC 40
122	12/26	" "	90	53.25	1.26	6.49	67		.6	5	+.01	735P	"
123	1/15	Bonadiman	37	26.2	1.76	6.33	46		.6	8	+.11	1012A 1023A	"
124	1/15	Jordan	115	104.5	2.10	6.97	220		.6	13	-.06	220P 235P	FC 21
125	1/15	Bonadiman-Lind	113	75.6	1.59	6.74	120		.6	13	0	333P 348P	FC 40
126	1/15	Lind-Bonadiman	113	59.4	1.25	6.60	74		.6	12	-.10	358P 422P	"
127	2/1	Jordan-Thomsen	123	368	5.17	8.63	1900		.6	8	+.54	512A 546A	FC 21
128	2/1	" "	123	392	7.25	9.04	2840		.6	7	-.24	648A 704A	"
129	2/1	" "	37.5	29.8	2.09	6.20	62		.6	12	-.05	135P 200P	"
130	2/1	Bonadiman-Lind	38	19.9	1.05	5.84	21		.6	6	0	535P 540P	FC 40
131	2/3	Bonadiman	18	2.68	.41	5.45	1.1		.6	3	+.01	222P 230P	"
132	2/3	Bonadiman	52	5.54	4.69	6.59	254		.6	5	+.04	338P 350P	FC 40
133	2/3	Bonadiman-Lind	112	105.6	4.21	6.80	444		.6	11	+.16	742P 758P	"
134	2/3	Jordan-Thomsen	111	119	4.83	7.01	575		.6	8	-.18	1135P 1154P	FC 21
135	2/4	Bonadiman-Lind	53	58.5	4.26	6.56	249		.6	7	-.02	1147A 1204P	FC 40
136	2/5	Bonadiman	41	15.6	.70	5.90	11		.6	6	0	956A 1006A	"
137	2/9	"	31	9.5	.74	5.85	7.0		.6	5	0	911A 921A	"
138	2/9	Bonadiman-Lind	116	159.2	4.93	7.70	785		.6	10	0	127P 140P	"
139	2/9	Lind-Wood	121	291.8	6.72	8.04	1960		.6	10	-.28	220P 247P	"
140	2/9	Bonadiman-Lind	58	61.5	3.89	6.44	239		.6	6	-.05	654P 700P	"
141	2/10	" "	10	4.23	.85	5.51	3.6		.6	4	+.03	925A 927A	"
142	2/11	Bonadiman	112	136.3	4.82	6.91	658		.6	10	-.18	134P 145P	"
143	2/11	Jordan-Thayer	115	158.5	5.44	7.23	862		.6	9	-.18	430P 450P	FC 21
144	2/12	Bonadiman-Lind	51	35.8	2.46	6.28	88		.6	7	-.01	204P 210P	FC 40
145	2/27	Jordan-Thomsen	115	162	5.54	7.4	898		.6	8	+.20	1220P 1232P	FC 21
146	2/27	" "	117	195	6.26	7.65	1220		.6	9	+.10	112P 127P	"
147	2/27	" "	115	188	5.45	7.51	1030		.6	9	-.08	220P 236P	"
148	2/27	" "	102	91.8	4.07	6.67	374		.6	10	-.14	541P 559P	"
149	2/28	" "	125	476	8.99	9.35	4280		.6	7	-.40	947A 1009A	"
150	2/28	" "	125	424	8.95	8.90	3790		.6	7	-.20	1050A 1118A	"
151	2/28	" "	105	168	6.25	6.66	1050		.6	8	-.10	300P 324P	"
152	3/1	" "	115	238	7.24	6.90	1720		.6	9	-.10	837A 850A	"
153	3/1	" "	113	180	6.57	6.64	1180		.6	9	-.03	1204P 1215P	"
154	3/1	Bonadiman and Waddicor	112	178	5.93	6.54	1060		.6	8	-.03	432P 445P	FC 40
155	3/2	Jordan-Thomsen	130	772	11.70	10.75	9000		F1		+.30	810A 840A	
156	3/2	Jordan-Thomsen	125	756	11.40	9.6	8640		.6	8	+.40	1230P 119P	FC 21
157	3/3	" "	130	832	11.35	9.05	9420		.6	8	-.30	1039A 1126A	"
158	3/4	" "	125	359	8.38	5.95	2970		.6	9	0	904A 923A	"
159	3/6	Jordan-Jordan	128	302	8.24	6.20	2480		.6	10	+.06	917A 941A	"
160	3/8	Bonadiman	130	338	7.83	6.55	2680		.6	10	+.10	930A 950A	FC 40
161	3/10	Bonadiman and Galbraith	135	346	8.46	6.75	3030		.6	10	-.10	1217P 1230P	"
162	3/11	"	113	163	5.32	5.70	868		.6	10	0	844A 900A	"
163	3/12	"	115	184	6.03	5.92	1110		.6	8	-.11	1050A 1100A	"
164	3/13	"	140	277	7.40	6.70	2050		.6	8	0	1150A 1205P	"
165	3/14	"	135	270	6.90	6.50	1880		.6	9	0	110P 130P	"
166	3/17	Bonadiman	135	184	5.70	6.31	1050		.6	12	+.02	1052A 1120A	"
167	3/22	"	115	82.9	2.15	5.81	178		.6	10	+.02	1247P 110P	"
168	3/24	"	135	148	5.10	6.39	753		.6	11	+.02	947A 1015A	"
169	3/31	"	135	156	5.20	6.64	812		.6	10	0	1000A 1025A	"
170	4/7	"	135	257	6.23	7.05	1600		.6	10	0	1025A 1055A	"
171	4/14	"	Two	Channels		6.23	124		.6	10	0	115P 135P	"
172	4/21	"	Two	Channels		6.36	152		.6	10	-.01	810A 840A	"
173	4/28	"	2.5	.25	.36	5.50	0.10		.6	2	0	822A	"
174	5/5	"	15.	5.93	.83	5.77	4.9		.6	5	0	830A 844A	"
175	5/12	"	8.	2.44	.23	5.62	0.55		.6	4	0	810A 814A	"
176	5/19	"	16.	8.15	1.01	5.88	8.0		.6	5	0	828A 838A	"
177	5/26	"	14.	6.34	.75	5.81	4.8		.6	5	0	720A 729A	"
178	6/2	"	13.	6.08	0.61	5.81	3.7		.6	4	0	745A 752A	"
179	6/9	"	12.	2.96	.60	5.73	1.8		.6	4	0	925A 935A	"
180	6/16	Bonadiman	13.5	5.48	.38	5.79	2.1		.6	5	0	935A 944A	FC 40
181	6/23	"	17	6.87	.71	5.82	4.9		.6	5	0	855A 900A	"
182	6/30	"	15	5.58	.89	5.86	4.9		.6	4	0	913A 919A	"
183	7/7	"	15	5.69	.60	5.87	3.4		.6	4	0	822A 829A	"
184	7/14	"	10	3.58	.90	5.77	3.2		.6	3	0	138P 145P	"
185	7/22	"	12.5	4.96	.50	5.80	2.5		.6	3	0	905A 910A	"
186	7/29	"	15	6.18	.56	5.81	3.4		.6	5	0	854A 902A	"
187	8/12	"	12	3.99	.82	5.75	2.5		.6	4	0	906A 913A	"
188	8/19	"	13	6.11	.69	5.82	4.2		.6	5	0	930A 940A	"
189	8/26	"	13	5.01	.87	5.77	4.4		.6	5	0	846A 857A	"
190	9/2	"	14	6.25	1.13	5.86	7.1		.6	6	0	821A 835A	"
191	9/14	Bellinger	10.5	2.39	.51	5.64	1.2		.6	8	0	936A 943A	FC 6
192	9/22	"	10	2.36	.47	5.66	1.1		.6	7	0	133P 142P	"
193	9/29	Bonadiman	12	8.76	1.10	5.94	9.5		.6	5	0	730A 740A	FC 40



LOS ANGELES COUNTY
F. C. Dist. Form 52 160 8-36
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F45R

Daily discharge, in second-feet of RIO HONDO at Stewart and Gray Road, for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	1.5	9.5	0	0.3	1.9	1.0	0.2	0.2	0.2	0.7
2	0	0	0.8	0	0	0	9.5	1.6	0.1	0.3	1.9	0.6
3	0	0.8	1.2	2.0	0	1.9	6.5	2.4	0.1	0.3	1.0	1.0
4	0	0.6	1.9	0.1	0	1.3	9.5	2.4	0.2	0.1	0.9	0
5	0	0.9	1.8	1.1	0	9	2.6	4.6	0.3	0.5	0.2	2.3
6	0	0.8	1.7	4.6	871	2.9	4.3	4.9	0.3	0.8	0.7	2.5
7	0	0.1	1.3	1.1	149	0.5	7.0	3.5	0.3	1.0	0.4	0
8	0	1.4	2.2	1.0	29	0	4.0	3.1	0.4	0.5	0.6	0.1
9	0	1.0	3.2	8.5	24	0	4.6	0.1	0.4	0.2	0.7	0
10	0	+	4.9	8	62	0	3.4	1.2	0.8	0.5	0.2	0
11	0	0	4.1	8	2.2	0	3.3	1.5	0.5	1.6	0.2	0
12	0	0	4.9	7.7	0	1.7	3.0	1.4	0.4	1.1	0.1	1.0
13	0	0	3.2	4.5	301	9.1	0	0.4	0.2	0.6	0.2	0.5
14	0	0	4.3	1.7	1460	9.4	0	1.2	1.0	0.6	0.2	0
15	0	0	3.2	2.4	171	5.6	0	1.0	1.1	0.7	0.2	0
16	0.1	0	1.4	0.5	230	7.5.4	0	1.0	1.1	0.2	0.3	1.5
17	0.1	0.4	0	0.2	244	7.3.5	0.2	1.0	1.2	+	0.3	0.5
18	+	1.3	0	0	660	5.3.1	0.4	1.2	0.4	0.3	0.3	2.0
19	0.3	0.4	0	0	798	3.4.2	0.1	1.5	0.5	0.1	0.4	1.6
20	0	1.4	0	0	705	78	+	2.6	1.4	0.2	0.4	0.1
21	0	1.9	0	0	720	38	0.8	1.9	0.7	0.1	0.3	0
22	0	2.4	0	0	616	251	0	0.8	0.4	0	0.3	+
23	0.2	2.6	0	0	6	183	0.2	0.5	0.1	0	0.2	1.5
24	0	2.4	0	0	0.4	375	0.2	0.4	+	+	0.1	1.4
25	0	2.2	0	0	71	288	0.6	0.8	0.3	0.1	0.1	0.3
26	0.3	3.7	0	0	12	60	0	0.4	0.4	0.1	0.1	2.8
27	1.8	2.2	3.3.1	0	22	17	0.4	0.2	0.2	0	0	1.0
28	1.0	2.0	1.8.8	0	19	8	0.2	0.3	0.4	0.1	0	1.6
29	0.7	1.6	5.5	0		3.5	0	0.3	0.4	0.2	0	0
30	2.5	1.8	2.3.4	5.2		0.2	1.4	0.3	0.3	0.2	0	0.6
31	4.7		5.4.9	7		1.3	+			0.8	+	
	11.7		139.05		7172.6	4470.6	63.7	43.6	14.2	11.6	10.5	22.8
		31.9		299								

Mean	.38	1.06	44.8	9.67	256	144	2.12	1.41	.47	.37	.34	.76
Acre-Feet	23	63	2760	595	14230	8870	126	86	28	23	21	45

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

Year or Period Mean 37.1
Acre-Feet 26870

LOS ANGELES COUNTY
F. C. Dist. Form 52 160 8-36
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F45R

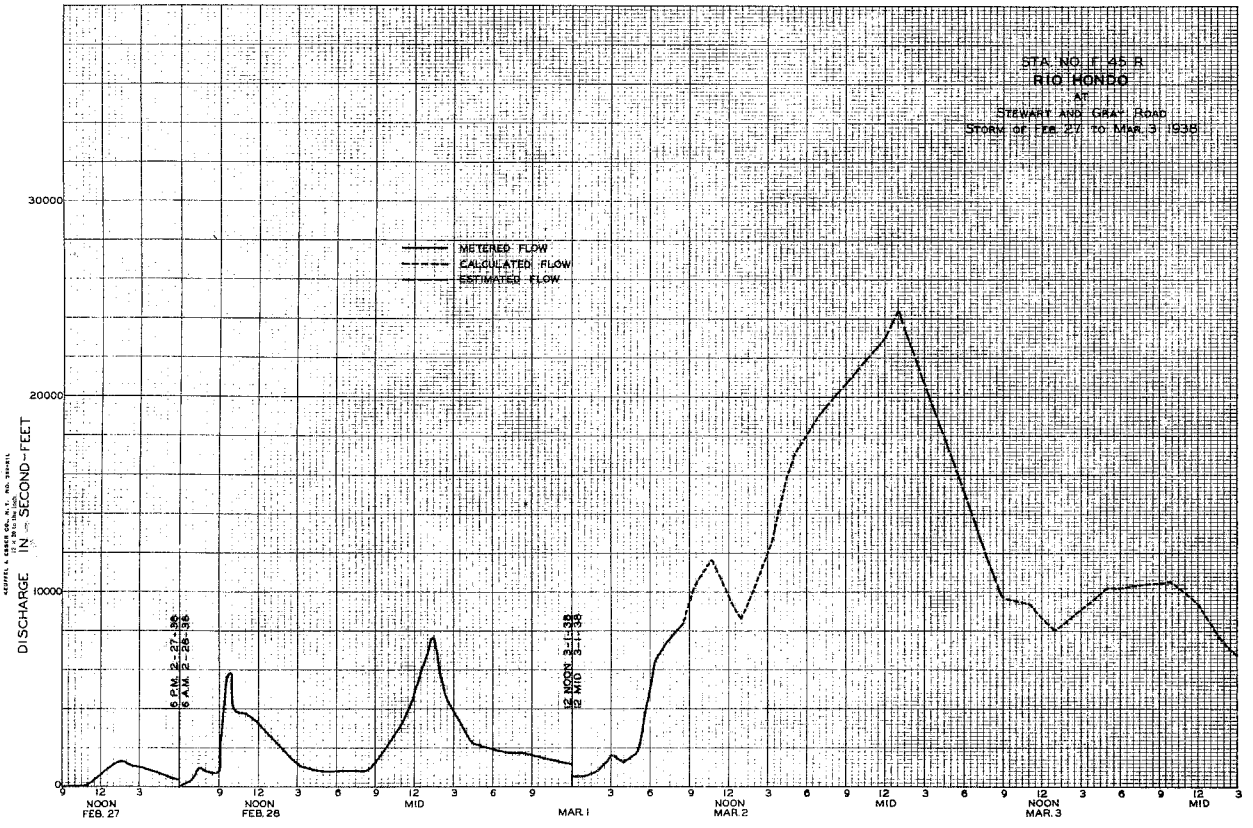
Daily discharge, in second-feet of RIO HONDO at Stewart and Gray Road, for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	4.6	2.0	0	415	1870	444	0.1	3.6	2.0	3.6	6
2	0.2	2.3	4.6	0	+	11100	908	0.6	2.4	4.0	4.0	4.8
3	0.8	0.9	3.6	0	205	12700	800	0.4	3.3	5.5	6	+
4	0.9	1.0	3.8	0	159	3690	1110	0.3	3.3	4.3	3.6	4.3
5	0.4	3.8	0	0	9	2690	1750	4.0	4.0	4.0	0	4.3
6	0.5	5	5	0	1.1	2500	1930	4.3	4.0	2.9	+	5.5
7	0.3	5	3.0	0	0	2520	1700	3.3	2.6	2.6	2.2	4.8
8	0	2.8	4.2	0	0	2780	1400	3.3	3.3	4.0	3.6	+
9	0	3.0	5	0	272	3520	1340	2.6	2.9	3.6	4.0	0
10	1.8	2.6	6.6	0	40	2570	1220	2.6	4.8	7	2.0	+
11	1.0	2.8	123	0	222	1210	799	+	6	5.5	4.0	2.0
12	0	3.0	20	0	111	1630	291	0.2	4.3	+	2.4	1.2
13	0.5	3.3	0	0	9	1850	172	1.3	4.0	0	4.0	1.5
14	1.1	0	0	0	+	2050	128	2.4	3.6	4.3	5.5	1.8
15	1.0	3.3	0	7.1	0	1820	136	2.6	3.3	4.8	5.5	9.5
16	2.0	6.5	0	+	0	1380	141	2.4	2.9	3.6	4.3	12
17	0.3	7	0	0	0	788	156	1.1	3.3	+	2.2	14
18	0	0.6	0	0	0	997	166	2.2	2.6	3.6	2.2	24
19	0.4	2.8	0	0	+	968	161	6	7	4.8	4.8	20
20	0	8.5	0	0	0	707	161	3.6	4.3	2.9	5.5	16
21	0.6	9.5	0	0	0	544	172	2.4	2.9	2.2	4.0	11
22	0.8	10	0	0	0	158	205	4.3	3.6	2.4	3.6	5.5
23	0.3	0	3.3	0	0	456	223	7	4.3	3.3	4.8	11
24	0.6	0	0	0	0	824	235	4.0	9	2.6	4.0	9.5
25	0	0	0	0	2.0	800	14	2.6	7	2.0	2.6	9.5
26	1.2	6	30	0	3.3	732	+	3.6	0.3	+	6	6
27	1.2	0	11	0	279	728	+	4.0	1.0	2.4	6	8.5
28	1.6	3.3	0	0	1360	800	+	4.0	1.8	2.2	5.5	6
29	1.0	5	0	0		788	0	2.6	2.4	2.2	4.0	7
30	2.6	4.6	0	0		812	0.1	4.3	2.6	3.3	4.3	6
31	3.0		0	0		831		2.4		6	4.0	
	24.4		25.4.2		3087.4	66833	15762.1	84.8	110.4	98.0	118.2	211.7
		107.2		71								

Mean	.79	3.57	8.22	2.24	110	2156	525	2.74	3.68	3.16	3.81	7.05
Acre-Feet	48	213	505	141	6120	132600	31260	168	219	194	234	420

Remarks: + indicates discharge 0.05 sec. ft or less

Year or Period Mean 238
Acre-Feet 172100



STATION F83R

RIO HONDO SLOUGH at San Gabriel Boulevard

LOCATION:

On upstream end of west (right) abutment of highway bridge, 2 miles northeast of Montebello.

DRAINAGE AREA:

Negligible.
Flow is almost entirely from rising water.

CHANNEL AND CONTROL:

Sandy, covered with weeds and brush; some cross fences which catch debris.
No artificial control.

DISCHARGE MEASUREMENTS:

By wading near station.
High flow measurements can be taken from highway bridge.

RECORDER:

Installed June 14, 1930 in a box type shelter house over an 18 inch diameter, corrugated iron pipe stilling well.
Horizontal Rational 7 day recorder, in service October 1, 1936, was removed March 2, 1938; reinstalled April 18, 1938.

REGULATION:

Some water pumped to fish ponds.

DIVERSIONS:

None.

RECORDS AVAILABLE:

Recorder records June 14, 1930 to September 30, 1938. Some weekly stream measurements were taken prior to installation of recorder.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 84 second-feet February 14.
Minimum 9.0 second-feet October 8.
1937-1938
Maximum not determined.
Minimum 15 second-feet October 1, 21, 22.
1930-1937
Maximum 166 second-feet January 1, 1934.
1930-1938
Minimum 4.8 second-feet October 4, 1938

ACCURACY:

Fair.
Clock stopped: March 16-18, November 16-18, 1937.
No recorder record March 3 to April 17, 1938.
Interpolated: March 22 to April 17, August 31 to September 9, 1938.
Estimated: March 2, April 18 to May 3, 1938.

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 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 83 R

DISCHARGE MEASUREMENTS OF RIO HONDO SLOUGH

AT ~~BRIDGE~~ San Gabriel Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	BEIN-DO	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Brewster	14.0	13.04	.87	.80	11		.6	7	0	1004A 1015A	FC 8
2	10/8	"	13.0	13.47	.76	.76	10		.6	7	0	950A 1002A	"
3	10/15	"	12.0	12.96	.85	.83	11		.6	6	0	935A 947A	"
4	10/22	"	12.0	12.86	.82	.90	11		.6	6	0	930A 940A	"
5	10/29	"	14.0	12.98	.92	.84	12		.6	7	0	1004A 1016A	"
6	11/5	"	14.0	13.38	.94	.84	13		.6	7	0	955A 1010A	"
7	11/12	"	13.0	12.60	.94	.83	12		.6	7	0	1000A 1015A	"
8	11/19	"	14.0	12.96	.91	.80	12		.6	7	0	957A 1009A	"
9	11/25	"	12.0	12.30	.93	.82	11		.6	6	0	1015A 1026A	"
10	12/3	"	13.0	11.44	.92	.78	10		.6	7	0	955A 1005A	"
11	12/10	"	13.0	11.86	.99	.78	12		.6	7	0	953A 1005A	"
12	12/17	"	13.0	13.24	.95	.90	12		.6	7	0	1003A 1015A	"
13	12/23	"	13.0	12.52	.98	.83	12		.6	7	0	1016A 1026A	"
14	12/29	"	13.0	14.12	.91	.98	13		.6	7	-.01	120P 132P	"
15	1/7	"	13.0	13.59	.93	.88	13		.6	7	0	1045A 1057A	"
16	1/14	"	13.0	14.18	.93	.86	13		.6	7	0	1030A 1042A	"
17	1/21	"	13.0	13.04	.98	.77	13		.6	7	0	1030A 1042A	"
18	1/28	"	13.0	12.54	1.09	.72	14		.6	7	0	1000A 1012A	"
19	2/4	"	13.0	12.98	1.06	.73	14		.6	7	0	1007A 1016A	"
20	2/11	"	14.0	13.66	1.24	.74	17		.6	7	0	1020A 1030A	"
21	2/14	Brewster-Pettis	15.0	37.80	1.60	2.32	61		.6	8	0	955A 1005A	"
22	2/18	Brewster	14.0	15.34	1.18	.79	18		.6	7	0	1050A 1100A	"
23	2/25	"	14.0	14.84	1.14	.78	17		.6	7	0	945A 1000A	"
24	3/4	"	14.0	14.48	1.12	.74	16		.6	7	0	1000A 1012A	"
25	3/11	Brewster	14.0	13.58	1.21	.70	16		.6	7	0	1005A 1017A	FC 8
26	3/18	"	14.0	15.06	1.25	.82	19		.6	7	0	930A 842A	"
27	3/22	Brewster-Pettis	14.0	17.44	1.23	.94	21		.6	7	0	1020A 1030A	"
28	3/25	Brewster	14.0	16.22	1.11	.88	18		.6	7	0	1025A 1037A	"
29	4/1	"	14.0	15.46	1.09	.79	17		.6	7	0	1020A 1035A	"
30	4/8	"	14.0	14.24	1.20	.74	17		.6	7	0	945A 957A	"
31	4/14	"	14.0	14.56	1.22	.76	18		.6	7	0	1130A 1142A	"
32	4/22	"	14.0	14.94	1.11	.76	17		.6	7	0	1033A 1045A	"
33	4/29	"	14.0	14.94	1.12	.78	17		.6	7	0	1010A 1025A	"
34	5/6	"	14.0	15.14	1.07	.76	16		.6	7	0	1017A 1032A	"
35	5/13	"	14.0	14.84	1.16	.77	17		.6	7	0	957A 1008A	"
36	5/20	"	14.0	14.90	1.16	.78	17		.6	7	0	1008A 1020A	"
37	5/27	"	14.0	13.26	1.22	.66	16		.6	7	0	1010A 1020A	"
38	6/3	"	15.0	13.30	1.32	.62	18		.6	8	0	1025A 1040A	"
39	6/10	"	13.0	14.83	1.15	.68	17		.6	7	0	1002A 1015A	"
40	6/17	"	14.0	14.12	1.15	.72	16		.6	7	0	1002A 1014A	"
41	6/24	"	14.0	15.02	1.08	.70	16		.6	7	0	1005A 1017A	"
42	7/1	"	15.0	15.20	1.03	.68	16		.6	8	0	945A 957A	"
43	7/8	"	14.0	13.56	1.15	.66	16		.6	7	0	950A 1002A	"
44	7/15	"	15.0	14.33	1.01	.70	14		.6	8	0	947A 1000A	"
45	7/22	"	14.0	13.72	1.09	.68	15		.6	7	0	945A 959A	"
46	7/29	"	15.0	14.02	1.01	.70	14		.6	8	0	905A 920A	"
47	8/5	"	14.0	13.86	1.08	.70	15		.6	7	0	915A 927A	"
48	8/12	"	14.0	13.26	1.05	.68	14		.6	7	0	945A 1000A	" "
49	8/19	Lindsay	16.0	14.96	.95	.72	14		.6	9	0	952A 1004A	FC 28
50	8/26	"	16.8	16.30	.95	.76	16		.6	9	0	946A 956A	"
51	9/2	Brewster	14.0	13.88	.99	.71	14		.6	7	0	1007A 1022A	FC 8
52	9/8	"	14.0	13.20	1.07	.67	14		.6	7	0	951A 1007A	"
53	9/16	"	14.0	14.78	.99	.72	15		.6	7	0	949A 1003A	"
54	9/23	"	14.0	14.26	1.04	.74	15		.6	7	0	954A 1006A	"
55	9/30	"	14.0	13.82	1.13	.74	16		.6	7	0	952A 1006A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 83 R

DISCHARGE MEASUREMENTS OF RIO HONDO SLOUGH

AT ~~BRIDGE~~ San Gabriel Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	BEIN-DO	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
56	10/7	Brewster	14.0	14.72	1.08	0.76	16		.6	7	0	945A 1000A	FC 8
57	10/14	"	14.0	14.52	1.10	0.74	16		.6	7	0	1002A 1017A	"
58	10/21	"	14.0	15.20	1.02	0.78	16		.6	7	0	935A 950A	"
59	10/28	"	14.0	14.68	1.09	0.84	16		.6	7	0	950A 1005A	"
60	11/4	"	14.0	15.46	1.07	0.83	16		.6	7	0	1000A 1015A	"
61	11/10	"	14.0	15.68	1.05	0.87	16		.6	7	0	1020A 1035A	"
62	11/18	"	14.0	15.60	1.05	0.87	16		.6	7	0	1010A 1025A	"
63	11/24	"	14.0	15.74	1.09	0.88	17		.6	7	0	1012A 1024A	"
64	12/2	"	14.0	16.46	1.02	0.92	17		.6	7	0	1008A 1020A	"
65	12/9	"	14.0	16.04	1.10	0.88	18		.6	7	0	940A 952A	"
66	12/16	"	14.0	15.84	1.13	0.88	18		.6	7	0	945A 957A	"
67	12/23	"	15.0	19.06	1.32	1.07	25		.6	8	-.02	1005A 1020A	"
68	12/30	"	14.0	15.46	1.24	0.86	19		.6	7	0	1000A 1012A	"
69	1/6	"	13.0	14.48	1.25	0.82	18		.6	7	0	950A 1005A	"
70	1/13	"	14.0	14.36	1.21	0.78	17		.6	7	0	956A 1009A	"
71	1/20	"	14.0	15.20	1.20	0.84	18		.6	7	0	1020A 1032A	"
72	1/27	"	15.0	16.07	1.13	0.82	18		.6	8	0	942A 954A	"
73	2/3	"	14.0	17.54	1.30	0.96	23		.6	7	0	840A 856A	"
74	2/10	"	14.0	18.74	1.33	1.00	25		.6	7	0	1035A 1050A	"
75	2/17	"	15.0	18.01	1.04	0.92	19		.6	6	0	1015A 1030A	"
76	2/24	"	15.0	17.28	1.07	0.88	19		.6	6	0	1000A 1012A	"
77	3/22	Bonadiman	15.5	36.73	.60		22		.6	6		840A 855A	FC 40
78	4/21	Brewster	14.0	12.58	1.96	0.55	25		.6	7	0	1125A 1140A	FC 8
79	4/28	"	13.0	11.41	2.10	0.56	24		.6	7	0	1005A 1017A	"
80	5/5	Brewster	13.0	12.42	1.87	0.58	23		.6	7	0	1014A 1025A	FC 8
81	5/12	"	13.0	12.07	1.78	0.55	22		.6	7	0	1013A 1025A	"
82	5/19	"	13.0	12.95	1.86	0.57	24		.6	7	0	1003A 1015A	"
83	5/26	"	14.0	12.64	1.73	0.50	22		.6	7	0	1010A 1020A	"
84	6/2	"	13.0	12.89	1.72	0.49	22		.6	7	0	955A 1010A	"
85	6/9	"	14.0	12.56	1.64	0.48	21		.6	7	0	1017A 1032A	"
86	6/16	"	14.0	13.08	1.65	0.50	22		.6	7	0	1025A 1040A	"
87	6/23	"	14.0	13.16	1.58	0.48	21		.6	7	0	1010A 1020A	"
88	6/30	"	14.0	12.76	1.53	0.48	20		.6	7	0	1010A 1020A	"
89	7/7	"	14.0	12.52	1.66	0.47	21		.6	7	0	1000A 1015A	"
90	7/14	"	14.0	12.44	1.65	0.43	21		.6	7	0	955A 1010A	"
91	7/20	"	14.0	12.00	1.61	0.40	19		.6	7	0	958A 1010A	"
92	7/28	"	13.0	12.04	1.71	0.40	21		.6	7	0	1005A 1020A	"
93	8/4	"	14.0	12.96	1.58	0.37	21		.6	7	0	945A 957A	"
94	8/11	"	14.0	12.52	1.54	0.37	19		.6	7	0	1005A 1022A	"
95	8/18	"	13.0	12.71	1.80	0.37	23		.6	7	0	1015A 1027A	"
96	8/25	"	13.0	12.12	1.63	0.35	20		.6	7	0	955A 1007A	"
97	9/1	"	12.0	11.84	1.70	0.49	20		.6	6	0	1030A 1042A	"
98	9/8	"	13.0	12.71	1.66	0.47	21		.6	7	0	940A 950A	"
99	9/15	Lindsay	16.0	28.24	0.71	0.45	20		.6	6	0	935A 945A	FC 28
100	9/22	"	19.0	33.72	0.61	0.45	20		.6	6		930A 940A	"
101	9/29	Brewster	13.0	12.69	1.59	0.42	20		.6	7	0	910A 925A	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F83R

Daily discharge, in second-feet of RIO HONDO SLOUGH at San Gabriel Blvd. for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	13	11	13	15	17	17	16	17	16	15	13
2	11	13	11	12	14	17	17	16	18	15	15	13
3	11	12	11	11	14	17	17	16	18	16	15	14
4	11	12	11	11	14	16	17	16	17	16	15	14
5	11	12	11	12	38	16	17	16	17	16	15	14
6	10	12	12	13	25	16	17	16	17	16	14	14
7	10	12	12	12	19	16	17	17	17	16	14	14
8	10	12	11	12	18	16	17	17	17	16	14	14
9	10	12	11	12	17	16	17	17	17	15	14	14
10	10	12	11	12	17	16	17	17	17	15	14	14
11	11	11	11	12	17	17	18	17	17	16	14	15
12	11	11	11	15	16	17	17	17	17	15	14	15
13	11	11	11	14	21	21	17	17	17	15	14	15
14	11	11	12	13	53	23	18	17	16	14	15	15
15	11	11	12	13	23	23	17	17	16	15	15	15
16	11	12	12	15	21	21	18	16	16	16	14	14
17	12	12	12	13	20	20	18	17	16	13	14	13
18	12	12	12	13	18	19	18	17	16	14	14	14
19	12	12	12	13	17	18	18	17	16	14	14	14
20	12	12	12	13	17	17	17	17	16	13	15	14
21	11	12	12	13	17	17	17	17	17	14	15	15
22	11	12	12	13	16	20	17	15	17	15	15	15
23	11	12	12	13	16	19	17	16	17	15	15	15
24	12	11	13	13	18	18	17	16	16	15	14	15
25	12	11	12	15	17	18	17	16	16	15	15	16
26	12	11	12	14	17	17	17	16	16	14	15	15
27	13	11	15	14	17	17	17	16	16	14	14	16
28	13	11	13	14		17	17	17	16	14	14	16
29	12	11	13	14		17	16	17	15	14	14	16
30	13	11	24	16		17	16	18		14	14	14
31	14		368		543		515	515		460	449	434
	355	355		405		552			497			
Mean	11.5	11.8	14.5	13.1	19.4	17.8	17.2	16.5	16.6	14.8	14.5	14.0
Acre-Feet	704	704	770	803	1080	1090	1020	1020	986	912	891	861

Year or Period Mean 15.0 Acre-Feet 10840

Remarks:

F. C. Dist. Form 52 150 4-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F83R

Daily discharge, in second-feet of RIO HONDO SLOUGH at San Gabriel Blvd. for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	17	16	20	33	50	23	24	22	19	21	20
2	16	17	16	20	22	158	23	24	22	20	21	20
3	16	17	16	19	25		24	24	22	20	21	20
4	16	17	16	19	26		24	24	22	20	20	20
5	16	17	16	19	22		24	24	21	21	20	21
6	16	16	17	18	21		24	22	21	21	20	21
7	16	16	18	18	21		25	22	21	20	20	21
8	15	16	18	18	33		25	22	21	20	20	21
9	15	16	18	18	25		25	22	21	21	19	20
10	16	15	20	18	25	NO RECORD	25	22	21	21	19	20
11	16	16	23	17	28		25	21	22	21	19	20
12	15	16	24	17	30		25	22	22	21	20	20
13	16	16	20	17	24		26	22	22	20	21	20
14	16	17	19	17	22		26	22	22	20	21	20
15	16	17	18	21	22		26	23	22	20	22	20
16	16	16	18	20	20		26	23	21	20	22	21
17	16	16	18	18	19		26	23	21	20	22	20
18	16	16	18	18	20		26	24	22	19	22	21
19	16	16	18	18	19		25	24	21	21	21	21
20	16	16	18	18	19		25	24	21	21	19	20
21	15	17	19	18	18	22	25	24	21	19	20	20
22	15	17	23	18	18	22	24	22	21	20	20	20
23	16	17	21	18	18	22	24	22	21	20	20	20
24	16	17	20	18	18	22	24	22	21	20	20	20
25	16	17	23	18	18	22	24	22	20	20	20	20
26	16	17	23	18	26	22	24	22	20	20	20	20
27	16	17	21	18	44	23	24	22	20	20	20	20
28	16	17	20	18		23	24	23	20	20	20	20
29	16	17	20	18		23	24	22	20	20	20	20
30	16	17	20	19		23	24	22		20	20	20
31	16		19		630		740	705	634	621	621	607
	491	496	593	567		432						
Mean	15.8	16.5	19.1	18.3	23.2		24.7	22.7	21.1	20.0	20.4	20.2
Acre-Feet	974	984	1180	1120	1290	857	1470	1400	1250	1230	1250	1200

Year or Period Mean 14220 Acre-Feet

Remarks: Total acre-feet for year does not include discharge between 3/2 and 3/22.

F. C. Dist. Form 52 150 4-36

STATION F82B-R

RUBIO WASH at Broadway

LOCATION:

On the west (right) 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 Boulevard.

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. A concrete sill across the channel, formed a control. There was no communication for discharges less than 3.0 second-feet subsequent to April 8, 1936.

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 30 inch diameter corrugated iron pipe stilling well in the bank outside of the lined section. Stevens type L 24 hour recorder, in service October 1, 1936, was removed November 3, 1936.

REGULATION:

Flow partially regulated by Los Flores & Rubio Debris Basins.

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 November 3, 1936.
(For records from October 1, 1930 to January 5, 1932 see station F107R).

EXTREMES OF DISCHARGE:

See Station F82C-R.

ACCURACY:

Fair.
Discharges below 3.0 second-feet estimated.

OPERATION:

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

P.C.D. Form No. 14 10-37

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, 19 37

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.	GAGE	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/17	Lindsay	25.0	15.06	2.44	0.56	37		.6	6	-.01	900A 910A	FC 28
2	10/17	Cole	24.8	25.67	2.70	0.85	69		.6	8	-.25	1115A 1130A	FC 7

F. C. Dist. Form 82 (6) 8-36

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, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0										
2	0	0										
3	0	For subsequent record see F82C-R										
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	3.8											
17	23											
18	30											
19	0											
20	0											
21	0											
22	0											
23	0											
24	0											
25	0											
26	0											
27	0											
28	0											
29	25											
30	0.4											
31	20											
	1022	0										

Nov. 1-2

Mean	3.30	Nov. 1-2										
Acre-Feet	203											

Remarks:

Year or Period: Mean _____ Acre-Feet _____

STATION F82C-R

RUBIO WASH at Glendon Way

LOCATION:

On the east (left) side of Rubio Channel 10 feet south of the westerly extension of Glendon Way, 2¼ miles downstream from station F82B-R and 2 miles west of El Monte.

DRAINAGE AREA:

13.4 square miles.

CHANNEL AND CONTROL:

Concrete channel 48.1 ft. wide between vertical walls by 10.5 ft. deep to bottom of invert.

DISCHARGE MEASUREMENTS:

At low flows by wading.
At high flows from foot-bridge at station.

RECORDER:

Stevens type L 24 hour recorder installed on November 8, 1936 in a F. C. standard type house over a 4 ft. x 3 ft. concrete well; replaced on June 24, 1937 with an Au continuous recorder.

REGULATION:

Flow partially regulated by Los Flores and Rubio Debris Basins.

DIVERSIONS:

None.

RECORDS AVAILABLE:

November 8, 1936 to September 30, 1938.
(For previous records on Rubio Wash see stations F82R, F107R, F82B-R).

EXTREMES OF DISCHARGE:

1936-1937
Maximum 1180 second-feet December 27.
Minimum no flow for several months.
1937-1938
Maximum 2400 second-feet, estimated, March 2.
Minimum no flow at various times.
1930-1938 (for stations 82, 107, 82B and 82C)
Maximum 2400 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair.
Estimated:
January 5, 1937; May 11-31, 1938.
Prior to June 24, 1937 small flows may be shown on the wrong dates due to the 24 hour recorder not being visited daily.

OPERATION:

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

F. C. D. Form 104 (6) 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 82 C-R

DISCHARGE MEASUREMENTS OF RUBIO WASH

AT Glendon Way DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING CURVE SHIFT	METH OD	MEAS. REGS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
2	12/14	Lindsay and McArthur	38.0	11.41	6.87	0.39	78		.6	8	+.03	957P 1011P	FC 28
3	12/15	Cole-Baustian	30.0	4.85	4.03	0.23	20		.6	8	0	205P 215P	FC 7
4	12/15	" "	44.5	18.35	8.52	0.59	156		.6	9	+.02	438P 451P	"
5	12/27	" "	47.5	25.38	11.20	0.82	284		.6	8	+.17	1032P 1048P	"
6	12/30	" "	41.0	12.43	6.78	0.43	83		.6	8	+.07	352P 408P	"
7	12/30	" "	47.9	31.76	13.13	1.00	417		.6	8	+.08	930P 952P	"
9	1/6	" "	38.0	11.97	6.86	0.38	82		.6	9	+.07	710A 721A	FC 7
10	1/12	" "	45.5	19.70	8.26	0.59	163		.6	10	+.02	410P 420P	"
11	1/30	" "	47.4	23.06	9.08	0.67	208		.6	11	+.04	456P 509P	"
12	2/6	" "	47.7	32.85	12.73	1.00	418			8	+.10	926A 941A	"
13	2/7	Cole	24.5	3.14	1.73	0.14	5.4			7	+.01	1210P 1218P	"
15	2/14	Cole-Baustian	36.0	9.76	6.18	0.33	60		.6	9	+.04	755A 805A	FC 26
17	2/24	" "	34.0	8.98	5.96	0.30	53		.6	8	+.08	935P 945P	FC 36
18	3/15	" "	48.1	50.01	13.73	1.17	687			8	0	639P 655P	"

F. C. D. Form 104 (6) 8-38

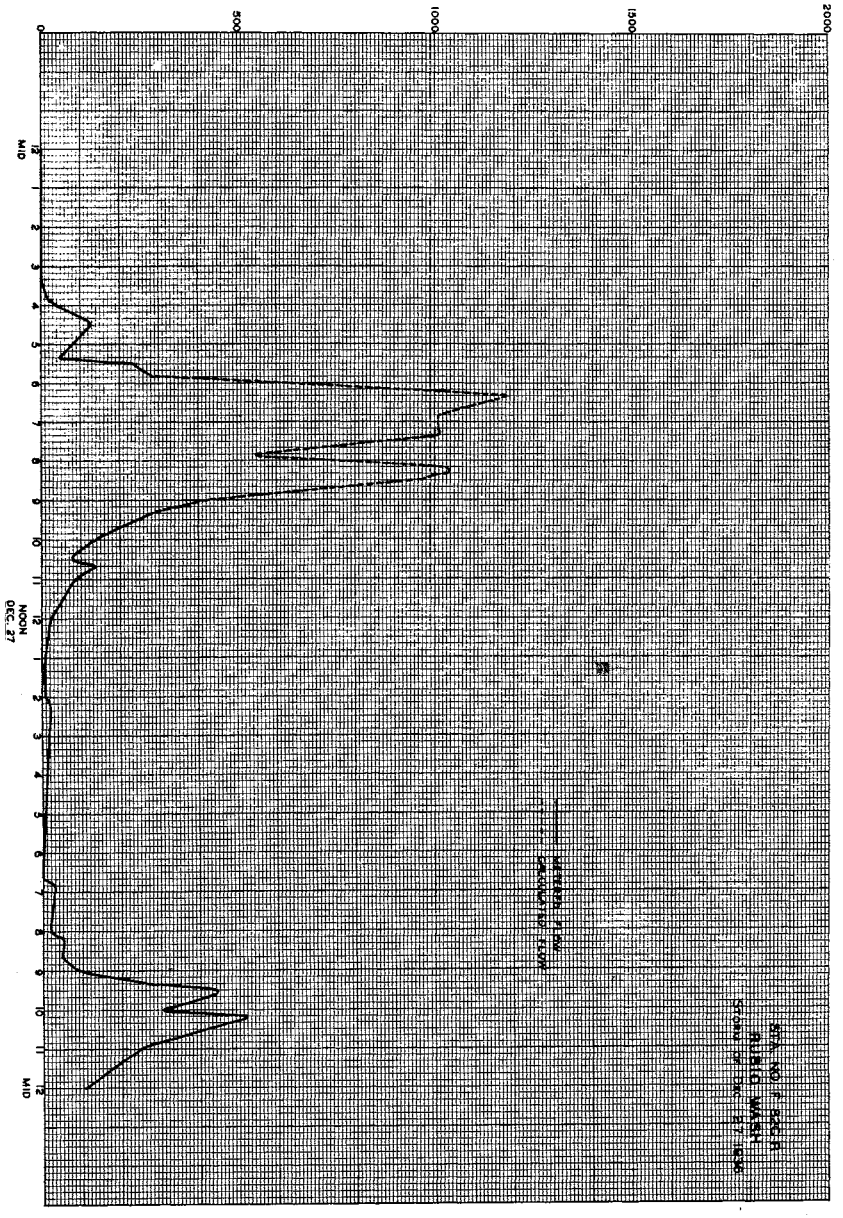
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 82 C-R

DISCHARGE MEASUREMENTS OF RUBIO WASH

AT Glendon Way DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Points Est.	METH OD	MEAS. REGS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
22	1/15	Lindsay-Ingram	48.0	33.03	11.64	0.99	385.		.6	10	-.12	820A 833A	FC 28
23	1/15	Haig-Baustian	48.1	42.09	13.27	1.05	559.		.6	8	-.13	915A 927A	Pitot
24	2/3	" "	37.0	8.92	5.49	0.33	49.		.6	9	-.04	811P 824P	FC 1
25	2/28	" "	41.6	20.26	9.28	0.64	188.		.6	11	-.01	1103A 1125A	FC 38
26	3/2	Lindsay-Ingram	48.1	57.66	15.63	1.37	901.		.6	8	-.12	535A 548A	FC 28
27	3/2	Haig-Baustian	48.1	58.66	13.76	1.37	807.		.6	8	+.05	143P 155P	FC 38
28	3/2	" "	47.1	28.46	11.81	0.78	336.		.6	8	+.06	707P 717P	"
29	4/14	Haig	13.0	0.32	1.18	0.05	0.38		Fl	8	0	822P 823P	
30	5/11	"	4.0	0.04	0.50	0.01	0.02		Fl	4		848A 852A	
31	6/1	"	12.0	0.36	1.00	0.05	0.36		Fl	4	0	954A 958A	



F. C. Dist. Form 82 156 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F820-R

Daily discharge, in second-feet of RUBIO WASH at Glendon Way, for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	0	0	+	0.4	0	+	0	0	0
2			0	0	0.1	0.1	6	0	0	0	0	0
3		0	0	0	0	+	0.2	0	0	0	0	0
4		0	2.5	0	0	0	0.2	0	0	0	0	0
5		0	+	3.1	1.3	0	0.2	+	0	0	0	0
6		0	0	1.2	159	0	1.2	0.1	0	0	0	0
7		0	+	0.3	10	0	1.2	0	0	0	0	0
8		0	0	0.2	2.5	0	1.2	0	0	0	0	0
9		+	+	0	0.4	0	0.8	0	0	0	0	0
10		0	0	0	0.1	0	0.8	0	+	0	0	0
11		0	0	0.1	0.2	0	0.8	0	0	0	0	0
12		0	0	15	0.3	27	0.8	0	0	0	0	0
13		0	0	1.8	77	30	0.8	+	0	0	0	0
14		+	14	0	104	0.6	0.8	0	0	0	0	0
15	For previous record see F823-R	0	72	0	4.4	107	1.2	+	+	0	0	0
16		0	1.1	0	2.2	26	0.4	0	0	0	0	0
17		0	0	0	2.1	2.1	0.2	+	0	0	0	0
18		0	+	0	2.0	2.1	0.2	0	0	0	0	0
19		0	0	0	0.4	0.8	0.1	+	0	0	0	0
20		0	0	0	+	0.8	0.1	0	+	0	0	0
21		0	0.1	0	0	0.8	+	+	0	+	0	0
22		0	+	0	0	5.2	0.1	+	0	0	0	0
23		0.8	0	0	0	1.4	0	0.1	0	0	0	0
24		+	0	0	1.6	1.2	0	+	+	0	0	0
25		+	2.7	0	2.1	3.4	0	+	+	0	0	0
26		0	0.1	0	0.4	1.5	0.5	+	+	0	0	0
27		0	1.8.6	0	0.2	1.2	1.2	0.1	0	0	0	0
28		0	25	1.1	0.1	1.2	0	0	0	0	0	0
29		0	0.2	1.2		1.2	+	0	0	0	0	0
30		0	1.2.1	60		0.8	0	0	0	0	0	0
31			1.7	0.9		0.8		0	+	0	0	
		(Nov. 3-30) 0.8	466.0	134.4	415.4	272.9	19.4	0.3	+	+	0	0
Mean		.03	15.0	4.34	14.6	8.80	.65	.01	+	+	0	0
Acre-Feet		1.6	924	267	824	541	38	.60	+	+	0	0

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

Year or Period (Nov. 1-Sept. 30) Mean Acre-Feet 2600

F. C. Dist. Form 82 156 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

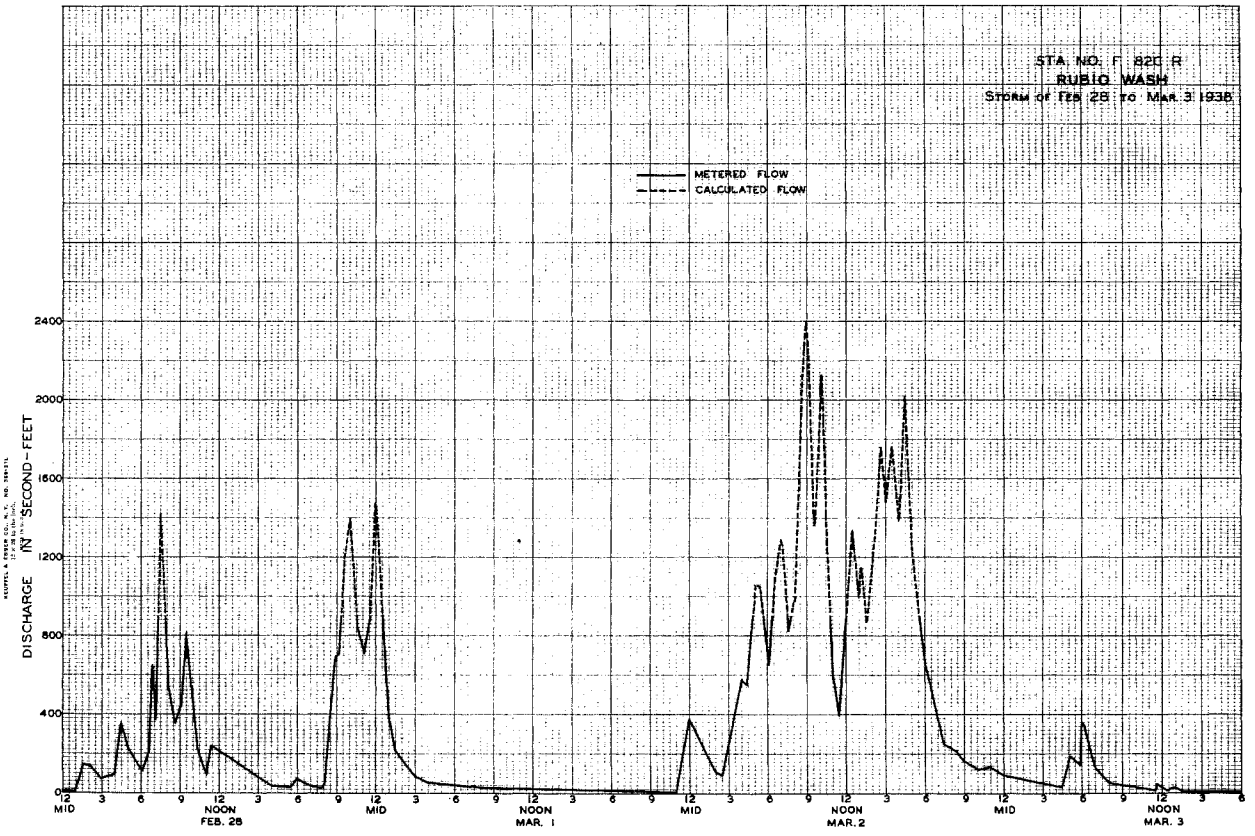
Sta. No. F820-R

Daily discharge, in second-feet of RUBIO WASH at Glendon Way, for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	107	84	0.2	0.4	0.2	0.2	+	+
2	0	0	0	0	7.5	802	0.2	+	0.4	0.4	+	+
3	0	0	0	0	5.4	46	0.2	+	0.4	0.4	+	+
4	0	0	0	0	21	10	0.2	+	0.2	0.4	+	+
5	0	0	0	0	0.1	6.5	0.4	+	0.1	0.4	0	+
6	0	0	0	+	0.1	2.5	0.4	+	+	0.2	+	+
7	0	0	0	+	+	6.5	0.2	0	0.1	0.1	+	+
8	0	0	0	+	2.9	14	0.1	0	0.2	+	+	+
9	0	0	+	0	61	2.1	0.2	0	0.2	+	+	+
10	0	0	4.1	0.1	2.5	1.2	0.2	+	0.2	+	0	+
11	0	0	108	+	69	9	0.2	+	0.2	0	0	+
12	0	0	1.2	+	9	58	1.1	+	0.2	0	0	+
13	0	0	0.1	0.1	0.4	18	4.8	+	+	0	0	+
14	0	0	+	0.2	1.6	4.8	1.6	+	+	+	0	+
15	0	0	+	68	0.1	4.1	0.2	+	+	+	0	+
16	0	0	+	0.1	+	3.3	0.1	+	+	0	0	+
17	0	0	+	+	+	2.5	0.1	+	+	0	0	+
18	0	0	+	5.5	4.1	2.1	+	+	+	0	0	+
19	0	0	0	16	10	2.1	+	+	+	0	0	+
20	0	0	+	0.1	+	1.6	+	+	+	0	0	+
21	0	0	+	+	0.8	1.2	+	+	+	0	0	+
22	0	0	+	+	0.4	0.8	+	+	+	0	0	+
23	0	0	27	+	0.2	0.8	+	+	+	0	0	+
24	0	0	0.1	+	+	0.4	2.1	+	+	0	0	+
25	0	0	+	+	+	0.4	4.1	+	+	0	0	+
26	0	0	35	+	+	0.4	0.2	+	+	0	0	+
27	0	0	0.1	+	70	0.4	+	+	+	0	0	+
28	0	0	+	+	307	0.4	+	+	+	0	0	+
29	0	0	0	1.2		0.4	+	+	+	0	+	+
30	0	0	0	+		0.2	0.4	+	0.1	0	+	+
31	0		0	3.3		0.2		+		+	+	
	0	0	175.6	94.6	728.7	1085.9	17.4	0.4	2.5	2.1	+	+
Mean	0	0	5.66	3.05	26.0	35.0	.58	.01	.08	.07	+	+
Acre-Feet	0	0	348	188	1450	2150	35	.79	5.0	4.2	+	+

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

Year or Period Mean 5.77 Acre-Feet 4180



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:

28.0 square miles.

CHANNEL AND CONTROL:

Channel - gravel and boulders.
In 1936 the boulders, approximately 30 feet below the recorder house, were cemented to form a control.

DISCHARGE MEASUREMENTS:

At low flow by wading near gage.
At high flow, prior to the March 2, 1938 storm, from cable car 10 feet above station.

RECORDER:

Installed February 20, 1931 in an F. C. standard type house over a 21 inch diameter, corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1936 to September 30, 1938. However, no recorder record from July 25 to October 17, 1937.

REGULATION:

None.

DIVERSIONS:

Two diversions for irrigation.

RECORDS AVAILABLE:

February 20, 1931 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 238 second-feet February 14.
Minimum no flow for several months.
1937-1938
Maximum 23400 second-feet, estimated, March 2.
Minimum no flow for several months.
1930-1938
Maximum 23400 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair.
Gage heights interpolated: July 1-15, 1937.
Roughly estimated: March 1-31, 1938.
Estimated: July 25 to October 17, 1937; January 17, 18, February 11, April 1-22, 1938.
Interpolated: January 30, 31, February 2, 6, 7, April 14, 15, May 23, 24, June 6-8, 1938.
Clock stopped: February 12-14, 1938.

OPERATION:

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

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 151 R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

AT ~~MOUTH~~ mouth of canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Formula No.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	12/14	Hoffman	2.0	.14	.18	3.78	.03		F1	2	0	1127P 1130P	
2	12/15	"	5.0	.92	.76	3.92	.60		.6	5	+.05	703P 709P	FC 10
3	12/15	"	12.	2.94	1.14	4.03	3.4		.6	6	+.02	745P 755P	"
4	12/15	Hoffman-Jones	15.	7.08	2.16	4.26	15		.6	8	+.01	1117P 1135P	"
5	12/16	" "	13.	3.92	1.75	4.12	6.8		.6	7	+.01	800A 808A	"
6	12/18	" "	12.	4.58	2.14	4.18	9.8		.6	6	+.02	1218P 1225P	"
7	12/18	" "	12.	4.44	2.02	4.19	9.0		.6	6	0	1225P 1230P	"
8	12/27	Hoffman	5.0	.98	.89	3.94	.85		.6	5	-.01	800A 806A	"
9	12/27	Hoffman-Jones	20.	8.58	2.56	4.33	22		.6	9	+.02	1005A 1016A	"
10	12/27	" "	20.	10.9	2.91	4.43	32		.6	9	-.02	150P 200P	"
11	12/27	" "	20.	8.10	2.32	4.27	19		.6	9	0	439P 447P	"
12	12/28	" "	16.	6.12	2.42	4.32	20		.6	8	0	610A 625A	"
13	12/29	Hoffman	3.0	.37	.95	3.88	35		.6	2	0	123P 125P	"
14	12/31	Hoffman-Jones	32.	30.8	4.85	5.32	149		.6	8	0	1245A 100A	"
15	12/31	" "	30.	20.6	3.79	4.80	78		.6	7	-.04	422A 430A	"
16	12/31	" "	24.	14.12	3.67	4.61	50		.6	7	0	830A 838A	"
17	1/1	" "	16.	6.14	1.83	4.24	11		.6	8	0	1135A 1142A	"
18	1/6	" "	6.0	3.26	2.72	4.18	8.9		.6	3	0	855A 900A	"
19	1/7	Hoffman	6.0	1.48	1.34	4.02	2.0		.6	3	0	1005A 1008A	"
20	1/30	Reber-Jones	21.5	7.79	2.94	4.37	23		.6	9	+0.05	630P 644P	FC 33
21	1/30	" "	20.0	7.94	2.20	4.34	17		.6	10	0	843P 859P	"
22	2/6	Reber	5.5	1.21	.93	3.98	1.1		.6	6	0	1230A 1240A	"
23	2/6	Reber-Jones	7.0	2.82	2.04	4.10	5.8		.6	7		657A 706A	"
24	2/6	" "	19.7	6.30	2.06	4.32	13		.6	11	+.03	945A 955A	"
25	2/6	Reber-Jones	23.2	15.9	4.34	4.81	69		.6	12	+.08	157P 214P	FC 33
26	2/6	" "	31.2	28.5	4.84	5.26	138		.6	11	+.05	450P 505P	"
27	2/7	" "	33.5	28.8	5.25	5.38	151		.6	9	-.05	745A 802A	"
28	2/7	" "	33.3	31.05	5.07	5.30	157		.6	12	0	946A 1006A	"
29	2/7	Reber	32.2	26.67	4.14	5.17	111		.6	12	-.01	230P 254P	"
30	2/7	"	32.2	26.68	3.81	5.12	102		.6	12	-.03	500P 519P	"
31	2/8	Reber-Jones	30.0	25.04	3.82	5.08	96		.6	12	0	839A 850A	"
32	2/9	" "	30.0	21.28	3.88	4.98	83		.6	12	0	832A 843A	"
33	2/11	" "	26.0	21.57	3.65	4.94	79		.6	11	0	1223P 1237P	"
34	2/13	" "	32.0	29.1	4.24	5.28	123		.6	11	+.03	821P 838P	"
35	2/14	" "	35.0	46.06	5.02	5.80	232		.6	12	0	747A 810A	"
36	2/14	" "	35.0	46.82	4.15	5.77	193		.6	12	0	1028A 1049A	"
37	2/14	" "	35.0	46.73	4.19	5.74	196		.6	12	0	130P 155P	"
38	2/14	" "	35.0	47.11	4.39	5.73	207		.6	12	-.01	437P 507P	"
39	2/16	" "	34.5	42.69	3.82	5.64	163		.6	12	0	925A 943A	"
40	2/17	" "	34.5	41.3	3.70	5.56	153		.6	12	0	817A 835A	"
41	2/18	" "	34.5	42.2	3.67	5.54	155		.6	12	0	819A 838A	"
42	2/19	Reber	34.5	41.36	3.60	5.50	148		.6	12	0	820A 847A	"
43	2/22	"	34.0	35.2	3.12	5.32	110		.6	13	0	805A 830A	"
44	2/23	"	34.0	33.54	3.08	5.30	103		.6	13	0	927A 952A	"
45	2/24	"	33.0	33.06	3.11	5.27	102		.6	13	0	820A 842A	"
46	2/25	"	33.0	32.07	3.26	5.29	104		.6	14	0	307P 325P	"
47	2/26	"	33.0	31.48	3.02	5.26	95		.6	14	0	816A 844A	"
48	3/1	"	33.0	29.47	2.82	5.17	85		.6	14	0	825A 850A	"
49	3/2	Reber	33.0	28.66	2.93	5.18	84		.6	15	+.03	829A 859A	FC 33
50	3/3	"	33.	28.98	2.71	5.15	79		.6	15	0	816A 843A	"
51	3/4	"	32.5	28.53	2.89	5.12	82		.6	15	0	819A 847A	"
52	3/5	"	32.5	28.14	2.78	5.13	78		.6	15	+.03	822A 849A	"
53	3/8	"	32.5	27.13	2.82	5.09	71		.6	15	0	821A 851A	"
54	3/9	"	32.5	28.20	2.69	5.10	76		.6	15	0	817A 845A	"
55	3/11	"	32.5	27.61	2.66	5.10	73		.6	15	0	824A 842A	"
56	3/12	"	33.0	32.52	3.01	5.27	98		.6	13	0	930A 952A	"
57	3/13	"	35.0	47.43	4.11	5.76	195		.6	12	-.03	747A 805A	"
58	3/13	Reber-Jones	35.0	41.82	3.78	5.55	158		.6	12	-.01	145P 204P	"
59	3/13	" "	35.0	39.85	3.98	5.50	159		.6	12	-.01	423P 438P	"
60	3/15	Reber	34.5	34.8	3.60	5.32	125		.6	12	0	858A 918A	"
61	3/15	"	35.0	41.15	4.31	5.63	178		.6	12		924P 958P	"
62	3/16	"	35.0	39.57	4.08	5.50	162		.6	12	0	754A 816A	"
63	3/16	Jones-Reber	35.0	39.99	3.85	5.48	154		.6	12	0	830P 845P	"
64	3/16	Reber-Jones	35.0	40.47	3.78	5.47	153		.6	12	0	753P 814P	"
65	3/17	Reber	34.5	37.54	4.03	5.43	152		.6	12	0	918A 929A	"
66	3/18	"	34.5	39.05	3.80	5.43	151		.6	12	0	835A 900A	"
67	3/19	"	34.5	37.78	3.78	5.40	143		.6	12	0	825A 854A	"
68	3/22	"	35.0	38.51	3.92	5.47	151		.6	12	0	812A 831A	"
69	3/23	"	34.5	34.93	3.67	5.34	128		.6	12	0	925A 951A	"
70	3/24	"	34.5	36.91	3.82	5.35	130		.6	12	0	845P 906P	"
71	3/25	"	34.5	34.30	3.34	5.31	114		.6	12	0	302P 324	"
72	4/1	"	33.5	30.67	3.04	5.19	93		.6	12	0	817A 839A	"
73	4/2	Reber	33.5	31.99	3.03	5.20	97		.6	12	0	958A 1000A	FC 33
74	4/5	"	33.0	29.49	2.98	5.14	88		.6	12	0	1114A 1135A	"
75	4/6	"	33.0	29.77	3.02	5.15	90		.6	12		820A 840A	"
76	4/8	"	33.0	30.51	3.06	5.15	93		.6	12	0	1014A 1035A	"
77	4/9	"	33.0	30.84	3.17	5.17	98		.6	12	0	851A 909A	"
78	4/12	"	33.0	30.93	3.12	5.18	96		.6	12	0	913A 937A	"
79	4/14	"	33.0	29.30	3.02	5.14	89		.6	12	0	1053A 1120A	"
80	4/16	"	33.0	31.74	3.14	5.19	100		.6	12	0	828A 851A	"
81	4/19	"	33.0	29.39	2.40	5.17	95		.6	12	0	946A 1006A	"
82	4/23	"	33.0	29.26	3.09	5.12	90		.6	12	0	818A 843A	"
83	4/27	"	33.0	28.35	2.93	5.08	83		.6	12	0	828A 852A	"
84	4/30	"	33.0	26.44	2.67	5.01	70		.6	12	0	830A 854A	"
85	5/7	"	32.5	25.78	2.43	4.95	63		.6	12		900A 922A	"
86	5/10	"	32.5	25.32	2.34	4.95	62		.6	12		1028A 1052A	"
87	5/11	"	19.00	21.56	2.50	4.92	54		.6	10	0	410P 430P	"
88	5/13	"	19.00	21.98	2.71	4.93	60		.6	10	0	1021A 1038A	"
89	5/14	"	19.00	22.90	2.76	4.97	63		.6	11		823A 843A	"
90	5/17	"	19.3	22.78	2.96	5.00	66		.6	11	0	845A 904A	"
91	5/21	"	18.2	21.29	2.64	4.92	56		.6	11	0	831A 853A	"
92	5/24	"	19.0	21.34	2.34	4.89	50		.6	11	0	839A 859A	"
93	5/28	"	18.8	20.24	2.03	4.85	41		.6	11		906A 923A	"
94	6/1	"	18.5	19.04	2.02	4.80	38		.6	10		938A 955A	"
95	6/3	"	18.5	18.58	1.72	4.78	32		.6	10		925A 943A	"
96	6/3	"	18.3	17.80	1.70	4.76	30		.6	10		548P 601P	"
97	6/7	Reber	18.3	18.15	1.67	4.76	30		.6	10		829A 846A	FC 33
98	6/9	"	18.3	17.49	1.56	4.74	27		.6	10		825A 842A	"
99	6/11	"	18.3	17.47	1.52	4.72	26		.6	10		720A 735A	"
100	6/14	"	18.3	16.29	1.38	4.69	23		.6	10		843A 858A	"
101	6/15	"	18.1	16.21	1.32	4.69	21		.6	10		840A 855A	"
102	6/17	"	18.0	15.07	1.16	4.65	17		.6	10		312P 325P	"
103	6/21	"	17.6	14.76	1.07	4.64	16		.6	10	0	906A 925A	"
104	6/22	"	17.6	14.74	1.05	4.64	16		.6	10		822A 834A	"
105	6/23	"	17.6	14.51	.97	4.64	14		.6	10		843A 900A	"
106	6/25	"	17.5	13.87	1.01	4.62	14		.6	10		755A 812A	"
107	6/28	"	10.6	6.41	1.37	4.56	8.8		.6	8		942A 954A	"
108	6/30	"	10.5	6.27	1.31	4.56	8.2		.6	8		927A 939A	"
109	7/1	"	10.2	5.39	.85	4.48	4.6		.6	8		353P 40EP	"
110	7/8	"	10.0	3.80	.38	4.38	1.4		.6	7		427P 438P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 151 R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

AT ~~MOUTH~~ mouth of canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Formula No.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
111	12/12	Reber	11.0	6.41	1.27	4.58	8.2		.6	8	0	1210A 1226A	FC 33
112	12/12	"	10.0	4.85	.62	4.44	2.6		.6	7		935A 945A	"
113	1/15	"	34.0	36.08	3.88	5.46	140.		.6	13	-.08	1155A 1221P	"
114	1/15	Reber-Jones	31.5	20.85	3.28	5.03	68.		.6	11	-.02	208P 221P	"
115	1/15	" "	30.5	16.89	2.56	4.91	43.		.6	10	-.02	448P 455P	"
116	1/16	Reber	16.0	8.54	1.37	4.57	12.		.6	9	0	1018A 1037A	"
117	1/16	"	16.0	7.57	1.27	4.57	9.6		.6	9	0	445P 500P	"
118	1/19	"	2.0	.42	.65	4.23	0.27		.6	4		940A 945A	"

F. C. D. FORM 104 IM 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 151 R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

AT ~~Avalon~~ mouth of canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Adj.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
119	1/20	"	10.3	4.14	.97	4.38	4.0		.6	10	-.05	1050A 1103A	"
120	1/21	"	10.5	3.69	.74	4.36	2.7		.6	10		230P 245P	"
121	1/28	"	10.5	3.56	.71	4.33	2.5		.6	10			"
122	2/1	Reber and Corrington	29.5	11.92	3.10	4.77	37.		.6	9		650A 702A	"
123	2/1	Reber	17.0	5.19	2.84	4.47	15.		.6	8	-.02	1103A 1115A	"
124	2/1	"	12.0	3.86	2.53	4.34	9.8		.6	7	0	155P 210P	"
125	2/3	Reber and Corrington	30.5	16.65	3.72	4.88	62.		.6	9	0	345P 405P	"
126	2/3	Reber-Jones	32.0	23.57	4.02	5.10	95.		.6	9	+.04	534P 545P	"
127	2/3	" "	34.0	37.15	4.99	5.42	185.		.6	10	-.02	745P 800P	"
128	2/3	" "	33.0	24.98	4.48	5.16	112.		.6	9	+.03	1050P 1100P	"
129	2/4	Reber	14.0	30.5	3.40	4.80	48.		.6	9	-.01	834A 850A	"
130	2/9	Reber-Jones	17.0	6.84	3.32	4.60	23.		.6	9	0	337P 350P	"
131	2/9	Reber and Corrington	17.0	6.26	2.82	4.50	18.		.5	9	0	815P 832P	"
132	2/10	Reber	15.0	5.52	2.22	4.48	12.		.6	9	0	837A 850A	"
133	2/11	Reber and Corrington	15.0	5.39	2.24	4.48	12.		.6	9	0	945A 953A	"
134	2/11	Reber-Jones	34.5	30.46	5.82	5.35	178.		.6	10	0	255P 310P	"
135	2/11	Reber-Jones	33.5	29.11	5.33	5.21	155.		.6	10	-.04	317P 338P	EC 33
136	2/11	" "	32.5	23.44	4.72	5.14	111.		.6	10	-.01	455P 505P	"
137	2/11	" "	31.5	17.80	3.95	5.00	70.		.6	9	0	642P 650P	"
138	2/17	Reber	13.5	5.31	1.42	4.47	7.5		.6	9	0	500P 513P	"
139	2/24	"	10.7	5.96	1.49	4.49	8.9		.6	10	0	457P 511P	"
140	2/27	Reber and Corrington	16.5	7.76	2.30	4.60	18.		.6	9	0	325P 340P	"
141	2/28	" "	32.5	24.72	4.60	5.11	113.			8	+.02	715A 736A	"
142	2/28	Reber-Jones	33.5	30.90	4.62	5.26	143.		.6	9	+.03	910A 926A	"
143	2/28	" "	34.5	33.06	5.31	5.42	179.		.6	10	+.01	1115A 1134A	"
144	2/28	" "	34.5	34.51	5.46	5.45	189.		.6	10	+.02	140P 157P	"
145	2/28	" "	34.5	34.53	5.43	5.48	188.		.6	10	0	328P 340P	"
146	3/1	" "	42.0	73.2	9.05	6.45	662.			9	0	825A 850A	"
147	3/1	" "	42.0	57.95	9.35	6.44	542			9	+.02	1000A 1018A	"
148	3/1	" "	38.0	48.0	7.89	6.28	378.			9	-.04	235P 253P	"
149	3/2	" "	41.0	76.0	9.84	6.63	747.		.6	9	+.22	850A 915A	"
150	3/2	Reber	39.0	87.5	12.10	7.1	1060.		Fl Veh			1000A 430P	Pitot
150A	3/18	Haig-Fuller and Reber	21.5	48.97	4.78	0.85	234.		Velil			500P	
151	3/22		20.0	42.1	4.71	0.54	198.					305P 322P	
152	3/24	Reber-Jones	19.5	37.6	4.70	0.39	177.			11	0	505P	FC 33
153	4/1	Reber and Corrington	25.5	33.16	3.04		101.		.6	15	0	900A 925A	"
154	4/6	Reber	22.5	21.66	3.65		79.		.6	13	0	330P 350P	"
155	4/7	"	22.5	21.76	3.61		78.		.6	13	0	530P 550P	"
156	4/11	Lindsay	26.0	20.43	3.24		66.		.6	11		955A 1005A	FC 28
157	4/12	"	26.0	20.35	3.35		68.		.6	12		225P 250P	FC 33
158	4/13	"	26.0	21.68	3.23		70.		.6	12		905A 923A	"
159	4/14		26.3	47.41	1.55		74.			15		345P 415P	"
160	4/18	Lindsay	26.1	21.66	3.42		74.		.6	12	+.01	915A 935A	FC 28
161	4/18	"	25.6	19.53	3.07		60.		.6	13	0	1240P 100P	"
162	4/19	"	26.0	20.75	2.91		60.		.6	12		1002A 1025A	"
163	4/21	"	26.0	23.28	3.12		73.		.6	15		946A 1010A	"
164	4/22	"	26.0	22.39	3.01	10.64	67.		.6	14		812A 835A	"
165	4/29	Reber	25.0	22.13	3.23	10.71	72.			12		845A 537P	
166	5/5		Two	Channels		10.60	52.		.6	19	0	610P	FC 33
167	5/12	Reber-Jones	23.5	16.17	2.46	10.45	40.		.6	14		437P 450P	"
168	5/20	Reber	23.3	16.51	2.51	10.42	41.		.6	15		655A 720A	"
169	5/27	Brewster	25.0	16.92	2.10	10.29	36.		.6	7	0	822A 837A	FC 8
170	6/3	"	14.0	10.88	1.54	9.95	17.		.6	7	0	715A 730A	"
171	6/10	"	10.0	8.94	1.44	9.85	13.		.6	5	0	840A 850A	"
172	6/17	"	10.0	6.76	.70	9.68	4.8		.6	5	0	905A 915A	"
173	6/20	"	6.0	4.01	.85	9.63	3.4			4	0	1255P 105P	"
174	6/24	"	4.0	1.90	.50	9.43	0.95		.6	4	0	908A 915A	"

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

F. C. Dist. Form 35 150 8-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	12	453	78	68	16	0	0	0
2	0	0	0	0	6	420	97	69	17	0	0	0
3	0	0	0	0	4	1590	104	64	15	0	0	0
4	0	0	0	0	4	760	86	64	11	0	0	0
5	0	0	0	0	9.5	634	80	59	11	0	0	0
6	0	0	0	0	7.5	468	80	56	12	0	0	0
7	0	0	0	0	5	375	90	56	12	0	0	0
8	0	0	0	0	3.1	300	75	52	13	0	0	0
9	0	0	0	0	11	357	70	52	13	0	0	0
10	0	0	0	0	8.5	221	64	46	13	0	0	0
11	0	0	0.3	0	47	213	61	45	12	0	0	0
12	0	0	2.8	0	37	550	68	43	10.5	0	0	0
13	0	0	0	0	23	750	73	42	7.5	0	0	0
14	0	0	0.4	0	18	300	66	40	5	0	0	0
15	0	0	0	3.2	15	271	66	46	5	0	0	0
16	0	0	0	1.7	14	252	62	46	4	0	0	0
17	0	0	0	3.6	14	240	60	43	3	0	0	0
18	0	0	0	1.0	16	230	63	42	3	0	0	0
19	0	0	0	2.2	14	220	60	40	3	0	0	0
20	0	0	0	2.5	12	210	64	39	3	0	0	0
21	0	0	0	2.6	11	200	73	38	2.7	0	0	0
22	0	0	0	3.1	10	187	66	36	2.2	0	0	0
23	0	0	0	3.1	9.5	177	76	35	2.8	0	0	0
24	0	0	0	3.1	8.5	167	78	31	0.4	0	0	0
25	0	0	0	3.1	8.5	157	80	28	0	0	0	0
26	0	0	0	2.5	13	148	77	30	0	0	0	0
27	0	0	0	2.5	154	138	74	35	0	0	0	0
28	0	0	0	2.5		128	71	30	0	0	0	0
29	0	0	0	2.5		118	71	24	0	0	0	0
30	0	0	0	2.5		108		21	0	0	0	0
31	0		0	2.5		98		18		0		0
	0	0	3.5	83.2	597.3	16902	2209	1327	204.5	0	0	0
Mean	0	0	.11	2.68	21.3	545	73.7	42.8	6.83	0	0	0
Acre-Feet	0	0	6.9	165	1180	33520	4390	2630	406	0	0	0

Remarks:

Year or Period: Mean 58.4 Acre-Feet 42300

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F151R

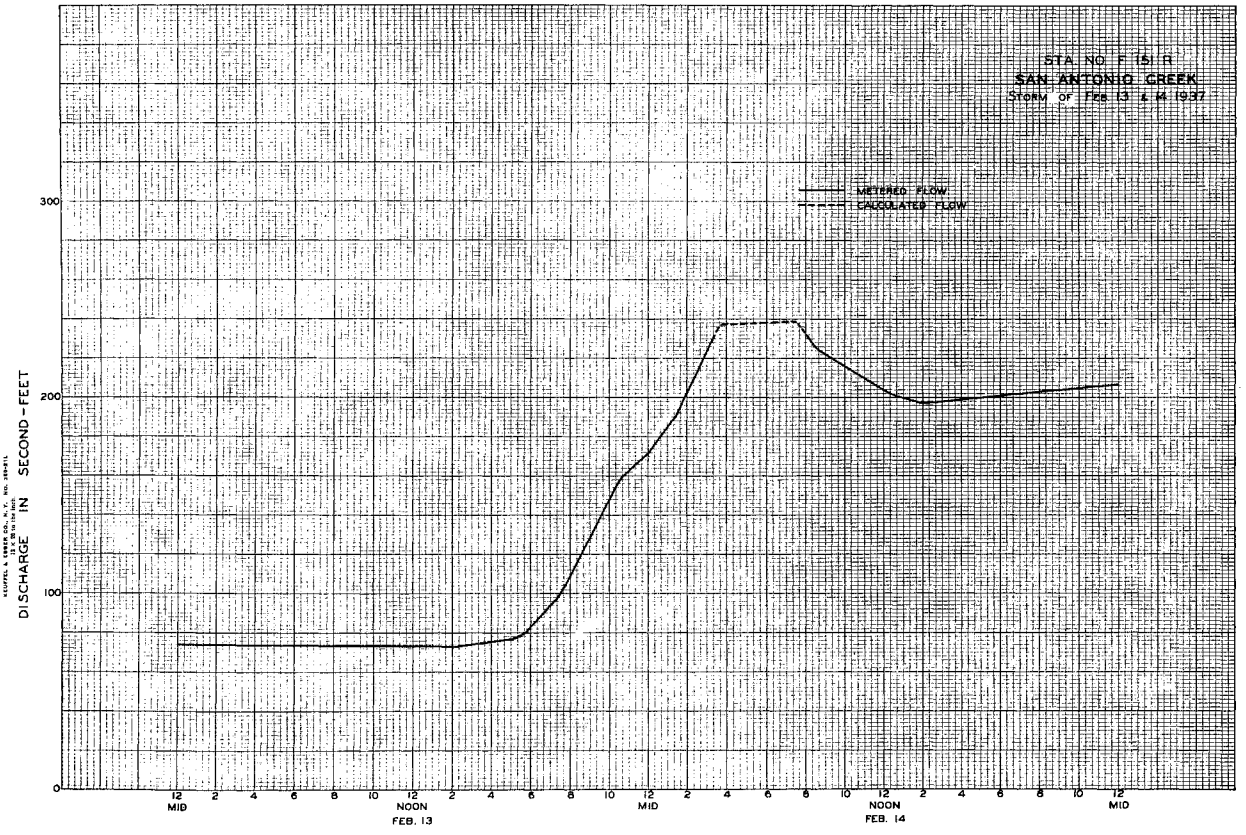
Daily discharge, in second-feet of SAN ANTONIO CREEK at mouth of canyon for the year ending September 30, 19 37

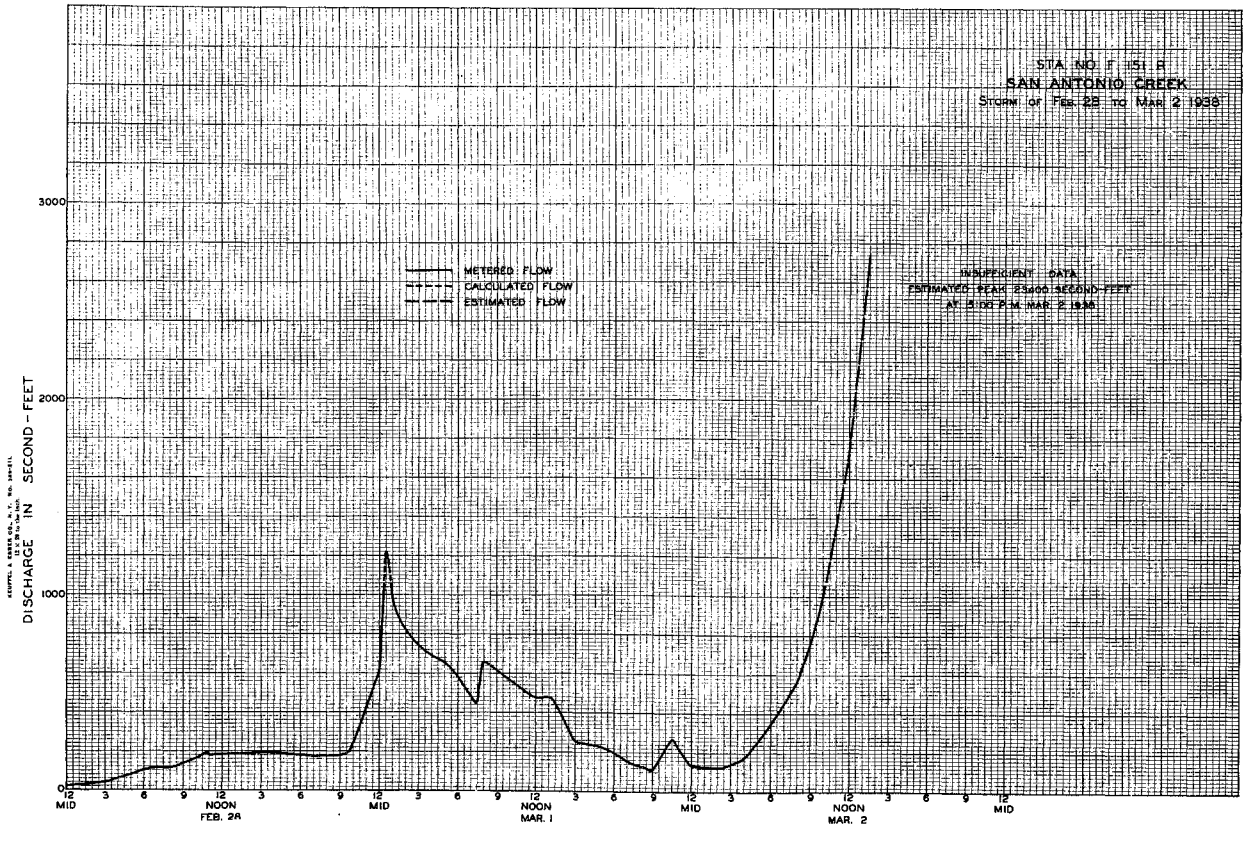
F. C. Dist. Form 35 150 8-38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	12	18	88	89	64	38	6.5	0	0
2	0	0	0	13	14	83	93	62	34	6.4	0	0
3	0	0	0	7.2	10.4	83	91	64	32	5.5	0	0
4	0	0	0	3.0	0.1	81	91	61	32	4.9	0	0
5	0	0	0	2.8	0.1	78	89	62	32	4.4	0	0
6	0	0	0	0	0	85	89	62	31	4.4	0	0
7	0	0	0	3.3	13.6	71	91	64	30	3.6	0	0
8	0	0	0	2.9	9.5	76	93	61	28	3.1	0	0
9	0	0	0	0.2	9.0	76	98	61	26	2.8	0	0
10	0	0	0	0.2	8.3	74	96	61	26	2.3	0	0
11	0	0	0	0.2	7.9	71	95	58	25	2.0	0	0
12	0	0	0	0.2	7.5	105	93	57	24	1.8	0	0
13	0	0	0	0.1	8.1	165	89	61	23	1.5	0	0
14	0	0	0	0	291	192	93	64	23	1.2	0	0
15	0	0	0	0	81	134	93	68	21	1.0	0	0
16	0	0	0	0	159	159	100	67	20	0.9	0	0
17	0	0	0	0	159	152	100	67	19	0.6	0	0
18	0	0	0	0	156	150	98	64	19	0.4	0	0
19	0	0	0	0	144	141	93	61	16	0.2	0	0
20	0	0	0	0	132	135	89	59	15	0.1	0	0
21	0	0	0	0	119	139	89	56	15	0	0	0
22	0	0	0	0	110	141	91	56	14	0	0	0
23	0	0	0	0	105	130	89	53	14	0	0	0
24	0	0	0	0	100	126	84	50	12	0	0	0
25	0	0	0	0	100	117	81	48	12	0	0	0
26	0	0	0	0	100	107	83	42	10.5	0	0	0
27	0	0	14	0	96	107	81	41	8.5	0	0	0
28	0	0	13	0	93	100	74	41	8	0	0	0
29	0	0	12	0		96	74	41	7	0	0	0
30	0	0	16	0		93	70	40		0	0	0
31	+		52	3.1		2708.5						
	0	0	106.7	60.2	2705	3386	2682	1760	622.5	53.2	0	0
Mean	+	0	3.44	1.94	96.7	109	89.4	56.8	20.8	1.72	0	0
Acre-Feet	+	0	212	119	5370	6720	5320	3490	1230	106	0	0

Year or Period: Mean 31.2 Acre-Feet 22670

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


STA NO F 151 R
SAN ANTONIO CREEK
STORM OF FEB 13 & 14 1937
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
300
200
100
0
12 MID
2
4
6
8
10
12 NOON
FEB. 13
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON
FEB. 14
2
4
6
8
10
12 MID


STA NO F 151 R
SAN ANTONIO CREEK
STORM OF FEB 28 TO MAR 2 1938
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
INSUFFICIENT DATA
ESTIMATED PEAK 23,400 SECOND-FEET
AT 5:00 P.M. MAR. 2 1938
DISCHARGE IN SECOND-FEET
3000
2000
1000
0
12 MID
3
6
9
12 NOON
FEB. 28
3
6
9
12 MID
3
6
9
12 NOON
MAR. 1
3
6
9
12 MID
3
6
9
12 NOON
MAR. 2
3
6
9
12 MID

STATION F228R

SAN GABRIEL RIVER - W. FORK 3½ miles above S. G. Dam #2

LOCATION:

On the right bank of the West Fork of the San Gabriel River, 3½ miles above San Gabriel Dam No. 2.

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 36 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder, in service October 1, 1936, was lost in storm of March 2, 1938. Station abandoned.

REGULATIONS:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 6, 1933 to January 26, 1938.
Some discharge measurements subsequent to January 26, 1938.

EXTREMES OF DISCHARGE:

1936-37
Maximum 1220 second-feet December 27.
Minimum + various times in October
1937-38
Maximum not determined.
Minimum not determined.
1933-37
Maximum 1850 second-feet January 1, 1934.
Minimum no flow at various times.

ACCURACY:

Fair for low flows.
Poor for high flows.

OPERATION:

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

F. C. D. FORM 104 IN 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 228 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~XXX~~ 3-1/2 miles above S.G. Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Int.	METH OD	MEAS. RECR. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/6	Waddicor				2.74	0.01		Est		0	110P	
2	10/15	"	.4	.01	.42	2.75	0.01		F1	2	0	1250P	
3	10/17	"	4.0	1.25	1.22	3.11	1.5		.6	7	0	510P 520P	FC 26
4	10/18	"	2.5	.56	.88	2.91	0.49		.6	5	0	750A 800A	"
5	10/22	"	4.0	.71	.76	3.15	.55		.6	8	0	210P 220P	"
6	10/29	"	2.4	.41	.95	3.14	0.39		.6	5	0	200P 207P	"
7	11/5	"	4.5	.77	1.26	3.16	0.95		.6	7	0	220P 230P	"
8	11/12	"	2.5	.49	1.63	3.15	.80		.6	5	0	1240P 1250P	"
9	11/19	"	3.5	.67	1.10	3.16	.75		.6	7	0	200P 210P	FC 20
10	11/26	"	2.5	.36	1.56	3.18	0.55		.6	5	0	200P 210P	"
11	12/3	"	3.3	.70	1.08	3.18	0.75		.6	6	0	150P 200P	FC 26
12	12/10	"	2.5	.36	1.20	3.18	0.43		.6	5	0	210P 218P	"
13	12/15	Waddicor and Bleemers	24.7	20.68	2.30	4.02	48.		.6	11	0	300P 320P	"
14	12/15	" "	26.5	30.72	2.75	4.32	85.		.6	10	0	540P 600P	"
15	12/15	" "	26.0	34.80	4.86	4.74	170.		.6	6	0	935P 955P	"
16	12/16	" "	22.0	26.55	3.90	4.34	104.		.6	6	0	145A 200A	"
17	12/16	" "	24.5	16.99	2.14	3.84	36.		.6	13	0	855A 910A	"
18	12/16	" "	24.3	15.21	2.14	3.74	33.		.6	13	0	1110A 1130A	"
19	12/30	Waddicor	18.0	12.09	2.04	3.70	25.		.6	10	0	150P 202P	"
20	12/30	"	25.0	43.99	8.90	5.45	392.		.6	7	+.10	920P 935P	"
21	12/30	"	32.0	61.39	9.16	6.12	563.		.6	8	-.05	1140P 1200P	"
22	12/31	"	25.5	48.85	4.26	4.88	209.		.6	6	0	750A 800A	"
23	12/31	"	23.0	39.43	4.12	4.70	163.		.6	7	0	1030A 1042A	"
24	12/31	"	23.5	34.42	4.20	4.57	145.		.6	7	0	125P 137P	"
25	1/7	Waddicor-Moon	16.8	10.65	2.20	3.67	23.		.6	10	0	103P 115P	FC 26
26	1/15	Waddicor	16.0	6.9	1.86	3.48	13.		.6	10	0	1035A 1047A	"
27	1/22	"	12.5	5.1	1.86	3.35	9.5		.6	10	0	1125A 1137A	"
28	1/29	"	21.0	8.7	1.90	3.56	17.		.6	11	0	1055A 1105A	"
29	2/3	"	22.6	16.5	1.89	3.74	31.		.6	12	0	1020A 1030A	"
30	2/6	Waddicor-Moon	25.5	56.7	8.33	5.65	472.		.6	11	0	215P 235P	"
31	2/6	" "	27.0	69.11	8.43	6.06	583.		.6	11	0	515P 525P	"
32	2/6	" "	26.0	53.83	6.72	5.50	362.		.6	11	0	1045P 1105P	"
33	2/7	" "	26.0	49.13	6.39	5.34	314.		.6	11	0	755A 807A	"
34	2/7	" "	25.5	45.81	6.11	5.16	280.		.6	11	0	1120A 1135A	"
35	2/7	" "	25.5	42.78	5.41	5.08	232.		.6	11	0	130P 145P	"
36	2/28	Waddicor	18.0	20.39	2.36	3.98	48.		.6	11	0	200P 216P	"
37	3/10	"	17.0	15.73	1.86	3.80	31.		.6	10	0	935A 950A	"
38	3/20	"	34.0	40.40	2.67	4.46	108.		.6	14	0	125P 140P	"
39	3/24	"	31.1	31.20	2.91	4.42	91.		.6	12	0	1010A 1025A	"
40	3/25	"	34.0	36.53	2.87	4.42	105.		.6	13	0	1115A 1135A	"
41	3/31	"	27.0	26.21	2.05	4.20	58.		.6	11	0	1040A 1055A	"
42	4/7	"	27.0	27.37	1.90	4.02	52.		.6	11	0	145P 200P	"
43	4/24	"	17.5	18.15	1.08	3.67	20.		.6	11	0	220P 235P	"
44	4/28	"	14.5	8.1	3.45	3.65	28.		.6	10	0	235P 250P	"
45	5/5	"	11.0	6.58	2.49	3.34	16.		.6	10	0	140P 155P	"
46	5/12	"	10.1	5.87	3.26	3.48	19.		.6	11		1110A 1122A	"
47	5/19	"	14.3	8.41	1.42	3.38	12.		.6	10		200P 212P	"
48	5/27	Waddicor	14.3	8.48	1.48	3.40	13.		.6	10		1015A 1027A	FC 26
49	6/3	"	11.2	3.79	2.79	3.26	11.		.6	11		235P 245P	"
50	6/10	"	7.5	2.75	3.46	3.28	7.3		.6	8		1155A 1205P	"
51	6/16	"	7.1	2.33	3.07	3.21	7.2		.6	8		230P 240P	"
52	6/23	"	9.5	3.43	2.06	3.18	7.0		.6	10		1015A 1025A	"
53	6/30	"	8.3	2.82	1.38	3.12	3.9		.6	10		946A 958A	"
54	7/7	"	7.5	2.17	1.40	3.06	3.0		.6	9		1015A 1025A	"
55	7/14	"	5.5	4.95	.54	3.05	2.7		.6	10		1025A 1035A	"
56	7/20	Turner	9.0	3.94	.66	3.00	2.6		.6	9	0	1125A 1135A	FC 5
57	7/21	Ash	9.5	2.60	.98	3.00	2.6		.6	8		1040A 1050A	FC 20
58	7/28	"	5.0	1.68	1.33	2.95	2.2		.6	6		1008A 1015A	"
59	8/4	Waddicor	7.5	1.69	.74	2.94	1.2		.6	8		950A 1000A	FC 26
60	8/11	"	3.8	1.40	.78	2.89	1.1		.6	8		930A 940A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 228 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~at~~ 3-1/2 miles above S.G. Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Permit No.	METH OD	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												942A	
61	8/18	"	2.3	.74	.98	2.86	.75		.6	5		952A	"
62	8/25	"	2.3	.74	.95	2.86	.70		.6	5		942A	"
												1010A	
63	9/2	Ash	2.6	.49	.80	2.84	.39		.6	3		1013A	FC 20
												955A	
64	9/9	"	2.0	.47	.83	2.81	.39		.6	4		1001A	"
												100P	
65	9/15	Brown	4.1	1.21	.34	2.79	.41		.6	8	0	112P	"
												1120A	
66	9/23	Moon	4.6	1.55	.61	2.85	.80		.6	9		1135A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 228 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~at~~ 3-1/2 miles above S.G. Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Permit No.	METH OD	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												1020A	
67	10/1	Moon	4.4	1.72	.60	2.88	1.0		.6	8	0	1035A	FC 20
												1125A	
68	10/6	"	4.0	1.57	.69	2.90	1.1		.6	8	0	1140A	"
												1135A	
69	10/14	"	4.3	1.54	.67	2.88	1.0		.6	8	0	1153A	"
												1110A	
70	10/21	"	4.0	1.30	.56	2.86	.70		.6	7	0	1122A	FC 26
												1055A	
71	10/28	"	4.4	1.43	.57	2.86	.80		.6	9	0	1107A	"
												955A	
72	11/3	Moon-Godfrey	4.8	1.64	.64	2.90	1.0		.6	8	0	1010A	"
												1220P	
73	11/10	Moon	4.9	1.83	.76	2.96	1.4		.6	9	0	1235P	"
												1010A	
74	11/17	Godfrey-Moon	4.7	1.98	.82	2.97	1.6		.6	9	0	1040A	"
												1030A	
75	11/24	Turner	4.6	1.84	.67	2.96	1.2		.6	9	0	1042A	FC 20
												955A	
76	12/2	"	4.5	2.07	.61	2.97	1.3		.6	9	0	1010A	"
												1135A	
77	12/9	"	4.5	1.99	.66	2.96	1.3		.6	8	0	1145A	"
												200P	
78	12/12	Moon	12.6	9.70	1.01	3.38	9.8		.6	10	-.01	220P	FC 26
												225P	
79	12/23	"	12.9	9.95	1.06	3.40	10.		.6	8	-.02	250P	FC 20
												120P	
80	12/30	"	12.0	7.81	.80	3.25	6.2		.6	8	0	130P	"
												1255P	
81	1/5	"	11.5	6.72	.56	3.15	3.7		.6	10	0	110P	"
												150P	
82	1/12	"	11.3	6.14	.47	3.11	2.9		.6	8	0	205P	"
												1100A	
83	1/16	"	14.3	9.12	1.66	3.48	15.		.6	10	0	1118A	"
												120P	
84	1/26	Moon-Godfrey	13.1	5.30	.94	3.16	5.0		.6	9	0	132P	"
												355P	
85	1/31	Moon-Wood	12.0	5.11	.91	3.14	4.6		.6	9	0	410P	"
												235A	
86	2/1	" "	11.7	8.26	1.50	3.42	12.		.6	7	+.03	250A	"
												545A	
87	2/1	" "	25.0	42.75	4.00	4.90	171.		.6	5	+.40	610A	"
												620A	
88	2/1	" "	28.0	47.05	3.82	5.10	179.		.6	5	-.04	645A	"
												640P	
89	2/8	Moon	21.1	12.63	1.83	3.59	23.		.6	11	0	700P	FC 26
												725A	
90	2/9	"	23.1	18.09	2.06	3.79	37.		.6	12	+.04	748A	"
												855A	
91	2/9	Moon	23.2	20.29	2.22	3.90	45.		.6	12	+.01	918A	FC 26
												1225P	
92	2/9	"	23.5	23.62	2.32	4.05	55.		.6	12	+.04	1248P	"
												150P	
93	2/9	"	23.8	25.79	2.54	4.17	66.		.6	12	+.02	215P	"
												805P	
94	2/9	"	25.5	32.03	2.72	4.27	87.		.6	9	+.03	830P	"
												840A	
95	2/10	"	23.3	22.67	2.38	4.04	54.		.6	12	0	905A	"
												1040A	
96	2/13	"	26.0	33.63	2.91	4.40	98.		.6	10	0	1100A	"
												205P	
97	2/16	"	24.4	17.80	2.39	3.94	43.		.6	9	0	225P	"
												130P	
98	2/23	"	13.6	10.61	2.50	3.69	27.		.6	13	-.01	150P	"
												445P	
99	2/27	Moon-Wood	27.0	29.12	3.70	4.52	107.		.6	11	+.01	500P	"
												440A	
100	2/28	" "	25.	23.0	5.46	4.88	126.		.6	5	+.10	500A	"
												615A	
101	2/28	" "	25.	33.30	6.70	5.42	222.		.6	7	+.03	640A	"
												810A	
102	2/28	" "	26.5	49.80	6.54	5.75	326.		.6	9	0	835A	"
												945A	
103	2/28	" "	28.	57.40	6.85	5.94	394.		.6	8	+.10	1005A	"
												1025A	
104	2/28	" "	28.	63.70	6.98	6.15	443.		.6	6	+.06	1040A	"
												1100A	
105	2/28	" "	28.	65.90	7.60	6.23	501.		.6	6	+.04	1120A	"
												1235P	
106	2/28	" "	28.	71.60	8.05	6.50	572.		.6	6	0	1255P	"
												240P	
107	2/28	" "	28.	70.00	8.49	6.44	590.		.6	6	-.02	305P	"
												535P	
108	2/28	" "	28.	59.40	7.82	6.08	465.		.6	6	0	555P	"
												850P	
109	2/28	" "	30.	106.0	8.90	7.47	944.		.6	6	+.05	1020P	"
												200A	
110	3/1	" "	31.	105.7	11.61	7.82	1230.		.6	5	-.35	235A	"
												245A	
111	3/1	" "	31.	104.3	10.40	7.55	1090.		.6	6	-.10	300A	"
												650A	
112	3/1	" "	28.	72.7	9.05	6.42	657.		.6	6	-.05	710A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F228R

Daily discharge, in second-feet of SAN GABRIEL RIVER--W. FORK 3½ miles above S. G. Dam #2 for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	++	1.5	0.6	57	38	47	56	28	12	25	21	044
2	++	1.2	0.7	56	35	45	60	27	12	25	17	044
3	++	1.1	0.7	53	32	42	57	26	11	23	14	044
4	++	1.0	0.7	52	31	37	57	27	11	23	10	044
5	+	0.9	0.7	50	31	37	55	28	11	23	10	044
6	+	0.9	0.7	49	282	35	55	27	11	23	09	044
7	+	0.9	0.5	23	278	32	51	23	8.5	23	10	033
8	+	0.9	0.5	18	135	31	50	23	8.5	21	09	033
9	+	0.9	0.5	16	86	31	50	22	8.5	21	09	033
10	+	0.9	0.4	16	70	31	49	22	6.5	21	09	033
11	+	0.8	0.4	15	64	31	47	19	7	19	08	033
12	+	0.8	0.4	15	62	106	42	18	7	19	08	033
13	+	0.8	0.4	15	161	297	39	17	6.5	19	08	044
14	+	0.8	0.4	14	470	152	36	16	7	19	08	044
15	+	0.8	0.4	13	277	181	34	15	7	19	07	044
16	+	0.8	0.6	12	195	207	31	15	7	19	07	033
17	+	0.7	1.3	12	145	164	29	14	7	21	07	033
18	0.6	0.7	6.3	11	121	147	28	13	7.5	19	07	033
19	2.3	0.7	8.6	11	101	131	26	13	7.5	19	06	033
20	0.7	0.7	4.5	10	84	108	25	12	6.5	19	06	044
21	0.6	0.6	3.5	10	73	100	23	12	6	18	05	055
22	0.5	0.5	3.0	9	64	121	22	13	6	23	05	055
23	0.5	0.7	5.5	9	58	98	22	13	5.5	23	06	088
24	0.5	0.6	4.5	9	48	98	20	14	5.5	19	06	077
25	0.5	0.5	3.5	9	48	106	22	14	5	19	05	066
26	0.4	0.5	3.0	9	44	94	24	14	4.9	19	04	055
27	0.4	0.5	3.0	9	49	89	27	12	3.9	19	04	055
28	0.4	0.4	3.0	10	48	77	29	12	3.7	19	04	055
29	0.5	0.4	3.0	16		67	28	13	3.5	19	04	066
30	0.5	0.4	3.0	72		61	28	13	2.7	25	04	088
31	4.3		100	54		57		13		25	04	
	191	23.6	380.7	617	3117	2860	1122	551	212.9	649	241	131
Mean	.62	.79	31.6	19.9	111	92.2	37.4	17.8	7.10	2.09	.78	.44
Acre-Feet	38	47	1950	1220	6180	5670	2230	1090	422	129	48	26

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

Years of Record: Mean 26.3 (Oct. 1-Jan. 26) Acre-Feet 19050

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

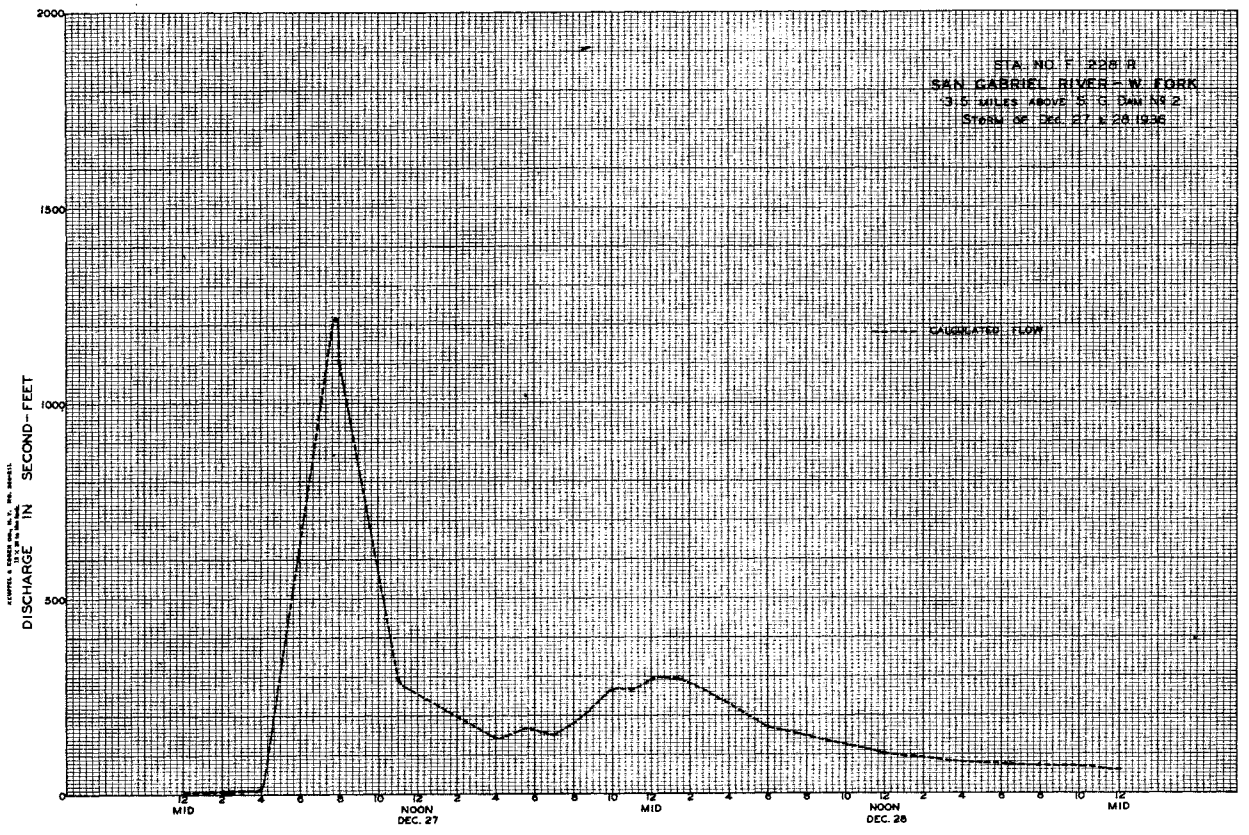
Sta. No. F228R

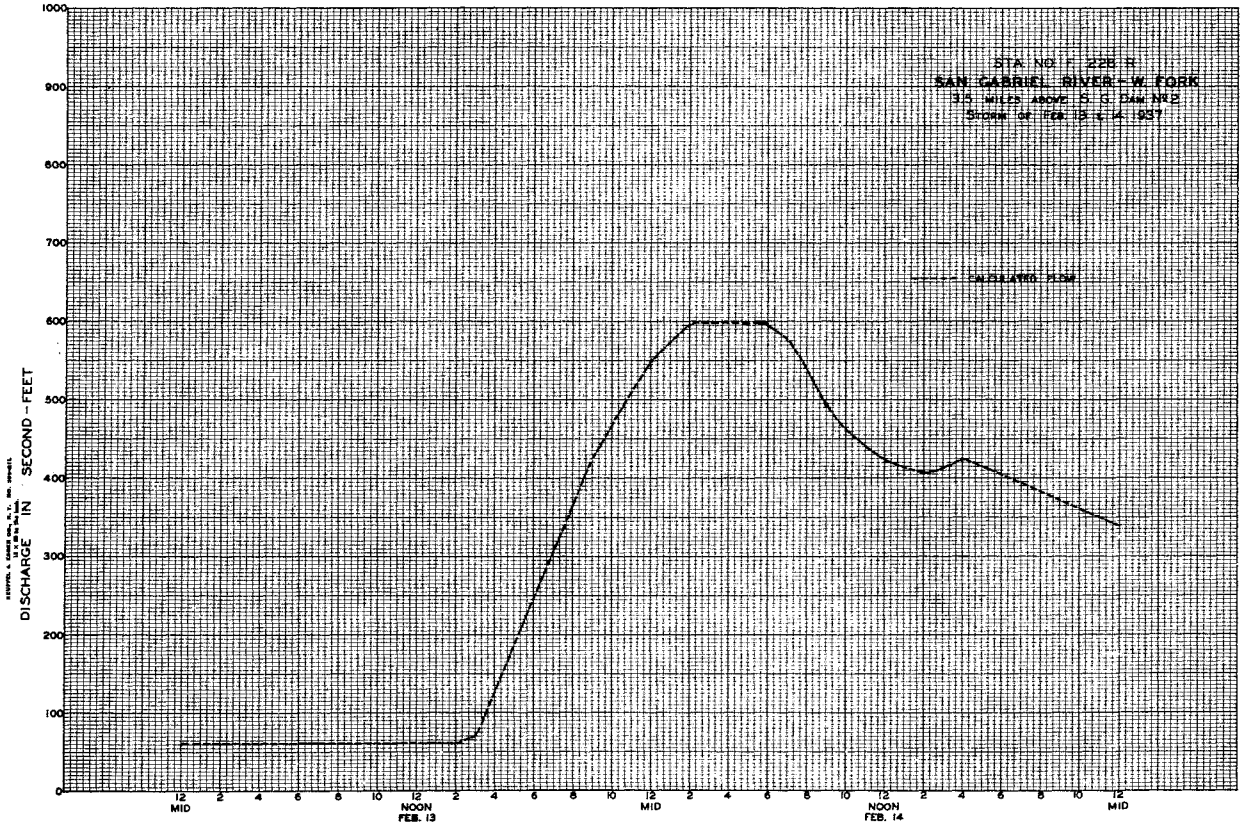
Daily discharge, in second-feet of SAN GABRIEL RIVER - W. FORK 3½ miles above S.G. Dam #2 for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	1.2	1.4	4.7								
2	0.8	1.0	1.4	4.2								
3	1.0	1.0	1.5	3.7								
4	1.0	1.0	1.5	3.7								
5	1.0	0.9	1.4	3.7								
6	0.9	1.2	1.4	3.5								
7	0.8	1.2	1.4	3.5								
8	0.7	1.2	1.5	3.1								
9	0.7	1.2	2.5	3.1								
10	0.7	1.2	2.1	3.1								
11	0.7	1.2	2.9	2.9								
12	0.7	1.4	1.5	2.9								
13	0.7	1.4	1.5	2.9								
14	0.9	1.5	3.1	3.1								
15	1.1	1.6	5.5	5.1								
16	1.0	1.6	2.5	1.4								
17	0.8	1.7	2.1	1.0								
18	0.7	1.5	2.3	8.5								
19	0.7	1.5	1.9	7.5								
20	0.7	1.5	1.8	6.5								
21	0.7	1.5	1.9	6.5								
22	0.7	1.4	2.1	5.5								
23	0.7	1.4	1.4	5.5								
24	0.8	1.5	1.5	5.5								
25	0.8	1.5	1.4	5.5								
26	0.8	1.4	1.5	7.5								
27	0.8	1.4	1.9	6.5								
28	0.8	1.4	1.7	6.5								
29	0.8	1.4	1.5									
30	0.8	1.4	1.5									
31	0.8		1.5									
	25.2	40.1	57.5	182.7								
Mean	.82	1.34	5.56									
Acre-Feet	51	80	344	362								

Remarks:

Years of Record: Mean (Oct. 1-Jan. 26) Acre-Feet


STA. NO. F 228 R
SAN GABRIEL RIVER - W. FORK
3.15 MILES ABOVE S. G. DAM NR 2
STORM OF DEC. 27 & 28 1936
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
2000
1500
1000
500
0
12 MID
2
4
6
8
10
12 NOON
DEC. 27
MID
NOON
DEC. 28


STA. NO. F 228 R
SAN GABRIEL RIVER - W. FORK
3.15 MILES ABOVE S. G. DAM NR 2
STORM OF FEB. 13 & 14, 1937
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
1000
900
800
700
600
500
400
300
200
100
0
12 MID
2
4
6
8
10
12 NOON
FEB. 13
MID
NOON
FEB. 14

STATION F227R

SAN GABRIEL RIVER - DEVILS CANYON 2 miles above S.G. Dam #2

LOCATION:

On the left bank of Devils Canyon, 1 mile above the junction with the West Fork of the San Gabriel River, and approximately 2 miles upstream from S. G. Dam #2.

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 36 inch corrugated iron pipe stilling well.
An Au continuous recorder, in service October 1, 1936, was lost in storm of March 2, 1938. Station abandoned.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 22, 1933 to February 1, 1938.
A few discharge measurements subsequent to February 1, 1938.

EXTREMES OF DISCHARGE:

1936-37
Maximum 367 second-feet February 6.
Minimum no flow October 1-17.
1937-38
Maximum not determined.
Minimum not determined.
1933-37
Maximum 1560 second-feet January 1, 1934.
Minimum no flow at various times.

ACCURACY:

Low flows fair.
High flows poor.

OPERATION:

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

F. C. D. FORM 104 (M 8-38)

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, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	ADDL. PERMIT NO.	METH. CO.	MEAS. RECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/23	Waddicor	1.0	.05	.36	3.46	.02		.6	2		1130A 1132A	FC 26
2	10/30	"	1.0	.08	.75	3.46	.06		.6	2		1050A 1054A	"
3	11/6	"	1.0	.08	.50	3.47	.04		.6	2		1130A 1132A	"
4	11/13	"	2.0	.26	1.19	3.56	.31		.6	4		1050A 1055A	"
5	11/20	"	2.0	.32	.72	3.54	.23		.6	4		1130A 1135A	FC 20
6	11/27	"	2.3	.36	1.06	3.56	.38		.6	5		124P 132P	"
7	12/4	"	2.4	.45	1.22	3.58	.60		.6	5		1100A 1110A	FC 26
8	12/11	"	2.3	.37	1.46	3.57	.55		.6	5		1230P 1235P	"
9	12/16	Moon-Ash	21.0	14.4	1.92	4.47	26.		.6	10		140P 200P	FC 20
10	12/18	Waddicor	14.0	4.53	1.52	4.01	6.0		.6	8		130P 140P	FC 26
11	12/27	Waddicor-Moon	19.5	38.3	4.63	5.77	178.		.6	8	+.14 -.13	830A 845A	"
12	12/27	" "	20.0	33.4	4.28	5.47	143.		.6	8	-.15	905A 910A	"
13	12/27	" "	20.0	20.0	3.09	5.38	104.		.6	8	+.05	935A 950A	"
14	12/27	" "	20.0	29.2	3.24	5.37	95.		.6	8	-.05	1105A 1118A	"
15	12/27	" "	19.5	38.9	3.32	5.17	96.		.6	8	-.01	1200P 1215P	"
16	12/27	Waddicor	21.0	19.2	2.39	4.74	46.		.6	11		350P 405P	"
17	1/8	"	13.5	4.39	1.36	4.16	6.0		.6	10		135P 145P	"
18	1/21	"	10.5	4.3	1.49	4.00	6.4		.6	11		140P 150P	"
19	1/28	"	6.0	3.8	1.29	3.96	4.9		.6	6		120P 130P	"
20	2/11	"	19.0	13.5	2.19	4.70	30.		.6	11		1120A 1132A	"
21	2/18	Ash	23.0	23.4	2.27	4.66	53.		.6	10		225P 245P	FC 20
22	3/5	Waddicor	16.0	8.74	2.00	4.29	18.		.6	10		1000A 1015A	FC 26
23	3/11	"	10.8	5.88	2.15	4.28	13.		.6	10		1000A 1012A	"
24	3/17	Waddicor-Moon	20.0	33.3	2.53	5.00	84.		.6	10		150P 200P	"
25	3/22	Waddicor-Moon	21.0	26.3	2.08	4.79	55.		.6	11	0	230P 245P	FC 26
26	3/26	Waddicor	14.0	15.3	2.50	4.65	38.		.6	11	0	120P 135P	"
27	4/2	"	22.3	23.1	1.97	4.64	45.		.6	12	0	1010A 1025A	"
28	4/9	"	22.0	18.6	1.74	4.43	32.		.6	12	0	1035A 1050A	"
29	4/14	Moon	23.8	18.6	1.50	4.35	28.		.6	16	0	215P 240P	FC 20
30	4/16	Waddicor	14.0	11.3	1.78	4.41	20.		.6	11	0	1020A 1035A	FC 26
31	4/20	Waddicor and Harrison	22.0	14.1	1.59	4.33	22.		.6	13	0	1100A 1113A	"
32	4/29	Waddicor	9.5	5.65	2.11	4.23	12.		.6	10	0	1120A 1135A	"
33	5/6	"	12.8	4.7	1.51	4.16	7.1		.6	10	0	941A 953A	"
34	5/13	"	10.2	3.86	2.44	4.10	9.4		.6	10		952A 1005A	"
35	5/19	Waddicor and Dalton	17.8	10.6	.87	4.02	9.1		.6	11	0	1040A 1102A	FC 20
36	5/26	Waddicor	17.7	10.4	.84	4.01	8.7		.6	11		210P 222P	FC 26
37	6/2	"	9.0	3.1	2.00	3.93	6.2		.6	10	0	1135A 1145A	"
38	6/9	"	7.5	3.2	1.84	3.89	5.9		.6	9	0	245P 255P	FC 20
39	6/17	"	7.0	2.66	1.56	3.84	4.1		.6	9	0	145P 155P	FC 26
40	6/24	"	6.0	2.38	1.38	3.79	3.3		.6	11		932A 942A	"
41	7/1	"	5.0	1.89	1.07	3.74	2.0		.6	8		1000A 1010A	"
42	7/8	"	5.2	1.65	.93	3.70	1.5		.6	9		933A 943A	"
43	7/15	"	5.5	2.64	.49	3.67	1.3		.6	11	0	940A 950A	"
44	7/22	Ash	2.8	.59	.68	3.64	.50		.6	5		1119A 1125A	FC 20
45	7/26	Turner	6.5	2.03	.33	3.58	.65		.6	7	0	530P 535P	FC 5
46	7/29	Ash	2.1	.35	1.17	3.58	.41		.6	3	0	326P 330P	FC 20
47	8/5	Waddicor	2.0	.45	1.42	3.56	.60		.6	4	0	105P 112P	FC 26
48	8/12	Waddicor	1.6	.15	.73	3.58	.11		.6	2		1050A 1228P	FC 26
49	8/19	"	1.6	.16	.75	3.48	.12		.6	2			"
50	8/25	"	1.6	.14	.71	3.46	.10		.6	2		1005	"
51	9/2	Ash	.7	.07	.29	3.46	.02		.6	2		150P 151P	FC 20
52	9/9	"	.7	.05	.60	3.44	.03		F1	2		155P 200P	
53	9/16	Moon	.7	.07	.57	3.43	.04		F1	3		340P 345P	
54	9/23	"	.8	.06	.67	3.44	.04		F1	4		915A 920A	

F. C. D. FORM 104 1M 9-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 227 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - DEVILS CANYON

~~XXX~~ 2 miles above S.G. Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Dif.	METH OD	MEAS. ROD. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
55	10/1	Moon				3.46	.05		F1		0	820A	
56	10/7	"				3.47	.05		F1		0	130P	
57	10/14	"	2.2	.21	.95	3.51	.20		.6	4	0	930A 940A	FC 20
58	10/20	"	1.8	.23	1.09	3.50	.25		.6	4	0	1020A 1030A	FC 26
59	10/26	"	1.9	.24	1.00	3.52	.24		.6	4	0	850A 900A	"
60	11/2	"	2.2	.26	1.04	3.47	.27		.6	4	0	325P 333P	"
61	11/10	"	2.6	.39	1.28	3.53	.50		.6	5	0	1005A 1015A	"
62	11/16	"	2.7	.34	1.26	3.56	.43		.6	5	0	305P 315P	FC 20
63	11/24	Turner	2.8	.41	.85	3.57	.95		F1	5	0	1255P 100P	
64	12/2	"	2.9	.62	1.24	3.58	.80		.6	6	0	110P 117P	FC 5
65	12/2	"	4.5	2.02	.48	3.58	1.0		.6	9	0	145P 155P	"
66	12/8	"	3.9	1.55	.65	3.58	1.0		.6	8	0	300P 312P	"
67	12/11	Turner-Moon	4.0	2.63	1.30	3.74	3.4		.6	5	0	227P 237P	FC 20
68	12/11	" "	22.3	15.23	1.35	4.30	21.		.6	11	0	838P 850P	FC 26
69	12/12	" "	18.0	13.02	.98	4.16	13.		.6	10	0	1230A 1240A	"
70	12/12	Moon	7.2	3.93	1.25	3.83	4.9		.6	7	-.02	917A 932A	FC 20
71	12/14	Turner-Moon	4.8	2.28	.81	3.70	1.8		.6	7	0	323P 333P	FC 5
72	12/23	Moon	5.4	3.46	1.54	3.85	5.5		.6	6	0	1230P 1242P	FC 26
73	12/30	"	6.0	3.95	1.05	3.77	4.2		.6	9	0	950A 1002A	"
74	1/5	"	5.3	2.68	.97	3.72	2.6		.6	7	0	945A 1000A	"
75	1/12	"	13.5	6.86		3.70	2.1		.6	8	0	920A 935A	"
76	1/15	"	17.3	14.55	.99	4.20	14.		.6	9	+.03	845A 858A	"
77	1/15	"	17.5	20.7	1.26	4.51	26.		.6	9	+.04	940A 955A	"
78	1/15	"	17.5	20.34	1.26	4.50	26.		.6	9	-.01	1015A 1030A	"
79	1/15	Moon	17.6	26.64	1.70	4.81	45.		.6	9	+.07	1107A 1127A	FC 26
80	1/15	"	23.7	29.39	1.68	4.82	49.		.6	9	-.04	1145A 1200N	"
81	1/15	"	23.7	28.76	1.80	4.85	52.		.6	9	+.09	100P 115P	"
82	1/15	"	23.7	30.18	1.80	4.91	55.		.6	9	0	150P 205P	"
83	1/16	"	17.2	13.91	.84	4.14	12.		.6	10	0	210P 220P	FC 20
84	1/18	Moon-Wood	16.2	10.38	.57	3.94	6.0		.6	9	+.01	110P 125P	FC 26
85	1/26	Moon	14.6	8.55	.36	3.82	3.1		.6	9	0	335P 350P	"
86	2/1	Moon-Wood	18.0	19.80	1.26	4.43	25.		.6	10	0	1220P 1235P	"
87	2/3	" "	18.5	21.6	1.39	4.52	30.		.6	10	+.02	1154A 1207P	"
88	2/3	" "	23.5	27.35	1.91	4.82	52.		.6	12	+.09	145P 200P	"
89	2/3	" "	23.5	33.92	2.10	5.02	71.		.6	12	+.04	245P 300P	"
90	2/3	" "	24.0	35.56	2.46	5.18	90.		.6	12	+.02	417P 436P	"
91	2/3	" "	23.0	47.0	2.72	5.36	128.		.6	6	+.05	617P 650P	"
92	2/3	" "	23.0	50.0	3.33	5.47	166.		.6	6	-.01	810P 835P	"
93	2/4	" "	24.0	39.12	2.00	5.02	78.		.6	12	-.03	138A 158A	"
94	2/4	" "	24.0	35.30	1.80	4.85	63.		.6	11	0	505A 525A	"
95	2/4	Moon	24.0	41.54	2.27	5.12	95.		.6	9	0	1220P 1235P	"
96	2/10	"	18.5	20.16	1.69	4.53	34.		.6	11	0	225P 245P	"
97	2/11	Moon-Wood	28.0	66.90	6.53	5.91	437.		.6	7	-.05	345P 405P	"
98	2/11	" "	27.0	52.2	6.94	5.76	362.		.6	7	0	435P 455P	"
99	2/11	" "	26.0	44.2	6.38	5.60	278.		.6	6	-.05	600P 620P	"
100	2/11	" "	26.0	42.65	4.34	5.36	185.		.6	6	-.02	1035P 1050P	"
101	2/12	" "	24.0	30.51	3.21	5.08	101.		.6	13	0	830A 855A	"
102	2/16	Moon	16.0	10.80	2.25	4.32	23.		.6	9	0	1035A 1050A	FC 26
103	2/22	Moon	16.0	7.69	2.09	4.23	16.		.6	10	0	220P 240P	FC 26

F. C. Dist. Form 53 10c 8-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F227R

SAN GABRIEL RIVER -- DEVILS CANYON 2 miles above S. G. Dam #2 for the year ending September 30, 19 37

Daily discharge, in second-feet of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1	0.4	11	10	22	37	10	6	18	0.6	+
2	0	0.1	0.4	8	9.5	21	36	9	5.5	16	0.6	+
3	0	0.1	0.4	7	9.5	19	32	8.5	5.5	15	0.6	+
4	0	+	0.6	6.5	9	18	27	7.5	5.5	15	0.6	+
5	0	+	0.6	6.5	8.5	17	26	7.5	5.5	15	0.6	+
6	0	+	0.6	7.5	214	16	26	7.5	6	14	0.4	+
7	0	+	0.6	6.5	206	16	23	7	5.5	14	0.3	+
8	0	+	0.6	6.5	59	14	21	7.5	5.5	13	0.3	+
9	0	0.1	0.6	7	40	13	21	8	5.5	13	0.1	+
10	0	0.2	0.6	7	30	12	20	8.5	5	12	0.1	+
11	0	0.2	0.6	8	29	43	19	8.5	5	11	0.1	+
12	0	0.3	0.6	7.5	95	115	18	9	4.5	13	0.1	+
13	0	0.2	0.6	5.5	232	49	19	8.5	4.5	12	0.1	+
14	0	0.2	0.9	6	126	80	25	8.5	4.2	12	0.1	+
15	0	0.2	21	6.5	85	134	21	8.5	4.1	10	0.1	+
16	0	0.3	30	6.5	64	90	19	8.5	4.1	9	0.1	+
17	0	0.3	10	6.5	54	74	20	8.5	3.7	7	0.1	+
18	0	0.2	6	6.5	45	60	20	8.5	3.5	7	0.1	+
19	0	0.1	4.6	6.5	39	53	17	8.5	3.4	6	0.1	+
20	0	0.2	3.9	6.5	36	46	19	8	3.2	5	0.1	+
21	+	0.3	3.4	6.5	32	44	18	8	3.1	4	0.1	+
22	+	0.4	3.1	6.5	31	48	16	8	3.1	4	0.1	+
23	+	0.4	2.8	5.5	31	47	16	8	2.9	4	0.1	+
24	+	0.4	4.0	5.5	34	41	16	8	2.9	3	0.1	+
25		0.4	3.2	5.5	27	39	15	8.5	2.6	3	0.1	+
26		0.4	5.1	5.5	24	39	14	8.5	2.5	3	0.1	+
27		0.4	2.3	5.4	23	38	13	8.5	2.5	3	+	+
28		0.4	2.4	5.5		38	12	7.5	2.2	3	+	+
29		0.4	8.5	6		38	11	7.5	2.0	3	+	+
30		0.4	14	10				7		3	+	+
31		0.2	32	11				7		3	+	
		6.7	231.0	210.3	1701.5	1346	621	249.0	125.7	302	5.8	

Mean .04 .22 7.45 6.78 60.8 43.4 20.7 8.0 4.19 .97 .19 +

Acre-Feet 2.4 13 458 417 3370 2670 1230 494 249 60 12 12.4

Year Mean Acre Feet 6980

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F227R

SAN GABRIEL RIVER -- DEVILS CANYON 2 miles above S.G. Dam #2 for the year ending September 30, 19 38

Daily discharge, in second-feet of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0.7	3.4	24							
2	+	+	0.8	3.2								
3	+	+	1.0	3.1								
4	+	0.1	0.9	2.8								
5	+	+	0.9	2.6								
6	+	+	0.9	2.6								
7	+	+	0.9	2.4								
8	+	0.2	1.0	2.2								
9	+	0.2	1.2	2.2								
10	+	0.2	1.9	2.2								
11	+	0.3	7	2.1								
12	+	+	6	2.1								
13	+	0.3	2.9	2.4								
14	+	0.4	2.0	2.6								
15	+	0.2	1.9	24								
16	+	0.2	1.9	13								
17	+	0.2	1.9	8								
18	+	0.2	2.0	6								
19	+	0.2	2.1	6								
20	+	0.2	2.1	5.5								
21	+	0.1	4.5	4.6								
22	+	0.1	2.6	4.3								
23	+	0.1	4.3	3.7								
24	+	0.1	3.7	3.4								
25	+	0.2	3.5	3.4								
26	+	0.2	7	3.1								
27	+	0.2	9	3.1								
28	+	0.2	6	3.4								
29	+	0.2	4.6	3.8								
30	+	0.2	4.2	4.2								
31	+	0.2	3.7	4.3								
		4.9	91.3	140.6 (Feb. 1)								

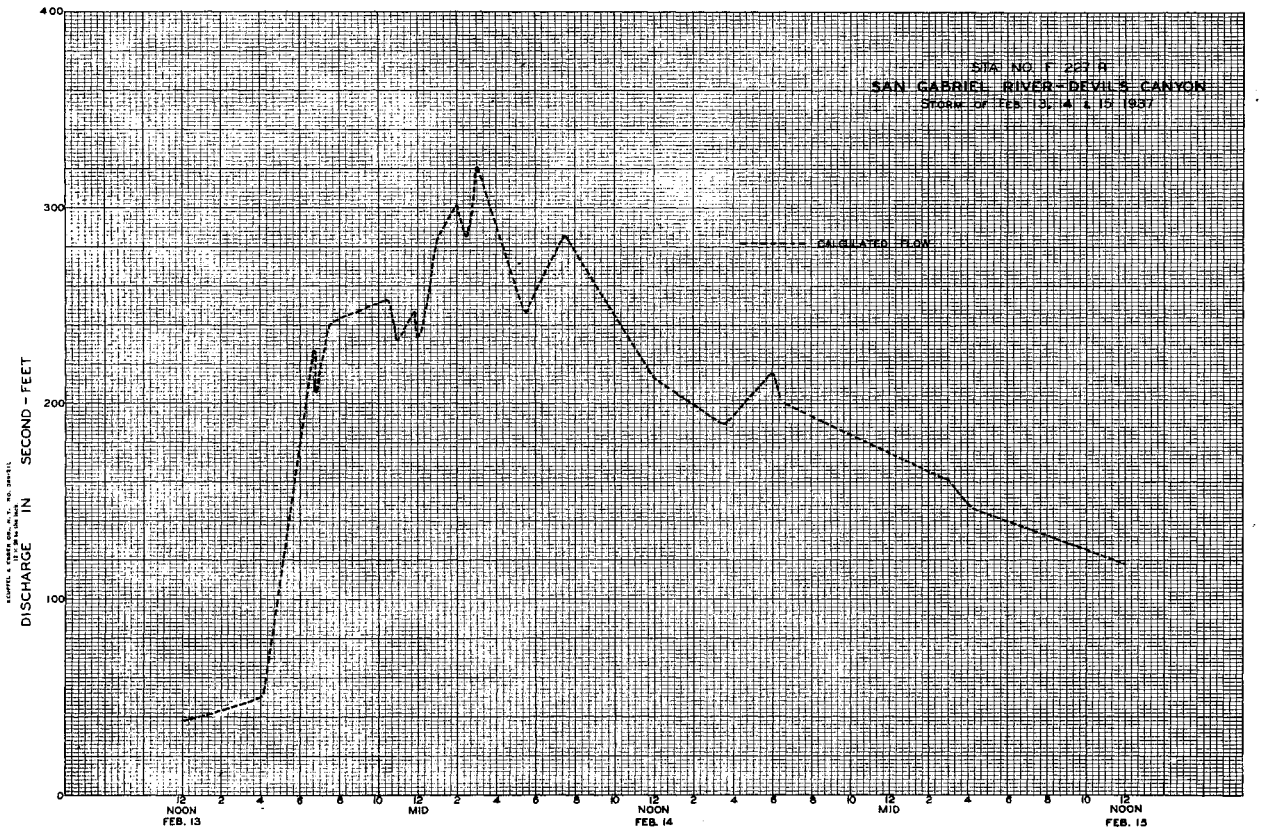
NO RECORD

Mean .16 .49 2.95 4.53

Acre-Feet 10 29 181 279 45

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

Year (Oct. 1937 to Sept. 1938) Mean 547 Acre-Feet



STATION F209R

SAN GABRIEL RIVER - W. FORK 1/2 mile below S. G. Dam #2

LOCATION:

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:

41.0 square miles.

CHANNEL AND CONTROL:

Channel composed of sand, gravel and boulders.
No artificial control until November 21, 1936, when the channel was improved and an artificial control was constructed of material from the channel (sand, gravel and boulders). At several subsequent times during the 1936-37, 37-38 water years works was done on the 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 an F. C. standard type house over a 36 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1936 until the recorder house and recorder washed away and the stilling well damaged in the March 2, 1938 storm.
On March 10, 1938 an H.C.F. continuous recorder was installed in a temporary house over the damaged stilling well which was replaced with an Au continuous recorder on April 17, 1938.
Recorder removed May 30, 1938.
On July 8, 1938 an Au continuous recorder was installed in a new F. C. Standard type concrete house over a 4 ft. x 4 ft. concrete well in the same location as the old well.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2.

DIVERSIONS:

None.

RECORDS AVAILABLE:

May 26, 1932 to December 8, 1933 stream measurements only.
Recorder records December 8, 1933 to February 21, 1938; March 10, 1938 to May 30, 1938; and July 8, 1938 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 752 second-feet February 14.
Minimum + several times in November.
1937-1938
Maximum 25000 second-feet, estimated, March 2.
Minimum not determined.
1933-1938
Maximum 25000 second-feet, estimated, March 2, 1938.
Minimum + several times.

ACCURACY:

Fair.
Discharge from dam records:
December 22-24, 27-30, 1937; January 14-16, February 3-5, 10, 11, 17-21, March 13, May 30 to July 8, July 11-14, and September 20-30, 1938.
Interpolated:
November 21, 1936; December 15-19, 1937.
Extrapolated:
December 20, 21, 1937.
Estimated:
August 5, 8, 16, 1938.
Clock Stopped:
October 27-28, 1936; August 9, 1938.
Communication doubtful August 17 to September 6, 1938.
Interpolated between discharge measurements September 7-19, 1938.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District, for measuring outflow from San Gabriel Dam #2.

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 209 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~X~~ 1/2 mile below S.G. Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Percent Diff.	METHOD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Waddicor	1.5	.26	.58	3.58	.15		.6	3		830A 835A	FC 26
2	10/2	"	1.5	.24	.67	3.58	.16		.6	3		805A 810A	"
3	10/3	"	1.5	.24	.62	3.58	.15		.6	3		845A 850A	"
4	10/4	"	1.5	.24	.67	3.58	.16		.6	3		735A 740A	"
5	10/5	Ash	1.5	.25	.52	3.58	.13		.6	3		900A 905A	FC 20
6	10/6	"	1.5	.24	.59	3.57	.14		.6	3		930A 935A	"
7	10/7	Waddicor	1.5	.24	.59	3.58	.14		.6	3		820A 825A	FC 26
8	10/8	"	1.5	.24	.58	3.58	.14		.6	3		806A 811A	"
9	10/9	"	1.5	.23	.56	3.57	.13		.6	3		835A 840A	"
10	10/10	"	1.5	.22	.55	3.56	.12		.6	3		855A 900A	"
11	10/11	"	1.5	.22	.59	3.58	.13		.6	3		830A 835A	"
12	10/12	Ash	1.5	.20	.55	3.56	.11		.6	3		1000A 1005A	FC 20
13	10/13	"	1.5	.24	.50	3.56	.12		.6	3		1000A 1004A	"
14	10/14	Waddicor	1.5	.22	.55	3.55	.12		.6	3		850A 855A	FC 26
15	10/14	"	1.5	.22	.54	3.56	.12		.6	3		910A 915A	"
16	10/15	"	1.5	.22	.45	3.56	.10		.6	3		710A 715A	"
17	10/17	"	1.5	.28	.68	3.60	.19		.6	3		810A 815A	"
18	10/18	Ash	1.7	.34	1.10	3.63	.31		.6	3		1025A 1029A	FC 20
19	10/19	Waddicor	2.0	.51	.84	3.64	.43		.6	4		905A 910A	FC 26
20	10/19	"	17.5	14.4	3.60	4.40	52.		.6	10	0	940A 955A	"
21	10/19	"	16.5	12.0	3.48	4.27	42.		.6	11	-.01	145P 200P	"
22	10/20	Ash	11.0	4.28	1.96	3.89	8.4		.6	9		910A 925A	FC 20
23	10/21	Waddicor	5.0	1.28	1.37	3.68	1.8		.6	10	0	920A 930A	FC 26
24	10/22	"	11.2	7.84	3.59	4.17	28.		.6	11	0	850A 905A	"
25	10/23	Waddicor	9.0	3.45	1.61	3.85	5.5		.6	9	0	850A 902A	FC 26
26	10/24	"	3.8	2.14	.58	3.66	1.2		.6	7		900A 910A	"
27	10/25	"	1.0	.08	.75	3.64	.06		.6	2		845A 850A	"
28	10/26	Ash	1.0	.10	.40	3.64	.04		.6	2		900A 903A	FC 20
29	10/27	"	8.0	2.53	.82	3.75	2.1		.6	8		910A 920A	"
30	10/28	Waddicor	1.6	.21	.57	3.63	.12		.6	3		1020A 1025A	FC 26
31	10/29	"	11.0	5.95	2.54	3.96	15.		.6	11	0	900A 915A	"
32	10/30	"	1.0	.12	1.16	3.64	.14		.6	2		845A 850A	"
33	10/31	"	2.0	.32	1.00	3.66	.32		.6	4		1000A 1007A	"
34	11/1	"	11.0	8.52	4.18	4.25	36.		.6	11		910A 925A	"
35	11/2	Ash	1.6	.32	.69	3.61	.22		.6	3		835A 845A	FC 20
36	11/3	"	1.6	.32	.56	3.61	.18		.6	3		835A 840A	"
37	11/4	Waddicor	10.0	4.94	2.31	3.97	11.		.6	10		930A 945A	FC 26
38	11/5	"	8.5	4.78	1.41	3.88	6.7		.6	9	0	850A 905A	"
39	11/6	"	2.5	.51	1.04	3.63	.55		.6	5		905A 912A	"
40	11/7	"	1.0	.12	.33	3.59	.04		.6	2		925A 929A	"
41	11/8	"	1.5	.26	.92	3.59	.24		.6	3		915A 920A	"
42	11/9	Ash	6.0	2.22	.79	3.70	1.8		.6	6		1050A 1100A	FC 20
43	11/10	"	6.0	1.74	.89	3.69	1.6		.6	6		935A 945A	"
44	11/11	Waddicor	6.0	1.59	.78	3.68	1.2		.6	6		900A 910A	FC 26
45	11/12	"	6.0	1.54	.79	3.68	1.2		.6	6		940A 950A	"
46	11/13	"	6.0	1.52	.78	3.68	1.2		.6	6		900A 910A	"
47	11/14	"	1.0	.12	.50	3.61	.06		.6	2		900A 905A	"
48	11/15	"	1.2	.14	.71	3.61	.10		.6	2		840A 845A	"
49	11/16		.9	.07	.43	3.61	.03		.6	2		915A 917A	FC 20
50	11/17	Ash	.9	.07	.57	3.61	.04		.6	2		850A 855A	"
51	11/18	Waddicor	1.0	.08	.50	3.61	.04		.6	2		840A 844A	FC 26
52	11/19	"	1.0	.08	.25	3.61	.02		.6	2		905A 910A	FC 20
53	11/20	"	1.0	.08	.37	3.61	.03		.6	2		810A 815A	"
54	11/20	Cooper-DeVore	3.0	.52	.52	3.64	.27		.6	5	0	130P 135P	FC 11
55	11/21	Waddicor	1.0	.08	.38	3.61	.03		.6	2		835A 840A	FC 20
56	11/22	Ash	1.0	.10	.46	4.38	.05		.6	2		950A 955A	"
57	11/23	"	1.0	.10	.45	4.42	.04		.6	2		815A 817A	"
58	11/24	"	1.0	.10	.40	4.39	.04		.6	2		946A 948A	"
59	11/25	Waddicor	1.0	.10	.40	4.36	.04		.6	2		815A 820A	"
60	11/26	"	2.5	.40	.68	4.37	.27		.6	5		1005A 1015A	"
61	11/27	"	2.5	.44	.75	4.38	.33		.6	5		900A 910A	"
62	11/28	"	2.5	.44	.75	4.40	.33		.6	5		1030A 1040A	"
63	11/29	"	2.5	.46	.72	4.40	.33		.6	5		905A 915A	"
64	11/30	Ash	2.5	.44	.79	4.40	.35		.6	5		940A 945A	"
65	12/1	"	2.5	.44	.68	4.40	.30		.6	5		830A 835A	"
66	12/2	Waddicor	2.5	.44	.66	4.40	.29		.6	5		840A 850A	"
67	12/3	"	3.0	.36	.94	4.36	.30		.6	6		905A 915A	FC 26
68	12/3	"	21.5	25.67	3.07	5.29	82.		.6	10		441P 456P	"
69	12/4	"	7.0	4.08	1.17	4.24	4.9		.6	7		850A 900A	"
70	12/5	"	6.0	2.40	.90	4.11	2.4		.6	6		925A 935A	"
71	12/6	"	6.0	2.21	1.04	4.08	2.3		.6	6		910A 920A	"
72	12/7	Ash	5.0	2.79	.75	4.12	2.1		.6	7		840A 850A	FC 20
73	12/8	Ash	7.8	1.36	1.73	4.20	2.4		.6	8		830A 840A	FC 20
74	12/9	Waddicor	9.3	1.17	2.39	4.39	2.8		.6	9	+.01	845A 855A	FC 26
75	12/10	"	8.2	1.15	2.02	4.79	2.3		.6	8		1010A 1020A	"
76	12/11	"	8.2	1.15	2.14	4.82	2.5		.6	8		940A 950A	"
77	12/12	"	8.2	1.20	1.98	4.90	2.4		.6	8		850A 900A	"
78	12/13	"	8.0	1.20	1.97	4.91	2.4		.6	8		940A 950A	"
79	12/14	Ash	6.7	.96	1.63	4.95	1.6		.6	8		820A 830A	FC 20
80	12/15	"	12.0	6.72	3.85	5.09	26.		.6	12		1010A 1030A	"
81	12/15	Moon-Brown	20.0	10.79	4.05	5.27	44.		.6	20	+.04	135P 200P	"
82	12/15	" "	20.8	16.66	4.22	5.43	70.		.6	14	+.06	335P 410P	"
83	12/15	" "	16.4	9.32	4.09	4.82	38.		.6	11	0	725P 750P	"
84	12/16	" "	18.0	14.81	3.35	4.96	50.		.6	12	+.03	1210A 1255A	"
85	12/16	Ash-Moon	22.0	18.92	3.04	5.07	57.		.6	13		940A 1000A	"
86	12/16	Moon-Ash	22.0	19.08	2.94	5.07	56.		.6	13		300P 330P	"
87	12/16	" "	24.0	30.19	4.50	5.72	136.		.6	12	+.07	415P 455P	"
88	12/16	" "	22.0	22.54	3.91	5.57	88.		.6	11	0	740P 805P	"
89	12/17	Ash-Waddicor	30.0	23.35	2.96	5.44	69.		.6	12	-.04	755A 820A	FC 26
90	12/17	Waddicor-Ash	22.5	27.86	3.97	5.71	111.		.6	12	+.02	1015A 1035A	"
91	12/17	Waddicor	23.0	25.83	3.96	5.70	102.		.6	12	0	105P 125P	"
92	12/17	Ash-Waddicor	38.8	36.15	4.05	5.91	147.		.6	12	0	900P 915P	"
93	12/18	Waddicor	23.0	14.36	1.66	5.21	24.		.6	12	0	905A 925A	"
94	12/19	"	8.2	5.13	2.89	4.99	15.		.6	10	0	915A 935A	"
95	12/20	Ash	13.0	4.20	2.65	5.13	11.		.6	10		930A 950A	FC 20
96	12/21	"	12.0	2.73	3.44	5.02	9.4		.6	9		930A 950A	"
97	12/22	Ash	9.4	2.68	2.97	4.89	8.0		.6	10		900A 915A	FC 20
98	12/23	Waddicor	2.0	.32	1.06	4.59	.34		.6	4	0	940A 950A	FC 26
99	12/24	"	2.0	.18	1.28	4.58	.23		.6	4	0	930A 935A	"
100	12/25	"	2.0	.22	1.32	4.58	.29		.6	4	0	1105A 1110A	"
101	12/26	Waddicor-Moon	2.4	.28	1.43	4.58	.40		.6	5	0	1034A 1045A	"
102	12/27	Ash	13.8	4.62	3.44	5.12	16.		.6	9	-.03	1125A 1140A	FC 20
103	12/27	"	14.0	4.35	3.10	5.05	13.		.6	9		400P 415P	"
104	12/27	Waddicor-Moon	13.0	7.13	3.44	5.17	24.		.6	9	+.02	1000P 1012P	FC 26
105	12/28	Waddicor	13.5	9.21	2.91	5.14	26.		.6	10	0	920A 932A	"
106	12/29	Moon-Waddicor	15.5	9.59	2.65	5.06	25.		.6	10	0	932A 948A	"
107	12/30	Moon-Ash	12.0	8.38	2.40	5.00	20.		.6	11		1055A 1105A	FC 20
108	12/31	" "	14.5	10.67	3.25	5.21	35.		.6	10		1012A 1022A	"
109	1/1	Waddicor	25.5	14.11	2.94	5.17	42.		.6	13	0	1045A 1105A	FC 26
110	1/2	"	21.0	12.4	2.97	5.14	37.		.6	12	0	1005A 1020A	"
111	1/3	"	20.5	11.6	2.97	5.10	33.		.6	12	0	1000A 1015A	"
112	1/4	"	20.5	11.8	2.66	5.05	31.		.6	12	0	1005A 1020A	"
113	1/5	Ash	14.8	10.83	2.60	5.04	28.		.6	11		1020A 1035A	FC 20
114	1/6	"	14.9	10.91	2.53	5.05	28.		.6	11		1045A 1055A	"
115	1/7	"	15.0	11.15	2.51	5.05	29.		.6	11		1040A 1055A	"
116	1/8	Waddicor	14.0	10.7	2.53	5.02	27.		.6	11	0	945A 957A	FC 26
117	1/9	"	14.0	10.2	2.41	4.99	25.		.6	11	0	1010A 1022A	FC 26
118	1/10	"	14.0	10.2	2.36	4.98	24.		.6	11	0	1015A 1027A	"
119	1/11	Ash	14.5	10.36	2.26	4.96	23.		.6	11		1035A 1050A	FC 20
120	1/12	"	15.0	10.66	2.30	4.98	25.		.6	11		1040A 1055A	"
121	1/13	Waddicor	22.8	10.7	2.00	4.98	21.		.6	13	0	945A 957A	FC 26
122	1/14	"	22.5	10.1	1.99	4.97	20.		.6	13	0	915A 927A	"
123	1/15	Ash	15.0	10.65	2.21	4.97	24.		.6	11		911A 925A	FC 20
124	1/16	Waddicor	22.5	9.98	1.94	4.96	19.		.6	13	0	1025A 1037A	FC 26
125	1/17	"	22.5	9.6	2.0	4.94	17.		.6	13	0	1115A 1137A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 209 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

XXX 1/2 mile below S.G. Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RISE PRIOR TO MEAS.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
126	1/18	Ash	14.0	9.58	2.22	4.93	21.		.6	11		820A 835A	FC 20
127	1/19	"	13.8	9.47	2.15	4.92	20.		.6	10		936A 950A	"
128	1/20	Waddicor	13.0	5.9	2.86	4.91	17.		.6	13	0	958A 1010A	FC 26
129	1/21	"	13.0	6.13	2.91	4.92	18.		.6	13	0	940A 952A	"
130	1/22	Ash	15.8	9.10	1.99	4.92	18.		.6	10		1005A 1020A	FC 20
131	1/23	Waddicor	13.5	6.3	2.75	4.92	17.		.6	14	0	1010A 1022A	FC 26
132	1/24	"	13.3	6.3	2.73	4.92	17.		.6	14	0	935A 947A	"
133	1/25	Ash	15.7	8.27	2.13	4.92	18.		.6	10		1017A 1027A	FC 20
134	1/26	"	15.8	8.43	2.17	4.92	18.		.6	10		1010A 1022A	"
135	1/27	Waddicor	10.5	5.9	2.83	4.91	17.		.6	11	0	1000A 1012A	FC 26
136	1/28	"	10.5	6.2	2.82	4.91	18.		.6	11	0	945A 955A	"
137	1/29	Ash	15.8	8.61	2.06	4.92	18.		.6	10		1016A 1032A	FC 20
138	1/30	Waddicor	10.3	6.4	2.75	4.91	18.		.6	11	0	955A 1007A	FC 26
139	1/31	"	11.5	6.21	2.98	4.94	19.		.6	12	0	1050A 1102A	"
140	2/1	Ash	15.7	8.68	2.25	4.95	20.		.6	10		1030A 1042A	FC 20
141	2/2	"	15.6	9.13	2.37	4.96	22.		.6	10		1000A 1010A	"
142	2/3	"	15.6	9.33	2.43	4.98	23.		.6	10		1035A 1045A	"
143	2/4	Waddicor	12.3	7.2	2.94	4.98	21.		.6	13	0	1000A 1012A	FC 26
144	2/5	"	12.6	7.0	3.03	4.99	21.		.6	13	0	1005A 1017A	"
145	2/6	Waddicor	18.5	12.85	2.03	5.05	26.		.6	13	+.01	850A 910A	FC 26
146	2/8	Ash	26.5	19.36	3.48	5.47	68.		.6	11		945A 1005A	FC 20
147	2/9	"	26.5	22.36	2.91	5.46	65.		.6	11		1010A 1030A	"
148	2/10	"	26.5	20.64	2.97	5.42	61.		.6	11		1020A 1030A	"
149	2/11	"	26.5	21.47	2.99	5.40	62.		.8	11		1005A 1020A	"
150	2/12	Waddicor	31.0	27.0	2.57	5.42	69.		.6	13	0	1000A 1015A	FC 26
151	2/13	Ash	26.5	21.91	2.96	5.42	65.		.6	11		1005A 1020A	FC 20
152	2/14	Waddicor-Moon	41.0	111.3	6.39	7.22	712.		.6	9	0	741A 802A	FC 26
153	2/14	Waddicor-Ash	40.0	120.5	5.54	6.97	668.		.6	9		110P 140P	"
154	2/14		40.5	60.1	3.30	5.63	264.		.6	9		210P 235P	"
155	2/14	Waddicor-Ash	37.5	100.4	4.84	6.24	486		.6	9		255P 310P	"
156	2/15	Waddicor	36.0	95.0	4.44	6.03	423.		.6	10	0	945A 1010A	"
157	2/16	"	36.0	69.23	3.75	5.92	335.		.6	10	0	930A 950A	"
158	2/17	"	34.5	47.7	2.23	4.69	106.		.6	10	0	925A 945A	"
159	2/18	Ash	35.5	45.18	2.70	4.72	122.		.6	8		1005A 1030A	FC 20
160	2/19	"	35.5	48.60	2.75	4.75	134.		.6	8		1010A 1030A	"
161	2/20	Moon	34.0	47.0	2.73	4.76	128.		.6	12	0	615P 640P	FC 26
162	2/21	"	34.0	45.0	2.74	4.77	126.		.6	12	0	255P 320P	"
163	2/22	Waddicor	33.0	43.15	2.60	4.76	112.		.6	12	0	1120A 1140A	"
164	2/23	Ash	32.0	47.67	2.44	4.76	117.		.6	11		1115A 1135A	
165	2/24	Waddicor	29.0	35.82	2.82	4.75	102.		.6	11	0	1025A 1040A	FC 26
166	2/25	"	29.5	35.9	2.80	4.74	100.		.6	11	0	940A 955A	"
167	2/27	"	36.0	53.9	1.96	4.73	100.		.6	13	0	955A 1010A	"
168	2/28	"	35.5	51.9	1.89	4.70	98.		.6	13	0	1000A 1015A	"
169	3/1	Waddicor	35.3	52.2	1.88	4.69	98.		.6	13	0	950A 1005A	FC 26
170	3/2	Ash	33.5	47.31	2.27	4.69	107.		.6	12		1105A 1125A	FC 20
171	3/3	Waddicor	31.3	38.3	2.61	4.68	100.		.6	12		1040A 1058A	FC 26
172	3/4	Ash	34.5	45.56	2.21	4.67	101.		.6	12		1015A 1035A	FC 20
173	3/5	"	34.5	45.78	2.33	4.65	107.		.6	12	0	950A 1010A	"
174	3/6	Waddicor-Moon	31.0	39.0	2.51	4.64	98.		.6	13	0	952A 1008A	FC 26
175	3/7	Waddicor	31.0	38.9	2.46	4.64	96.		.6	13	0	1035A 1050A	"
176	3/8	Ash	34.5	45.13	2.11	4.64	95.		.6	12	0	110P 130P	FC 20
177	3/9	"	34.0	45.58	2.12	4.63	97.		.6	12	0	958A 1018A	"
178	3/10	"	35.0	45.02	2.14	4.63	96.		.6	12	0	918A 938A	"
179	3/11	"	35.0	46.0	2.12	4.60	98.		.6	12	0	925A 945A	"
180	3/12	"	35.0	46.04	2.16	4.62	100.		.6	12	0	950A 1010A	"
181	3/13	Waddicor	30.0	37.7	2.19	4.70	114.		.6	10	0	1020A 1035A	FC 26
182	3/14	"	30.0	38.38	2.80	4.66	108.		.6	11	0	940A 955A	"
183	3/15	Ash	35.0	44.02	2.28	4.60	101.		.6	12	0	220P 240P	FC 20
184	3/16	"	35.0	43.60	2.23	4.60	98.		.6	12	0	210P 230P	"
185	3/17	"	35.0	46.46	2.24	4.66	105.		.6	12	0	940A 1000A	"
186	3/18	"	35.0	46.04	2.24	4.65	103.		.6	12	0	1005A 1025A	"
187	3/19	"	35.0	44.90	2.30	4.63	103.		.6	12	0	840A 900A	"
188	3/20	Waddicor	32.5	40.83	2.50	4.65	102.		.6	13	0	930A 950A	FC 26
189	3/21	"	33.0	40.75	2.42	4.68	99.		.6	13	0	950A 1010A	"
190	3/22	"	33.0	41.1	2.55	4.70	104.		.6	13	0	1105A 1125A	"
191	3/23	"	33.6	41.8	2.58	4.74	108.		.6	14	0	1035A 1055A	"
192	3/24	Ash	36.0	51.18	2.32	4.77	119.		.6	12	0	255P 315P	FC 20
193	3/25	Ash	36.0	52.80	2.41	4.80	127.		.6	12	0	205P 225P	FC 20
194	3/26	Waddicor	33.0	42.9	2.74	4.83	117.		.6	14	0	915A 935A	FC 26
195	3/27	"	34.0	43.2	2.69	4.82	116.		.6	14	0	215P 235P	"
196	3/28	"	34.5	46.91	2.58	4.75	121.		.6	18		1100A 1130A	FC 20
197	3/29	Ash	36.0	50.34	2.21	4.78	111.		.6	12	0	1157A 1217P	"
198	3/30	"	36.0	50.58	2.41	4.78	122.		.6	12	0	910A 930A	"
199	3/31	"	36.0	51.90	2.41	4.81	125.		.6	12	0	1025A 1045A	"
200	4/1	"	36.0	52.68	2.37	4.82	125.		.6	12	0	940A 1000A	"
201	4/2	"	36.0	53.10	2.41	4.84	128.		.6	12	0	905A 925A	"
202	4/3	Waddicor	33.8	50.51	2.57	4.84	130.		.6	13	0	1000A 1020A	FC 26
203	4/4	"	33.5	49.51	2.58	4.82	128.		.6	13	0	950A 1010A	"
204	4/5	Ash				4.82	125.					940A 1000A	
205	4/6	"	37.0	52.98	2.50	4.83	133.		.6	12	0	1020A 1040A	FC 20
206	4/7	"	36.0	53.22	2.38	4.82	127.		.6	12	0	950A 1010A	"
207	4/8	"	36.0	52.74	2.34	4.82	123.		.6	12	0	935A 955A	"
208	4/9	"	36.0	52.26	2.43	4.82	127.		.6	12	0	930A 950A	"
209	4/10	Waddicor	33.4	43.55	2.41	4.66	105.		.6	13	0	1027A 1047A	FC 26
210	4/11	"	33.5	43.8	2.43	4.65	106.		.6	13	0	940A 958A	"
211	4/12	Moon	34.0	44.23	2.30	4.67	102.		.6	17	0	935A 955A	"
212	4/13	Ash	35.0	46.37	2.15	4.61	100.		.6	12	+.01	1010A 1030A	FC 20
213	4/14	"	35.0	44.49	2.20	4.60	98.		.6	12	0	250P 315P	FC 26
214	4/15	"	36.0	46.98	2.34	4.60	110.		.6	12		1030A 1055A	FC 20
215	4/16	Waddicor	33.0	40.6	2.36	4.61	97.		.6	13	0	855A 910A	FC 26
216	4/17	"	33.3	40.69	2.60	4.62	106.		.6	13	0	920A 940A	"
217	4/18	Waddicor	33.5	40.49	2.31	4.62	93.		.6	13	0	1020A 1040A	FC 26
218	4/19	Ash	35.0	47.02	2.10	4.62	99.		.6	12	0	958A 1021A	FC 20
219	4/20	"	35.0	46.64	2.27	4.62	106.		.6	12	0	947A 1009A	"
220	4/21	Waddicor	33.3	40.73	2.32	4.62	95.		.6	13	0	855A 910A	FC 26
221	4/22	Ash	35.0	47.89	2.14	4.62	102.		.6	12	0	1012A 1034A	FC 20
222	4/23	"	33.0	47.33	2.11	4.62	100.		.6	12	0	947A 1010A	"
223	4/24	Waddicor	33.0	40.80	2.31	4.62	94.		.6	13	0	1015A 1035A	FC 26
224	4/25	"	33.0	40.81	2.29	4.62	93.		.6	13	0	1000A 1020A	"
225	4/26	"	33.0	40.62	2.25	4.61	92.		.6	13	0	912A 927A	"
226	4/27	"	33.0	40.48	2.23	4.61	90.		.6	13	0	930A 947A	"
227	4/28	"	33.0	40.72	2.28	4.62	93.		.6	13	0	920A 938A	"
228	4/29	"	33.0	40.69	2.30	4.62	94.		.6	13	0	905A 925A	"
229	4/30	Ash	35.0	46.09	2.15	4.61	99.		.6	12	0	842A 903A	FC 20
230	5/1	"	35.0	46.31	2.12	4.61	98.		.6	12	0	917A 940A	"
231	5/3	Waddicor	33.0	46.82	2.04	4.59	96.		.6	13	0	920A 938A	FC 26
232	5/4	"	32.2	43.86	2.05	4.59	90.		.6	12	0	955A 1010A	"
233	5/5	"	32.0	43.39	2.03	4.58	88.		.6	12	0	905A 923A	"
234	5/6	Ash	35.0	45.58	2.02	4.58	92.		.6	12	0	934A 955A	FC 20
235	5/7	"	35.0	45.49	2.07	4.57	94.		.6	12	0	843A 904A	"
236	5/8	"	35.0	45.24	2.06	4.56	93.		.6	12	0	220P 230P	"
237	5/9	Waddicor	32.0	43.43	2.03	4.55	88.		.6	12	0	1010A 1025A	FC 26
238	5/10	"	32.0	43.9	2.04	4.55	89.		.6	12	0	910A 927A	"
239	5/11	"	32.0	43.58	2.03	4.54	88.		.6	12	0	927A 942A	"
240	5/12	Ash	34.0	44.04	2.09	4.54	92.		.6	12	0	1026A 1050A	FC 20
241	5/13	Ash	34.0	43.81	2.08	4.53	91.		.6	12	0	958A 1020A	FC 20
242	5/14	"	34.0	43.69	2.06	4.53	90.		.6	12	0	1000A 1021A	"
243	5/15	"	34.0	43.64	2.05	4.52	89.		.6	12	0	952A 1013A	"
244	5/16	Waddicor	32.0	42.58	2.02	4.51	86.		.6	12	0	935A 950A	FC 26
245	5/17	"	32.0	42.2	2.05	4.51	87.		.6	12	0	905A 920A	"
246	5/18	"	31.3	40.52	2.08	4.50	84.		.6	12	0	910A 925A	"
247	5/19	Ash	34.0	41.47	2.06	4.49	86.		.6	12	0	1157A 1219P	"
248	5/20	Waddicor	32.0	36.62	2.14	4.48	77.		.6	12	0	920A 935A	"
249	5/21	Ash	34.0	40.73	2.10	4.47	86.		.6	12	0	1000A 1023A	FC 20
250	5/22	"	34.0	39.71	2.06	4.47	82.		.6	12	0	935A 955A	"

F. C. D. FORM 104 (M 8-36)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. P 209 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

1/2 mile below S.G. Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 1937

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Diff.	METH OD	MEAS. SECS. NO.	S. NT. CHANGE TOTAL	BEGIN END	METER NO.
251	5/23	Waddicor	32.0	36.54	2.12	4.47	78.		.6	12	0	1006A 1022A	FC 26
252	5/24	"	32.0	36.18	2.09	4.47	76.		.6	12	0	915A 930A	"
253	5/25	"	32.1	35.78	2.15	4.46	77.		.6	12	0	930A 945A	"
254	5/26	"	32.0	35.72	2.08	4.45	74.		.6	12	0	1040A 1055A	"
255	5/27	Ash	34.0	40.59	1.77	4.44	72.		.6	12	0	927A 950A	FC 20
256	5/28	"	34.0	40.95	1.84	4.43	75.		.6	12	0	958A 1020A	"
257	5/29	"	34.0	40.44	1.81	4.43	73.		.6	12	0	1012A 1033A	"
258	5/30	"	34.0	40.04	1.80	4.42	72.		.6	12	0	912A 933A	"
259	5/31	Waddicor	31.4	34.15	2.05	4.41	70.		.6	13	0	930A 945A	FC 26
260	6/1	"	31.3	33.47	1.95	4.39	68.		.6	13	0	915A 930A	"
261	6/2	"	30.0	32.58	2.08	4.34	66.		.6	12	0	915A 930A	"
262	6/3	"	30.0	31.88	1.99	4.32	63.		.6	12	0	1020A 1035A	"
263	6/4	Ash	33.0	36.24	1.73	4.32	63.		.6	11	0	940A 958A	FC 20
264	6/4	"	42.0	97.90	4.70	5.96	460.		.6	8	0	435P 505P	"
265	6/4	Ash	41.5	79.70	3.61	5.54	288.		.6	8	0	600P 625P	FC 20
266	6/5	"	41.0	76.30	3.55	5.46	271.		.5	8	0	807A 833A	"
267	6/5	"	42.5	103.8	4.49	6.04	465.		.6	8	0	935A 957A	"
268	6/5	"	42.0	90.20	3.67	5.75	332.		.6	8	0	1012A 1037A	"
269	6/6	Waddicor	37.5	74.13	3.85	5.55	286.		.6	8	0	850A 910A	FC 26
270	6/7	"	37.5	67.88	3.43	5.35	232.		6.	8	0	900A 917A	"
271	6/7	"	40.0	75.3	3.55	5.40	267.		.6	9	0	1030A 1045A	"
272	6/8	"	40.0	65.4	3.26	5.27	214.		.6	9	0	931A 950A	"
273	6/8	"	40.0	77.0	3.59	5.50	276.		.6	10	0	956A 1018A	"
274	6/9	"	40.0	71.5	3.01	5.43	215.		.6	11	0	847A 907A	"
275	6/9	"	40.0	79.0	3.70	5.66	291.		.6	10	0	1002A 1022A	"
276	6/9	Ash	41.5	83.28	3.64	5.62	304.		.6	8	0	447P 505P	"
277	6/9	"	31.0	22.60	1.44	4.02	32.		.6	10	-.02	531P 549P	
278	6/10	"	30.6	20.90	1.15	3.98	24.		.6	10	0	1053A 1114A	FC 20
279	6/11	"	32.0	21.07	1.14	3.98	24.		.6	11	0	927A 950A	"
280	6/12	"	32.0	20.80	1.11	3.97	23.		.6	11	0	1000A 1021A	"
281	6/13	Waddicor	11.7	18.03	1.59	3.97	29.		.6	9	0	940A 955A	FC 26
282	6/14	"	11.8	18.03	1.59	3.97	28.		.6	9	0	910A 922A	"
283	6/15	"	11.5	17.11	1.39	3.95	24.		.6	9	0	905A 917A	"
284	6/16	"	11.5	16.75	1.38	3.93	23.		.6	9	0	920A 935A	"
285	6/17	"	11.2	16.27	1.36	3.91	22.		.6	9	0	935A 947A	"
286	6/18	Ash	32.0	18.92	1.16	3.91	22.		.6	10	0	955A 1010A	FC 20
287	6/19	"	32.0	18.93	1.14	3.91	22.		.6	10	0	930A 945A	"
288	6/20	Waddicor	11.0	15.91	1.35	3.91	22.		.6	9	0	942A 955A	FC 26
289	6/21	Waddicor	11.0	15.76	1.35	3.91	21.		.6	9	0	735A 747A	FC 26
290	6/22	"	11.2	15.84	1.34	3.91	21.		.6	9	0	755A 808A	"
291	6/23	Ash	32.0	18.65	1.27	3.91	24.		.6	10	0	1006A 1020A	FC 20
292	6/24	"	32.0	18.23	1.25	3.91	23.		.6	10	0	937A 950A	"
293	6/25	"	32.0	18.12	1.24	3.91	23.		.6	10	0	928A 942A	"
294	6/26	"	32.0	18.41	1.24	3.91	23.		.6	10	0	922A 935A	"
295	6/27	Waddicor	11.0	15.77	1.36	3.91	22.		.6	9	0	920A 933A	FC 26
296	6/28	"	11.2	15.88	1.33	3.91	21.		.6	9	0	900A 913A	"
297	6/29	"	11.1	15.55	1.33	3.91	21.		.6	9	0	955A 1008A	"
298	6/30	Ash	31.0	18.13	1.15	3.91	21.		.6	10	0	956A 1014A	FC 20
299	7/1	"	31.0	18.13	1.14	3.91	21.		.6	10	0	914A 928A	"
300	7/2	"	31.0	17.85	1.13	3.91	20.		.6	10	0	112P 124P	"
301	7/3	"	31.0	17.91	1.12	3.91	20.		.6	10	0	947A 1000A	"
302	7/4	Waddicor	11.0	15.38	1.34	3.91	21.		.6	9	0	915A 928A	FC 26
303	7/5	"	11.1	15.41	1.32	3.91	20.		.6	9	0	926A 938A	"
304	7/6	"	10.5	14.69	1.35	3.90	20.		.6	9	0	915A 928A	"
305	7/7	Ash	28.5	17.48	1.16	3.90	20.		.6	10	0	1001A 1017A	FC 20
306	7/8	"	28.5	17.23	1.14	3.89	20.		.6	10	0	927A 938A	"
307	7/9	"	28.5	16.90	1.13	3.89	19.		.6	10	0	1002A 1014A	"
308	7/10	"	28.5	16.68	1.10	3.87	18.		.6	10	0	1018A 1036A	"
309	7/11	"	29.5	17.93	1.20	3.87	22.		.6	10	0	901A 914A	"
310	7/12	Waddicor	11.5	15.90	1.27	3.87	20.		.6	9	0	955A 1007A	FC 26
311	7/13	"	11.4	15.82	1.27	3.89	20.		.6	9	0	1100A 1112A	"
312	7/14	Ash	15.5	10.74	1.69	3.88	18.		.6	9	0	840A 852A	FC 20
313	7/15	Ash	16.0	10.79	1.65	3.87	18.		.6	9	0	908A 918A	FC 20
314	7/16	"	15.0	10.34	1.71	3.87	18.		.6	10	0	928A 940A	"
315	7/17	"	15.0	10.33	1.68	3.87	17.		.6	10	0	844A 855A	"
316	7/18	"	15.0	10.20	1.68	3.87	17.		.6	10	0	904A 915A	"
317	7/19	Turner	17.8	17.08	.94	3.87	16.		.6	11	0	1155A 1207P	FC 5
318	7/20	"	17.8	17.38	.95	3.86	17.		.6	10	0	815A 827A	"
319	7/21	Ash	13.8	9.74	1.71	3.86	17.		.6	10	0	814A 825A	FC 20
320	7/22	"	13.8	9.74	1.72	3.85	17.		.6	10	0	819A 830A	"
321	7/23	"	13.8	8.28	1.51	3.80	12.		.6	10	0	831A 840A	"
322	7/24	"	13.8	8.47	1.52	3.80	13.		.6	10	0	843A 855A	"
323	7/25	"	13.8	8.53	1.49	3.80	13.		.6	10	0	744A 755A	"
324	7/26	Turner	15.5	16.27	.69	3.80	13.		.6	9	0	1155A 1205P	FC 5
325	7/27	"	17.5	15.97	.71	3.78	11.		.6	10	0	755A 809A	"
326	7/28	Ash	14.0	8.24	1.40	3.77	12.		.6	9	0	737A 748A	FC 20
327	7/29	"	27.0	13.87	.89	3.77	12.		.6	11	0	858A 910A	"
328	7/29	"	32.0	19.01	1.37	3.93	26.		.6	10	0	1222P 1240P	"
329	7/30	"	31.0	17.69	1.10	3.90	20.		.6	10	0	820A 839A	"
330	7/30	"	32.0	18.39	1.29	3.95	24.		.6	10	0	442P 455P	"
331	7/31	"	32.0	18.90	1.11	3.92	21.		.6	10	0	405P 417P	"
332	7/31	"	32.5	20.89	1.19	3.98	25.		.6	10	0	450P 503P	"
333	8/1	Waddicor	11.5	14.83	1.61	3.97	24.		.6	9	0	232P 242P	FC 26
334	8/2	"	11.4	14.69	1.60	3.94	24.		.6	9	0	910A 922A	"
335	8/2	"	11.9	16.42	1.28	3.92	21.		.6	10	0	255P 305P	"
336	8/2	"	12.0	16.58	1.40	3.96	23.		.6	10	0	322P 334P	"
337	8/2	Waddicor	12.0	18.25	1.63	4.02	30.		.6	9	0	422P 434P	FC 26
338	8/3	"	12.0	17.70	1.52	3.98	27.		.6	9	0	924A 937A	"
339	8/4	"	11.8	14.62	1.31	3.84	19.		.6	10	0	210P 222P	"
340	8/5	"	10.5	12.79	.85	3.75	11.		.6	8	0	840A 850A	"
341	8/5	"	11.5	16.99	1.40	3.96	24.		.6	9	0	930A 940A	"
342	8/6	Turner	17.7	19.35	1.19	3.95	23.		.6	12	0	915A 927A	FC 5
343	8/6	"	17.9	20.60	1.35	4.02	28.		.6	11	0	955A 1010A	"
344	8/7	"	16.9	19.23	1.45	4.02	28.		.6	11	0	1020A 1035A	"
345	8/7	"	17.9	20.39	1.33	4.02	27.		.6	11	0	1050A 1105A	"
346	8/8	Waddicor	12.0	18.07	1.62	4.01	29.		.6	9	0	945A 958A	FC 26
347	8/9	"	12.0	17.67	1.62	4.00	29.		.6	9	0	920A 932A	"
348	8/10	"	12.0	17.41	1.59	3.99	28.		.6	9	0	928A 940A	"
349	8/11	"	12.0	17.7	1.50	3.99	27.		.6	9	0	142P 154P	"
350	8/12	"	11.8	17.40	1.52	3.99	26.		.6	9	0	855A 908A	"
351	8/13	Turner	17.0	16.42	1.46	3.96	24.		.6	13	0	1155A 1210P	FC 5
352	8/14	"	17.8	19.00	1.16	3.95	22.		.6	10	0	915A 928A	"
353	8/14	"	16.5	19.32	1.52	4.03	29.		.6	13	0	1043A 1100A	"
354	8/15	Waddicor	12.0	17.65	1.58	4.01	28.		.6	9	0	900A 912A	FC 26
355	8/16	"	12.0	17.67	1.58	4.01	28.		.6	9	0	920A 942A	"
356	8/17	"	12.0	17.41	1.50	3.98	26.		.6	9	0	900A 911A	"
357	8/17	"	12.0	17.96	1.62	4.04	29.		.6	9	0	200P 214P	"
358	8/18	Ash	18.0	20.20	1.33	4.03	27.		.6	10	0	906A 915A	FC 20
359	8/19	Waddicor	12.0	17.76	1.60	4.02	28.		.6	9	0	845A 857A	FC 26
360	8/19	"	11.6	18.20	1.90	4.08	34.		.6	9	0	930A 942A	"
361	8/20	Ash	18.0	21.16	1.44	4.07	31.		.6	10	0	846A 858A	FC 20
362	8/20	"	18.0	17.56	.99	3.91	17.		.6	10	0	218P 230P	"
363	8/21	"	18.0	17.11	.99	3.90	17.		.6	10	0	842A 854A	"
364	8/22	"	18.0	18.52	1.19	3.95	22.		.6	10	0	854A 905A	"
365	8/22	"	18.0	17.39	1.00	3.89	17.		.6	10	0	948A 959A	"
366	8/23	Waddicor	11.5	15.90	1.18	3.88	19.		.6	9	0	1015A 1025A	FC 26
367	8/24	"	11.5	15.59	1.14	3.86	18.		.6	9	0	1010A 1020A	"
368	8/25	"	11.3	14.83	1.10	3.84	16.		.6	9	0	210P 220P	"
369	8/26	Ash	17.5	15.84	.88	3.91	14.		.6	10	0	1028A 1040A	FC 20
370	8/27	"	17.5	15.68	.81	3.79	13.		.6	10	0	906A 918A	"
371	8/28	"	17.5	17.44	1.07	3.89	19.		.6	10	0	946A 958A	"
372	8/29	"	17.5	16.91	.97	3.86	16.		.6	10	0	1037A 1048A	"
373	8/29	"	18.0	18.92	1.14	3.95	22.		.6	10	0	1108A 1120A	"
374	9/30	Brown-Cooper	17.8	17.94	1.04	3.88	19.		.6	11	0	116P 136P	FC 11
375	9/1	Ash	13.8	11.97	.47	3.82	5.5			10	0	926A 937A	FC 20

F. C. D. FORM 104 1M 8-38

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 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period Eff.	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
376	9/4	"	2.7	1.46	1.21	3.47	1.8		.6	5	0	920A 926A	"
377	9/7	Brown	6.2	1.64	.89	3.45	1.5		.6	11	0	1147A 1200N	FC 11
378	9/8	Ash	2.8	1.35	1.07	3.44	1.4		.6	5	0	950A 1000A	FC 20
379	9/12	"	2.8	1.17	.97	3.43	1.1		.6	5	0	850A 856A	"
380	9/13	Cooper	3.0	1.28	.99	3.41	1.3		.6	6	0	235P 245P	FC 11
381	9/15	Brown	6.1	1.48	.72	3.42	1.1		.6	10	0	716A 730A	FC 20
382	9/20	Moon	6.0	1.34	.85	3.41	1.1		.6	12	0	1030A 1045A	"
383	9/24	"	6.1	1.59	.90	3.44	1.4		.6	11	0	935A 950A	"
384	9/27	"	5.9	1.39	.78	3.43	1.1		.6	11	0	225P 242P	"
385	9/30	Moon	6.1	1.64	.88	3.45	1.4		.6	12	0	325P 342P	FC 20

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 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period Eff.	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
386	10/4	Moon	6.2	1.80	.95	3.48	1.7		.6	12		1110A 1125A	FC 20
387	10/8	"	6.1	1.68	.92	3.46	1.5		.6	12		820A 836A	"
388	10/11	"	6.5	2.23	1.05	3.50	2.3		.6	13	0	1010A 1030A	"
389	10/14	"	6.1	2.05	1.00	3.50	2.0		.6	12		255P 312P	"
390	10/18	"	5.7	1.44	.65	3.40	0.95		.6	11		935A 955A	FC 26
391	10/22	"	5.9	1.84	.99	3.48	1.8		.6	12		910A 930A	"
392	10/25	"	6.0	1.79	.93	3.47	1.7		.6	11		907A 923A	"
393	10/29	"	6.1	1.80	.95	3.47	1.7		.6	11		955A 1010A	"
394	11/1	"	6.0	1.97	1.03	3.50	2.0		.6	12		1110A 1130A	"
395	11/4	Godfrey-Moon	6.2	1.95	1.00	3.50	2.0		.6	12		920A 940A	"
396	11/7	Moon	6.1	2.13	1.12	3.51	2.4		.6	12		1010A 1025A	"
397	11/12	Godfrey	6.1	2.18	1.24	3.53	2.7		.6	12		920A 950A	FC 20
398	11/15	Moon	6.0	2.30	1.31	3.55	3.0		.6	11		925A 945A	FC 26
399	11/18	Turner	6.0	2.37	1.36	3.58	3.2		.6	12	0	1010A 1023A	FC 5
400	11/21	"	6.0	2.30	1.32	3.56	3.0		.6	12	0	220P 235P	"
401	11/23	Godfrey	6.3	2.39	1.32	3.55	3.2		.6	13		950A 955A	"
402	11/29	Turner	6.2	2.26	1.24	3.56	2.8		.6	12	0	1007A 1025A	"
403	12/1	Turner-Moon	6.2	2.28	1.22	3.56	2.8			12			"
404	12/1	Turner	6.2	2.30	1.26	3.56	2.9		.6	12	0	1025A 1040A	"
405	12/3	Godfrey-Turner	6.2	2.37	1.31	3.57	3.1		.6	12	0	1015A 1030A	"
406	12/6	Turner	6.2	2.41	1.28	3.57	3.1		.6	12	0	1033A 1048A	"
407	12/10	Godfrey-Turner	8.8	4.54	1.35	3.68	6.1		.6	10	0	910A 926A	"
408	12/11	Moon-Turner and Godfrey	9.0	4.98	1.33	3.70	6.6		.6	9		940A 955A	"
409	12/11	Turner-Moon	36.5	38.64	.70	4.48	27		.6	13	+.09	430P 445P	"
410	12/12	Godfrey-Turner	37.0	36.93	.94	4.75	34.		.6	19	0	945A 1005A	FC 5
411	12/12	" "	32.0	28.55	.79	4.52	23.		.6	17	-.01	1030A 1050A	"
412	12/12	Turner-Godfrey	32.6	27.93	.83	4.52	23.		.6	17	-.01	1130A 1145A	"
413	12/12	Moon	38.0	41.43	.99	4.87	41.		.6	11		710P 740P	FC 20
414	12/13	"	33.0	31.50	.87	4.62	27.		.6	12	+.01	940A 1004A	"
415	12/13	"	36.6	43.34	1.01	4.95	44.		.6	13		1015A 1040A	"
416	12/14	"	25.3	16.83	.70	4.14	12.		.6	13	-.01	850A 915A	"
417	12/15	Godfrey-Turner	11.0	7.07	1.27	4.34	9.0		.6	12	+.01	945A 1007A	FC 5
418	12/20	Turner	9.8	1.62	2.99	4.80	4.8	Sur	.6	11	0	950A 1000A	"
419	12/29	Moon	8.0	2.44	1.28	4.42	3.1		.6	8		937A 952A	FC 26
420	12/31	"	9.0	2.78	1.31	4.44	3.6		.6	8		930A 942A	"
421	1/3	"	9.2	3.18	1.26	4.50	4.0		.6	7		1020A 1033A	"
422	1/9	"	9.0	4.56	.83	4.52	3.8		.6	8		1015A 1030A	"
423	1/16	Godfrey	8.0	4.95	1.67	4.64	8.3		.6	16		1130A 1205P	"
424	1/17	Moon	10.3	4.50	1.56	4.62	7.0		.6	8		1015A 1026A	"
425	1/21	Godfrey	8.0	4.28	1.53	4.59	6.6		.6	12		1005A 1025A	FC 5
426	1/24	Moon	10.0	4.78	1.23	4.58	5.9		.6	8		1025A 1037A	FC 26
427	1/28	Godfrey	9.8	4.82	1.22	4.58	5.9		.6	8		925A 945A	"
428	1/31	Moon	9.8	4.70	1.25	4.58	5.9		.6	7		945A 1000A	"
429	2/3	Godfrey	10.7	6.55	1.67	4.70	11.		.6	10	4.01	1050A 1115A	FC 5
430	2/5	Moon-Godfrey	22.5	17.84	1.86	5.10	32.		.6	9	0	1150A 1205P	FC 26
431	2/8	Moon	Two Channels			4.99	25.		.6	15	0	1000A 1030A	"
432	2/10	Godfrey	24.0	15.99	1.56	5.00	25.		.6	13		1035A 1115A	FC 5
433	2/11	"	30.5	20.90	1.91	5.28	40.		.6	13	-.04	250P 315P	"
434	2/15	Moon	27.5	22.05	1.68	5.20	36.		.6	11		1045A 1105A	FC 26
435	2/17	"	27.7	19.74	1.66	5.15	33.		.6	12	0	1115A 1135A	"
436	2/19	"	Two Channels			5.09	30.		.6	14		1110A 1140A	"
437	2/21	"	Two Channels			5.01	25.		.6	19	0	1130A 1200N	"
438	3/1	Moon-Harrison	43.0	54.95	5.10	6.87	281.		.6	6	+.35	430P 445P	"
439	3/1	" "	43.0	61.90	5.30	7.03	328.		.6	7	+.25	530P 553P	"
440	3/1	Godfrey-Moon	44.0	62.05	5.78	7.10	358.		.6	9	+.02	855P 920P	FC 20
441	3/6	Moon	59.0	218.5	5.03	9.24	1100.		.6	11	0	415P 445P	FC 5
442	3/7	Moon-Godfrey	58.0	214.2	5.34	9.14	1140.		.6	11		130P 205P	"
443	3/8	Moon-Harrison	69.0	271.6	7.18	10.50	1950.			14	0	522P 605P	"
444	3/11	Moon	14.6	11.42	.81	4.52	9.3		.6	9		200P 215P	"
445	3/12	Moon-Wood	59.0	120.9	4.88	6.72	833.			11		845A 910A	FC 5
446	3/13	" "	49.0	135.1	3.96	7.77	533.			10		910A 1040A	"
447	3/14	Moon	14.2	13.56	.97	4.64	13.		.6	10		130P 145P	"
448	3/16	"	14.4	12.53	1.20	4.68	15.		.6	8		1005A 1020A	FC 20
449	3/18	Moon-Wood	42.0	91.2	2.59	6.72	236.		.6	9		210P 240P	"
450	3/18	Moon	36.0	53.9	2.55	6.14	137.		.6	12	0	405P 430P	"
451	3/19	Moon-Wood	36.0	49.65	2.63	6.12	130.		.6	15	0	1035A 1055A	"
452	3/20	" "	36.0	47.93	2.69	6.11	129.		.6	13	0	930A 1000A	"
453	3/20	" "	41.0	79.45	2.40	6.56	191.		.6	8	0	120P 200P	"
454	3/21	" "	41.0	76.8	2.43	6.55	187.		.6	8		140P 220P	"
455	3/21	" "	43.0	97.75	2.99	7.10	291.		.6	8	+.02	250P 320P	"
456	3/22	Moon	43.0	96.65	2.94	7.05	284.		.6	8		110P 130P	FC 20
457	3/23	Moon-Harrison	43.0	96.75	2.96	7.03	286.		.6	8		920A 940A	"
458	3/24	Moon	43.0	96.75	2.98	7.03	287.		.6	8		845A 905A	"
459	3/25	"	43.0	96.75	2.93	7.01	283.		.6	8		900A 920A	"
460	3/26	"	43.0	92.55	2.83	6.98	267.		.6	8		910A 930A	"
461	3/27	Godfrey	44.5	98.05	2.72	6.94	267.		.6	7	0	940A 1007A	FC 5
462	3/28	"	45.5	97.6	2.78	6.91	272.		.6	7	0	1000A 1025A	"
463	3/29	Moon	35.5	55.35	2.36	6.13	132.		.6	13		930A 950A	FC 20
464	3/30	"	35.3	54.77	2.57	6.13	140.		.6	13		1020A 1040A	"
465	3/31	"	35.3	55.52	2.24	6.11	125.		.6	14		840A 900A	"
466	3/31	"	14.5	10.40	7.93	4.49	8.3		.6	8	-.02	1050A 1105A	"
467	3/31	"	34.8	43.48	2.22	5.88	96.		.6	15		230P 255P	"
468	4/1	"	34.8	44.31	2.20	5.85	97.		.6	15		845A 910A	"
469	4/7	"	34.7	44.74	2.13	5.83	95.		.6	18		950A 1015A	"
470	4/7	"	30.5	33.60	1.81	5.38	61.		.6	15		1140A 1200N	"
471	4/8	Godfrey	32.2	32.94	1.70	5.40	56.		.6	7	0	225P 242P	FC 5
472	4/11	"	13.0	10.96	.69	4.45	7.4		.6	11		1145A 1205P	"
473	4/22	"	13.3	13.22	.59	4.61	7.8		.6	8	0	122P 152P	"
474	4/24	Moon	13.0	12.13	.72	4.52	8.7		.6	7		1050A 1105A	FC 20
475	4/29	Godfrey	13.4	14.42	.66	4.54	9.6		.6	7	0	912A 942A	FC 5
476	5/3	"	13.4	14.67	.65	4.52	9.6		.6	7	0	1027A 1045A	"
477	5/6	"	13.4	14.79	.65	4.53	9.6		.6	7	0	920A 945A	"
478	5/10	Godfrey-Moon	13.4	15.02	.68	4.54	9.6		.6	7	0	940A 955A	"
479	5/13	" "	13.4	15.42	.68	4.56	10.		.6	7	0	847A 910A	"

F. C. D. FORM 104 1M 8-38

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 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	REMARKS (Method Number)	METH OD	MEAS. REGS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
480	5/17	Godfrey-Moon	13.5	15.55	.68	4.58	11.		.6	7	0	1148A 1203P	FC 5
481	5/20	Godfrey	13.4	16.00	.71	4.59	11.		.6	7	0	945A 1015A	"
482	/24	"	13.4	16.01	.72	4.60	11.		.6	7	0	1003A 1027A	"
483	5/27	"	13.4	16.23	.70	4.60	11.		.6	7	0	935A 952A	"
484	6/3	"	13.5	16.19	.71		12.		.6	8		950A 1012A	"
485	6/10	"	13.9	16.55	.94		16.		.6	9		1015A 1045A	"
486	6/17	"	16.0	16.06	.92		17.		.6	8		950A 1010A	"
487	6/17	"	13.9	16.09	1.06		17.		.6	9		1015A 1035A	"
488	6/24	"	14.1	16.57	1.11		18.		.6	9		1040A 1055A	FC 20
489	7/1	"	14.1	16.65	.91		15.		.6	9		925A 940A	"
490	7/5	"	14.1	16.89	1.09		18.		.6	9		955A 1010A	"
491	7/8	Godfrey-Green	34.5	43.16	2.64	5.94	115.		.6	9	0	1050A 1110A	"
492	7/8	" "	34.5	44.54	2.68	5.94	120.		.6	9	0	335P 350P	"
493	7/12	Green-Godfrey	34.2	43.2	2.47	5.91	106.		.6	9	0	735A 855A	"
494	7/12	Godfrey-Green	34.2	46.43	2.82	6.06	131.		.6	10	0	200P 220P	"
495	7/12	" "	38.2	47.7	2.68	6.02	128.		.6	10	0	415P 435P	"
496	7/13	" "	38.0	42.3	2.38	5.94	100.		.6	11	0	715P 735P	"
497	7/13	" "	38.2	46.81	2.47	5.95	116.		.6	11	0	955A 1015A	"
498	7/15	" "	38.3	46.76	2.39	5.93	112.		.6	11	+.01	955A 1020A	"
499	7/18	" "	38.2	44.8	2.36	5.91	106.		.6	11	0	942A 1002A	"
500	7/18	" "	38.2	46.74	2.43	5.96	113.		.6	11	+.01	410P 430P	"
501	7/21	" "	38.2	44.5	2.37	5.92	105.		.6	11	0	1130A 1150A	"
502	7/21	" "	38.2	54.3	2.64	6.26	144.		.6	11	+.01	415P 435P	"
503	7/21	" "	40.0	56.43	2.64	6.34	148.		.6	12	0	550P 605P	"
504	7/21	Godfrey-Green	40.0	58.2	2.64	6.34	153.		.6	11	0	620P 645P	FC 20
505	7/22	" "	40.0	58.45	2.63	6.40	159.		.6	11	0	1000A 1025A	"
506	7/22	" "	40.0	60.26	2.72	6.40	164.		.6	11	0	1035A 1100A	"
507	7/25	Godfrey and Harrison	40.0	55.2	2.64	6.24	145.		.6	11	0	1050A 1117A	"
508	7/29	Godfrey	13.6	14.05	.80	4.68	11.		.6	9	0	1025A 1040A	"
509	7/30	Harrison	40.0	58.58	2.74	6.41	160.		.6	11		610P 630P	"
510	7/31	"	40.0	58.61	2.60	6.37	152.		.6	11		925A 1050A	"
511	8/2	Godfrey	40.0	59.07	2.66	6.34	157.		.6	11	0	635A 705A	"
512	8/3	"	44.0	82.3	3.49	6.98	287.		.6	10	0	905A 925A	"
513	8/3	"	43.7	75.1	3.10	6.80	233.		.6	10	0	1113A 1135A	"
514	8/3	"	43.4	72.1	2.98	6.67	207.		.6	10	0	1245P 105P	"
515	8/4	"	43.3	69.8	2.81	6.64	196.		.6	10	0	1010A 1035A	"
516	8/5	"	43.5	75.2	3.06	6.80	230.		.6	10	0	845A 905A	"
517	8/8	"	43.7	78.4	3.16	6.86	246.		.6	10	0	903A 923A	"
518	8/9	"	43.6	74.6	2.92	6.75	218.		.6	10	-.01	1025A 1118A	"
519	8/11	"	40.3	69.0	2.75	6.52	190.		.6	10		715A 745A	"
520	8/12	"	40.3	80.6	2.55	6.37	154.		.6	10		727A 747A	"
521	8/15	"	43.5	72.4	2.77	6.74	201.		.6	10		840A 900A	"
522	8/15	"	43.8	85.7	3.51	7.06	305.		.6	10	-.02	125P 145P	"
523	8/16	"	43.8	82.5	3.29	6.98	271.		.6	10	-.01	830A 850A	"
524	8/19	"	7.5	6.57	2.62	5.04	17.		.6	7	0	1010A 1050A	"
525	8/23	"	7.5	5.53	1.70	4.24	9.4		.6	7	0	830A 905A	"
526	8/26	"	7.0	3.70	1.95	4.59	7.2		.6	7	0	725A 745A	"
527	8/29	"	8.3	3.32	2.16		7.2		.6	8		1145A 1205P	"
528	9/2	Godfrey	9.5	3.91	1.69		6.6		.6	7		1055A 1115A	FC 26
529	9/6	"	5.1	2.55	2.43		6.2		.6	6		350P 400P	"
530	9/9	"	6.5	2.35	2.37		5.6		.6	9		310P 320P	FC 20
531	9/13	"	6.0	2.55	2.14	6.06	5.5		.6	5	0	1040A 1050A	"
532	9/16	"	6.5	1.95	2.59	6.11	5.0		.6	6	-.02	930A 940A	"
533	9/20	"	9.0	2.19	2.14	6.14	4.7		.6	9	0	1200N 1210P	"
534	9/23	"	8.5	2.19	2.25	6.12	4.9		.6	9	4.02	920A 930A	"
535	9/27	"	6.6	2.12	1.92	5.99	4.1		.6	7		1000A 1010A	"
536	9/30	"	4.0	.67	1.51	5.76	1.0		F1	4		1000A 1010A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F209R for the year ending September 30, 19 35

Daily discharge, in second-feet of SAN GABRIEL RIVER - W. FORK ½ mile below S. G. Dam #2

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	1.9	2.8	4.2	8.8	150	97	97	116	154	157	6.7
2	1.4	1.9	3.0	3.9	10.1	5620	96	95	116	151	157	6.5
3	1.4	2.0	3.0	3.9	11.5	2780	95	95	116	151	200	6.5
4	1.6	1.8	3.0	3.9	26	1640	95	95	119	151	197	6.3
5	1.6	1.8	3.0	3.9	30	806	95	95	122	152	217	6.2
6	1.6	1.9	3.1	3.7	30	742	94	95	124	152	234	6.2
7	1.5	2.4	3.1	3.9	27	869	74	95	124	152	222	6.0
8	1.5	2.6	3.1	3.7	24	869	56	95	124	154	231	5.6
9	1.5	2.5	3.1	3.7	24	1300	24	94	124	176	220	5.5
10	2.1	2.8	6.0	3.7	25	598	7.0	95	130	111	130	5.5
11	2.3	2.8	13.6	3.7	30	512	7.0	95	130	111	145	5.5
12	1.9	2.7	20	3.4	40	332	7.0	100	130	111	115	5.5
13	1.9	2.7	22	3.8	36	283	7.0	100	130	111	85	5.5
14	2.0	3.0	21	3.6	36	192	7.0	100	130	111	191	5.5
15	2.0	3.0	21	3.5	35	138	7.0	100	130	110	229	5.5
16	1.6	2.8	18	3.5	30	146	7.0	100	145	104	261	4.9
17	1.3	2.7	7.3	7.0	28	84	7.3	100	145	106	270	4.8
18	1.0	3.0	5.6	6.7	26	129	7.3	111	145	106	140	4.8
19	1.0	3.0	4.7	6.7	24	154	7.5	111	145	106	120	4.8
20	1.0	3.0	3.8	6.7	23	225	7.5	111	145	105	102	4.8
21	1.4	3.0	3.6	6.7	22	286	8.2	111	145	157	100	4.8
22	1.8	3.0	3.1	6.7	22	288	8.5	111	145	154	94	4.7
23	1.8	3.0	2.6	6.7	22	286	8.5	111	145	154	77	4.7
24	1.8	3.0	2.6	6.7	21	286	8.5	111	145	154	74	4.7
25	1.5	3.1	0.7	6.0	20	282	9.3	111	145	154	77	4.7
26	1.5	3.1	0.9	6.3	20	268	9.9	111	145	154	77	4.7
27	1.8	3.1	3.2	6.0	23	272	9.9	111	145	154	77	2.7
28	1.8	3.0	3.4	6.0		177	9.9	111	145	154	74	0.7
29	1.4	2.7	3.6	6.0		135	9.5	111	145	151	74	
30	1.5	2.7	3.6	6.0		93	11	106	151	130	70	
31	1.5		3.6	6.0						106	68	
Total	50.0	79.9	179.4	158.3	708.4	21205.4	894.0	3268	4102	3521	3190	149.3
Mean	1.61	2.66	5.79	5.11	25.3	684	29.8	10.5	13.7	75.9	103	4.98
Acre-Feet	99	158	356	314	1410	42060	1770	648	814	4670	6130	296

Year Mean 81.4
Year Acre-Feet 59820

Remarks:

F. C. Dec. Form 52 1M 8-35

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F209R for the year ending September 30, 19 37

Daily discharge, in second-feet of SAN GABRIEL RIVER - W. FORK ½ mile below S. G. Dam #2

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.3	41	19	97	125	98	68	21	24	5
2	0.2	0.2	0.3	38	20	100	129	97	66	20	27	2.1
3	0.2	0.2	0.1	35	22	103	129	94	63	21	27	1.6
4	0.2	0.2	0.1	31	20	103	130	90	148	20	19	1.5
5	0.2	0.2	1.4	28	20	103	130	90	305	20	19	1.5
6	0.2	0.2	2.0	28	34	97	130	93	290	20	26	1.5
7	0.1	0.1	2.0	28	70	95	127	93	244	20	28	1.5
8	0.1	0.1	2.2	27	67	96	125	93	240	19	30	1.5
9	0.1	0.1	2.2	25	66	97	118	88	191	19	29	1.4
10	0.1	0.1	1.9	25	63	95	105	90	25	19	28	1.2
11	0.1	0.1	2.8	24	63	97	105	90	24	21	26	1.2
12	0.1	0.1	2.3	24	66	100	99	93	24	20	26	1.2
13	0.1	0.1	2.4	22	100	112	97	91	28	19	24	1.2
14	0.1	0.1	1.4	21	577	106	97	90	27	18	26	1.2
15	0.1	0.1	3.6	21	421	104	105	90	24	18	28	1.2
16	0.1	+	6.9	20	213	97	100	86	22	18	27	1.0
17	1.0	+	8.8	20	170	106	96	87	22	18	28	1.0
18	1.2	+	2.4	20	133	104	100	86	22	17	31	1.1
19	2.5	+	1.1	17	130	103	104	80	21	17	24	1.1
20	2.1	0.1	1.6	17	125	100	97	84	21	16	19	1.1
21	2.0	0.1	6.5	17	114	105	101	82	22	16	19	1.1
22	2.0	0.1	5.5	17	113	108	99	78	23	13	18	1.2
23	2.0	+	4.2	17	104	118	95	76	23	13	18	1.2
24	1.6	+	0.4	17	100	125	92	76	23	13	16	1.2
25	0.1	+	0.7	17	100	117	92	76	23	12	14	1.2
26	0.1	0.1	0.5	18	99	117	92	74	21	11	14	1.2
27	0.1	0.2	2.1	17	100	117	90	74	21	11	18	1.2
28	0.1	0.3	2.7	17	97	120	92	74	21	11	18	1.2
29	0.1	0.3	2.3	17		113	95	74	21	18	19	1.2
30	0.1	0.3	2.4	17		121	97	72	21	22	19	1.5
31	0.3		3.7	18		123		68		22	17	
Total	32.7	36.1	464.3	700	3187	3285	3202	2635	2084	551	715	42.4
Mean	1.05	1.21	15.0	22.6	114	106	107	85.0	69.5	17.8	23.0	1.4
Acre-Feet	65	72	921	1390	6320	6520	6350	5230	4130	1090	1410	84.1

Year Mean 164
Year Acre-Feet 32560

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

STATION F99B-R

SAN GABRIEL RIVER - BEAR CREEK 500 ft. above West Fork

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 upstream from 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, in service October 1, 1936.
Recorder lost in storm of March 2, 1938.
Station abandoned.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 20, 1935 to February 6, 1938.
For records prior to December 20, 1935 see record for station F99R about 1½ miles upstream.
Some discharge measurements subsequent to February 6, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 736 second-feet February 14.
Minimum 0.2 second-foot several times in October.
1937-1938
Maximum 12500 second-feet, estimated, March 2.
Minimum not determined.
1935-1938
Maximum 12500 second-feet, estimated, March 2, 1938.
Minimum not determined.

ACCURACY:

Good except during storms when fair.

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 504 (12-37)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 99 B-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - BEAR CR.

~~XXXX~~ 500 ft. above West Fork DURING THE YEAR ENDING SEPTEMBER 30, 19 37

MEAS. 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.	HTR. 99	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Reber-DeVore	2.0	0.42	0.47	1.64	0.20		.6	4	0	901A 905A	FC 32
2	10/8	Reber	2.0	0.43	0.49	1.64	0.21		.6	4	0	645A 657A	FC 33
3	10/14	Cooper-DeVore	2.0	0.43	0.51	1.61	0.22		.6	4	0	308P 314P	FC 11
4	10/15	Reber	2.0	0.43	0.46	1.64	0.20		.6	4	0	702A 706A	FC 33
5	10/17	DeVore-Reber	3.8	0.82	0.70	1.76	0.57		.6	7	0	413P 421P	"
6	10/19	Reber	7.6	5.54	1.64	2.25	9.0		.6	9	0	315P 330P	"
7	10/22	"	6.5	2.93	0.80	2.00	2.34		.6	8	0	924A 935A	"
8	10/29	"	5.8	1.97	0.67	1.90	1.32		.6	6	0	915A 924A	"
9	11/5	"	6.5	2.86	1.02	2.02	2.91		.6	7	0	913A 922A	"
10	11/11	"	6.3	2.89	0.90	2.01	2.59		.6	7	0	205P 212P	FC 11
11	11/19	"	6.5	2.92	0.66	2.02	1.94		.6	7	0	915A 923A	FC 33
12	11/25	"	6.6	3.38	0.84	2.09	2.83		.6	7	0	920A 931A	"
13	12/3	"	6.4	3.30	0.85	2.08	2.79		.6	7	0	948A 957A	"
14	12/10	"	6.5	3.28	0.76	2.10	2.50		.6	7	0	938A 948A	"
15	12/15	"	26.0	28.08	1.48	2.77	41.		.6	12	+.01	150P 210P	"
16	12/15	Reber-Abrams	27.3	52.81	2.63	3.58	139.		.6	15	+.02	820P 845P	"
17	12/16	Reber-Naugle	26.8	39.60	2.49	3.22	99.		.6	14	-.03	904A 934A	"
18	12/16	" "	26.8	38.27	2.33	3.16	89.		.6	14	-.02	958A 1020A	"
19	12/16	" "	26.7	37.08	2.32	3.12	86.		.6	14	-.02	1045A 1105A	"
20	12/17	Reber	23.0	22.70	1.30	2.59	29.		.6	14	-.01	945A 1008A	"
21	12/23	"	13.2	12.77	0.70	2.27	8.9		.6	13	0	1022A 1040A	"
22	12/27	Reber-Brown	32.0	54.95	2.73	3.53	150.		.6	12	-.04	1149A 1222P	"
23	12/27	" "	31.5	46.35	2.42	3.34	112.		.6	11	-.05	200P 225P	"
24	12/27	Brown-Reber	26.7	41.73	2.57	3.25	107.		.6	14	-.01	320P 350P	"
25	12/27	Brown-Reber	26.5	37.72	2.12	3.08	80.		.6	14	0	800P 820P	FC 33
26	12/27	Reber-Brown	26.8	42.96	2.56	3.28	110.		.6	14	+.07	1020P 1048P	"
27	12/28	" "	28.0	46.48	2.75	3.39	128.		.6	14	0	1240A 102A	"
28	12/28	" "	27.3	45.41	2.72	3.36	124.		.6	14	-.02	243A 308A	"
29	12/28	Reber	26.5	33.65	1.97	2.97	66.		.6	15	-.02	1024A 1054A	"
30	12/30	"	23.0	22.08	1.10	2.53	24.		.6	11	0	1100A 1117A	"
31	12/30	Reber-Brown	27.5	45.05	2.72	3.34	123.		.6	14	+.03	1024P 1048P	"
32	12/30 12/31	" "	27.5	49.23	3.00	3.48	148		.6	14	0	1154P 1219A	"
33	12/31	" "	27.5	49.37	3.07	3.48	152.		.6	14	-.01	125A 150A	"
34	12/31	" "	27.5	47.01	2.92	3.40	137.		.6	14	-.03	230A 250A	"
35	12/31	" "	27.5	43.78	2.68	3.30	118.		.6	14	-.03	345A 408A	"
36	1/7	Reber	23.0	21.88	1.06	2.50	23.		.6	11	0	1010A 1025A	"
37	1/14	"	21.5	20.27	0.97	2.44	20.		.6	11	0	1010A 1028A	"
38	1/20	DeVore-Bartlett	21.8	20.29	0.88	2.44	18.		.6	12	0	240P 258P	FC 11
39	1/27	Brown-Bartlett	21.0	18.72	0.80	2.38	15.		.6	18	0	211P 237P	"
40	1/28	Brown-DeVore	16.3	17.82	0.80	2.37	14.		.6	17	0	259P 326P	FC 32
41	1/31	Brown	23.3	24.00	1.07	2.56	26.		.6	9	0	517P 532P	FC 11
42	2/2	"	19.90	22.07	1.02	2.50	22.		.6	11	0	342P 402P	"
43	2/4	Cooper-Brown	27.5	20.27	1.18	2.52	24.		.6	11	0	1130A 1145A	"
44	2/7	" "	37.0	83.05	5.03	4.20	416.		.6	8	-.04	940A 1003A	FC 29
45	2/7	" "	36.0	80.25	4.38	4.12	352.		.6	8	-.01	1058A 1109A	"
46	2/7	" "	36.0	77.95	4.66	4.11	363.		.6	8	-.02	1114A 1126A	"
47	2/7	Brown	36.0	73.95	3.98	3.96	294.		.6	8	-.01	240P 305P	"
48	2/7	"	36.0	75.30	3.84	3.94	290.		.6	8	-.01	330P 348P	"
49	2/7	Brown	36.0	74.15	3.75	3.91	278.		.6	8	-.01	420P 440P	FC 29
50	2/8	"	27.5	51.52	2.73	3.46	141.		.6	11	-.02	226P 250P	"
51	2/8	"	27.5	51.53	2.71	3.44	140.		.6	11	-.01	315P 335P	"

F.C.D. FORM 104 (8-57)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 99 B-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - BEAR CR.

AT/NEAR 500 ft. above West Fork DURING THE YEAR ENDING SEPTEMBER 30, 19 37.

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.	STG.	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
52	2/8	"	27.5	51.50	2.68	3.44	137.		.6	11	0	356P 418P	"
53	2/9	"	27.2	44.40	2.32	3.21	103.		.6	11	0	244P 306P	"
54	2/11	"	26.4	36.32	1.85	2.98	67.		.6	15	0	205P 230P	"
55	2/14	Cooper	40.0	98.70	5.72	4.72	564.		.6	9	-.04	1215P 1245P	FC 10
56	2/14	"	40.0	100.4	5.48	4.68	551.		.6	9	-.02	1254P 118P	"
57	2/14	"	40.0	101.7	5.43	4.67	552.		.6	9	-.01	134P 158P	"
58	2/15	Brown	35.0	76.15	4.60	4.11	350.		.6	8	0	353P 412P	FC 29
59	2/16	"	28.5	61.71	3.04	3.77	188.		.6	11	0	358P 420P	"
60	2/17	"	27.5	55.33	3.12	3.55	172.		.6	11	0	206P 228P	"
61	2/21	"	27.1	40.53	2.29	3.11	93.		.6	14	0	228P 253P	FC 10
62	2/23	"	29.6	38.51	2.15	3.04	83.		.6	15	0	211P 235P	FC 29
63	2/25	"	30.1	40.41	2.24	3.09	91.		.6	11	0	1255P 118P	FC 10
64	3/2	"	29.1	34.08	1.94	2.89	66.		.6	11	0	128P 145P	"
65	3/3	Brown-DeVore	29.0	33.38	1.88	2.86	63.		.6	11	0	406P 415P	FC 11
66	3/7	Brown	29.0	32.95	1.80	2.81	59.		.6	11	0	317P 335P	FC 10
67	3/10	"	28.9	32.34	1.77	2.80	57.		.6	11	0	148P 206P	"
68	3/13	"	35.0	78.40	6.11	4.27	485.		.6	7	-.02	1015A 1031A	FC 11
69	3/13	"	35.0	75.35	4.84	4.25	365.		.6	7	0	1040A 1055A	FC 10
70	3/14	"	28.0	59.60	3.18	3.64	189.		.6	10	-.01	354P 410P	"
71	3/15	"	28.3	53.59	2.96	3.49	159.		.6	11	0	239P 257P	"
72	3/16	"	35.0	71.60	4.10	4.09	293.		.6	7	-.01	1148A 1207P	"
73	3/18	Brown	28.5	61.72	3.12	3.68	205.		.6	11	-.01	1140A 1202P	FC 10
74	3/22	Brown-Hall	28.0	51.58	3.06	3.48	158.		.6	10	0	113P 130P	"
75	3/23	" "	27.5	48.77	2.74	3.36	134.		.6	10	-.01	356P 410P	"
76	3/25	" "	27.5	48.45	2.53	3.28	121.		.6	10	0	123P 137P	"
77	3/28	Brown	27.4	39.67	2.61	3.18	108.		.6	10	0	214P 233P	"
78	3/31	Brown-Hall	30.5	42.54	2.40	3.15	102.		.6	11	0	151P 207P	"
79	4/4	Brown	30.7	42.11	2.28	3.08	96.		.6	11	0	226P 243P	"
80	4/7	Brown-Hall	30.5	39.97	2.17	3.03	87.		.6	11	0	125P 141P	"
81	4/11	Brown	30.0	37.77	2.07	2.96	78.		.6	11	0	138P 156P	"
82	4/14	"	29.9	36.77	2.03	2.93	75.		.6	11	0	213P 233P	"
83	4/15	Brown-Green	29.9	37.70	2.01	2.94	76.		.6	11	0	310P 325P	"
84	4/18	Brown	29.7	34.71	1.84	2.84	64.		.6	11	0	415P 432P	"
85	4/20	Brown-Green	29.6	33.41	1.83	2.80	61.		.6	11	0	300P 316P	FC 11
86	4/21	" "	29.5	33.95	1.83	2.80	62.		.6	12	0	214P 233P	FC 10
87	4/25	Brown	28.9	31.17	1.76	2.74	55.		.6	12	0	130P 147P	"
88	4/29	Brown-Green	28.4	30.10	1.63	2.70	49.		.6	12	0	226P 243P	"
89	5/2	Brown	28.5	29.27	1.53	2.65	45.		.6	13	0	142P 202P	"
90	5/4	Brown-Green	28.5	28.34	1.47	2.64	42.		.6	13	0	232P 253P	"
91	5/6	" "	28.5	28.09	1.49	2.64	42.		.6	16	0	132P 158P	"
92	5/9	Brown	28.5	27.87	1.46	2.61	40.		.6	12	0	125P 143P	"
93	5/13	Brown-Green	28.4	25.90	1.34	2.55	35.		.6	13	0	146P 203P	"
94	5/16	Brown	28.2	25.27	1.33	2.52	34.		.6	12	0	104P 120P	"
95	5/20	Brown-Green	25.5	23.13	1.15	2.46	27.		.6	13	0	149P 205P	"
96	5/23	Brown	25.5	23.80	1.13	2.48	27.		.6	12	0	213P 232P	"
97	5/27	Brown-Green	25.0	22.90	1.21	2.45	28.		.6	12	0	1215P 1228P	FC 10
98	6/1	" "	25.0	20.56	1.11	2.36	23.		.6	14	0	255P 311P	"
99	6/3	" "	20.5	19.23	1.16	2.35	22.		.6	12	0	1250P 103P	"
100	6/6	Brown	18.5	21.75	.94	2.35	21.		.6	10	0	139P 156P	"
101	6/8	Brown-Green	18.3	20.58	.90	2.32	18.		.6	11	0	236P 250P	"
102	6/10	" "	20.5	18.80	1.03	2.31	19.		.6	11	0	219P 231P	"
103	6/13	Brown	20.4	18.10	1.05	2.29	19.		.6	12	0	1205P 1223P	"
104	6/17	"	20.4	17.54	.94	2.27	17.		.6	11	0	1216P 1231P	"
105	6/20	"	20.3	16.76	.92	2.23	15.		.6	9	0	1220P 1234P	"
106	6/24	"	20.2	15.86	.80	2.18	13.		.6	11	0	106P 121P	"
107	6/27	"	20.1	14.91	.79	2.14	12.		.6	11	0	206P 222P	"
108	6/30	"	20.0	14.47	.75	2.12	11.		.6	11	0	209P 224P	"
109	7/6	Brown	20.0	13.59	.66	2.06	9.0		.6	12	0	205P 222P	"
110	7/8	"	20.0	13.79	.65	2.07	9.0		.6	11	0	1150A 1208P	"
111	7/11	"	20.0	13.66	.61	2.06	8.5		.6	11	0	1129A 1145A	"
112	7/14	"	19.8	13.18	.59	2.04	8.0		.6	11	0	104P 120P	"
113	7/18	"	19.8	12.73	.52	2.03	6.5		.6	11	0	1213P 1231P	"
114	7/22	Brown-DeVore	19.9	12.47	.51	1.99	6.5		.6	11	0	1249P 105P	"
115	7/25	Brown	19.5	12.01	.48	1.99	6.0		.6	11	0	1137A 1153A	"
116	7/29	Brown-DeVore	9.7	7.40	.70	1.95	5.0		.6	10	0	1240P 1254P	"
117	8/1	Brown	9.5	7.15	.80	1.96	5.5		.6	10	0	1239P 1253P	"
118	8/5	"	9.5	7.01	.68	1.92	4.8		.6	10	0	1212P 1228P	"
119	8/8	"	9.5	6.75	.64	1.90	4.3		.6	10	0	1232P 1246P	"
120	8/12	"	9.4	6.78	.58	1.88	3.9		.6	10	0	108P 121P	"
121	8/15	Brown	9.4	6.66	.57	1.86	3.8		.6	10	0	119P 132P	FC 10
122	8/19	"	9.4	6.80	.55	1.86	3.8		.6	10	0	1120A 1136A	"
123	8/23	"	9.4	6.67	.53	1.85	3.5		.6	10	0	221P 236P	"
124	8/26	"	9.4	6.68	.49	1.84	3.3		.6	10	0	1200N 1216P	"
125	8/29	"	9.3	6.59	.47	1.84	3.1		.6	10	0	1114A 1128A	"
126	9/2	"	9.3	6.44	.47	1.82	3.0		.6	10	0	243P 256P	"
127	9/6	"	9.4	6.42	.43	1.81	2.7		.6	10	0	150P 206P	"
128	9/8	"	9.3	6.34	.43	1.80	2.7		.6	10	0	1210P 1225P	"
128A	9/12	Brown-Penrod	9.3	6.34	.38	1.78	2.4		.6	10	0	1148A 1200N	"
129	9/16	Brown	9.5	6.77	.55	1.85	3.7		.6	10	0	1252P 107P	"
130	9/23	"	9.6	6.67	.56	1.86	3.7		.6	10	0	1121A 1134A	"
131	9/30	"	9.5	6.71	.49	1.84	3.3		.6	9	0	1200N 1212P	"

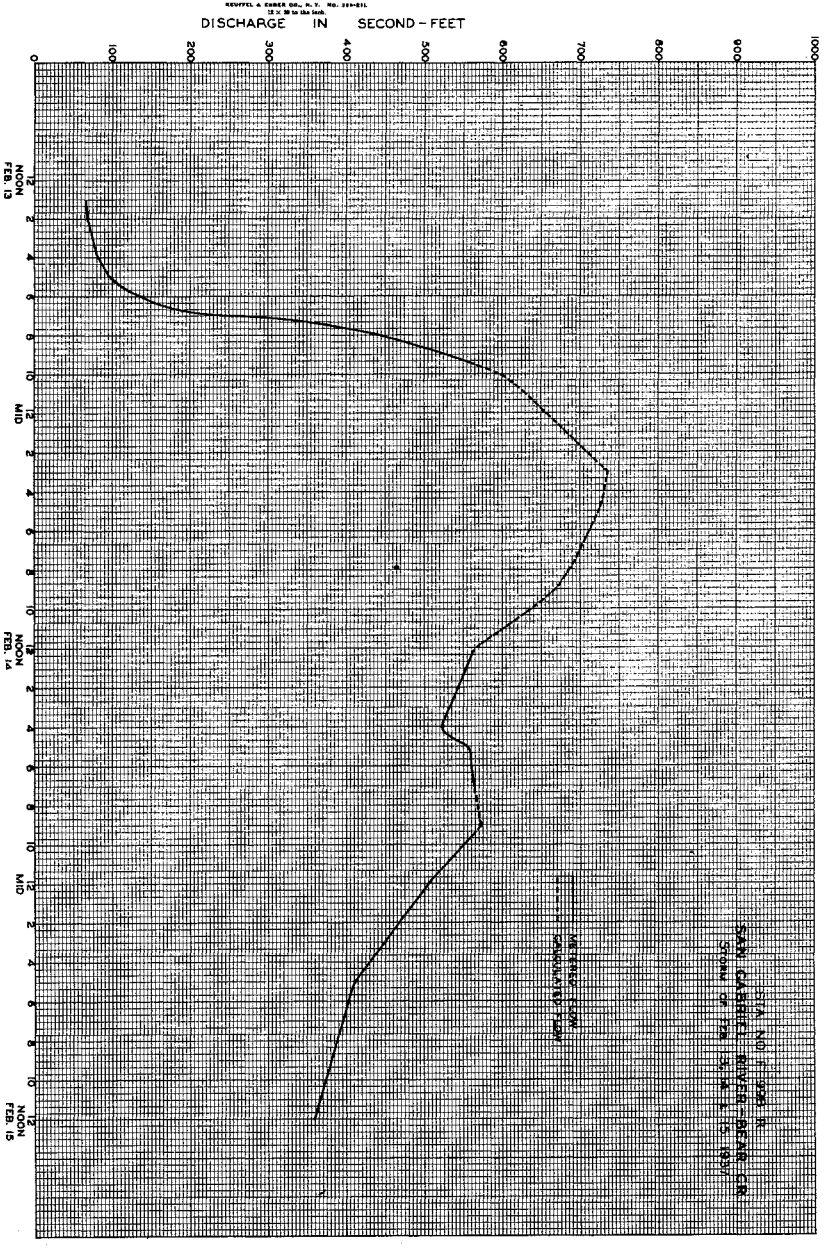
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 99 B-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - BEAR CR.

AT/NEAR 500 ft. above West Fork DURING THE YEAR ENDING SEPTEMBER 30, 19 38.

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.	STG.	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
132	10/3	Brown	9.6	6.8	.49	1.85	3.3		.6	9	0	1206P 1218P	FC 10
133	10/7	"	9.5	6.7	.50	1.84	3.3		.6	9	0	1133A 1145A	"
134	10/10	"	9.4	6.57	.43	1.81	2.8		.6	9	0	1125A 1138A	"
135	10/14	"	9.4	6.67	.44	1.82	2.9		.6	9	0	1207P 1219P	"
136	10/17	"	9.4	6.83	.48	1.84	3.3		.6	9	0	1140A 1154A	"
137	10/21	"	9.4	6.57	.41	1.81	2.7		.6	9	0	1148A 1200N	"
138	10/28	"	9.5	6.62	.39	1.80	2.6		.6	9	0	1246P 1258P	"
139	11/4	"	9.6	6.99	.40	1.84	2.8		.6	9	0	1159A 1210P	"
140	11/10	"	9.6	7.18	.51	1.87	3.6		.6	9	0	1150A 1202P	"
141	11/18	"	9.6	7.28	.54	1.90	3.9		.6	9	0	1020A 1034A	"
142	11/24	"	9.4	7.25	.50	1.88	3.6		.6	9	0	1042A 1054A	"
143	12/2	"	9.3	7.39	.53	1.89	3.9		.6	10	0	1112A 1126A	"
144	12/9	"	9.3	7.62	.48	1.90	3.7		.6	10	0	1116A 1130A	"
145	12/12	"	18.4	21.52	.91	2.35	20		.6	10	0	1104A 1122A	"
146	12/15	"	19.9	12.49	.58	2.03	7.2		.6	12	0	1146A 1202P	"
147	12/23	"	21.1	17.93	.92	2.25	17		.6	12	-.01	1205P 1220P	"
148	12/28	"	21.2	18.51	.93	2.27	17		.6	12	0	140P 158P	"
149	12/30	"	20.6	15.76	.71	2.16	11		.6	13	0	1004A 1023A	"
150	1/6	"	19.7	13.59	.65	2.06	8.8		.6	12	0	1047A 1104A	"
151	1/13	"	19.5	12.75	.57	2.01	7.2		.6	13	0	1024A 1044A	"
152	1/16	"	27.0	25.15	1.35	2.55	34		.6	14	0	1235P 1255P	FC 11
153	1/20	"	21.7	17.69	.92	2.25	16		.6	12	0	105P 119P	FC 18
154	1/27	"	21.0	14.79	.71	2.11	10		.6	12	0	1138A 1152A	"
155	2/1	"	28.0	27.36	1.38	2.62	37		.6	15	-.02	343P 405P	"
156	2/3	Brown	28.8	54.43	2.67	3.41	144		.6	12	+.06	349P 408P	FC 18
157	2/4	Brown-Ash	27.8	55.42	3.01	3.50	165		.6	14	-.03	337P 355P	"
158	2/6	Brown	28.5	32.07	1.55	2.76	52		.6	16	0	1151A 1213P	"
159	2/10	"	29.7	38.34	1.95	2.97	74		.6	16	0	1201P 1222P	"
160	2/12	Brown-Penrod	27.7	56.99	3.41	3.58	192		.6	14	0	138P 157P	"
161	2/17	Brown	28.5	32.28	1.73	2.75	55		.6	15	0	1246P 108P	"
162	2/20	"	28.1	30.95	1.62	2.71	49		.6	15	0	1119A 1139A	"
163	2/24	"	28.0	29.32	1.56	2.65	45		.6	15	0	253P 314P	"
164	3/1	Brown-Middleton	38.0	124.4	7.80	4.61	971		.6	8	-.10	937A 957A	FC 29
165	3/1	" "	37.5	119.3	7.37	4.54	880		.6	8	-.01	1006A 1027A	"



F. C. Dist. Form 53 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F99B-R

Daily discharge, in second-feet of SAN GABRIEL RIVER-BEAR CR. 500 ft. above West Fork, for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	5	2.6	4.5	24	69	108	46	26	11	5.5	2.9
2	0.4	4.3	2.7	3.3	23	68	112	46	25	10	5	2.9
3	0.5	3.3	2.9	2.7	24	67	107	45	23	10	4.9	2.9
4	0.5	2.9	3.5	2.3	24	63	102	44	23	10	4.5	2.9
5	0.4	2.9	3.3	2.4	30	63	94	44	23	9.5	4.5	2.6
6	0.3	2.9	3.1	2.7	319	63	91	43	21	8.5	4.3	2.6
7	0.2	2.9	2.9	2.4	373	62	89	41	20	8.5	4.1	2.6
8	0.2	2.6	2.9	2.1	156	61	85	41	19	8.5	3.9	2.6
9	0.3	2.6	2.7	2.1	106	60	84	41	20	8.5	3.9	2.6
10	0.2	2.6	2.4	2.1	82	58	84	41	20	8	3.9	2.4
11	0.3	2.6	2.2	1.9	68	58	81	38	20	8	3.7	2.4
12	0.2	2.6	2.2	2.1	63	193	78	36	20	8	3.7	2.2
13	0.2	2.6	2.2	2.2	172	395	77	36	19	8	3.5	5.5
14	0.2	2.4	3.5	2.0	614	203	78	36	18	7.5	3.7	4.9
15	0.2	2.2	6.0	1.9	370	241	81	34	17	7	3.7	4.1
16	0.2	2.1	9.3	1.8	217	333	77	33	16	7	3.7	3.5
17	0.5	2.1	3.0	1.8	173	235	72	32	16	7	3.7	3.3
18	1.9	1.8	2.0	1.8	148	208	68	31	16	6.5	3.7	3.1
19	1.4	1.9	1.6	1.7	125	179	66	30	16	6	3.5	2.7
20	5	2.2	1.3	1.7	107	156	66	28	15	6	3.5	2.6
21	3.5	2.4	1.1	1.6	96	138	66	28	15	6	3.3	2.7
22	2.4	2.7	1.0	1.6	89	155	64	27	14	6	3.3	3.1
23	1.6	3.5	.9	1.6	85	136	60	27	13	6	3.5	3.5
24	1.2	2.9	8.5	1.6	87	135	58	27	13	6	3.5	3.1
25	1.2	2.7	1.1	1.6	94	125	57	28	13	5.5	3.3	2.7
26	1.4	2.4	9.5	1.5	78	118	57	30	13	5	3.3	2.4
27	1.2	2.4	.97	1.5	73	116	56	28	12	4.7	3.1	2.4
28	1.4	2.4	.74	1.5	69	113	54	27	12	4.7	2.9	2.6
29	1.5	2.6	.36	1.8		108	52	29	11	4.7	2.9	2.7
30	2.4	2.7	.42	2.9		107	50	29	11	5.5	2.9	3.3
31	5.5		.90	.28		107		27		5.5	2.9	
	49.2	81.2	68.9	65.5	3889	4193	2274	1073	520	223.1	115.8	89.8

Mean	1.58	2.71	2.16	2.11	139	135	75.8	34.6	17.3	7.20	3.74	2.99
Acre-Feet	98	161	1330	1300	7710	8320	4510	2130	1030	443	230	178

Remarks:

Year or Period Mean 37.9 Acre-Feet 27440

F. C. Dist. Form 53 150 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F99B-R

Daily discharge, in second-feet of SAN GABRIEL RIVER - BEAR CR. 500 ft. above West Fork, for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	3.1	3.9	9.5	40							
2	2.9	2.9	3.9	9	24							
3	3.1	2.9	3.9	9.5	110							
4	3.3	2.9	3.5	9	172							
5	3.5	2.9	3.5	9	84							
6	3.3	3.1	3.7	8.5								
7	3.1	3.3	3.7	8.5								
8	2.7	3.5	3.7	8.5								
9	2.7	3.7	3.7	8								
10	2.7	3.7	4.7	7.5								
11	2.7	3.5	1.9	7.5								
12	2.7	3.5	2.5	7.5								
13	2.6	3.7	1.0	7.5								
14	2.9	3.7	8	7								
15	3.5	3.5	7.5	8.8			NO RECORD - SEE STATION DESCRIPTION					
16	3.7	3.7	7	3.6								
17	3.3	3.9	7	2.3								
18	3.1	3.7	6.5	1.9								
19	2.9	3.7	6	1.8								
20	2.7	3.5	5	1.6								
21	2.7	3.7	5.5	1.5								
22	2.6	3.7	6	1.4								
23	2.4	3.7	1.4	1.3								
24	2.4	3.7	1.0	1.2								
25	2.4	3.7	.9	1.1								
26	2.4	3.7	1.8	1.1								
27	2.6	3.9	2.7	1.0								
28	2.6	3.9	1.7	1.0								
29	2.6	3.9	1.3	1.1								
30	2.4	3.9	1.1	1.0								
31	2.7		1.0	1.0								
	88.3	106.2	279.7	443.5 (Feb. 1-5)	430							

Mean	2.85	3.54	9.02	14.3								
Acre-Feet	175	211	555	880	853							

Remarks:

Year or Period Mean (Oct. 1-Feb. 5) Acre-Feet 2670

STATION F98R

SAN GABRIEL RIVER - NORTH FORK 1 mile above mouth

LOCATION:

On east bank of North Fork of the San Gabriel River, 1 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 an F. C. standard type house over a 36 inch diameter, corrugated iron pipe stilling well.
No recorder record of value subsequent to noon of March 2, 1938.
During the storm of March 2, 1938 the channel shifted away from the recorder station.
Station abandoned.
An Au continuous recorder.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

September 30, 1929 to March 2, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 198 second-feet March 13.
Minimum 1.7 second-feet October 7.
1937-1938
Maximum not determined.
Minimum not determined.
1929-1937
Maximum 276 second-feet January 1, 1934.
Minimum + August 28, 1934.

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.

F.C.D. FORM 104 12 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 98 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - NORTH FORK

AT: 1 mile above mouth DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	RTG. NO.	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Reber	9.0	3.30	.78	4.16	2.6		.6	9	0	700A 713A	FC 33
2	10/8	"	9.0	3.34	.77	4.16	2.6		.6	9	0	628A 639A	"
3	10/15	Reber-DeVore	9.0	3.50	.74	4.15	2.6		.6	9	0	920A 930A	FC 32
4	10/17	DeVore-Reber	10.7	4.62	.83	4.22	3.8		.6	10	0	241P 253P	"
5	10/19	Reber	10.8	4.39	.81	4.20	3.6		.6	10	0	205P 216P	FC 33
6	10.22	"	10.5	4.21	.79	4.18	3.3		.6	11	0	820A 840A	"
7	10/29	"	9.5	3.61	.68	4.16	2.4		.6	9	0	815A 827A	"
8	11/5	"	9.8	4.27	.65	4.17	2.8		.6	9	0	829A 841A	"
9	11/12	"	9.4	3.61	.76	4.18	2.8		.6	9	0	824A 836A	"
10	11/19	"	9.4	3.94	.63	4.14	2.5		.6	9	0	828A 839A	"
11	11/25	"	9.6	4.15	.68	4.15	2.8		.6	9	0	827A 839A	"
12	12/3	"	9.7	4.30	.70	4.15	3.0		.6	10	0	830A 848A	"
13	12/10	"	9.0	3.58	.78	4.14	2.8		.6	9	0	831A 843A	"
14	12/17	"	10.7	5.60	1.16	4.24	6.5		.6	11	0	880A 831A	"
15	12/23	"	10.8	4.62	.94	4.19	4.4		.6	10	0	815A 831A	"
16	12/30	"	10.5	6.82	1.31	4.32	12		.6	12	0	854A 912A	"
17	12/31	Brown-Reber	15.5	16.11	2.06	4.57	33		.6	16	-.02	220P 254P	"
18	1/17	Reber	11.5	7.24	1.69	4.34	12		.6	11	0	315A 332A	"
19	1/14	"	10.0	6.52	1.39	4.29	9.1		.6	10	0	826A 839A	"
20	1/20	DeVore-Bartlett	10.5	6.23	1.21	4.26	7.5		.6	10	0	1238P 1251P	FC 11
21	1/25	Brown-Bartlett	10.6	5.88	1.19	4.25	7.0		.6	10	0	247P 302P	"
22	1/27	" "	10.6	5.66	1.25	4.26	7.0		.6	11	0	1254P 108P	"
23	1/29	" "	9.2	5.72	1.49	4.28	8.5		.6	10	0	215P 231P	"
24	1/31	Brown-Cooper	13.7	10.13	1.74	4.39	18		.6	11	0	345P 403P	"
25	2/2	Brown	9.3	6.79	1.82	4.34	12		.6	10	0	126P 146P	FC 11
26	2/3	DeVore-Brown	10.3	6.92	1.94	4.32	13		.6	12	0	306P 324P	"
27	2/9	Brown	16.9	13.15	2.72	4.55	36		.6	11	0	1247P 107P	FC 29
28	2/11	"	16.5	11.30	2.35	4.48	27		.6	11	0	1216P 1234P	"
29	2/14	"	22.5	33.79	3.76	5.03	127		.6	12	0	510P 534P	"
30	2/17	"	27.0	21.68	2.94	4.74	64		.6	14	0	442P 505P	"
31	2/21	"	19.5	17.62	2.34	4.62	41		.6	11	0	1255P 113P	FC 10
32	2/23	"	19.6	17.19	2.31	4.60	40		.6	11	0	1234P 1252P	FC 29
33	2/25	"	26.5	18.72	2.56	4.64	48		.6	10	0	1030A 1045A	FC 10
34	3/3	Brown-DeVore	21.0	16.42	2.10	4.57	35		.6	10		253P 305P	FC 11
35	3/7	Brown	20.9	15.76	2.08	4.55	33		.6	8	0	158P 210P	FC 10
36	3/10	"	20.5	14.51	2.15	4.54	31		.6	10	0	1214P 1229P	"
37	3/13	"	26.	34.03	4.16	5.10	142		.6	10	-.01 +.02	1205P 1224P	"
38	3/15	"	22.5	22.84	3.12	4.81	71		.6	10	0	1253P 111P	"
39	3/16	"	25.5	27.17	4.05	4.93	110		.6	10	0	1008A 1023A	"
40	3/18	"	25.0	27.89	3.10	4.88	89		.6	12	-.01	947A 1010A	"
41	3/22	Brown-Hall	24.0	26.46	3.04	4.86	80		.6	12	0	1114A 1129A	"
42	3/23	" "	24.0	24.94	3.03	4.83	76		.6	12	0	235P 250P	"
43	3/25	" "	24.0	24.65	2.81	4.81	69		.6	9	0	1143A 1155A	"
44	3/31	" "	20.9	22.75	2.99	4.77	68.0		.6	11	0	1148A 1205A	"
45	4/4	Brown	20.8	22.43	2.76	4.74	62.0		.6	10	0	1245P 100P	"
46	4/7	Brown-Hall	21.0	21.56	2.63	4.73	57		.6	10	0	1125A 1138A	"
47	4/11	Brown	21.0	20.81	2.56	4.69	53		.6	11	0	1155A 1212P	"
48	4/14	"	20.3	20.25	2.48	4.66	50		.6	11	0	1234P 1250P	"
49	4/18	Brown	20.5	19.83	2.45	4.63	48.0		.6	9	0	244P 258P	FC 10
50	4/20	Brown-Green	20.4	19.75	2.40	4.62	47		.6	10	0	102P 117P	FC 11
51	4/21	" "	20.0	19.11	2.50	4.66	48		.6	11	0	1240P 1256P	FC 10
52	4/25	Brown	20.0	18.75	2.34	4.64	44		.6	11	0	1208P 1224P	"
53	4/29	Brown-Green	20.4	19.36	2.14	4.63	42		.6	14	0	107P 130P	"
54	5/2	Brown	20.5	18.73	2.03	4.60	38		.6	11	0	1135A 1150A	"
55	5/4	Brown-Green	20.5	18.30	1.98	4.59	37		.6	13	0	439P 455P	"
56	5/6	" "	20.5	19.01	1.95	4.60	37		.6	13	0	1218P 1235P	"
57	5/9	Brown	20.5	18.58	2.00	4.59	37		.6	11	0	1210P 1225P	"
58	5/15	Brown-Green	20.5	18.03	1.94	4.56	35		.6	10	0	1159A 1211P	"
59	5/16	Brown	20.5	18.51	1.88	4.56	35		.6	10	0	1135A 1149A	"
60	5/20	Brown-Green	20.5	18.30	1.97	4.55	36		.6	11	0	1220 1232P	"
61	5/23	Brown	20.7	18.73	1.83	4.55	34		.6	11	0	1240P 1256P	"
62	5/27	Brown-Green	20.5	18.43	1.78	4.55	33		.6	11	0	1009A 1026A	"
63	5/30	Brown	20.5	18.19	1.82	4.54	33		.6	10	0	1129A 1147A	"
64	6/1	Brown-Green	20.4	17.37	1.69	4.49	29		.6	10	0	114P 125P	"
65	6/3	" "	20.3	17.32	1.62	4.49	28		.6	10	0	1110A 1122A	"
66	6/6	Brown	20.2	17.42	1.66	4.49	29		.6	10	0	1055A 1112A	"
67	6/8	Brown-Green	20.0	17.14	1.61	4.48	28		.6	10	0	1215P 1227P	"
68	6/10	" "	20.0	17.10	1.51	4.47	26		.6	10	0	1236P 1250P	"
69	6/13	Brown	20.0	16.84	1.50	4.45	25		.6	10	0	1037A 1053A	"
70	6/17	"	20.0	16.6	1.48	4.44	25		.6	10	0	1058A 1113A	"
71	6/20	"	19.8	15.95	1.39	4.42	22		.6	10	0	1051A 1106A	"
72	6/24	"	19.4	14.53	1.37	4.41	20		.6	10	0	1124A 1138A	"
73	6/27	Brown	19.3	14.37	1.28	4.38	18		.6	10	0	303P 319P	FC 10
74	6/30	"	19.0	13.63	1.33	4.37	18		.6	10	0	1257P 110P	"
75	7/6	"	19.3	14.58	1.15	4.34	17		.6	10	0	1224P 1240P	"
76	7/8	"	19.5	14.33	1.13	4.35	16		.6	10	0	1043A 1058A	"
77	7/11	"	19.4	14.58	1.02	4.35	15		.6	10	0	1007A 1023A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 98 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - NORTH FORK

~~XXX~~ 1 mile above mouth DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH-OD	MEAS SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
78	7/14	"	19.4	14.91	1.00	4.33	15		.6	10	0	1137A 1151A	"
79	7/18	"	19.5	15.23	.93	4.33	14		.6	10	0	1105A 1121A	"
80	7/22	Brown-DeVore	19.4	15.14	.87	4.32	13		.6	10	0	1121A 1134A	"
81	7/25	Brown	19.6	14.99	.88	4.32	13		.6	10	0	1030A 1045A	"
82	7/29	Brown-DeVore	19.4	15.09	.85	4.30	13		.6	10	0	1113A 1127A	"
83	8/1	Brown	19.6	15.09	.83	4.30	12		.6	10	0	1024A 1039A	"
84	8/5	"	19.3	14.55	.78	4.28	11		.6	10	0	1110A 1125A	"
85	8/8	"	19.2	14.25	.73	4.28	10		.6	10	0	1126A 1141A	"
86	8/12	"	18.8	13.95	.70	4.27	10		.6	10	0	1205P 1213P	"
87	8/15	"	19.0	13.97	.67	4.26	9.4		.6	10	0	1203P 1220P	"
88	8/19	"	19.0	13.50	.68	4.26	9.2		.6	10	0	1018A 1034A	"
89	8/22	DeVore	19.5	13.50	.58	4.25	7.8		.6	11	0	1203P 1225P	FC 11
90	8/26	Brown	18.8	13.28	.62	4.25	8.2		.6	10	0	1104A 1118A	FC 10
91	8/29	"	19.0	13.80	.66	4.25	9.1		.6	10	0	1016A 1027A	"
92	9/2	"	18.5	12.59	.63	4.24	7.9		.6	10	0	1256P 111P	"
93	9/5	"	18.7	12.95	.61	4.24	7.9		.6	10	0	1045A 1100A	"
94	9/8	"	18.8	12.91	.59	4.24	7.7		.6	10	0	1114A 1130A	"
94A	9/12	Brown-Penrod	18.3	12.29	.56	4.23	6.9		.6	9	0	1058A 1110A	"
95	9/16	Brown-Penrod	18.0	11.75	.54	4.22	6.4		.6	10	0	1135A 1150A	FC 10
96	9/23	" "	18.9	12.94	.59	4.24	7.7		.6	10	0	1013A 1030A	"
97	9/30	Brown	18.4	12.55	.59	4.23	7.4		.6	10	0	1057A 1110A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 98 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - NORTH FORK

~~XXX~~ 1 mile above mouth DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH-OD	MEAS SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
98	10/3	Brown	18.6	12.94	.56	4.24	7.3		.6	10	0	1028A 1042A	FC 10
99	10/7	"	18.3	12.80	.57	4.23	7.2		.6	9	0	1034A 1048A	"
100	10/10	"	18.6	12.80	.52	4.23	6.6		.6	9	0	1015A 1030A	"
101	10/14	"	18.6	13.22	.49	4.23	6.4		.6	9	0	1110A 1123A	"
102	10/17	"	18.6	13.14	.48	4.22	6.3		.6	9	0	1040A 1055A	"
103	10/21	"	18.8	13.12	.45	4.22	5.9		.6	9	0	1054A 1106A	"
104	10/28	"	17.7	11.70	.43	4.20	5.0		.6	9	0	1151A 1201P	"
105	11/4	"	18.3	12.33	.43	4.22	5.3		.6	9	0	1034A 1048A	"
106	11/10	"	18.3	12.76	.49	4.24	6.2		.6	9	0	1051A 1105A	"
107	11/18	"	18.2	12.42	.49	4.24	6.1		.6	9	0	925A 938A	"
108	11/24	"	18.1	13.08	.45	4.24	5.9		.6	9	0	933A 947A	"
109	12/2	"	18.4	12.88	.50	4.22	6.5		.6	9	0	937A 948A	"
110	12/9	"	18.1	12.34	.42	4.21	5.2		.6	10	0	1016A 1033A	"
111	12/12	"	18.8	14.25	.71	4.30	10		.6	9	0	938A 952A	"
112	12/15	"	18.6	13.60	.52	4.25	7.0		.6	11	0	1030A 1047A	"
113	12/23	"	19.5	17.33	.57	4.32	9.9		.6	10	0	1056A 1110A	"
114	12/28	"	19.4	16.15	.52	4.29	8.4		.6	11	0	1234P 1250P	"
115	12/30	"	18.9	14.65	.57	4.27	8.3		.6	12	0	907A 924A	"
116	1/6	"	18.7	14.02	.50	4.26	7.0		.6	12	0	918A 934A	"
117	1/13	"	18.3	12.82	.57	4.24	7.3		.6	11	0	914A 930A	"
118	1/16	"	19.5	16.68	.75	4.34	13		.6	13	0	1105A 1122A	FC 11
119	1/20	Brown-DeVore	18.7	14.77	.62	4.28	9.0		.6	12	0	1222P 1236P	FC 18
120	1/27	Brown	18.7	13.89	.55	4.25	7.6		.6	11	0	1041A 1058A	"
121	2/1	"	19.7	18.49	.96	4.41	18		.6	9	0	229P 242P	"
122	2/3	Brown	21.3	22.81	1.30	4.54	29		.6	10	+.04	1154A 1209P	FC 18
123	2/4	Brown-Ash	23.5	28.82	2.36	4.79	67		.6	11	-.02	505P 519P	"
124	2/6	Brown	19.3	18.54	1.36	4.49	25		.6	13	0	1022A 1040A	"
125	2/10	"	20.2	18.46	1.34	4.50	24		.6	13	0	1051A 1108A	"
126	2/12	Brown-Penrod	21.0	25.07	2.19	4.70	54		.6	11	0	1218P 1231P	"
127	2/17	Brown	19.2	13.35	1.80	4.44	24		.6	12	0	1135A 1150A	"
128	2/24	"	18.8	10.57	1.59	4.37	17		.6	13	0	136P 154P	"
129	3/1	Brown-Middleton	24.	36.5	6.93	5.48	253		.6	11	-.02	236P 256P	FC 29

F. C. Dist. Form 52 10 A&B

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F98R

Daily discharge, in second-feet of SAN GABRIEL RIVER-NORTH FORK 1 mile above mouth for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.5	4.8	6	7.5	22	404						
2	6.5	4.3	6	7	12							
3	6.5	5.5	5.5	6.5	51							
4	6.5	5.5	5.5	6.5	74							
5	7	5.5	4.8	6.5	38							
6	7	6	6.5	6.5	25							
7	6.5	6	5.5	6.5	20							
8	6.5	6	5.5	7	16							
9	6.5	6	5.5	6	23							
10	6	6	6.5	6.5	16							
11	6	6.5	10	7	56							
12	6	6.5	10	7.5	54							
13	6	6.5	7	7	34							
14	6	6.5	7	6	32							
15	6	6.5	7	22	28							
16	6	6.5	6.5	13	26							
17	6	6.5	5.5	11	24							
18	6	6.5	5.5	10	24							
19	6	5.5	5.5	10	26							
20	5.5	5.5	3.9	9	22							
21	5.5	4.8	4.3	9	20							
22	5.5	4.8	10	7.5	19							
23	5.5	4.5	7	7.5	18							
24	4.8	4.8	7	7.5	17							
25	4.8	5.5	8	7.5	16							
26	4.8	5.5	9	7.5	15							
27	4.8	5.5	8	7.5	22							
28	4.8	5.5	8	7.5	176							
29	5.5	6	9	7.5								
30	5.5	6	7.5	6.5								
31	5.5											
	182.5	167.2	208.3	250.5	931	(Mar. 1) 404						

NO RECORD - SEE STATION DESCRIPTION

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
MEAN	5.89	5.57	6.72	8.08	33.2	13.0						
ACRE-FEET	362	332	413	497	1850	801						

Remarks:

MEAN 9.31 (Oct. 1)
MAX. 404 (Mar. 1)
ACRE-FEET 6760

F. C. Dist. Form 52 10 A&B

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F98R

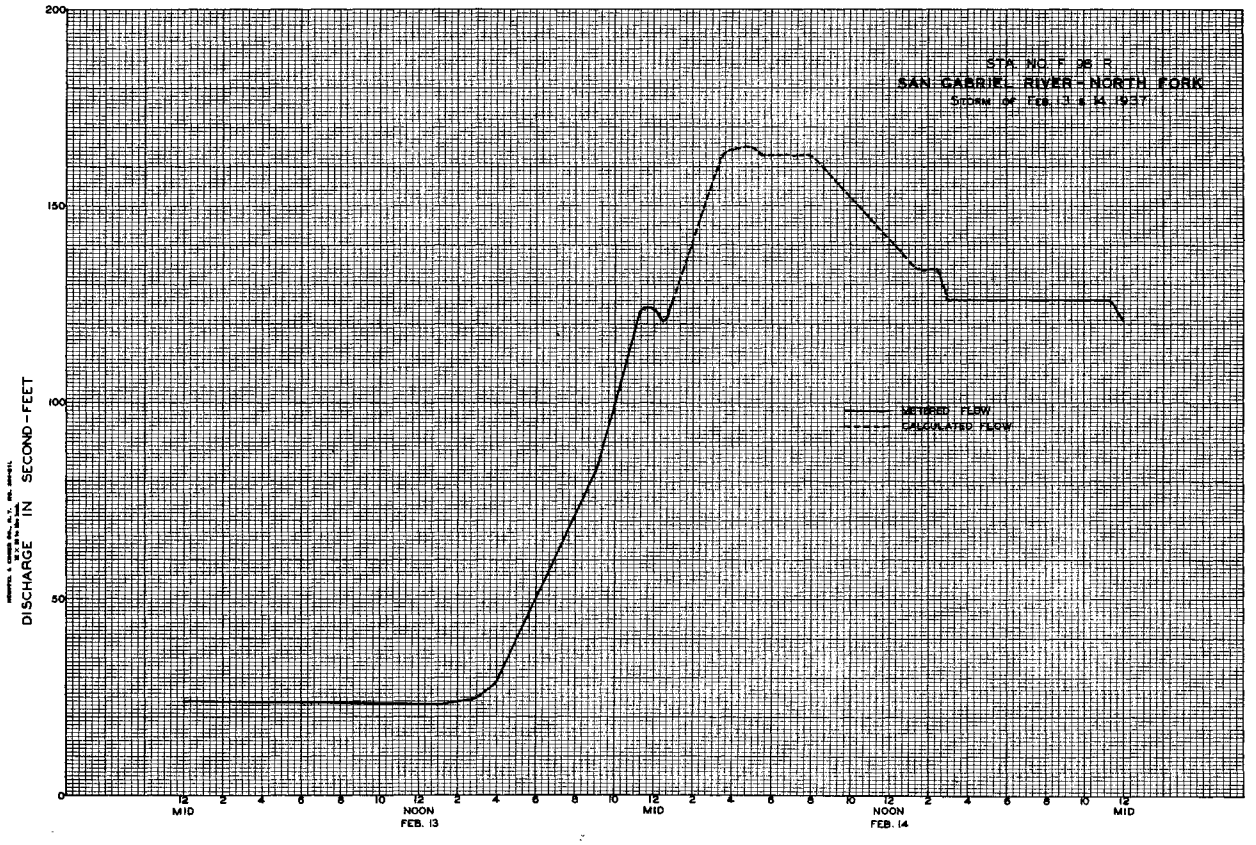
Daily discharge, in second-feet of SAN GABRIEL RIVER-NORTH FORK 1 mile above mouth for the year ending September 30, 19 37

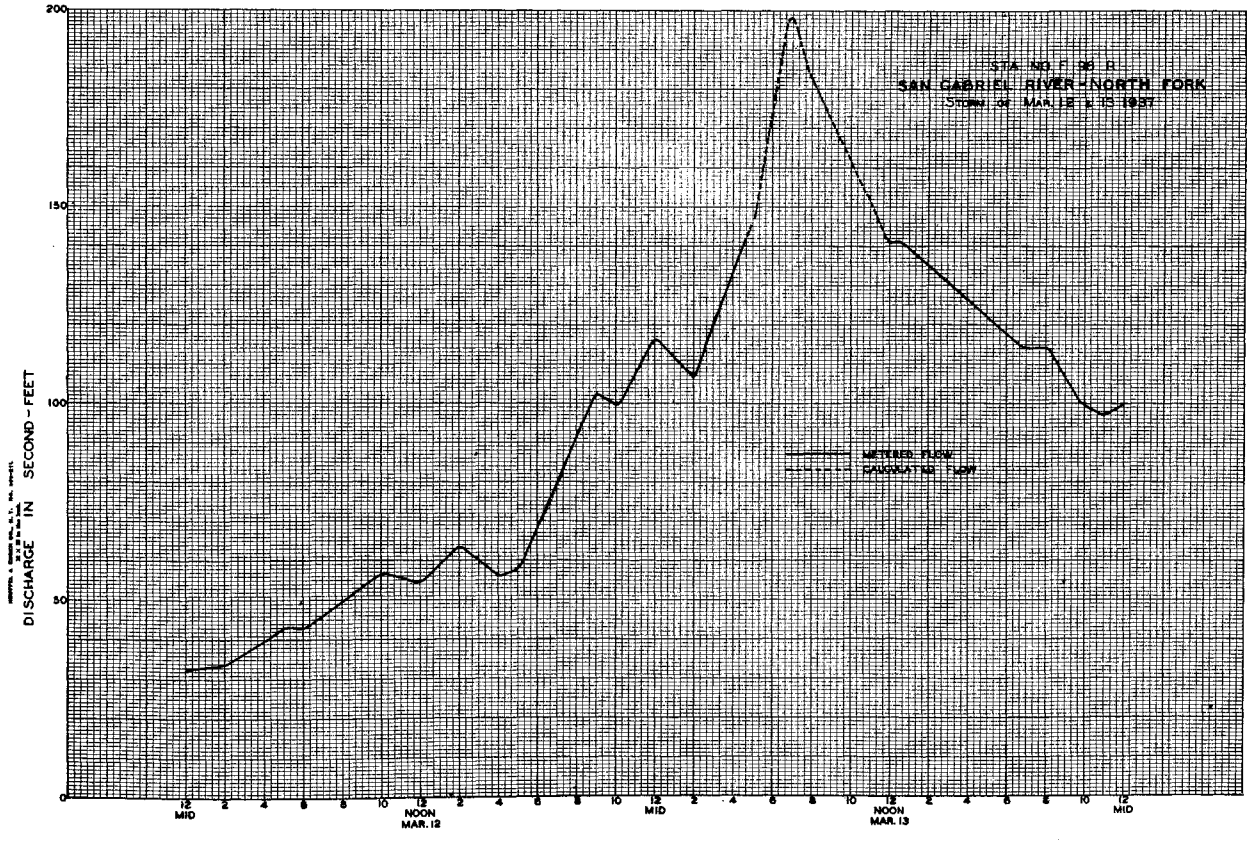
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	34	29	20	15	39	65	40	30	19	12	9
2	22	34	29	14	15	38	65	39	29	19	12	9
3	22	34	29	12.5	14	36	64	40	29	19	11	9
4	22	35	29	9.5	14	36	62	39	29	20	11	8
5	20	35	29	10	14	36	62	39	29	19	11	7.5
6	20	22	29	14	58	36	58	38	29	18	11	7
7	20	22	29	12	84	35	54	38	28	17	10	7
8	20	22	29	11.5	49	34	53	39	28	17	10	6.5
9	17	25	29	9.5	36	34	53	38	27	16	10	6.5
10	20	25	29	7.5	26	32	53	38	27	14	10	6.5
11	22	29	35	10	24	32	52	36	26	14	9.5	6.5
12	22	25	35	11	41	151	53	36	25	15	9.5	6.5
13	22	29	35	9	140	134	52	36	25	16	9.5	6.5
14	22	29	29	7	104	89	52	35	24	16	10	6.5
15	22	29	19	9	104	84	50	35	24	15	9.5	6.5
16	22	29	11	8	83	114	50	35	24	15	9.5	6.5
17	22	25	6.5	8	67	95	52	35	24	15	9.5	7
18	22	29	5.5	7	58	91	52	36	24	14	9.5	7
19	22	29	5.5	7.5	50	85	55	38	23	14	9.5	7
20	22	29	5.5	7.5	44	79	54	36	22	14	9	7
21	22	29	4.8	7.5	41	72	49	35	22	14	8	7.5
22	22	29	4.8	7	41	81	49	34	22	14	8	7.5
23	22	29	4.8	7	40	74	47	34	21	14	9	7
24	22	29	4.5	7	50	74	46	34	20	13	8	6.5
25	25	29	5.5	7.5	46	67	47	32	21	11	8	6
26	25	29	4.1	7	45	71	47	31	20	11	8	7
27	25	29	3.2	7	40	71	44	30	20	11	9	7
28	25	29	16	8		71	43	31	20	12	8	7
29	25	29	20	17		69	41	31	20	13	8	7.5
30	24	29	24	20		67		32		12	9	
31	24		28									
	774	855	287.8	306.0	1307	2008	1574	1103	733	462	294.0	210.5

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
MEAN	25.0	28.5	9.28	9.87	46.7	64.8	52.5	35.6	24.4	14.9	9.45	7.02
ACRE-FEET	1538	1700	571	607	2590	3980	3120	2190	1450	916	583	418

Remarks:

YEAR MEAN 23.1
ACRE-FEET 16750


STA. NO. F 26 R
SAN GABRIEL RIVER - NORTH FORK
Storm of Feb. 13 & 14, 1937
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
200
150
100
50
0
12 MID
2
4
6
8
10
12 NOON
FEB. 13
MID
NOON
FEB. 14


STA. NO. F 26 R
SAN GABRIEL RIVER - NORTH FORK
Storm of MAR. 12 & 13 1937
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
200
150
100
50
0
12 MID
NOON
MAR. 12
MID
NOON
MAR. 13

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.
From July 12, 1938 to August 27, 1938, while station P3R was being rebuilt, a temporary station, known as station P3B-R, was maintained on the downstream end of bridge pier, estimated 400 feet below the mouth of North Fork and estimated ½ mile above station P3R.

DRAINAGE AREA:

102 square miles.

CHANNEL AND CONTROL:

Channel is sand, gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

Except while station P3R was being rebuilt, low flow measurements were made by wading near recorder house, high flow measurements were made from cable car 115 feet upstream.

RECORDER:

Installed December 3, 1930 in a 42 inch corrugated iron pipe stilling well which also serves as a recorder house.
An Au continuous recorder, in service October 1, 1936.
The recorder was removed about noon March 2, 1938 shortly before the stilling well and recorder house were washed out.
An Au continuous recorder was installed on April 4, 1938 in a temporary recorder house and well in the original location.
The recorder was removed July 12, 1938 to permit the construction of a new concrete stilling well and house in the same location.
The recorder was installed at the temporary station known as station P3B-R on July 12, 1938 and was removed on September 27, 1938.
The recorder was installed in the new F. C. standard concrete house over a 4 ft. x 4 ft. concrete well on September 27, 1938.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 3, 1930 to September 30, 1938.
(For records prior to December 3, 1930 on file in Los Angeles County Flood Control District office refer to abandoned station P1R San Gabriel River - W. Fork ½ mile above Forks; records from July 12, 1938 to September 27, 1938 are from station P3B-R San Gabriel River - W. Fork 400 ft. below North Fork).

EXTREMES OF DISCHARGE:

1936-37
Maximum 2000 second-feet February 14.
Minimum 2.3 second-feet October 11.
1937-38
Maximum 34000 second-feet, estimated, March 2.
Minimum not determined.
1930-37 (stations P1R and P3R)
Maximum 5320 second-feet January 1, 1934.
Minimum 0.3 second-feet October 17, 1951.
1930-38 (stations P1R and P3R)
Maximum 34000 second-feet, estimated, March 2, 1938.

ACCURACY:

Good.
Estimated:
February 6, 1937; March 2 to April 4; June 25, 26; July 12, August 17 to September 29, 1938.
Interpolated:
November 15, 1937.
Discharges from station P3B-R from July 13 to September 26, 1938.

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.

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. P 3 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

AT 2 miles above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	REGD. PRECIP. INS.	METH OD	MEAS. RECD. NO.	G. HT. CHANGE TOTAL	BEGIN. END	METER NO.
1	10/1	Reber-DeVore	9.0	3.72	.98	2.43	3.7		.6	9	0	955A 1005A	FC 32
2	10/8	Reber	9.0	3.68	1.01	2.42	3.7		.6	10	0	729A 740A	FC 33
3	10/15	Reber-DeVore	9.0	3.69	.99	2.43	3.6		.6	9	0	948A 958A	FC 32
4	10/17	DeVore-Reber	8.0	5.88	1.54	2.62	9.1		.6	10	0	148P 202P	"
5	10/19	Reber	51.0	42.49	1.40	3.17	60.		.6	12	0	417P 4..0P	FC 33
6	10/22	Reber-Reber	8.7	8.06	1.39	2.60	8.4		.6	10	0	1047A 1100A	"
7	10/29	Reber	8.7	5.21	1.13	2.52	5.9		.6	10	0	1022A 1030A	"
8	10/31	DeVore	33.2	23.54	.89	2.80	21.		.6	10	0	234P 252P	FC 11
9	11/5	Reber	13.8	11.68	1.53	2.70	18.		.6	10	0	1100A 1111A	FC 33
10	11/12	"	10.9	6.97	1.34	2.63	9.4		.6	11	0	900A 914A	"
11	11/19	"	10.0	5.88	1.17	2.57	6.9		.6	10	0	1017A 1032A	"
12	11/25	"	11.0	6.69	1.22	2.64	8.2		.6	11	0	1052A 1113A	"
13	12/3	"	10.7	6.93	1.30	2.68	9.0		.6	11	0	1118A 1132A	"
14	12/10	"	10.2	7.24	1.50	2.69	11.		.6	10	0	1051A 1105A	"
15	12/14	"	32.0	23.72	.68	2.84	21.		.6	10	+.02	1110P 1127P	"
16	12/15	"	36.0	29.22	1.10	2.98	32.		.6	11	+.03	115A 140A	"
17	12/16	"	43.5	33.90	1.28	3.07	44.		.6	13	+.02	325A 350A	"
18	12/5	"	52.5	54.00	1.68	3.40	90.		.6	11	0	835A 852A	"
19	12/15	"	53.0	61.78	2.04	3.53	126.		.6	11	+.02	304P 329P	"
20	12/17	"	52.8	69.29	2.19	3.50	130.		.6	11	+.06	1117A 1139A	"
21	12/23	"	34.0	26.44	.98	2.88	26.		.6	11	0	1122A 1138A	"
22	12/30	"	50.5	52.16	1.60	3.22	83.		.6	11	0	1240P 102P	"
23	12/31	Reber-Brown	55.5	86.00	2.92	3.88	251.		.6	12	-.02	335P 355P	"
24	1/7	Reber	50.8	51.61	1.90	3.25	98.		.6	16	0	1136A 1205P	FC 33
25	1/14	"	50.0	43.90	1.61	3.12	71.		.6	14	0	1111A 1132A	"
26	1/20	DeVore-Bartlett	47.5	38.13	1.44	3.07	55.		.6	15	0	1116A 1141A	FC 11
27	1/25	Brown-Bartlett	50.2	32.11	1.36	3.03	53.		.6	14	0	328P 348P	"
28	1/27	" "	49.9	36.18	1.46	3.03	52.		.6	11	0	320P 335P	"
29	1/29	" "	50.4	41.35	1.61	3.11	62.		.6	14	0	317P 337P	"
30	1/30	Cooper-Cooper	54.5	76.45	2.66	3.72	203.		.6	14	-.08	1127P 1210A	FC 29
31	1/31	Cooper-Brown	38.0	47.37	2.54	3.36	121.		.6	8	-.01	248P 312P	FC 11
32	2/3	DeVore-Brown	30.9	0.07	1.73	3.22	86.		.6	15	0	143P 204P	"
33	2/6	Cooper-Brown	57.0	130.1	4.20	5.19	584.		.6	11	+.28	151P 225P	FC 29
34	2/6	Brown-Cooper	60.0	164.3	4.07	5.45	670.		.6	12	+.14	240P 320P	"
35	2/6	Brown	61.0	167.6	4.53	5.64	761.		.6	11	+.25	345P 430P	"
36	2/6	"	63.0	191.8	4.72	5.86	905.		.6	12	+.14	455P 535P	"
37	2/7	Cooper-Brown	5..0	134.8	4.77	5.07	644.		.6	11	-.04	808A 827A	"
38	2/7	Cooper-Cooper	56.0	110.7	4.50	4.68	498.		.6	11	-.01	335P 400P	FC 11
39	2/7	" "	56.0	108.1	4.18	4.66	453.		.6	11	-.01	410P 434P	"
40	2/9	Brown	57.1	89.84	3.12	3.98	279.		.6	12	0	1119A 1142A	FC 29
41	2/11	"	55.5	75.46	2.90	3.73	219.		.6	14	0	1054A 1120A	"
42	2/14	Cooper-Brown	74.0	254.5	7.30	6.92	1860.		.6	14	+.35	127A 250A	"
43	2/14	" "	75.0	255.4	7.11	6.86	1820.		.6	14	0	1000A 1021A	"
44	2/14	Brown	75.0	249.1	7.11	6.84	1770.		.6	14	-.01	1047A 1214A	"
45	2/14	"	75.0	243.8	6.72	6.77	1640.		.6	14	+.04	1200N 1230P	"
46	2/14	"	75.0	244.4	6.68	6.70	1630.		.6	14	+.01	115P 147P	"
47	2/15	Brown	63.0	177.0	5.31	5.78	941.		.6	13	+.01	130P 205P	FC 29
48	2/17	"	59.2	109.9	3.62	4.48	398.		.6	11	0	1212P 1233P	"
49	2/21	"	60.0	108.6	3.13	4.16	339.		.6	16	0	1125A 1155A	FC 10
50	2/23	"	57.0	100.5	3.00	4.07	302.		.6	15	0	1123A 1150A	FC 29
51	2/25	"	57.0	103.4	3.06	4.12	316.		.6	15	0	856A 925A	FC 10
52	3/3	Brown-DeVore	56.8	90.48	2.78	3.89	251.		.6	15	0	145P 230P	FC 11
53	3/7	Brown	56.5	84.87	2.67	3.83	226.		.6	13	0	102P 125P	FC 10
54	3/10	"	56.5	83.22	2.68	3.78	222.		.6	14	0	1115A 1137A	"
55	3/12	"	64.3	131.7	3.14	4.50	494.		.6	15	-.03	310P 337P	FC 11
56	3/13	"	64.0	201.0	5.78	6.06	1160.		.6	13	-.14	830A 900A	FC 10

F. C. D. FORM 104 (M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 3 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~YEAR~~ 2 miles above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
57	3/13	"	59.0	155.7	5.20	5.34	810.		.6	11	-.03	107P 134P	"
58	3/14	"	64.5	133.4	3.86	4.6	516.		.6	15	-.01	150P 219P	"
59	3/15	"	63.5	128.3	3.58	4.40	453.		.6	14	0	1125A 1153A	"
60	3/16	"	58.0	142.4	5.10	5.14	728.		.6	11	-.02	878A 925A	"
61	3/16	"	58.0	138.2	4.82	4.99	667.		.6	11	-.01 +.01	111P 134P	"
62	3/18	"	66.0	143.0	3.81	4.65	545.		.6	15	0	829A 900A	"
63	3/22	Brown-Hall	63.5	139.7	3.54	4.60	494.		.6	15	-.01	1005A 1033A	"
64	3/23	" "	63.5	125.6	3.51	4.41	440.		.6	14	0	125P 154P	"
65	3/25	" "	63.5	123.3	3.41	4.38	420.		.6	14	0	1049A 1109A	"
66	3/28	Brown	62.0	117.4	3.34	4.29	392.		.6	13	0	1217P 1235P	"
67	3/31	Brown-Hall	62.5	114.3	3.28	4.26	375.		.6	13	0	1050A 1106A	"
68	4/4	Brown	62.0	110.8	3.16	4.20	351.		.6	13	0	1130A 1144A	"
69	4/7	Brown-Hall	62.0	108.11	3.04	4.17	330.		.6	13	0	1034A 1052A	"
70	4/11	Brown	59.5	100.9	2.81	4.05	284.		.6	13	0	1052A 1114A	FC 10
71	4/14	"	57.5	97.42	2.75	3.97	268.		.6	13	0	1138A 1200N	"
72	4/15	Brown-Green	57.5	96.27	2.77	3.96	266.		.6	13	0	145P 205P	"
73	4/18	Brown	57.0	94.02	2.66	3.91	250.		.6	13	0	143P 204P	"
74	4/20	Brown-Green	57.0	92.91	2.69	3.90	250.		.6	13	0	1045A 1104A	FC 11
75	4/21	" "	57.0	91.40	2.64	3.87	241.		.6	13	0	404P 421P	FC 10
76	4/25	Brown	57.0	89.86	2.61	3.85	234.		.6	13	0	1115A 1137A	"
77	4/29	Brown-Green	57.0	87.71	2.56	3.84	225.		.6	16	0	1133A 1155A	"
78	5/2	Brown	56.8	85.99	2.50	3.79	215.		.6	14	0	1037A 1100A	"
79	5/4	Brown-Green	56.5	83.74	2.40	3.77	201.		.6	13	0	1237P 1254P	"
80	5/6	" "	56.5	83.28	2.48	3.78	206.		.6	14	0	928A 1046A	"
81	5/9	Brown	56.5	83.18	2.41	3.75	200.		.6	14	0	1106A 1129A	"
82	5/13	Brown-Green	56.5	79.67	2.28	3.69	182.		.6	16	0	1016A 1035A	"
83	5/16	Brown	56.5	76.89	2.22	3.67	171.		.6	15	0	1029A 1055A	"
84	5/20	Brown-Green	55.7	75.00	2.24	3.63	168.		.6	16	0	1103A 1127A	"
85	5/23	Brown	55.7	74.71	2.19	3.63	164.		.6	15	0	1140A 1205P	"
86	5/27	Brown-Green	55.2	73.74	2.17	3.59	160.		.6	15	0	910A 9.8A	"
87	5/30	Brown	55.2	72.72	2.16	3.58	157.		.6	15	0	1034A 1100A	"
88	6/1	Brown-Green	54.2	68.85	2.02	3.52	139.		.6	14	0	1120A 1140A	"
89	6/3	" "	54.2	67.36	1.97	3.48	133.		.6	15	0	1030A 1048A	"
90	6/6	Brown	61.0	113.9	3.13	4.22	357.		.6	17	0	953A 1021A	"
91	6/8	Brown-Green	58.0	99.07	2.85	4.00	283.		.6	15	0	1104A 1125A	"
92	6/10	" "	51.7	53.13	1.70	3.27	90.		.6	15	0	1116A 1136A	"
93	6/13	Brown	41.4	53.14	1.54	3.24	82.		.6	12	0	943A 1000A	"
94	6/17	Brown	41.2	49.07	1.51	3.20	74.		.6	15	0	1007A 1028A	FC 10
95	6/20	"	41.3	48.43	1.45	3.18	70.		.6	14	-.01	948A 1010A	"
96	6/24	"	40.8	47.14	1.36	3.14	64.		.6	15	-.01	1028A 1043A	"
97	6/27	"	40.3	43.83	1.29	3.08	57.		.6	15	0	346P 406P	"
98	6/30	"	40.4	44.28	1.27	3.08	56.		.6	15	0	1201P 1222P	"
99	7/6	"	40.1	42.77	1.25	3.06	53.		.6	15	0	1057A 1119A	"
100	7/8	"	40.3	42.81	1.23	3.05	53.		.6	15	0	948A 1018A	"
101	7/11	"	40.2	42.56	1.22	3.05	52.		.6	15	0	910A 922A	"
102	7/14	"	40.2	41.80	1.19	3.04	50.		.6	15	0	1009A 1029A	"
103	7/18	"	40.0	41.41	1.17	3.02	48.		.6	15	0	1007A 1030A	"
104	7/22	Brown-DeVore	40.0	39.87	1.11	2.99	44.		.6	15	0	1030A 1050A	"
105	7/25	Brown	39.4	37.65	1.07	2.95	40.		.6	15	0	922A 945A	"
106	7/29	Brown-DeVore	39.1	35.46	.98	2.90	35.		.6	15	0	1025A 1045A	"
107	8/1	Brown	40.2	43.26	1.15	3.04	50.		.6	15	0	849A 911A	"
108	8/5	"	39.1	34.56	.94	2.89	32.		.6	15	0	1009A 1032A	"
109	8/8	"	40.2	41.97	1.10	3.03	46.		.6	15	0	1025A 1050A	"
110	8/12	"	40.1	40.66	1.04	3.00	42.		.6	15	0	1106A 1130A	"
111	8/15	"	40.3	42.25	1.08	3.02	45.		.6	15	0	1106A 1130A	"
112	8/19	"	40.1	42.53	1.09	3.03	46.		.6	15	0	925A 947A	"
113	8/21	DeVore	39.5	36.12	.94	2.90	30.		.6	13	0	313P 335P	FC 11
114	/26	Brown	39.2	34.05	.89	2.88	30.		.6	14	0	1005A 1050A	FC 10
115	9/29	"	39.4	36.41	.96	2.90	34.		.6	14	0	929A 9.0A	"
116	9/2	"	39.2	25.19	.73	2.72	18.		.6	14	0	1120A 1140A	"
117	9/5	Brown	38.4	24.26	.68	2.68	17.		.6	14	0	9953A 10144A	FC 10
118	9/8	"	38.2	23.56	.67	2.67	16.		.6	14	0	1005A 1010A	"
119A	9/12	Brown-Penrod	38.1	21.91	.65	2.65	14.		.6	14	0	1002A 1020A	"
119	/13	Brown	38.3	22.98	.67	2.66	15.		.6	14	0	1005A 1015A	"
120	9/23	"	38.6	24.19	.68	2.71	17.		.6	14	0	907A 932A	"
121	9/30	"	38.4	23.71	.67	2.70	16.		.6	14	0	947A 1007A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 5 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~YEAR~~ 2 miles above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
122	10/3	Brown	38.5	24.01	.68	2.70	16.		.6	14	0	909A 929A	FC 10
123	10/7	"	38.5	24.41	.64	2.70	16.		.6	14	0	934A 955A	"
124	10/10	"	38.5	23.85	.63	2.69	15.		.6	14	0	921A 943A	"
125	10/14	"	38.5	24.46	.63	2.69	15.		.6	14	0	943A 1015A	"
126	10/17	"	38.6	24.49	.64	2.68	15.		.6	14	0	946A 1008A	"
127	10/21	"	39.3	22.66	.59	2.64	13.		.6	16	0	947A 1015A	"
128	10/29	"	38.3	22.32	.60	2.65	13.		.6	14	0	1053A 1113A	"
129	11/2	"	38.5	23.80	.63	2.68	15.		.6	14	0	836A 856A	"
130	11/3	"	38.5	23.44	.64	2.67	15.		.6	14	0	752A 813A	"
131	11/4	Brown-Cooper	38.5	22.98	.64	2.67	14.		.6	14	0	804A 822A	FC 29
132	11/5	Cooper	38.6	23.33	.58	2.68	13.		.6	14	0	840A 910A	FC 11
133	11/6	DeVore	38.5	23.49	.60	2.68	14.		.6	15	0	1020A 1049A	FC 32
134	11/7	Brown	38.5	25.21	.65	2.70	16.		.6	14	0	955A 1017A	FC 10
135	11/8	"	38.5	24.86	.62	2.70	15.		.6	14	0	800A 821A	"
136	11/9	"	38.5	24.79	.67	2.70	16.		.6	14	0	749A 809A	"
137	11/10	Brown-Cooper	38.5	24.79	.67	2.70	16.		.6	14	0	823A 848A	"
138	11/11	Brown	38.5	24.97	.65	2.70	16.		.6	14	0	838A 858A	"
139	11/12	Cooper-DeVore	38.9	25.02	.66	2.70	16.		.6	14	0	1004A 1022A	"
140	11/13	DeVore-DeVore	38.9	24.92	.64	2.72	16.		.6	14	0	934A 955A	FC 32
141	11/14	Brown	38.5	25.31	.68	2.72	17.		.6	14	0	1033A 1055A	FC 10
142	11/15	"	38.5	26.00	.67	2.73	17.		.6	14	0	1005A 1027A	"
143	11/16	Brown-Cooper	38.4	26.29	.71	2.72	18.		.6	14	0	820A 840A	"
144	11/17	Brown	38.5	25.84	.69	2.72	18.		.6	14	0	804A 825A	"
145	11/18	"	38.5	26.18	.69	2.73	18.		.6	14	0	806A 827A	"
146	11/19	Brown-Cooper	38.5	25.80	.71	2.73	18.		.6	14	0	852A 910A	FC 10
147	11/20	DeVore-DeVore	39.2	25.66	.65	2.72	17.		.6	14	0	1018A 1037A	FC 32
148	11/21	Brown	38.6	25.43	.69	2.72	17.		.6	14	0	747A 809A	FC 10
149	11/22	"	38.5	25.19	.70	2.72	17.		.6	14	0	811A 833A	"
150	11/23	"	38.5	25.39	.68	2.71	17.		.6	14	0	752A 814A	"
151	11/24	"	38.6	25.13	.70	2.72	17.		.6	14	0	825A 848A	"
152	11/25	"	38.6	25.90	.68	2.73	17.		.6	14	0	915A 935A	"
153	11/26	DeVore-Cooper	39.0	26.06	.65	2.73	17.		.6	15	0	1125A 1148A	"
154	11/27	DeVore-Brown	38.6	24.64	.69	2.72	17.		.6	14	0	1124A 1144A	FC 32
155	11/28	Brown	38.6	25.64	.69	2.72	18.		.6	14	0	750A 810A	FC 10
156	11/29	"	38.6	25.67	.68	2.73	17.		.6	14	0	814A 835A	"
157	11/30	"	39.1	25.65	.67	2.74	17.		.6	14	0	805A 826A	"
158	12/1	"	38.6	26.06	.66	2.73	17.		.6	14	0	807A 827A	"
159	12/2	"	38.6	25.93	.68	2.74	17.		.6	14	0	758A 823A	"
160	12/3	Cooper-DeVore	38.9	26.24	.69	2.74	18.		.6	14	0	1046A 1106A	FC 11
161	12/4	DeVore	38.9	25.76	.64	2.74	16.		.6	14	0	925A 947A	FC 32
162	12/5	Brown	38.6	25.98	.66	2.74	16.		.6	14	0	755A 817A	FC 10
163	12/6	"	38.6	26.13	.63	2.74	16.		.6	14	0	818A 834A	"
164	12/7	"	38.6	25.91	.65	2.73	17.		.6	14	0	816A 836A	"
165	12/8	"	38.6	26.15	.65	2.73	17.		.6	14	0	811A 833A	"
166	12/9	"	38.6	26.26	.65	2.74	17.		.6	14	0	838A 858A	"
167	12/10	"	38.7	30.65	.72	2.82	22.		.6	14	0	844A 906A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. P 3 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~VIA~~ 2 miles above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Factor Ref.	METHOD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
168	12/11	DeVore	39.2	31.14	.76	2.84	23.		.6	14	+.01	1002A 1026A	FC 32
169	12/11	Brown	42.6	62.53	1.49	3.40	92.		.6	15	+.16	720P 750P	FC 10
170	12/11	Brown	57.5	93.23	2.22	3.92	205.		.6	12	+.16	904P 930P	FC 10
171	12/11	"	57.1	93.67	2.23	3.92	209.		.6	12	-.15	947P 1014P	"
172	12/12	"	51.1	45.69	1.28	3.14	59.		.6	14	-.01	825A 848A	"
173	12/13	"	40.6	44.49	1.14	3.12	50.		.6	15	-.07	834A 900A	"
174	12/14	"	39.8	38.93	1.00	3.01	39.		.6	14	0	810A 831A	"
175	12/15	"	39.1	34.36	.88	2.92	30.		.6	14	0	803A 825A	"
176	12/16	Cooper-DeVore	39.3	32.31	.83	2.88	26.		.6	14	0	1120A 1142A	FC 11
177	12/17	DeVore	39.3	32.69	.80	2.86	26.		.6	14	0	1202P 1228P	"
178	12/18	"	39.3	31.52	.80	2.86	25.		.6	14	0	1012A 1034A	FC 32
179	12/19	Brown-Penrod	38.6	30.34	.81	2.84	24.		.6	14	0	827A 845A	FC 10
180	12/20	Brown	38.7	31.57	.64	2.82	21.		.6	14	0	821A 843A	"
181	12/21	"	39.1	34.54	.62	2.82	21.		.6	14	0	815A 836A	"
182	12/22	"	39.3	35.80	.60	2.84	21.		.6	14	0	810A 830A	"
183	12/23	"	42.5	63.35	1.19	3.31	75.		.6	15	-.01	802A 823A	"
184	12/23	"	42.3	62.13	1.20	3.29	74.		.6	15	+.01	958A 1020A	"
185	12/23	"	41.2	50.72	.98	3.12	49.		.6	14	-.01	150P 210P	"
186	12/24	"	30.8	38.51	.79	2.93	30.		.6	14	0	734A 753A	"
187	12/25	"	39.3	35.39	.74	2.87	26.		.6	14	0	955A 1015A	"
188	12/26	"	39.9	38.91	.78	2.93	30.		.6	14	+.01	800A 819A	"
189	12/27	"	41.8	53.20	1.03	3.14	54.		.6	14	0	819A 839A	"
190	12/28	"	40.7	44.87	.84	3.02	38.		.6	14	0	755A 814A	"
191	12/29	"	40.3	41.46	.82	2.97	33.		.6	14	0	810A 830A	"
192	12/30	"	39.8	39.55	.80	2.94	31.		.6	14	0	806A 825A	"
193	12/31	DeVore	39.8	37.98	.75	2.92	28.		.6	14	0	127P 148P	FC 11
194	1/1	Brown	39.6	37.29	.77	2.90	28.		.6	14	0	1218P 1240P	FC 10
195	1/2	"	39.5	37.28	.74	2.90	27.		.6	14	0	818A 838A	"
196	1/3	"	39.5	37.07	.74	2.90	27.		.6	14	0	821A 842A	"
197	1/4	"	39.4	36.52	.73	2.89	26.		.6	14	0	810A 830A	"
198	1/5	"	39.3	36.18	.73	2.89	26.		.6	14	0	808A 828A	"
199	1/6	"	39.2	35.41	.70	2.88	24.		.6	14	0	812A 833A	"
200	1/7	DeVore	39.6	34.67	.68	2.87	24.		.6	15	0	937A 1000A	FC 32
201	1/8	DeVore-DeVore	39.5	34.40	.68	2.86	23.		.6	15	0	932A 953A	"
202	1/9	Brown-Penrod	39.0	34.32	.68	2.85	23.		.6	14	0	807A 828A	FC 10
203	1/10	Brown	39.0	33.99	.69	2.84	23.		.6	14	0	838A 858A	"
204	1/11	DeVore	39.3	33.63	.68	2.84	23.		.6	15	0	1008A 1033A	FC 32
205	1/12	Brown	38.9	33.54	.67	2.84	22.		.6	14	0	835A 856A	FC 10
206	1/13	"	39.0	33.84	.68	2.84	23.		.6	14	0	812A 832A	"
207	1/14	DeVore	39.3	33.35	.66	2.84	22.		.6	15	0	925A 951A	FC 32
208	1/15	Brown	42.6	64.94	1.27	3.34	82.		.6	15	+.12	806A 830A	FC 10
209	1/15	"	59.7	98.83	2.38	4.00	233.		.6	13	+.21	1008A 1034A	"
210	1/15	"	62.2	117.1	2.79	4.20	326.		.6	13	+.15	1053A 1130A	"
211	1/15	"	63.2	125.6	3.09	4.48	384.		.6	14	+.31	1134A 1203P	"
212	1/15	"	53.5	112.6	3.04	4.55	343.		.6	11	-.18	110P 142P	FC 29
213	1/15	Cooper-Brown	53.0	103.6	3.15	4.33	326.		.6	10	-.14	156P 220P	"
214	1/15	" "	52.0	95.05	2.82	4.20	268.		.6	10	-.10	225P 252P	"
215	1/15	Brown-Cooper	59.0	104.5	2.72	4.10	285.		.6	12	-.06	302P 320P	FC 11
216	1/16	Brown	41.7	54.25	1.51	3.27	78.		.6	14	-.01	1002A 1026A	"
217	1/17	Brown	40.3	43.53	1.25	3.12	54.		.6	14	0	918A 937A	FC 11
218	1/18	"	40.0	40.20	1.18	3.06	47.		.6	14	0	847A 908A	"
219	1/19	"	40.0	39.81	1.13	3.04	45.		.6	14	0	857A 917A	"
220	1/20	"	39.6	38.11	1.09	3.02	42.		.6	14	0	916A 938A	FC 18
221	1/21	DeVore	39.8	37.11	1.00	2.98	37.		.6	14	0	1003A 1025A	FC 32
222	1/22	"	39.6	36.12	.98	2.97	35.		.6	15	0	1020A 1045A	"
223	1/23	Brown	39.4	35.47	.95	2.96	34.		.6	14	0	803A 825A	FC 18
224	1/24	"	39.2	35.29	.97	2.94	34.		.6	14	0	809A 831A	"
225	1/25	"	38.9	34.21	.92	2.94	31.		.6	14	0	856A 915A	"
226	1/26	"	39.0	33.98	.92	2.93	31.		.6	14	0	843A 904A	"
227	1/27	"	39.0	33.98	.88	2.92	30.		.6	14	0	946A 1006A	"
228	1/28	DeVore	39.3	33.28	.92	2.91	31.		.6	14	0	1001A 1025A	FC 32
229	1/29	DeVore-Brown	39.5	34.52	.91	2.94	31.		.6	14	0	144P 202P	FC 18
230	1/30	Brown	39.0	33.69	.87	2.92	29.		.6	14	0	1010A 1030A	"
231	1/31	"	39.0	33.33	.84	2.91	28.		.6	14	0	819A 839A	"
232	2/1	"	62.0	116.3	2.92	4.26	341.		.6	13	-.05	737A 758A	"
233	2/1	"	57.0	93.60	2.51	3.94	235.		.6	12	-.07	921A 939A	"
234	2/2	"	41.3	50.52	1.40	3.22	71.		.6	14	0	803A 824A	"
235	2/3	"	42.3	57.77	1.59	3.34	92.		.6	14	+.05	911A 931A	"
236	2/3	"	55.5	70.60	2.07	3.58	146.		.6	14	+.09	1103A 1124A	"
237	2/3	"	57.0	90.62	2.53	3.88	230.		.6	12	+.08	1235P 1253P	"
238	2/3	"	59.0	163.9	4.34	5.29	711.		.6	11	+.26	637P 715P	"
239	2/3	Brown-Ash	59.0	166.2	4.71	5.43	783.		.6	11	-.14	915P 945P	"
240	2/3	" "	58.0	154.3	4.49	5.24	693.		.6	11	-.16	1005P 1025P	"
241	2/4	Brown	57.5	151.9	4.34	5.21	659.		.6	11	-.04	843A 907A	FC 18
242	2/4	"	55.0	124.0	3.80	4.71	471.		.6	11	-.04	1130A 1147A	"
243	2/4	Brown-Ash	65.6	142.6	3.63	4.74	512.		.6	13	-.03	212P 229P	"
244	2/4	" "	62.0	119.8	3.47	4.38	412.		.6	13	-.02	557P 616P	"
245	2/5	Brown	56.5	89.14	2.58	3.88	228.		.6	12	-.01	949A 1015A	"
246	2/6	"	53.5	71.14	2.21	3.60	156.		.6	14	-.01	927A 948A	"
247	2/7	"	54.0	64.62	1.91	3.46	122.		.6	14	0	815A 836A	"
248	2/8	"	52.8	60.40	1.81	3.40	108.		.6	14	0	804A 825A	"
249	2/9	"	53.6	71.09	2.23	3.60	157.		.6	12	0	1048A 1106A	"
250	2/9	"	55.0	75.75	2.29	3.67	172.		.6	12	+.02	1219P 1237P	"
251	2/9	Brown-Ash	56.3	89.17	2.66	3.89	235.		.6	12	+.01	234P 251P	"
252	2/9	" "	56.4	88.51	2.73	3.90	239.		.6	15	0	316P 338P	"
253	2/9	" "	55.9	83.93	2.47	3.80	205.		.6	12	-.01	524P 537P	"
254	2/9	" "	55.4	83.07	2.47	3.79	203.		.6	15	0	633P 655P	"
255	2/10	Brown	55.2	77.71	2.33	3.72	179.		.6	14	-.01	948A 1010A	"
256	2/11	"	65.0	134.0	3.60	4.60	478.		.6	13	+.31	1207P 1228P	"
257	2/11	Brown-Ash	77.0	294.6	6.00	6.96	1770.		.6	9	+.55	150P 223P	"
258	2/11	" "	78.0	300.6	6.27	7.19	1890.		.6	9	-.12	240P 302P	"
259	2/11	" "	71.0	267.9	5.79	6.92	1550.		.6	11	-.27	321P 349P	"
260	2/11	" "	65.5	231.9	5.35	6.45	1240.		.6	12	-.24	430P 455P	"
261	2/11	" "	63.0	209.8	5.34	6.16	1120.		.6	12	-.19	515P 537P	"
262	2/11	" "	59.0	168.3	4.67	5.41	786.		.6	11	-.10	812P 828P	"
263	2/11	" "	58.5	154.8	4.62	5.26	715.		.6	11	-.10	908P 928P	"
264	2/11	" "	56.0	143.8	4.41	5.12	633.		.6	11	-.07	1005P 1026P	"
265	2/11	Brown-Ash	55.5	139.6	4.36	5.06	608.		.6	11	-.05	1053P 1117P	FC 18
266	2/12	Brown-Penrod	59.5	125.8	3.59	4.46	447.		.6	13	-.01	1111A 1126A	"
267	2/13	Brown	56.5	100.1	2.93	4.05	291.		.6	14	-.01	804A 822A	"
268	2/14	"	55.4	88.81	2.53	3.83	223.		.6	15	-.01	757A 816A	"
269	2/15	"	54.8	81.02	2.34	3.72	188.		.6	15	-.01	810A 834A	"
270	2/16	"	43.0	72.38	2.18	3.62	156.		.6	14	0	821A 841A	"
271	2/17	"	42.5	68.68	2.08	3.54	141.		.6	14	0	1042A 1102A	"
272	2/18	Cooper	53.8	67.84	1.97	3.48	132.		.6	12	0	1145A 1215P	FC 11
273	2/19	DeVore	42.5	67.94	2.13	3.53	143.		.6	15	0	116P 138P	FC 18
274	2/20	Brown	42.1	65.06	1.96	3.46	127.		.6	14	0	958A 1018A	"
275	2/21	"	42.0	63.33	1.86	3.43	117.		.6	14	0	845A 904A	"
276	2/22	"	41.9	62.59	1.84	3.41	114.		.6	14	0	806A 826A	"
277	2/23	"	41.8	61.82	1.78	3.39	109.		.6	14	0	822A 841A	"
278	2/24	"	41.7	61.09	1.81	3.38	109.		.6	14	0	825A 847A	"
279	2/25	DeVore	52.4	59.94	1.71	3.35	102.		.6	13	0	310P 331P	"
280	2/26	DeVore-DeVore	41.8	59.64	1.68	3.34	99.		.6	15	0	1103A 1123A	FC 11
281	2/27	Brown-Middleton	42.4	65.10	2.00	3.45	129.		.6	14	+.02	946A 1001A	FC 29
282	2/27	" "	44.2	79.11	2.65	3.77	199.		.6	16	+.04	223P 243P	FC 18
283	2/28	" "	64.0	203.5	5.13	6.09	1040.		.6	12	+.24	752A 814A	"
284	2/28	" "	69.5	237.2	5.32	6.54	1260.		.6	11	+.25	836A 904A	"
285	2/28	" "	71.5	253.3	5.59	6.70	1420.		.6	9	+.11	918A 936A	"
286	2/28	" "	74.0	255.5	5.77	6.79	1480.		.6	12	+.14	955A 1027A	"
287	2/28	" "	76.5	276.1	6.04	7.02	1670.		.6	11	+.14	1050A 1125A	"
288	2/28	" "	78.0	288.7	6.04	7.18	1740.		.6	13	+.08	1156A 1219P	"

F. C. D. Form 104 IM 9-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. P 3 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~Near~~ 2 miles above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Current Met.	METH OD	WEAR SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
289	2/28	Brown-Middleton	78.0	287.5	5.77	7.16	1660.		.6	12	-.03	1234P 100P	FC 18
290	2/28	" "	77.5	286.5	5.78	7.16	1650.		.6	12	-.03	125P 152P	"
291	2/28	" "	77.0	276.5	5.76	7.08	1610.		.6	12	-.04	219P 240P	"
292	2/28	" "	75.0	267.3	6.04	7.05	1610.		.6	12	0	306P 336P	"
293	2/28	Brown-Ash	71.5	244.2	6.12	6.62	1500.		.6	13	-.04	646P 711P	"
294	2/28	" "	71.0	236.4	5.95	6.53	1410.		.6	13	+.01	742P 820P	"
295	2/28	" "	71.5	237.9	6.12	6.52	1460.		.6	12	+.07	843P 909P	"
296	2/28	" "	78.5	292.8	6.64	7.16	1940.		.6	11	+.48	942P 1004P	"
297	3/1	Brown-Middleton	74.5	271.2	7.86	6.99	2130.		.6	13	-.04	724A 741A	FC 29
298	3/1	" "	68.5	214.7	6.96	6.28	1490.		.6	13	-.03	1235P 1256P	"
299	3/1	" "	66.0	186.3	7.42	6.05	1380.		.6	12	-.04	403P 421P	"
299 A 2	3/10	Brown-Anderson	41.0	70.20	9.59		673.		.6	9		445P 500P	"
299 A 3	3/14	Brown-Ash	42.5	92.50	10.10		936.		.6	11		1148A 1210P	"
299 A 4	3/15	" "	39.0	111.9	8.60		962.		.6	13		934A 1013A	"
299 A 5	3/16	" "	34.5	94.33	7.33		691.		.6	10		934A 1005A	"
299 A 6	3/17	" "	35.0	98.40	6.86		674.		.6	11		1001A 1034A	"
299 A 7	3/19	Brown-Penrod	34.5	95.38	7.55		720.		.6	11		1020A 1041A	"
299 A 8	3/20	Brown	34.5	92.10	7.23		666.		.6	11		918A 1000A	"
299 A 9	3/21	Brown-Ash	34.5	85.10	7.83		666.		.6	11		909A 934A	"
299 A10	3/22	" "	35.0	93.60	8.07		755.		.6	11		1050A 1119A	"
299 A11	3/23	" "	34.0	90.65	7.38		669.		.6	11		1154A 1223P	FC 10
299 A12	3/24	" "	35.0	87.10	7.78		678.		.6	11		1006A 1034A	FC 29
299 A13	3/25	" "	35.0	85.05	7.65		651.		.6	11		949A 1020A	"
299 A14	3/26	Brown-Ash	35.0	83.00	7.52		624.		.6	10		916A 945A	FC 29
299 A15	3/27	Cooper-Brown	Four Channels				528.		.6			1146A 103P	"
299 A16	3/28	Brown-Ash	Five Channels				490.		.6			910A 1025A	"
299 A17	3/29	" "	Five Channels				493.		.6			906A 1007A	"
299 A18	3/31	" "	67.0	93.08	4.24		390.		.6	17		947A 1012A	"
299 A19	4/1	" "	65.5	92.33	3.63		332.		.6	17		946A 1011A	"
299 A20	4/2	" "	65.2	89.20	3.71		331.		.6	17		1029A 1051A	FC 10
299 A21	4/3	Brown-Cooper	Two Channels				351.		.6			1000A 1030A	FC 29
299 A22	4/4	Brown	64.2	85.42	3.68		312.		.6	17		140P 210P	"
300	4/5	Brown-Handt	65.5	88.54	3.61	15.65	317.		.6	17	0	232P 255P	"
301	4/6	" "	64.5	88.08	3.45	15.64	304.		.6	17	0	921A 950A	"
302	4/7	" "	63.4	80.75	3.31	15.50	265.		.6	17	-.09	129P 152P	"
303	4/8	Cooper-Handt	42.5	57.32	4.15	15.45	237.		.6	9		1130A 1152A	FC 11
304	4/11	Brown	33.6	51.39	3.46	15.16	176.		.6	9	0	347P 400P	FC 29
305	4/12	Brown-Handt	33.0	50.25	3.73	15.16	186.		.6	11	0	215P 228P	"
306	4/13	" "	34.2	49.93	3.66	15.19	181.		.6	11	0	910A 921A	"
307	4/14	" "	33.5	51.30	3.65	15.16	186.		.6	11	0	905A 920A	FC 29
308	4/15	Cooper	29.0	40.69	3.84	15.12	155.		.6	10		240P 300P	FC 11
309	4/16	Brown-Handt	29.5	44.12	3.84	15.12	168.		.6	13	0	1045A 1102A	FC 29
310	4/17	Brown	29.2	43.53	3.77	15.10	163.		.6	14	0	845A 906A	"
311	4/18	Brown-Handt	29.2	42.34	3.78	15.08	158.		.6	14	0	900A 915A	"
312	4/19	" "	28.9	42.66	3.62	15.06	153.		.6	14	0	1000A 1018A	"
313	4/20	" "	29.3	42.31	3.55	15.04	149.		.6	14	0	910A 925A	"
314	4/21	Brown	29.3	43.66	3.41	15.02	147.		.6	14	0	946A 908A	FC 29
315	4/22	Cooper-Cooper	28.7	39.92	3.57	15.00	141.		.6	13	0	1030A 1052A	FC 11
316	4/23	DeVore	Two Channels			14.95	132.		.6	17	0	253P 325P	"
317	4/24	Brown	29.2	41.16	3.44	14.98	140.		.6	14	0	940A 900A	FC 29
318	4/25	"	29.5	42.69	3.45	15.00	146.		.6	14	0	803A 825A	"
319	4/26	"	29.4	42.66	3.48	14.99	147.		.6	14	0	859A 921A	"
320	4/27	"	29.2	41.98	3.29	14.97	137.		.6	14	0	847A 908A	"
321	4/28	Brown-Cooper	35.8	52.95	2.23	14.91	117.		.6	15	-.01	302P 324P	FC 10
322	4/29	Cooper	36.3	54.58	2.43	14.96	131.		.5	14	+.01	1000A 1025A	FC 11
323	4/30	DeVore	36.4	53.01	2.29	14.96	120.		.6	12	0	241P 301P	FC 26
324	5/1	Brown-Cooper	36.7	55.95	2.36	14.94	130.		.6	16	0	1050A 1052A	FC 29
325	5/2	Brown	36.6	55.87	2.34	14.94	130.		.6	16	-.01	846A 910A	"
326	5/3	"	36.4	55.26	2.27	14.91	124.		.6	16	0	904A 926A	"
327	5/4	"	36.4	52.68	2.21	14.85	116.		.6	16	0	1207P 1229P	"
328	5/5	"	36.4	50.49	2.30	14.86	115.		.6	16	0	837A 900A	"
329	5/6	DeVore-Cooper	36.0	46.37	2.34	14.79	108.		.6	15		212P 234P	FC 11
330	5/7	DeVore	34.9	38.47	2.99	14.72	115.		.6	12	-.01	112P 130P	"
331	5/8	Brown	35.4	40.33	2.87	14.77	114.		.6	16	0	834A 900A	FC 29
332	5/9	"	35.7	40.70	2.75	14.77	111.		.6	16	0	628A 652A	"
333	5/10	"	35.6	40.37	2.63	14.76	105.		.6	16	0	908A 930A	"
334	5/11	"	35.5	40.22	2.63	14.75	106.		.6	16	0	1007A 1028A	"
335	5/12	"	35.2	39.95	2.60	14.73	103.		.6	16	0	845A 907A	"
336	5/13	Cooper	34.0	37.94	2.57	14.71	96.		.6	14	-.01	900A 925A	FC 11
337	5/14	DeVore-DeVore	34.0	37.92	2.42	14.68	92.		.6	12	0	117P 132P	"
338	5/15	Brown	34.6	39.30	2.64	14.71	102.		.6	15	0	832A 853A	FC 29
339	5/16	"	34.6	38.41	2.62	14.71	100.		.6	15	0	851A 913A	"
340	5/17	"	34.7	39.09	2.58	14.72	100.		.6	15	0	835A 857A	"
341	5/18	"	34.7	38.87	2.58	14.69	100.		.6	15	0	908A 929A	"
342	5/19	"	34.7	38.64	2.56	14.68	99.		.6	15	0	900A 925A	FC 11
343	5/20	Cooper-and Middleton	35.0	38.07	2.48	14.69	94.		.6	15	0	935A 1005A	"
344	5/20	Middleton-and Cooper	35.0	38.45	2.44	14.68	94.		.6	15	0	911A 935A	"
345	5/21	Middleton-and Brown	34.0	37.28	2.44	14.67	91.		.6	15	0	836A 856A	FC 29
346	5/22	Brown	34.0	37.54	2.53	14.66	95.		.6	15	0	903A 925A	"
347	5/23	"	34.0	37.32	2.57	14.64	96.		.6	15	0	853A 915A	"
348	5/24	"	34.0	36.9	2.49	14.62	92.		.6	15	0	843A 905A	"
349	5/25	"	33.9	36.8	2.47	14.60	91.		.6	15	0	825A 844A	"
350	5/26	"	33.8	36.0	2.48	14.59	89.		.6	15	0	925A 955A	"
351	5/27	Middleton	34.0	35.6	2.54	14.58	90.		.6	16	0	855A 916A	"
352	5/28	Middleton-and Brown	34.0	34.4	2.38	14.59	82.		.6	15	0	940A 1000A	"
353	5/28	Brown-and Middleton	34.0	35.9	2.46	14.59	88.		.6	16	0	826A 848A	"
354	5/29	Brown	33.8	36.0	2.53	14.58	91.		.6	15	0	900A 920A	FC 11
355	5/30	Cooper-Cooper	33.2	34.2	2.43	14.56	83.		.6	13	-.01	815A 835A	FC 29
356	5/31	Brown	33.5	34.8	2.44	14.56	85.		.6	15	0	1213P 1234P	"
357	6/1	"	33.3	34.0	2.41	14.52	82.		.6	15	-.01	915A 935A	"
358	6/2	Brown-and Middleton	33.2	33.7	2.43	14.54	82.		.6	15	0	937A 957A	FC 11
359	6/2	" "	33.2	33.9	2.38	14.54	81.		.6	15	-.01	847A 915A	FC 29
360	6/3	Middleton	33.2	33.6	2.39	14.52	80.		.6	15	0	842A 910A	FC 29
361	6/4	Middleton	33.3	34.0	2.38	14.51	79.		.6	15	0	852A 915A	"
362	6/5	Brown	33.2	32.9	2.38	14.50	78.		.6	15	0	805A 830A	"
363	6/6	"	33.2	33.2	2.38	14.50	79.		.6	15	0	900A 920A	"
364	6/7	"	33.2	33.2	2.30	14.50	76.		.6	15	0	854A 915A	"
365	6/8	"	33.2	33.4	2.35	14.50	78.		.6	15	0	844A 905A	"
366	6/9	"	33.3	33.6	2.37	14.50	80.		.6	15	0	915A 935A	FC 11
367	6/10	Middleton and Cooper	33.3	33.5	2.36	14.51	79.		.6	15	0	906A 925A	FC 29
368	6/11	Middleton and Brown	33.3	34.8	2.36	14.51	82.		.8	15	0	849A 910A	"
369	6/12	Brown	33.3	33.3	2.33	14.50	78.		.6	15	0	812A 834A	"
370	6/13	"	33.3	33.4	2.34	14.50	78.		.6	15	0	824A 845A	"
371	6/14	"	33.1	33.0	2.26	14.48	75.		.6	15	0	845A 905A	"
372	6/15	"	33.1	32.9	2.24	14.47	74.		.6	15	0	850A 915A	"
373	6/16	Middleton	33.2	34.1	2.31	14.46	79.		.6	15	0	910A 930A	"
374	6/17	Middleton and Brown	33.1	32.1	2.21	14.46	71.		.6	15	0	839A 900A	"
375	6/18	Brown	33.1	32.9	2.24	14.46	74.		.6	15	0	848A 910A	"
376	6/19	"	33.1	32.9	2.19	14.46	72.		.6	15	0	855A 915A	"
377	6/20	"	33.2	32.7	2.22	14.47	72.		.6	15	0	856A 916A	"
378	6/21	"	33.1	32.5	2.19	14.47	71.		.6	15	0	838A 900A	"
379	6/22	"	33.1	32.3	2.21	14.46	71.		.6	15	0	853A 914A	"
380	6/23	"	33.0	32.5	2.18	14.44	71.		.6	15	0	1100A 1120A	FC 11
381	6/24	Cooper	32.9	30.4	2.14	14.42	65.		.6	14	0	838A 856A	FC 29
382	6/25	Brown	33.0	32.3	2.16	14.42	70.		.6	15	0	830A 850A	"
383	6/26	"	33.0	32.1	2.15	14.41	69.		.6	15	0	837A 856A	"
384	6/27	"	32.9	31.5	2.10	14.41	66.		.6	15	0		"

F. C. D. FORM 104 IM 8-56

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 3 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~At~~ 2 miles above Forks

DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Factor Sec.	METH OD	MEAS. REGR. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
385	6/28	Brown	32.9	31.0	2.14	14.40	66.		.6	15	0	833A 853A	FC 29
386	6/29	"	32.9	32.1	2.13	14.41	68.		.6	15	0	855A 916A	"
387	6/30	"	32.9	31.8	2.09	14.40	66.		.6	15	0	834A 855A	"
388	7/1	Cooper	32.5	30.4	2.07	14.40	63.		.6	11	0	730A 746A	FC 11
389	7/2	Middleton-Cooper	33.0	31.3	2.08	14.40	65.		.6	15	0	920A 940A	FC 29
390	7/3	Middleton	32.8	31.1	2.02	14.40	63.		.6	15	0	840A 912A	"
391	7/4	"	32.8	31.5	1.95	14.40	62.		.6	15	0	830A 855A	"
392	7/5	"	32.8	31.6	2.01	14.40	64.		.6	15	0	946A 1010A	"
393	7/6	Cooper	32.8	31.0	2.11	14.40	65.		.6	15	0	1025A 1045A	"
394	7/7	"	32.5	31.0	2.07	14.39	64.		.6	15	0	925A 945A	"
395	7/8	"	32.5	30.9	1.95	14.38	60.		.6	15	0	1005A 1025A	"
396	7/9	"	36.9	49.6	3.07	14.99	152.		.6	16	0	915A 945A	"
397	7/10	Middleton	36.8	49.6	2.97	15.00	147.		.6	16	0	940A 1012A	"
398	7/11	"	36.8	49.4	2.88	15.00	142.		.6	16	0	1037A 1107A	"
399	7/12	"	36.8	50.2	2.85	14.99	143.		.6	16	-.01	828A 855A	"
400	9/27	"	27.0	11.8	1.76	9.42	21.		.6	14	0	1015A 1035A	"
401	9/28	"	20.5	10.6	1.81	9.36	19.		.6	11	-.04	948A 1007A	"
402	9/29	DeVore	24.4	9.40	1.83	9.34	17.		.6	14	0	208P 224P	"
403	9/30	"	24.9	10.3	1.73	9.34	18.		.6	14	0	1127A 1145A	"

F. C. D. FORM 104 IM 8-56

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

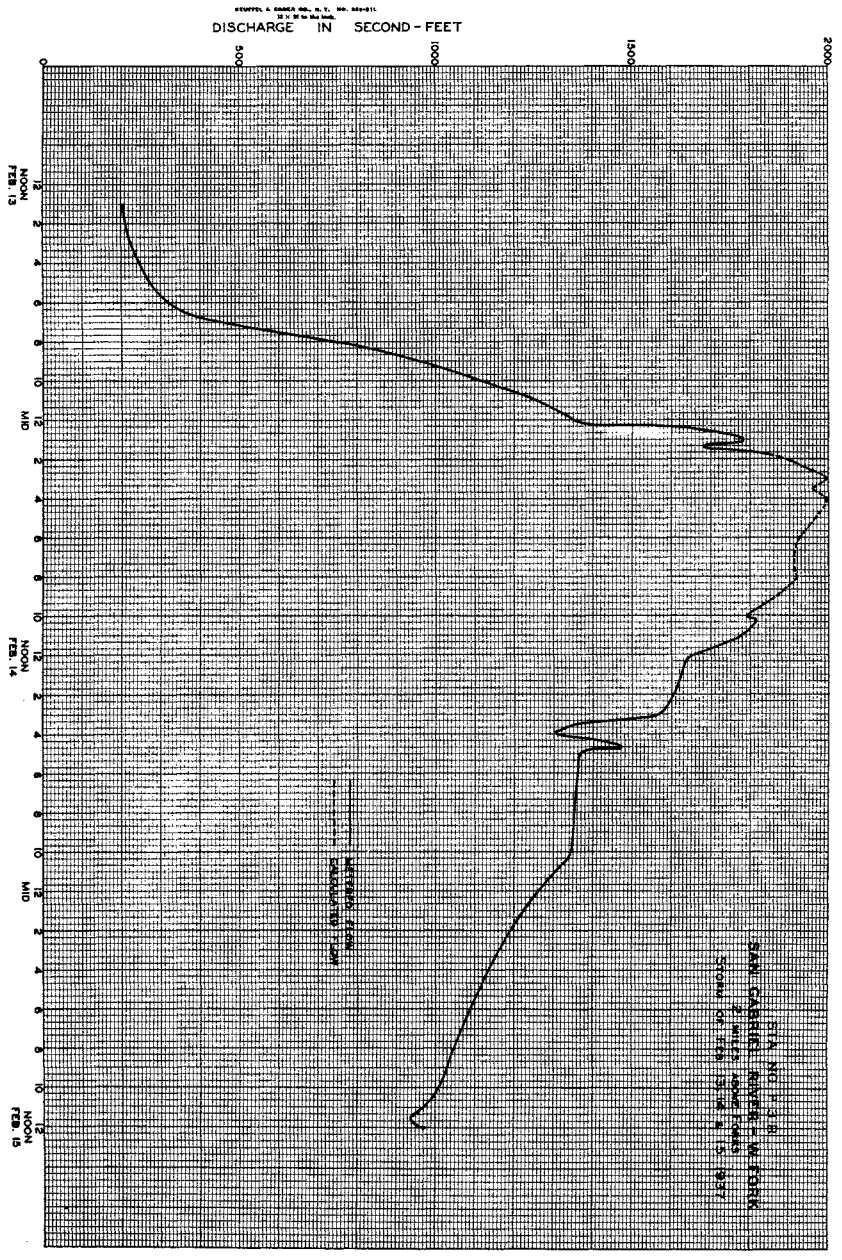
STATION NO. F 3 R-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~At~~ 400 ft. below North Fork

DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Factor Sec.	METH OD	MEAS. REGR. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	7/13	Middleton	37.1	35.1	3.89	15.82	136.		.6	17	0	910A 940A	FC 29
2	7/14	Cooper	48.0	41.1	3.78	15.96	156.		.6	15	0	1005A 1030A	"
3	7/15	Cooper-Fuller	48.0	41.2	3.74	15.93	154.		.6	15	-.01	928A 950A	"
4	7/16	Middleton	37.6	36.8	4.10	15.91	151.		.6	15	0	902A 934A	"
5	7/17	"	48.2	44.9	3.30	15.89	148.		.6	16	0	830A 905A	"
6	7/18	"	48.2	43.4	3.39	15.87	147.		.6	14	0	833A 902A	"
7	7/19	"	48.2	42.6	3.65	15.90	156.		.6	14	0	838A 905A	"
8	7/19	"	43.4	43.9	3.24	15.84	142.		.6	14	0	348P 416P	"
9	7/19	"	43.4	43.5	3.24	15.84	141.		.6	14	0	546P 610P	"
10	7/20	"	43.6	43.0	3.26	15.86	140.		.6	14	+.01	746A 814A	"
11	7/20	"	43.6	42.7	3.28	15.86	140.		.6	14	0	943A 1011A	"
12	7/20	"	43.6	43.8	3.20	15.84	140.		.6	14	0	1145A 1211P	"
13	7/20	"	43.6	43.8	3.15	15.82	138.		.6	14	0	345P 412P	"
14	7/20	"	43.6	43.6	3.16	15.83	138.		.6	14	0	147P 213P	"
15	7/21	Brown	43.3	43.4	3.39	15.83	147.		.6	15	-.01	918A 940A	"
16	7/22	"	44.8	48.1	3.83	16.25	184.		.6	15	0	845A 912A	"
17	7/23	Middleton	44.9	49.5	3.69	16.29	183.		.6	15	+.01	840A 906A	"
18	7/24	"	44.6	48.2	3.74	16.20	180.		.6	15	0	835A 901A	"
19	7/25	"	44.9	47.8	3.69	16.12	177.		.6	15	0	848A 912A	"
20	7/26	"	36.7	26.03	1.92	14.63	50.		.6	14	0	944A 1006A	"
21	7/27	Brown	36.4	25.3	1.76	14.59	44.		.6	14	0	914A 934A	"
22	7/28	"	36.7	25.8	1.76	14.57	45.		.6	14	0	909A 929A	"
23	7/29	"	36.2	25.0	1.77	14.54	44.		.6	14	0	847A 907A	"
24	7/30	Middleton	36.2	24.7	1.81	14.53	45.		.6	14	0	830A 848A	"
25	7/31	Middleton	36.2	23.6	1.84	14.53	44.		.6	14	0	817A 835A	FC 29
26	8/1	"	45.2	48.2	4.14	16.20	200.		.6	15	0	830A 858A	"
27	8/2	"	48.0	50.9	3.71	16.20	189.		.6	15	0	845A 906A	"
28	8/3	"	48.0	51.0	3.68	16.17	188.		.6	15	0	835A 905A	"
29	8/4	Cooper	48.5	56.5	4.11	16.37	232.		.6	16	0	935A 1035A	"
30	8/5	"	50.0	59.2	4.42	16.53	262.		.6	16	0	303P 330P	"
31	8/6	Middleton-and Middleton	50.0	60.9	4.13	16.50	252.		.6	15	0	920A 945A	"
32	8/7	Middleton	50.5	63.1	4.25	16.59	268.		.6	15	0	817A 855A	"
33	8/8	Middleton-and Brown	50.5	65.1	4.34	16.61	282.		.6	16	+.22	1020A 1045A	"
34	8/9	Middleton	50.5	64.8	4.08	16.55	265.		.6	15	0	854A 930A	"
35	8/10	"	50.0	61.6	3.88	16.39	239.		.6	15	-.01	950A 1002A	"
36	8/11	Cooper-DeVore	49.6	56.0	3.28	16.15	184.		.6	16	-.02	218P 241P	"
37	8/12	Cooper	48.0	54.9	3.23	15.98	177.		.6	15	0	1020A 1045A	"
38	8/13	Middleton	47.4	51.4	3.01	15.74	155.		.6	15	-.01	850A 912A	FC 11
39	8/14	"	47.3	47.2	2.77	15.53	131.		.6	15	-.01	903A 929A	FC 29
40	8/15	"	46.0	42.3	2.41	15.25	102.		.6	14	0	902A 926A	"
41	8/16	Middleton-and Cooper	50.5	68.1	4.49	16.79	306.		.6	16	0	1000A 1025A	"
42	8/17	Middleton	45.5	37.3	2.77		103.		.6	14		1048A 1112A	"
43	8/18	Cooper	21.0	21.3	2.66	14.65	57.		.6	11	0	210P 240P	"
44	8/19	Cooper-DeVore	20.8	19.3	2.28	14.64	44.		.6	11	0	255P 314P	"
45	8/20	Middleton	20.8	20.3	2.08	14.63	42.		.6	11	0	937A 950A	"
46	8/21	"	19.5	14.3	2.75	14.60	39.		.6	10	0	224P 244P	"
47	8/22	"	19.0	14.9	2.61	14.59	39.		.6	11	0	928A 948A	"
48	8/23	Middleton	19.1	13.0	2.81	14.54	36.		.6	11	0	940A 1002A	FC 29
49	8/24	"	20.0	12.5	2.50	14.50	31.		.6	11	0	1040A 1058A	FC 29
50	8/25	DeVore	19.1	11.8	2.57	14.45	30.		.6	11	0	341P 359P	"
51	8/26	"	19.5	12.8	2.43	14.48	31.		.6	11	0	1049A 1105A	"
52	8/27	Middleton	19.5	12.9	2.42	14.44	31.		.6	11	0	1048A 1110A	"
53	8/28	"	19.3	12.3	2.45	14.43	30.		.6	11	0	1004A 1024A	"
54	8/29	"	19.5	13.5	2.33	14.44	31.		.6	11	0	1002A 1020A	"
55	8/30	"	20.7	13.1	2.53	14.47	33.		.6	12	0	920A 938A	"
56	8/31	"	20.5	12.3	2.66	14.50	33.		.6	11	0	1004A 1025A	"
57	9/1	DeVore	19.5	11.5	2.53	14.43	29.		.6	11	0	150P 205P	"
58	9/2	"	19.1	11.8	2.48	14.43	28.		.6	11	0	219P 237P	"
59	9/3	Middleton	19.4	13.1	2.24	14.43	29.		.6	11	0	915A 933A	"
60	9/4	"	20.0	12.2	2.14	14.34	26.		.6	11	0	140P 210P	"
61	9/5	"	20.3	12.7	2.37	14.43	30.		.6	11	0	123P 140P	"
62	9/6	DeVore	20.0	11.4	3.10	14.53	35.		.6	11	0	400P 414P	"
63	9/7	Middleton	20.0	11.7	2.39	14.40	28.		.6	11	0	1030A 1048A	"
64	9/8	DeVore	20.6	12.6	1.93	14.38	24.		.6	11	-.01	331P 355P	"
65	9/9	"	20.0	13.3	2.15	14.39	29.		.6	11	0	1121A 1135A	"
66	9/10	Middleton	20.0	12.6	2.06	14.36	26.		.6	10	0	1035A 1053A	"
67	9/11	"	20.0	12.9	2.01	14.35	26.		.6	11	-.01	1005A 1025A	"
68	9/12	"	20.0	12.5	2.07	14.36	26.		.6	11	0	925A 941A	"
69	9/13	"	20.0	12.2	2.04	14.35	25.		.6	11	0	1026A 1044A	"
70	9/14	"	20.0	11.6	2.20	14.35	26.		.6	11	0	1058A 1114A	"
71	9/15	DeVore	19.7	12.5	1.98	14.36	25.		.6	11	0	1058A 1112A	"
72	9/16	DeVore	19.7	13.4	1.72	14.35	23.		.6	11	0	1118A 1130A	FC 29
73	9/17	Middleton	19.7	11.4	2.02	14.35	23.		.6	11	0	939A 956A	"
74	9/18	"	19.7	12.2	2.12	14.39	26.		.6	11	0	902A 918A	"
75	9/19	"	19.7	11.7	2.11	14.37	25.		.6	11	0	1028A 1046A	"
76	9/20	"	19.7	12.0	2.01	14.34	24.		.6	11	0	1002A 1022A	"
77	9/21	"	19.5	12.0	2.06	14.33	25.		.6	11	0	1020A 1041A	"
78	9/22	DeVore	20.5	12.2	2.03	14.34	25.		.6	11	0	1127A 1141A	"
79	9/23	"	20.5	12.3	2.00	14.33	24.		.6	11	0	131P 144P	"
80	9/24	Middleton	20.4	12.0	1.98	14.32	24.		.6	11	0	948A 1005A	"
81	9/25	"	20.4	12.0	1.98	14.31	24.		.6	11	0	820A 835A	"
82	9/26	"	20.2	11.6	2.09	14.31	24.		.6	11	0	937A 954A	"



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. P3R

Daily discharge, in second-feet of SAN GABRIEL RIVER--W. FORK 2 miles above Forks, for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.5	23	8.5	158	101	263	378	219	140	56	47	26
2	3.9	12	9	117	91	257	385	216	133	54	44	17
3	4.2	9.5	21	101	88	254	364	213	133	53	45	17
4	3.9	12	36	91	84	248	350	204	195	53	37	15
5	3.9	18	13	95	88	236	342	204	374	33	36	15
6	3.5	12	12	117	513	230	336	204	350	52	44	15
7	3.1	9.5	12	101	576	225	326	202	303	50	44	15
8	3.1	7	12	93	329	225	322	199	309	50	44	15
9	2.9	12	11	84	284	225	306	196	295	50	42	14
10	2.9	9	11	78	239	225	284	193	90	48	42	13
11	2.7	9	10	75	219	222	281	187	84	47	41	13
12	2.9	9	11	80	207	435	278	184	80	47	41	13
13	3.1	9	11	78	387	851	272	182	80	47	40	16
14	2.9	8	12	73	1640	520	272	179	78	47	41	16
15	3.3	7	159	70	1010	490	272	174	75	47	44	15
16	3.9	7	212	66	613	761	272	168	73	45	42	15
17	7.5	7	134	61	406	580	263	168	73	47	41	14
18	13	7	67	59	370	533	257	168	71	45	44	13
19	38	6.5	44	58	350	483	254	168	68	44	45	13
20	15	7	37	54	332	457	251	168	66	42	44	14
21	10	8	32	52	332	439	251	165	64	42	35	15
22	9.5	8.5	28	52	319	485	248	165	64	41	35	15
23	8.5	9	23	52	303	442	245	165	63	39	32	15
24	9.5	9	19	52	306	439	236	163	61	37	31	14
25	7	8.5	29	53	322	424	233	163	63	37	30	13
26	6.5	8.5	23	52	294	410	236	163	63	35	29	12
27	12	8.5	423	52	281	412	236	158	63	32	26	13
28	6.5	8.5	266	52	269	399	230	158	61	32	35	13
29	7	9	117	66		381	225	158	58	37	34	14
30	9.5	9	173	142		374	219	158	56	45	36	15
31	19		362	133		378		152		45	35	
	2322	287.0	2337.5	2467	10353	12303	8424	5564	3686	1399	1206	443
Mean	7.49	9.57	75.4	79.6	370	397	281	179	123	45.1	38.9	14.8
Acre-Feet	461	569	4640	4890	20530	24400	16710	11040	7310	2770	2390	879

Remarks:

Year or Period Mean 133
Acre-Feet 96590

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. P3R

Daily discharge, in second-feet of SAN GABRIEL RIVER -W. FORK 2 miles above Forks, for the year ending September 30, 19 38

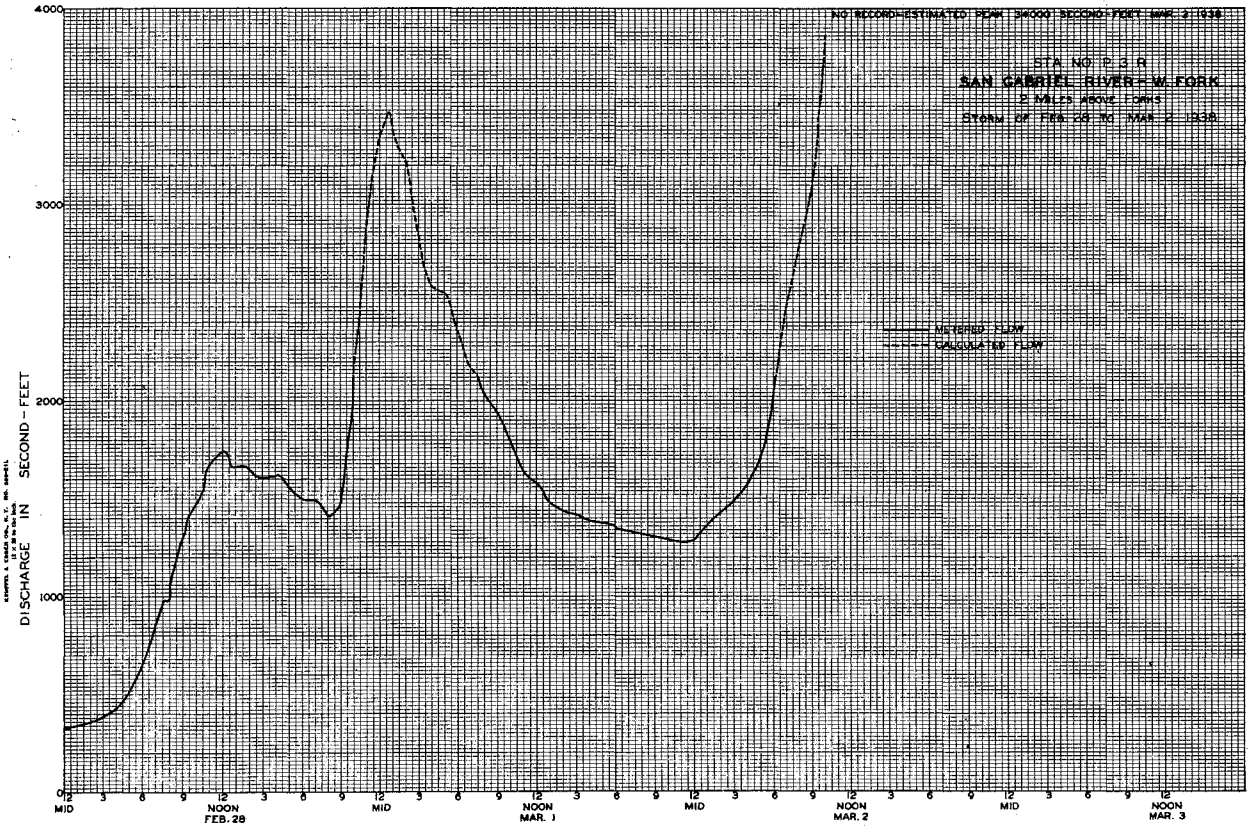
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	15	15	17	28	136		330	126	82	63	194	30
2	16	14	17	28	69		330	130	80	63	188	29
3	16	14	18	27	322		320	120	80	62	219	29
4	17	14	17	26	448		315	119	78	60	232	27
5	16	14	17	26	231		320	112	77	61	248	30
6	16	15	17	25	131		302	112	77	64	267	34
7	15	16	17	24	117		276	115	76	62	266	29
8	15	15	17	24	102		241	109	78	104	270	25
9	14	15	17	23	166		212	108	80	148	260	28
10	14	15	22	23	181		180	103	80	144	230	26
11	14	16	57	23	598		177	102	81	141	189	26
12	14	16	68	23	441		186	101	77	148	170	26
13	14	16	57	23	280		186	94	76	144	150	25
14	15	17	38	23	218		182	94	73	154	122	25
15	17	17	29	165	179		164	100	73	153	200	25
16	15	17	27	80	156		164	100	75	148	280	23
17	15	17	25	55	139		158	100	70	146	69	24
18	14	17	24	47	139		156	100	72	148	55	25
19	14	17	24	45	151		152	98	72	149	46	25
20	13	17	23	41	126		150	93	72	141	42	24
21	13	17	22	39	115		144	91	69	151	40	25
22	13	17	22	36	111		140	93	69	187	39	25
23	13	16	93	35	108		135	93	68	182	36	25
24	14	17	29	33	106		146	90	66	177	32	24
25	13	17	25	32	102		150	89	68	152	30	24
26	13	18	39	31	100		142	88	66	49	31	24
27	13	17	52	30	197		132	87	65	44	31	21
28	13	17	39	30	1310		122	85	66	44	30	19
29	14	17	34	32			130	88	67	43	32	18
30	14	17	31	29			124	82	65	58	33	16
31	14		29	27				84		121	32	
	447	484	923	1153	6439	57700	5066	3106	2198	3511	4053	756
Mean	14.4	16.1	29.8	36.5	232	1860	196	100	73.3	113	131	25.2
Acre-Feet	887	960	1830	2250	12890	114400	11640	6160	4360	6960	8060	1500

Remarks:

Year or Period Mean 237
Acre-Feet 171900

Transmitted by Transmissometer from Station P3R

Total acc. ft. days est. from rec. at Sta. P3R and inflow to San Gabriel Dam #1



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.
Channel and control conditions improved on November 30, 1936 and June 8, 1937.
Communication to stilling well poor at various times due to channel shifts.
Channel condition radically changed by large debris deposits following flood of March 2, 1938.

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 Au continuous recorder in service from October 1, 1936 to September 30, 1938.

REGULATION:

None.

DIVERSIONS:

Some water diverted for placer mining.

RECORDS AVAILABLE:

November 30, 1932 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 2180 second-feet February 14.
Minimum 8.5 second-feet October 7.
1937-1938
Maximum 46000 second-feet, estimated, by U.S.G.S., March 2.
Minimum 20 second-feet several times.
1932-1938
Maximum 46000 second-feet, estimated by U.S.G.S., March 2, 1938.
Minimum 1.5 second-feet October 1, 1934.

ACCURACY:

Good.
Estimated:
November 30 to December 2, 1936; March 29, June 8-11, 1937; March 2 to April 23, 1938.
Communication trouble February 16, 17; March 14, 1937.

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.

F. C. D. FORM 104 7M 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. P 4 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - E. FORK

~~At~~ 2 miles above Forks

DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Eqlog Percent Dif.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	DeVore-DeVore	17.0	9.70	1.03	0.53	10.		.6	10	0	725A 743A	FC 38
2	10/8	DeVore	17.0	9.92	1.04	0.53	10.		.6	10	0	752A 811A	"
3	10/15	DeVore-DeVore	17.0	9.68	1.00	0.52	9.7		.6	10	0	809A 824A	"
4	10/17	DeVore	19.0	14.00	1.44	0.72	20.		.6	11	0	736A 758A	"
5	10/21	DeVore-DeVore	19.2	13.36	1.32	0.69	18.		.6	10	0	804A 819A	"
6	10/22	" "	19.1	13.22	1.29	0.66	17.		.6	10	0	826A 841A	"
7	10/29	" "	18.5	12.14	1.15	0.60	14.		.6	12	0	802A 821A	"
8	10/31	" "	19.3	15.88	1.68	0.82	27.		.6	11	+.01	145P 200P	FC 11
9	11/5	" "	19.0	12.96	1.34	0.66	17.		.6	10	0	733A 745A	FC 38
10	11/12	" "	18.5	12.76	1.20	0.63	15.		.6	11	0	909A 919A	"
11	11/19	" "	18.5	11.81	1.00	0.60	12.		.6	11	0	813A 833A	"
12	11/25	DeVore	19.0	14.64	1.28	0.70	19.		.6	10	0	1035A 1052A	"
13	12/3	DeVore-DeVore	39.7	20.47	.83	2.34	17.		.6	13	0	854A 917A	"
14	12/10	" "	24.2	13.88	1.17	2.35	16.		.6	13	0	844A 904A	"
15	12/14	" "	21.0	19.31	1.14	2.46	22.		.6	12	+.02	1122A 1144A	"
16	12/15	" "	24.5	27.11	1.77	2.74	48.		.6	11	-.05	606A 628A	"
17	12/15	" "	40.0	39.62	2.80	3.04	111.		.6	14	-.01	842A 908A	"
18	12/15	" "	40.0	40.75	2.58	3.02	105.		.6	14	-.02	1234P 1255P	"
19	12/15	" "	41.2	42.35	2.79	3.10	118.		.6	14	+.02	321P 346P	"
20	12/15	" "	50.0	55.55	2.69	3.28	155.		.6	11	+.03	517P 539P	"
21	12/16	" "	82.0	122.6	2.93	3.54	360.		.6	16	+.03	1210A 1255A	"
22	12/16	DeVore	77.5	84.92	3.59	3.35	305.		.6	15	-.04	710A 801A	"
23	12/16	DeVore-DeVore	50.5	65.98	3.86	3.26	255.		.6	12	0	1030A 1059A	"
24	12/16	" "	50.5	59.09	3.44	3.13	203.		.6	12	-.02	104P 126P	"
25	12/16	DeVore	50.5	51.95	2.91	3.03	151.		.6	12	-.02	425P 450P	FC 38
26	12/16	"	47.5	48.75	3.09	2.92	151.		.6	11	-.01	817P 839P	"
27	12/17	DeVore-DeVore	48.0	34.24	2.82	2.72	97.		.6	19	-.02	836A 916A	"
28	12/23	" "	33.2	21.33	1.75	2.40	37.		.6	16	0	826A 851A	"
29	12/25	DeVore	33.4	22.07	1.73	2.42	38.		.6	11	-.01	830A 853A	"
30	12/27	DeVore-DeVore	37.7	38.34	3.04	2.78	117.		.6	13	+.11	755A 824A	"
31	12/27	" "	50.0	56.94	3.37	3.11	192.		.6	13	+.14	952A 1018A	"
32	12/27	" "	50.0	55.72	3.35	3.12	186.		.6	13	-.05	1123A 1146A	"
33	12/27	" "	47.0	50.03	3.29	2.94	164.		.6	13	-.06	345P 403P	"
34	12/28	" "	50.0	53.96	4.27	3.22	273.		.6	13	+.06	133A 155A	"
35	12/28	" "	47.0	44.75	3.41	2.78	153.		.6	13	-.01	848A 916A	"
36	12/28	DeVore	46.0	41.34	3.14	2.68	130.		.6	13	-.01	1223P 1247P	"
37	12/28	"	46.0	38.68	3.03	2.63	118.		.6	13	-.02	351P 414P	"
38	12/29	"	45.0	32.01	2.65	2.46	85.		.6	12	-.01	900A 924A	"
39	12/30	DeVore-DeVore	34.5	27.93	2.56	2.36	66.		.6	14	0	906A 927A	FC 29
40	12/30	" "	77.0	93.86	4.45	3.52	417.		.6	14	+.20	952P 1025P	"
41	12/30	" "	77.0	97.36	4.75	3.74	462.		.6	15	+.20	1051P 1103P	"
42	12/31	" "	85.0	118.9	6.74	3.98	801.		.6	14	-.09	1211A 1245A	"
43	12/31	" "	85.0	113.4	6.52	3.82	740.		.6	14	-.09	1255A 126A	"
44	12/31	" "	83.0	93.0	6.09	3.26	566.		.6	16	-.15	307A 335A	"
45	12/31	" "	59.0	56.22	4.42	2.74	249.		.6	13	0	1003A 1026A	"
46	1/1	DeVore	43.0	35.19	3.69	2.50	130.		.6	10	0	403P 422P	"
47	1/6	DeVore-DeVore	43.5	33.31	3.35	2.44	112.		.6	15	-.01	800A 825A	FC 38
48	1/7	DeVore	34.5	26.13	3.30	2.30	86.		.6	13	0	900A 925A	"
49	1/9	DeVore-DeVore	34.5	24.92	3.08	2.25	77.		.6	13	0	827A 847A	FC 38
50	1/12	" "	34.2	23.92	2.71	2.24	65.		.6	13	0	835A 853A	"
51	1/13	" "	34.6	25.25	2.95	2.26	74.		.6	13	0	824A 842A	"
52	1/14	DeVore	34.6	24.07	2.72	2.24	66.		.6	13	0	821A 846A	"
53	1/21	"	34.3	22.46	2.76	2.21	62.		.6	13	0	853A 913A	"
54	1/28	DeVore-DeVore	22.0	22.34	2.45	2.18	55.		.6	15	0	851A 913A	"
55	1/29	" "	22.4	25.08	3.02	2.28	76.		.6	13	0	751A 810A	"
56	1/29	" "	22.5	25.13	2.74	2.24	69.		.6	14	0	419P 439P	"
57	1/30	" "	22.6	29.90	3.40	2.37	102.		.6	14	+.04	330P 351P	"
58	1/30	" "	22.6	33.14	4.33	2.50	144.		.6	11	+.05	452P 512P	"
59	1/30	" "	55.0	49.48	4.11	2.65	204.		.6	13	-.09	724P 743P	"
60	1/30	" "	55.5	50.58	3.79	2.62	192.		.6	14	-.01	753P 810P	"
61	2/4	DeVore	22.6	26.36	3.22	2.42	85.		.6	14	0	758A 826A	"
62	2/6	DeVore-DeVore	54.0	40.70	3.65	2.54	148.		.6	13	+.01	739A 756A	"
63	2/6	" "	56.0	50.47	4.18	2.61	211.		.6	12	+.02	946A 1003A	"
64	2/6	" "	56.0	53.36	4.33	2.68	231.		.6	12	+.01	1033A 1049A	"
65	2/6	" "	60.5	66.58	4.58	2.75	305.		.6	13	+.07	1143A 1205P	"
66	2/6	" "	84.0	95.65	5.25	3.29	502.		.6	16	+.23	200P 225P	"
67	2/6	" "	84.0	98.85	5.35	3.53	528.		.6	16	+.23	227P 257P	"
68	2/6	" "	87.0	127.8	6.24	3.95	797.		.6	17	+.33	332P 425P	"
69	2/6	" "	90.0	175.2	7.01	4.26	1220.		.6	10	+.03	623P 702P	"
70	2/6	" "	90.0	169.3	7.25	4.28	1230.		.6	10	+.03	704P 730P	"
71	2/6	" "	94.0	180.3	8.07	4.37	1460.		.6	10	-.14	907P 930P	"
72	2/6	" "	94.0	178.1	7.83	4.22	1400.		.6	10	-.14	935P 954P	"
73	2/6	DeVore-DeVore	94.0	158.6	7.85	3.87	1090.		.6	13	-.16	1117P 1145P	FC 38
74	2/6 2/7	" "	94.0	145.6	7.32	3.71	1060.		.6	10	-.16	1146P 1205A	"
75	2/7	" "	96.0	160.0	7.53	3.52	1200.		.6	14	+.14	324A 352A	"
76	2/7	" "	96.0	166.8	7.54	3.67	1260.		.6	11	+.14	400A 422A	"
77	2/7	" "	93.0	157.9	7.27	3.50	1150.		.6	19	0	757A 838A	"
78	2/7	" "	93.0	148.0	6.60	3.49	997.		.6	19	-.02	1204P 1234P	"
79	2/8	" "	92.0	97.99	6.28	3.15	614.		.6	18	-.02	850A 926A	"
80	2/9	" "	93.0	74.75	5.62	2.96	420.		.6	15	0	845A 914A	"
81	2/10	" "	92.0	68.56	5.19	2.74	324.		.6	14	-.01	839A 902A	"
82	2/11	" "	79.2	71.61	4.27	2.64	306.		.6	17	+.08	817A 847A	"
83	2/13	DeVore	95.0	151.4	6.10	3.47	924.		.6	11	+.10	948P 1020P	"
84	2/13	"	96.0	159.3	6.87	3.57	1100.		.6	11	+.10	1025P 1057P	"
85	2/14	"	96.0	183.1	7.60	3.79	1390.		.6	11	+.02	1222A 1246A	"
86	2/14	"	96.0	172.4	7.80	3.81	1350.		.6	11	+.02	1248A 117A	"
87	2/14	"	96.0	213.9	8.68	3.90	1860.		.6	11	+.04	354A 406A	"
88	2/14	"	96.0	202.2	7.63	3.87	1540.		.6	11	-.02	700A 735A	"
89	2/14	"	96.0	192.1	7.57	3.64	1450.		.6	11	0	1215P 1241P	"
90	2/15	"	95.0	137.5	7.87	3.16	1080.		.6	11	0	958A 1023A	"
91	2/15	"	95.0	133.05	7.64	3.07	1020.		.6	19	0	150P 233P	"
92	2/17	"	Two	Channels		2.16	625.		.6	19	0	950A 1047A	"
93	2/18	DeVore-DeVore	Two	Channels		1.89	586.		.6	18	-.01	850A 931A	"
94	2/19	" "	Two	Channels		1.72	504.		.6	16	0	929A 1037A	"
95	2/24	" "	58.0	81.88	4.31	1.36	353.		.6	14	0	909A 933A	"
96	2/25	" "	Two	Channels		1.37	373.		.6	13	-.01	851A 1007A	"
97	3/2	DeVore-DeVore	58.0	67.86	4.02	1.16	273.		.6	14	0	816A 838A	FC 38
98	3/3	" "	58.0	68.85	3.64	1.15	250.		.6	16	0	729A 802A	"
99	3/5	" "	58.0	67.50	4.08	1.14	276.		.6	15	0	839A 902A	"
100	3/6	DeVore	58.0	67.84	3.96	1.13	268.		.6	15	0	805A 834A	"
101	3/11	DeVore-DeVore	59.5	81.32	3.09	1.09	252.		.6	16	0	850A 920A	"
102	3/12	DeVore	Two	Channels		1.48	402.		.6		+.03	1046A 1104A	"
103	3/12	"	Two	Channels		1.50	404.		.6		+.03	1106A 1120A	"
104	3/12	"	Two	Channels		1.60	406.		.6	12	+.01	1252P 123P	"
105	3/12	"	Two	Channels		1.65	427.		.6	12	+.02	228P 253P	"
106	3/12	"	Two	Channels		1.76	474.		.6	12	+.02	534P 601P	"
107	3/12	DeVore-DeVore	Two	Channels		1.85	618		.6	12	+.02	853P 918P	"
108	3/13	" "	Two	Channels		1.95	651.		.6	12	-.01	130A 157A	"
109	3/13	" "	Two	Channels		2.79	1170.		.6	16	-.14	629A 701A	"
110	3/13	" "	Two	Channels		2.56	1190.		.6	16	-.11	805A 836A	"
111	3/13	" "	Two	Channels		2.46	1140.		.6	16	-.11	836A 911A	"
112	3/13	" "	Two	Channels		2.12	910.		.6	15	-.07	1108A 1152A	"
113	3/14	DeVore	Two	Channels		1.37	530.		.6	10	0	1114A 1142A	"
114	3/16	DeVore-DeVore	Two	Channels		1.95	985.		.6	16	+.02	117A 151A	"
115	3/16	" "	Two	Channels		1.96	1030.		.6	16	-.01	151A 212A	"
116	3/16	" "	Two	Channels		1.76	772.		.6		-.03	748A 809A	"
117	3/16	" "	Two	Channels		1.61	829.		.6		0	145P 207P	"
118	3/17	" "	Two	Channels		1.39	578.		.6	10	0	928A 945A	"
119	3/18	" "	Two	Channels		1.28	691.		.6	16	-.01	824A 901A	"
120	3/20	DeVore	48.0	85.50	6.64	1.05	568		.6	10	0	919A 955A	FC 38
121	3/21	DeVore-DeVore	47.0	79.35	5.07	0.98	402.		.6	10	0	1240P 117P	FC 38
122	3/22	DeVore	47.0	79.20	7.14	1.04	566.		.6	11	0	1117A 1141A	"
123	3/24	"	46.0	81.9	5.80	0.87	476.		.6	11	0	727A 750A	FC 38
124	3/25	"	46.0	73.9	5.70	0.84	425.		.6	10	0	935A 956A	"

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 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
125	3/30	"	46.0	70.8	5.15	0.98	365.		.6	10	0	718A 744A	"
126	4/1	DeVore-DeVore	46.0	68.0	4.87	0.97	332.		.6	11	0	820A 838A	"
127	4/8	" "	45.0	68.75	4.69	0.92	322.		.6	10	0	856A 921A	"
128	4/15	" "	46.0	69.43	5.07	0.95	352.		.6	16	0	846A 916A	"
129	4/22	" "	45.5	67.29	4.49	0.92	302.		.6	16	0	849A 918A	"
130	4/24	" "	45.5	63.9	4.49	0.87	287.		.6	16	0	824A 849A	"
131	4/29	" "	59.0	68.08	3.92	0.79	267.		.6	16	0	944A 1015A	"
132	5/1	" "	59.0	67.92	3.87	0.77	262.		.6	16	0	914A 945A	"
133	5/6	DeVore	59.0	69.13	3.65	.80	252.		.6	16	0	746A 817A	"
134	5/13	"	66.0	85.01	2.89	.82	246.		.6	15	-.01	953A 1026A	"
135	5/20	"	65.0	76.28	2.66	.66	203.		.6	15	0	951A 1021A	"
136	5/27	"	64.0	72.24	2.46	.56	178.		.6	15	0	900A 931A	"
137	6/3	"	61.5	68.22	2.24	.44	153.		.6	14	0	912A 937A	"
138	6/8	"	62.0	67.36	2.00	.37	134.		.6	13	0	811A 838A	"
139	6/10	DeVore-Cooper	67.0	68.35	1.81	1.92	124.		.6	15	-.01	849A 911A	"
140	6/17	DeVore	55.5	54.40	1.81	2.75	99.		.6	14	0	845A 912A	"
141	6/24	"	34.0	43.77	2.23	2.66	98.		.6	12	0	1007A 1032A	"
142	7/1	"	36.0	45.45	1.96	2.60	89.		.6	13	0	918A 944A	"
143	7/3	"	36.0	43.58	1.90	2.58	83.		.6	13	0	718A 742A	"
144	7/8	"	35.5	43.73	1.81	2.53	79.		.6	13	0	824A 849A	"
145	7/9	DeVore	35.5	42.50	1.78	2.52	76.		.6	12	0	749A 811A	FC 32
146	7/15	"	35.1	41.72	1.70	2.46	71.		.6	12	0	954A 1018A	"
147	7/22	"	35.0	38.98	1.35	2.37	53.		.6	12	0	829A 849A	"
148	7/24	"	34.5	38.65	1.58	2.35	61.		.6	12	0	728A 751A	"
149	7/29	"	34.0	37.13	1.40	2.30	52.		.6	13	0	745A 810A	"
150	7/31	"	34.3	37.23	1.31	2.30	49.		.6	17	0	1115A 1148A	"
151	8/4	Brown	32.4	36.25	1.33	2.23	48.		.6	16	0	111P 130P	FC 10
152	8/8	"	32.5	35.21	1.26	2.22	44.		.6	16	0	926A 950A	"
153	8/10	"	32.0	31.52	1.29	2.16	41.		.6	16	0	345P 410P	"
154	8/12	"	32.0	32.29	1.31	2.18	42.		.6	16	0	1000A 1022A	"
155	8/15	"	31.9	31.87	1.28	2.17	41.		.6	16	0	1000A 1023A	"
156	8/19	DeVore	31.6	30.94	1.26	2.14	39.		.6	16	0	903A 932A	FC 32
157	8/26	"	32.2	30.13	1.10	2.10	33.		.6	12	0	812A 833A	"
158	9/2	"	31.6	29.39	1.06	2.07	31.		.6	13	0	752A 813A	"
159	9/4	"	31.8	27.54	1.07	2.03	30.		.6	12	0	328P 346P	"
160	9/8	"	31.5	27.86	1.08	2.04	30.		.6	13	0	730A 752A	"
161	9/16	Cooper	31.0	30.65	.79	1.97	24.		.6	11	0	435P 455P	FC 11
162	9/20	DeVore-DeVore	31.0	26.80	1.06	2.00	28.		.6	16	0	955A 1018A	FC 32
163	9/22	Brown-Cooper	31.8	29.57	.87	2.00	26.		.6	15	0	312P 332P	FC 11
164	9/30	DeVore-DeVore	31.0	26.30	1.01	2.00	27.		.6	16	0	734A 755A	FC 32

F. C. D. FORM 104 7M 6-50

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 38

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
165	10/1	DeVore-DeVore	31.0	26.3	1.02	2.00	27.		.6	13	0	719A 737A	FC 32
166	10/2	" "	31.0	25.8	.95	1.99	25.		.6	12	0	855A 910A	"
167	10/6	" "	31.0	26.2	.96	1.99	25.		.6	12	0	753A 811A	"
168	10/7	" "	31.0	25.8	.96	1.98	25.		.6	12	0	800A 818A	"
169	10/8	DeVore	31.0	25.9	.96	1.97	25.		.6	12	0	801A 821A	"
170	10/9	DeVore-DeVore	31.0	26.0	.98	1.96	26.		.6	16	0	659A 721A	"
171	10/10	" "	31.0	26.2	.95	1.96	25.		.6	16	0	724A 746A	"
172	10/12	" "	31.0	25.8	.94	1.95	24.		.6	16	0	832A 852A	"
173	10/14	" "	31.0	25.8	.92	1.95	24.		.6	16	0	654A 715A	"
174	10/15	DeVore	31.0	26.7	.92	1.97	25.		.6	16	0	756A 823A	"
175	10/16	"	31.0	27.0	.94	1.97	25.		.6	16	0	821A 845A	"
176	10/19	"	31.0	26.4	.89	1.95	23.		.6	16	0	757A 822A	"
177	10/20	"	31.0	26.7	.86	1.94	23.		.6	16	0	745A 811A	"
178	10/21	DeVore-DeVore	31.0	26.6	.87	1.94	23.		.6	16	0	720A 740A	"
179	10/22	DeVore	31.0	26.6	.87	1.93	23.		.6	16	0	753A 819A	"
180	10/23	DeVore-DeVore	31.0	26.5	.84	1.93	22.		.6	16	0	710A 731A	"
181	10/26	" "	31.0	26.4	.86	1.93	23.		.6	16	0	822A 844A	"
182	10/27	" "	31.0	26.6	.85	1.93	23.		.6	16	0	820A 839A	"
183	10/28	" "	31.0	26.6	.84	1.93	22.		.6	16	0	827A 847A	"
184	10/29	" "	31.0	26.5	.83	1.93	22.		.6	16	0	829A 851A	"
185	10/30	" "	31.0	26.5	.84	1.93	22.		.6	16	0	754A 820A	"
186	11/2	DeVore	31.0	26.7	.83	1.94	22.		.6	16	0	826A 852A	"
187	11/3	DeVore-DeVore	31.0	26.8	.85	1.93	23.		.6	16	0	829A 850A	"
188	11/4	" "	31.0	26.7	.83	1.93	22.		.6	16	0	809A 829A	"
189	11/5	DeVore-DeVore	31.0	26.8	.82	1.93	22.		.6	16	0	814A 835A	FC 32
190	11/6	" "	31.0	26.9	.84	1.93	23.		.6	16	0	907A 929A	"
191	11/7	Brown	31.0	26.7	.83	1.95	22.		.6	16	0	842A 908A	FC 10
192	11/8	Brown-DeVore	31.0	27.4	.87	1.95	24.		.6	16	0	902A 921A	"
193	11/9	DeVore-DeVore	31.0	27.2	.85	1.95	23.		.6	16	0	829A 848A	FC 32
194	11/10	" "	31.0	27.1	.86	1.94	23.		.6	16	0	800A 820A	"
195	11/11	" "	31.0	26.3	.83	1.94	22.		.6	16	0	105P 128P	FC 34
196	11/12	" "	31.0	27.2	.87	1.94	24.		.6	16	0	809A 829A	FC 32
197	11/13	" "	31.0	27.2	.85	1.95	23.		.6	16	0	827A 847A	"
198	11/14	Brown	31.0	27.2	.81	1.95	22.		.6	16	0	909A 933A	FC 10
199	11/15	"	31.0	27.8	.81	1.95	23.		.6	16	0	857A 910A	"
200	11/16	DeVore-DeVore	31.0	27.4	.83	1.95	23.		.6	16	0	834A 854A	FC 32
201	11/17	DeVore	31.0	27.3	.83	1.94	23.		.6	16	0	826A 851A	"
202	11/18	"	31.0	27.5	.83	1.95	23.		.6	16	0	819A 844A	"
203	11/19	"	31.0	27.5	.82	1.95	23.		.6	16	0	827A 852A	"
204	11/20	"	31.0	27.5	.83	1.94	23.		.6	16	0	823A 849A	"
205	11/21	Brown	31.0	27.8	.78	1.94	22.		.6	16	0	857A 920A	FC 10
206	11/22	Brown-DeVore	31.0	27.5	.78	1.93	21.		.6	16	0	923A 945A	"
207	11/23	DeVore-DeVore	31.0	27.4	.79	1.93	22.		.6	16	0	840A 900A	FC 32
208	11/24	" "	31.5	27.9	.78	1.93	22.		.6	16	0	811A 835A	"
209	11/25	" "	31.5	28.6	.73	1.94	21.		.6	16	0	802A 821A	"
210	11/26	" "	31.5	28.6	.74	1.93	21.		.6	16	0	835A 856A	"
211	11/27	" "	31.5	28.7	.72	1.93	21.		.6	16	0	833A 854A	"
212	11/28	Brown	31.5	29.1	.70	1.93	20.		.6	16	0	850A 915A	FC 10
213	11/29	Brown	31.5	29.2	.72	1.93	21.		.6	16	0	913A 938A	FC 10
214	11/30	DeVore-DeVore	31.7	29.2	.69	1.93	20.		.6	16	0	827A 849A	FC 32
215	12/1	" "	31.8	29.5	.73	1.93	21.		.5	16	0	833A 855A	"
216	12/2	" "	31.7	29.4	.70	1.93	21.		.6	16	0	816A 837A	"
217	12/3	" "	31.7	28.7	.75	1.94	21.		.6	16	0	818A 839A	"
218	12/4	" "	31.7	28.9	.72	1.93	21.		.6	16	0	819A 840A	"
219	12/5	Brown	31.6	29.4	.68	1.94	20.		.6	16	0	902A 924A	FC 10
220	12/6	"	31.7	29.5	.69	1.94	20.		.6	16	0	927A 950A	"
221	12/7	DeVore-DeVore	31.7	29.1	.72	1.94	21.		.6	16	0	829A 851A	FC 32
222	12/8	" "	31.7	29.2	.70	1.94	21.		.6	16	0	844A 906A	"
223	12/9	" "	31.7	28.9	.70	1.94	20.		.6	16	0	816A 837A	"
224	12/10	" "	32.2	30.9	.84	2.02	26.		.6	16	0	824A 845A	"
225	12/11	DeVore	32.0	30.2	.78	1.99	24.		.6	16	0	816A 841A	"
226	12/11	DeVore-DeVore	35.0	42.0	1.44	2.42	61.		.6	12	+.01	834P 852P	"
227	12/11	" "	30.5	57.2	2.16	2.92	124.		.6	13	+.03	1013P 1037P	"
228	12/12	" "	36.8	46.1	1.73	2.57	80.		.6	13	-.02	721A 740A	"
229	12/12	" "	35.0	42.3	1.50	2.44	63.		.6	12	-.01	1146A 1208P	"
230	12/12	" "	34.6	40.5	1.37	2.36	55.		.6	12	-.01	335P 355P	"
231	12/13	Brown	33.5	36.3	1.09	2.22	40.		.6	16	0	943A 1005A	FC 10
232	12/14	DeVore	33.0	33.8	1.01	2.14	34.		.6	12	0	825A 844A	FC 32
233	12/15	"	32.8	32.6	.96	2.10	31.		.6	12	0	826A 845A	"
234	12/16	"	32.6	32.0	.93	2.07	30.		.6	16	0	833A 900A	"
235	12/17	"	32.6	31.4	.90	2.05	28.		.6	16	0	829A 855A	"
236	12/18	"	32.5	31.2	.87	2.03	27.		.6	16	0	847A 910A	"
237	12/19	Brown-Penrod	32.4	31.0	.86	2.02	27.		.6	16	0	927A 946A	FC 10
238	12/20	Brown	32.2	30.7	.75	2.01	23.		.6	16	0	934A 959A	"
239	12/21	DeVore-DeVore	32.6	30.9	.83	2.02	25.		.6	16	0	826A 847A	FC 32

F. C. D. FORM 104 RE 6-50

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. P 4 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - E. FORK

AT 2 miles above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	GAGE PUMPS RE.	METH OD	MEAS. RECS. NO.	G. HT. CHANGE TOTAL	RESIN END	METER NO.
240	12/22	" "	32.6	31.1	.81	2.09	25.		.6	16	0	836A 855A	"
241	12/23	" "	34.6	40.5	1.26	2.34	51.		.6	12	+.03	755A 812A	"
242	12/23	DeVore	34.6	39.6	1.32	2.35	52.		.6	12	-.02	1025A 1046A	"
243	12/23	"	33.8	37.3	1.14	2.24	42.		.6	12	0	4247 442P	"
244	12/24	DeVore-DeVore	33.2	34.4	1.04	2.15	36.		.6	12	0	728A 735A	"
245	12/26	" "	33.0	33.2	.93	2.09	31.		.6	16	0	1017A 1038A	"
246	12/26	Brown	32.8	33.8	.95	2.12	32.		.6	16	0	902A 925A	FC 10
247	12/26	DeVore-DeVore	33.6	37.3	1.16	2.24	43.		.6	16	0	452P 507P	FC 32
248	12/27	Brown	34.3	39.5	1.26	2.31	50.		.6	17	0	927A 952A	FC 10
249	12/28	DeVore-DeVore	33.5	36.9	1.12	2.22	41.		.6	16	0	829A 849A	FC 32
250	12/29	" "	33.3	35.2	1.05	2.16	37.		.6	16	0	828A 848A	"
251	12/30	" "	33.0	34.0	1.00	2.13	34.		.6	16	0	846A 913A	"
252	12/31	" "	32.9	33.8	.97	2.10	33.		.6	16	0	833A 853A	"
253	1/1	" "	32.9	33.3	.94	2.09	31.		.6	16	0	1116A 1135A	"
254	1/2	Brown	32.8	33.1	.90	2.09	30.		.6	16	0	956A 1017A	FC 10
255	1/3	"	32.8	33.2	.90	2.08	30.		.6	16	0	922A 946A	"
256	1/4	DeVore-DeVore	32.9	32.7	.91	2.07	30.		.6	16	0	837A 858A	FC 32
257	1/5	" "	32.9	32.5	.91	2.07	30.		.6	16	0	845A 904A	"
258	1/6	" "	32.8	32.1	.90	2.06	29.		.6	16	0	813A 833A	"
259	1/7	DeVore	32.7	32.1	.88	2.06	28.		.6	16	0	822A 846A	"
260	1/8	DeVore-DeVore	32.7	32.0	.85	2.04	27.		.6	16	0	814A 833A	"
261	1/9	Brown-Penrod	32.6	32.0	.84	2.03	27.		.6	16	0	903A 923A	FC 10
262	1/10	Brown	32.6	31.6	.84	2.02	27.		.6	16	0	940A 1002A	"
263	1/11	DeVore-DeVore	32.7	31.2	.82	2.02	26.		.6	16	0	858A 920A	FC 32
264	1/12	" "	32.7	31.2	.81	2.01	25.		.6	16	0	816A 834A	"
265	1/13	DeVore	32.6	31.0	.83	2.01	26.		.6	16	0	833A 857A	"
266	1/14	DeVore-DeVore	32.6	31.0	.83	2.01	26.		.6	16	0	819A 839A	"
267	1/15	" "	33.5	35.7	1.09	2.19	39.		.6	12	+.03	747A 803A	"
268	1/15	" "	35.0	44.1	1.53	2.52	68.		.6	12	+.13	1003A 1021A	"
269	1/15	" "	37.0	51.9	1.94	2.84	100.		.6	13	+.52	1032A 1053A	"
270	1/15	" "	40.0	68.4	2.65	3.20	181.		.6	10	+.23	1110A 1126A	"
271	1/15	" "	82.0	112.6	3.11	3.43	350.		.6	16	-.28	1212P 1240P	"
272	1/15	" "	81.5	95.8	3.65	3.24	350.		.6	16	+.04	114P 135P	"
273	1/15	" "	81.0	80.0	3.45	2.96	276.		.6	18	-.12	330P 355P	"
274	1/15	" "	39.5	72.5	3.46	2.74	251.		.6	11	-.07	437P 452P	"
275	1/16	" "	35.5	44.4	1.97	1.86	87.		.6	12	0	901A 919A	"
276	1/17	" "	34.1	38.1	1.62	1.61	62.		.6	12	0	838A 854A	"
277	1/18	" "	33.8	35.9	1.36	1.50	49.		.6	12	0	824A 840A	"
278	1/19	" "	33.6	35.3	1.37	1.48	48.		.6	17	0	824A 847A	"
279	1/20	" "	33.5	34.7	1.27	1.45	44.		.6	17	0	837A 900A	"
280	1/21	DeVore	33.1	33.6	1.25	1.40	41.		.6	17	0	824A 852A	"
281	1/22	DeVore-DeVore	33.0	32.7	1.19	1.38	37.		.6	16	0	813A 834A	"
282	1/23	Brown	32.5	32.6	1.08	1.36	35.		.6	17	0	900A 922A	FC 18
283	1/24	"	32.5	32.3	1.08	1.33	35.		.6	16	0	913A 936A	"
284	1/25	DeVore-DeVore	32.6	31.3	1.38	1.32	33.		.6	16	0	8411 901A	FC 32
285	1/26	DeVore	32.5	31.0	1.03	1.30	32.		.6	16	0	727A 751A	FC 32
286	1/27	"	32.4	30.4	1.01	1.29	31.		.6	16	0	829A 853A	"
287	1/28	"	32.4	30.1	1.01	1.29	30.		.6	16	0	827A 851A	"
288	1/29	"	32.8	31.7	1.07	1.33	34.		.6	16	0	817A 843A	"
289	1/30	Brown	32.2	31.2	.98	1.30	30.		.6	16	0	856A 919A	FC 18
290	1/31	"	32.3	30.9	.96	1.29	30.		.6	16	0	920A 942A	"
291	2/1	DeVore	36.6	50.4	2.27	2.04	11.5		.6	13	+.09	659A 722A	FC 32
292	2/1	"	36.9	52.2	2.36	2.10	123.		.6	13	-.02	807A 830A	"
293	2/2	"	34.0	38.6	1.61	1.61	62.		.6	12	0	902A 920A	"
294	2/3	DeVore-DeVore	34.1	39.0	1.54	1.61	60.		.6	17	+.02	745A 809A	"
295	2/3	" "	35.4	43.9	1.80	1.81	79.		.6	13	+.04	1119A 1136A	"
296	2/3	" "	36.4	49.4	2.18	2.01	108.		.6	12	+.04	129P 144P	"
297	2/3	" "	37.7	55.4	2.55	2.24	141.		.6	12	+.07	322P 340P	"
298	2/3	" "	38.4	62.0	3.00	2.46	186.		.6	13	+.11	414P 434P	"
299	2/3	" "	39.4	67.7	3.34	2.67	226.		.6	13	+.14	513P 531P	"

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	GAGE PUMPS RE.	METH OD	MEAS. RECS. NO.	G. HT. CHANGE TOTAL	RESIN END	METER NO.
300	2/3	" "	97.0	159.	3.10	3.28	494.		.6	17	+.15	818P 857P	"
301	2/3	" "	97.0	161.	3.29	3.39	529.		.6	17	+.09	900P 930P	"
302	2/3	" "	97.0	147.	4.04	3.37	594.		.6	18	-.14	1032P 1100P	"
303	2/3	" "	97.0	140.	3.82	3.25	536		.6	18	-.06	1105P 1135P	"
304	2/4	" "	77.5	83.4	3.40	2.54	283		.6	16	0	756A 821A	"
305	2/4	" "	40.0	75.6	3.77	2.50	285.		.6	10	-.01	1215P 1230P	"
306	2/4	" "	40.0	72.9	3.71	2.46	270.		.6	13	-.03	507P 530P	"
307	2/5	" "	39.0	60.9	3.13	2.08	191.		.6	13	-.01	903A 930A	"
308	2/5	" "	37.3	50.6	2.59	1.84	131.		.6	13	0	1154A 1213P	"
309	2/7	DeVore-DeVore	37.0	45.2	2.49	1.71	113.		.6	13	0	857A 916A	FC 32
310	2/8	" "	37.0	42.7	2.39	1.66	102.		.6	13	+.01	827A 844A	"
311	2/9	" "	37.5	46.0	2.79	1.82	128.		.6	13	+.02	804A 822A	"
312	2/9	" "	37.5	48.4	2.90	1.86	140.		.6	13	+.02	1134A 1151A	"
313	2/9	" "	38.3	55.7	3.10	2.00	173.		.6	13	0	317P 335P	"
314	2/9	" "	38.6	56.8	3.02	2.00	172.		.6	13	-.01	511P 527P	"
315	2/10	DeVore	38.9	56.6	3.41	2.05	193.		.6	13	0	826A 857A	"
316	2/11	DeVore-DeVore	38.4	54.2	3.18	1.97	173.		.6	13	+.01	748A 807A	"
317	2/11	" "	39.4	61.0	3.33	2.16	204.		.6	13	+.11	1211P 1229P	"
318	2/11	" "	98.0	137.	4.56	3.47	674.		.6	19	-.03	222P 250P	"
319	2/11	" "	98.0	140.	4.88	3.26	681.		.6	19	-.17	258P 321P	FC 32
320	2/11	" "	97.5	133.	5.90	3.16	782.		.6	18	-.04	345P 409P	"
321	2/11	" "	97.5	116.	5.98	3.14	693.		.6	18	+.01	413P 440P	"
322	2/11	" "	92.0	104.	4.98	2.42	519.		.6	18	-.08	826P 856P	FC 34
323	2/12	" "	Two Channels			2.19	367.		.6	15	+.02	758A 828A	"
324	2/13	" "	39.5	56.8	48.0	2.03	272.		.6	14	-.02	1228P 1250P	"
325	2/14	" "	39.4	52.8	4.42	1.96	233.		.6	13	0	913A 933A	"
326	2/15	" "	39.2	49.0	4.07	1.89	200.		.6	13	0	913A 931A	"
327	2/16	" "	38.9	46.2	3.86	1.86	178.		.6	13	0	855A 915A	"
328	2/17	DeVore	39.0	41.6	3.78	1.86	158.		.6	13	0	842A 904A	"
329	2/18	"	38.9	41.1	3.64	1.84	150.		.6	13	-.01	812A 833A	"
330	2/19	DeVore-DeVore	39.4	42.8	3.79	1.84	162.		.6	13	0	733A 751A	"
331	2/20	" "	39.4	40.8	3.58	1.82	146.		.6	13	0	739A 756A	"
332	2/21	Brown	39.2	38.1	3.76	1.82	143.		.6	17	+.01	1028A 1053A	FC 18
333	2/22	Brown	38.2	39.0	3.62	1.81	140.		.6	13	-.01	931A 950A	FC 18
334	2/23	DeVore	38.9	37.2	3.57	1.80	133.		.6	13	0	820A 842A	FC 34
335	2/24	DeVore-DeVore	38.8	37.2	3.57	1.79	133.		.6	13	0	756A 814A	"
336	2/25	" "	38.8	37.8	3.64	1.79	138.		.6	13	0	818A 836A	"
337	2/26	DeVore	38.8	36.7	3.60	1.79	132.		.6	13	0	733A 755A	"
338	2/27	DeVore-DeVore	39.2	39.7	3.76	1.82	149.		.6	13	+.01	926A 944A	"
339	2/27	" "	39.4	43.7	4.01	1.88	175.		.6	13	-.01	1129A 1146A	"
340	2/27	" "	39.8	48.1	4.35	1.92	210.		.6	14	+.01	425P 443P	"
341	2/28	DeVore	96.0	126.	5.37	2.90	677.		.6	16	+.21	714A 750A	FC 32
342	2/28	"	98.0	156.	6.15	3.19	959.		.6	17	+.09	815A 849A	"
343	2/28	"	97.5	167.	7.05	3.06	1180.		.6	17	-.05	948A 1025A	"
344	2/28	"	98.0	165.	7.61	2.83	1260.		.6	17	-.24	1028A 1052A	"
345	2/28	DeVore-DeVore	98.0	175.	8.19	2.33	1430.		.6	17	-.26	1154A 1233P	FC 32 FC 34
346	2/28	DeVore	98.0	204.	6.43	2.31	1310.		.6	16	+.22	1236P 104P	"
347	2/28	DeVore-DeVore	97.5	202.	7.50	2.78	1520.		.6	11	+.07	345P 405P	"
348	2/28	" "	97.0	216.	7.75	2.70	1670.		.6	12	-.07	508P 528P	"
349	3/1	" "	116.	290.	14.41	3.45	4180.		.6	11	+.30	118A 155A	"
350	3/1	" "	123.	348.	13.38	4.01	4660.		.6	8	-.34	314A 338A	"
351	3/1	" "	125.	253.	9.92	2.46	2510.		.6	16	0	937A 1005A	"
352	3/1	" "	126.	256.	8.48	2.54	2180.		.6	15	-.08	1132A 1200N	"
353	3/2	" "	Two Channels			2.16	1920.		.6	15	+.23	720A 756A	"
354	3/2	DeVore	201.	1180.	18.01	6.88	21300		.6	8	+.76	220P 243P	"
355	3/3	DeVore-DeVore	Two Channels			5.61	4650.		.6	16	-.02	1053A 1118A	"
356	3/4	" "	Two Channels			6.68	2742.		.6	16	+.06	1017A 1050A	"
357	3/5	DeVore-DeVore	Two Channels			7.21	3050.		.6	18	+.01	944A 1014A	FC 34
358	3/6	DeVore	Three Channels			7.45	1480.		.6	18	-.04	445P 522P	"
359	3/7	DeVore-DeVore	Two Channels			7.18	1160.		.6	16	0	1116A 1145A	FC 32
360	3/8	DeVore	Three Channels			7.00	1120.		.6	18	-.05	841A 1008A	"
361	3/9	DeVore-DeVore	Three Channels			6.86	894.		.6	20	+.03	1053A 1131A	"
362	3/10	" "	Two Channels			6.60	736.		.6	17	+.01 -.01	911A 943A	"
363	3/11	" "	Two Channels			6.68	685.		.6	13	0	904A 921A	"
364	3/12	" "	Two Channels			7.60	2100.		.6	17	-.15	757A 823A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. P 4 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - E. FORK

~~XX~~ 2 miles above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Auto Record Sht.	METHOD	MEAN SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
365	3/12	" "	Three Channels	7.90	2330.		.6	19	-.13	1108A 1134A	"
366	3/13	" "	Three Channels	7.51	1850.		.6	17	+.02	1033A 1058A	"
367	3/14	" "	Two Channels	6.08	1340.		.6	17	+.02	412P 437P	"
368	3/15	" "	Two Channels	6.20	1200.		.6	17	0	429P 454P	"
369	3/16	" "	Two Channels	6.42	1010.		.6	21	+.01	926A 1011A	"
370	3/17	DeVore	Three Channels	6.64	931.		.6	21	-.02	1100A 1152A	"
371	3/18	DeVore-DeVore	Three Channels	6.71	837.		.6	24	-.02	1022A 1110A	"
372	3/19	" "	Two Channels	6.97	744.		.6	18	-.02	1010A 1052A	"
373	3/20	" "	Two Channels	7.36	714.		.6	25	-.10	422P 458P	"
374	3/21	DeVore	Four Channels	6.75	630.		.6	19	+.12	651A 812A	"
375	3/22	"	Three Channels	6.38	588.		.6	15	+.05	515P 550P	FC 34
376	3/23	"	Three Channels	6.45	545.		.6	17	0	936A 1032A	"
377	3/24	"	Four Channels	7.04	522.		.6	28	0	904A 1050A	FC 32
378	3/25	"	Three Channels	7.00	581.		.6	19	-.14	901A 1000A	"
379	3/26	"	Three Channels	6.88	529.		.6	26	-.04	910A 1024A	"
380	3/27	DeVore-DeVore	Three Channels	6.88	448.		.6	28	+.01	1137A 1249P	"
381	3/28	DeVore-DeVore	Three Channels	6.76	434.		.6	21	-.07	1025A 1110A	FC 34
382	3/29	" "	Two Channels	6.88	421.		.6	16	-.04	950A 1039A	"
383	3/30	DeVore	Two Channels	6.45	371.		.6	15	0	949A 1033A	"
384	3/31	DeVore-DeVore	Three Channels	6.82	349.		.6	35	+.08	830A 944A	"
385	4/1	" "	Two Channels	6.58	375.		.6	15	+.01	840A 937A	"
386	4/2	" "	Two Channels	6.19	346.		.6	13	-.04	847A 927A	"
387	4/3	" "	Two Channels	6.41	347.		.6	14	0	1111A 1135A	"
388	4/4	DeVore	Two Channels	6.28	344.		.6	13	-.01	537P 613P	"
389	4/5	DeVore-DeVore	Two Channels	6.29	355.		.6	13	-.02	935A 955A	"
390	4/6	" "	Two Channels	6.24	327.		.6	12	-.01	933A 1006A	"
391	4/7	" "	Two Channels	6.14	333.		.6	10	-.01	954A 1006A	"
392	4/8	" "	Two Channels	6.10	324.		.6	10	0	858A 911A	"
393	4/9	" "	Two Channels	6.49	309.		.6	13	0	933A 959A	"
394	4/10	" "	Two Channels	6.39	317.		.6	13	-.01	1128A 1155A	"
395	4/11	DeVore	Two Channels	6.88	310.		.6	16	0	501P 532P	"
396	4/12	"	Two Channels	6.83	308.		.6	16	-.04	920A 1020A	"
397	4/13	"	Two Channels	6.56	322.		.6	14	-.06	902A 931A	"
398	4/14	"	Three Channels	6.87	258.		.6	23	+.10	852A 955A	"
399	4/15	"	Three Channels	6.80	262.		.6	22	-.03	954A 1042A	"
400	4/16	"	Two Channels	6.06	273.		.6	10	0	840A 856A	"
401	4/17	DeVore-DeVore	Two Channels	5.93	263.		.6	15	0	116P 143P	"
402	4/19	DeVore	Two Channels	6.07	289.		.6	11	0	550P 612P	"
403	4/20	DeVore-DeVore	Two Channels	6.06	303.		.6	12	0	944A 1000A	"
404	4/21	" "	Four Channels	6.29	282.		.6	27	-.02	207P 310P	"
405	4/22	DeVore-DeVore	Four Channels	6.36	305.		.6	21	0	1008A 1108A	FC 34
406	4/23	" "	Four Channels	6.37	279.		.6	28	0	853A 954A	"
407	4/24	" "	Three Channels	6.32	259.		.6	17	0	1206P 102P	"
408	4/25	DeVore	Three Channels	6.28	264.		.6	18	0	833A 913A	"
409	4/26	DeVore-DeVore	Three Channels	6.24	268.		.6	25	0	952A 1046A	"
410	4/27	" "	Four Channels	6.17	237.		.6	23	0	924A 1008A	"
411	4/28	" "	Four Channels	6.15	234.		.6	22	0	1100A 1204P	"
412	4/29	" "	Four Channels	6.19	238.		.6	22	-.01	909A 946A	"
413	4/30	" "	Four Channels	6.15	230.		.6	21	0	924A 1001A	"
414	5/1	" "	Four Channels	6.12	201.		.6	21	0	1227P 1255P	"
415	5/2	Brown	Four Channels	6.13	227.		.6	28	0	1125A 1157A	FC 29
416	5/3	DeVore-DeVore	Four Channels	6.12	209.		.6	21	0	942A 1020A	FC 34
417	5/3	" "	Four Channels	6.10	203.		.6	22		1146A 1216P	"
418	5/3	" "	Four Channels	6.10	197.		.6	22	+.01	146P 215P	"
419	5/3	" "	Four Channels	6.10	205.		.6	22	0	346P 416P	"
420	5/3	" "	Four Channels	6.10	196.		.6	22	+.01	546P 615P	"
421	5/3	" "	Four Channels	6.12	187.		.6	22	+.02	752P 819P	"
422	5/3	" "	Four Channels	6.12	194.		.6	22	+.01	946P 1014P	"
423	5/3 5/4	" "	Four Channels	6.13	204.		.6	22	0	1146P 1215A	"
424	5/4	" "	Four Channels	6.13	187.		.6	22	0	145A 214A	"
425	5/4	" "	Four Channels	6.12	192.		.6	22	0	346A 415A	"
426	5/4	" "	Four Channels	6.12	191.		.6	22	+.01	546A 615A	"
427	5/4	" "	Four Channels	6.12	195.		.6	22	0	746A 814A	"
428	5/4	" "	Four Channels	6.13	184.		.6	22	0	946A 1013A	"
429	5/5	DeVore	Four Channels	6.10	174.		.6	22	0	158P 257P	FC 34
430	5/6	DeVore-DeVore	Four Channels	6.10	193.		.6	22	0	915A 958A	"
431	5/7	" "	Four Channels	6.10	175.		.6	22	0	756A 831A	"
432	5/8	" "	Four Channels	6.08	174.		.6	22	0	304P 338P	"
433	5/9	DeVore	Four Channels	6.09	181.		.6	22	0	857A 945A	"
434	5/10	"	Four Channels	6.08	192.		.6	22	0	834A 922A	"
435	5/11	"	Four Channels	6.47	186.		.6	30	0	912A 1012A	"
436	5/12	DeVore-DeVore	Four Channels	6.48	191.		.6	30	0	930A 1021A	"
437	5/13	" "	Two Channels	6.49	188.		.6	18	0	919A 957A	"
438	5/14	" "	Two Channels	6.49	196.		.6	12	0	840A 859A	"
439	5/15	" "	Two Channels	6.49	179.		.6	13	0	1243P 100P	"
440	5/16	DeVore	Two Channels	6.49	188.		.6	13	0	841A 904A	"
441	5/17	"	Two Channels	6.49	176.		.6	13	0	808A 831A	"
442	5/17	"	Two Channels	6.49	184.		.6	23	0	1052A 1146A	"
443	5/17	"	Two Channels	6.48	185.		.6	23	0	448P 528P	"
444	5/18	"	Two Channels	6.48	180.		.6	23	0	740A 822A	"
445	5/18	DeVore-DeVore	Two Channels	6.48	181.		.6	23	0	1038A 1111A	"
446	5/18	DeVore	Two Channels	6.48	165.		.6	23	0	445P 525P	"
447	5/19	"	Two Channels	6.48	179.		.6	23	0	751A 832A	"
448	5/19	"	Two Channels	6.48	171.		.6	23	0	1050A 1127A	"
449	5/19	"	Two Channels	6.47	178.		.6	23	0	441P 517P	"
450	5/20	"	Two Channels	6.47	168.		.6	23	0	750A 831A	"
451	5/20	"	Two Channels	6.47	172.		.6	23	0	1047A 1125A	"
452	5/20	DeVore-DeVore	Two Channels	6.45	171.		.6	23	0	436P 509P	"
453	5/21	DeVore	Two Channels	6.47	176.		.6	23	0	737A 819A	FC 34
454	5/21	"	Two Channels	6.46	169.		.6	23	0	1047A 1125A	"
455	5/21	"	Two Channels	6.45	164.		.6	23	0	440P 518P	"
456	5/22	Brown-DeVore	Two Channels	6.45	167.		.6	21	0	1038A 1110A	"
457	5/23	Brown	Two Channels	6.45	169.		.6	22	0	1105A 1140A	"
458	5/24	DeVore	Two Channels	6.46	160.		.6	23	0	739A 820A	"
459	5/24	"	Two Channels	6.45	162.		.6	23	0	1034A 1113A	"
460	5/24	"	Two Channels	6.44	154.		.6	23	0	431P 508P	"
461	5/25	"	Two Channels	6.45	159.		.6	23	0	802A 835A	"
462	5/25	"	Two Channels	6.45	165.		.6	23	0	1049A 1138A	"
463	5/25	"	Two Channels	6.44	150.		.6	23	0	450P 528P	"
464	5/26	"	Two Channels	6.45	162.		.6	23	0	733A 810A	"
465	5/26	"	Two Channels	6.44	157.		.6	23	0	1047A 1124A	"
466	5/26	"	Two Channels	6.44	150.		.6	23	0	445P 526P	"
467	5/27	"	Two Channels	6.45	164.		.6	23	0	743A 824A	"
468	5/27	"	Two Channels	6.44	157.		.6	23	0	1035A 1113A	"
469	5/27	DeVore-DeVore	Two Channels	6.44	155.		.6	23	0	439P 518P	"
470	5/28	DeVore	Two Channels	6.44	156.		.6	23	0	740A 818A	"
471	5/28	"	Two Channels	6.44	156.		.6	23	0	1035A 1112A	"
472	5/28	"	Two Channels	6.44	144.		.6	23	0	437P 516P	"
473	5/29	"	Two Channels	6.44	160.		.6	23	0	1100A 1139A	"
474	5/30	Brown	Two Channels	6.45	148.		.6	22	0	922A 957A	"
475	5/31	DeVore	Two Channels	6.44	140.		.6	23	0	800A 847A	"
476	5/31	"	Two Channels	6.43	137.		.6	23	0	1040A 1129A	"
477	5/31	DeVore	Two Channels	6.42	131.		.6	23	0	431P 514P	FC 34
478	6/1	"	Two Channels	6.44	144.		.6	23	0	748A 836A	"
479	6/1	"	Two Channels	6.43	146.		.6	23	0	1039A 1123A	"
480	6/1	"	Two Channels	6.42	132.		.6	23	0	438P 517P	"
481	6/2	"	Two Channels	6.43	138.		.6	23	0	740A 820A	"
482	6/2	"	Two Channels	6.43	148.		.6	24	0	1038A 1118A	"
483	6/2	"	Two Channels	6.42	134.		.6	24	0	437P 521P	"
484	6/3	"	Two Channels	6.43	142.		.6	24	0	736A 817A	FC 32
485	6/3	"	Two Channels	6.43	139.		.6	24	0	1040A 1208P	"
486	6/3	"	Two Channels	6.43	138.		.6	24	0	443P 525P	"

F. C. D. FORM 104 12 9-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. P 4 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - E. FORK

~~XXX~~ 2 miles above Forks

DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Factor Ret.	METH OD	MEAS. RECR. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
487	6/4	"	Two	Channels		6.43	141.		.6	24	0	749A 830A	"
488	6/4	"	Two	Channels		6.43	133.		.6	24	0	1041A 1135A	"
489	6/5	"	Two	Channels		6.43	139.		.6	12	0	920A 939A	"
490	6/6	Brown	Two	Channels		6.43	134.		.6	23	0	1015A 1050A	FC 29
491	6/7	DeVore	Two	Channels		6.43	131.		.6	24	0	755A 839A	FC 32
492	6/7	"	Two	Channels		6.42	128.		.6	24	0	1041A 1124A	"
493	6/7	"	Two	Channels		6.41	126.		.6	24	0	446P 527P	"
494	6/8	"	Two	Channels		6.43	128.		.6	24	0	739A 819A	FC 34
495	6/8	"	Two	Channels		6.42	133.		.6	24	0	1041A 1127A	"
496	6/8	"	Two	Channels		6.41	124.		.6	24	0	440P 522P	"
497	6/9	"	Two	Channels		6.42	127.		.6	24	0	738A 818A	"
498	6/9	"	Two	Channels		6.42	129.		.6	24	0	1053A 1134A	"
499	6/9	"	Two	Channels		6.42	123.		.6	24	0	436P 514P	"
500	6/10	"	Two	Channels		6.42	124.		.6	24	0	750A 832A	"
501	6/10	DeVore	Two	Channels		6.42	122.		.6	24	0	1059A 1139A	FC 34
502	6/10	"	Two	Channels		6.42	124.		.6	24	0	438P 516P	"
503	6/11	"	Two	Channels		6.43	124.		.6	24	0	745A 825A	"
504	6/11	"	Two	Channels		6.43	124.		.6	24	0	1038A 1118A	"
505	6/11	"	Two	Channels		6.43	127.		.6	24	0	433P 513P	"
506	6/12	"	Two	Channels		6.43	124.		.6	16	0	1101A 1128A	"
507	6/13	Brown	Two	Channels		6.42	123.		.6	24	0	1034A 1110A	"
508	6/14	DeVore	Two	Channels		6.41	116.		.6	24	0	742A 829A	"
509	6/14	"	Two	Channels		6.41	119.		.6	24	0	1045A 1128A	"
510	6/14	"	Two	Channels		6.40	114.		.6	24	0	445P 529P	"
511	6/15	"	Two	Channels		6.41	118.		.6	24	0	744A 829A	"
512	6/15	"	Two	Channels		6.41	115.		.6	24	0	1037A 1119A	"
513	6/15	"	Two	Channels		6.40	106.		.6	24	0	437P 515P	"
514	6/16	"	Two	Channels		6.41	115.		.6	24	0	737A 818A	"
515	6/16	"	Two	Channels		6.41	114.		.6	24	0	1036A 1116A	"
516	6/16	"	Two	Channels		6.40	111.		.6	24	0	440P 523P	"
517	6/17	"	Two	Channels		6.41	114.		.6	24	0	750A 828A	"
518	6/17	"	Two	Channels		6.41	111.		.6	24	0	1042A 1119A	"
519	6/17	"	Two	Channels		6.40	105.		.6	24	0	440P 516P	"
520	6/18	"	Two	Channels		6.40	106.		.6	24	0	741A 825A	"
521	6/18	"	Two	Channels		6.40	109.		.6	24	0	1039A 1125A	"
522	6/18	"	Two	Channels		6.40	104.		.6	24	0	436P 520P	"
523	6/19	"	Two	Channels		6.40	110.		.6	24	0	1017A 1106A	"
524	6/20	Brown	Two	Channels		6.40	114.		.6	23	0	1115A 1150A	"
525	6/21	DeVore	Two	Channels		6.40	109.		.6	24	0	755A 840A	FC 34
526	6/21	"	Two	Channels		6.40	111.		.6	24	0	1052A 1134A	"
527	6/21	"	Two	Channels		6.39	103.		.6	24	0	436P 516P	"
528	6/22	"	Two	Channels		6.40	108.		.6	24	0	746A 826A	"
529	6/22	"	Two	Channels		6.39	106.		.6	24	-.01	1037A 1118A	"
530	6/22	"	Two	Channels		6.38	100.		.6	24	0	439P 516P	"
531	6/23	"	Two	Channels		6.40	106.		.6	24	0	749A 832A	"
532	6/23	"	Two	Channels		6.39	102.		.6	24	0	1035A 1113A	"
533	6/23	"	Two	Channels		6.38	97.		.6	24	0	437P 516P	"
534	6/24	"	Two	Channels		6.40	105.		.6	24	0	745A 821A	"
535	6/24	"	Two	Channels		6.39	103.		.6	24	0	1038A 1116A	"
536	6/24	"	Two	Channels		6.38	97.		.6	24	0	438P 515P	"
537	6/25	"	Two	Channels		6.40	101.		.6	24	0	741A 819A	"
538	6/25	"	Two	Channels		6.40	101.		.6	24	0	1038A 1117A	"
539	6/25	"	Two	Channels		6.38	95.		.6	24	0	455P 530P	"
540	6/26	Brown	Two	Channels		6.40	99.		.6	23	0	1033A 1108A	"
541	6/27	"	Two	Channels		6.39	98.		.6	23	0	1049A 1121A	"
542	6/28	DeVore	Two	Channels		6.40	98.		.6	24	0	751A 833A	"
543	6/28	"	Two	Channels		6.39	98.		.6	24	0	1037A 1117A	"
544	6/28	"	Two	Channels		6.38	94.		.6	24	0	447P 527P	"
545	6/29	"	Two	Channels		6.40	100.		.6	24	0	747A 828A	"
546	6/29	"	Two	Channels		6.40	97.		.6	24	0	1042A 1120A	"
547	6/29	"	Two	Channels		6.39	92.		.6	24	0	443P 522P	"
548	6/30	"	Two	Channels		6.40	98.		.6	24	0	750A 829A	"
549	6/30	DeVore	Two	Channels		6.40	97.		.6	24	0	1040A 1120A	FC 34
550	6/30	"	Two	Channels		6.38	91.		.6	24	0	440P 518P	"
551	7/1	"	Two	Channels		6.40	94.		.6	24	0	740A 818A	"
552	7/2	"	Two	Channels		6.40	95.		.6	24	0	802A 844A	"
553	7/2	"	Two	Channels		6.39	94.		.6	24	0	1106A 1144A	"
554	7/2	"	Two	Channels		6.39	89.		.6	23	0	439P 516P	"
555	7/3	"	Two	Channels		6.38	90.		.6	23	0	1257P 139P	"
556	7/4	"	Two	Channels		6.39	91.		.6	24	0	951A 1031A	"
557	7/5	"	Two	Channels		6.39	91.		.6	24	0	812A 850A	"
558	7/5	"	Two	Channels		6.39	89.		.6	24	0	1047A 1123A	"
559	7/5	"	Two	Channels		6.38	86.		.6	24	0	450P 530P	"
560	7/6	"	Two	Channels		6.39	90.		.6	24	0	757A 839A	"
561	7/6	"	Two	Channels		6.39	88.		.6	24	0	1047A 1125A	"
562	7/6	"	Two	Channels		6.37	82.		.6	24	0	439P 517P	FC 32
563	7/7	"	Two	Channels		6.38	87.		.6	24	0	753A 832A	"
564	7/7	"	Two	Channels		6.38	86.		.6	24	0	1042A 1120A	"
565	7/7	"	Two	Channels		6.37	80.		.6	24	0	441P 518P	"
566	7/8	"	Two	Channels		6.38	82.		.6	24	0	748A 825A	"
567	7/8	"	Two	Channels		6.38	85.		.6	24	0	1041A 1117A	"
568	7/8	"	Two	Channels		6.36	80.		.6	24	0	437P 515P	"
569	7/9	"	Two	Channels		6.38	82.		.6	24	0	735A 813A	"
570	7/9	"	Two	Channels		6.38	81.		.6	24	0	1039A 1117A	"
571	7/9	"	Two	Channels		6.36	80.		.6	24	0	P P	"
572	7/10	"	Two	Channels		6.37	80.		.6	24	0	1107A 1147A	"
573	7/11	Middleton	Two	Channels		6.36	81.		.6	24	0	140P 225P	FC 32
574	7/12	DeVore	Two	Channels		6.38	78.		.6	24	0	746A 827A	"
575	7/12	"	Two	Channels		6.37	77.		.6	24	0	1040A 1124A	"
576	7/12	"	Two	Channels		6.36	71.		.6	24	0	441P 519P	"
577	7/13	"	Two	Channels		6.38	76.		.6	23	0	751A 828A	"
578	7/13	"	Two	Channels		6.37	76.		.6	23	0	1044A 1118A	"
579	7/13	"	Two	Channels		6.36	73.		.6	23	0	441P 514P	"
580	7/14	"	Two	Channels		6.38	75.		.6	23	0	743A 819A	"
581	7/14	"	Two	Channels		6.37	73.		.6	23	0	1041A 1114A	"
582	7/14	"	Two	Channels		6.36	71.		.6	23	0	444P 518P	"
583	7/15	"	Two	Channels		6.38	76.		.6	23	0	749A 822A	"
584	7/15	"	Two	Channels		6.37	74.		.6	23	0	1047A 1119A	"
585	7/15	"	Two	Channels		6.36	70.		.6	23	0	445P 519P	"
586	7/16	"	Two	Channels		6.37	75.		.6	23	0	807A 843A	"
587	7/17	Middleton	Two	Channels		6.37	77.		.6	23	0	1036A 1120A	"
588	7/18	"	Two	Channels		6.37	74.		.6	23	0	1040A 1126A	"
589	7/19	Brown	Two	Channels		6.37	71.		.6	21	0	931A 1003A	"
590	7/19	"	Two	Channels		6.35	64.		.6	21	0	400P 435P	"
591	7/19	"	Two	Channels		6.35	64.		.6	21	0	645P 716P	"
592	7/20	"	Two	Channels		6.36	65.		.6	21	0	546A 617A	"
593	7/20	"	Two	Channels		6.37	68.		.6	21	0	742A 816A	"
594	7/20	"	Two	Channels		6.37	68.		.6	21	0	943A 1015A	"
595	7/20	"	Two	Channels		6.36	68.		.6	21	0	1142A 1215P	FC 32
596	7/20	"	Two	Channels		6.36	66.		.6	21	0	142P 215P	"
597	7/20	Brown	Two	Channels		6.36	64.		.6	21	0	343P 415P	FC 32
598	7/21	"	Two	Channels		6.36	67.		.6		0	1116A 1145A	"
599	7/22	"	Two	Channels		6.36	68.		.6	21	0	1057A 1127A	"
600	7/23	Middleton	Two	Channels		6.35	64.		.6	22	0	1055A 1133A	"
601	7/24	"	Two	Channels		6.35	61.		.6	21	0	1030A 1105A	"
602	7/25	"	Two	Channels		6.35	62.		.6	21	+.01	1000A 1030A	"
603	7/26	Brown	Two	Channels		6.35	64.		.6	21	0	1115A 1143A	"
604	7/27	Middleton	Two	Channels		6.35	60.		.6	21	0	950A 1028A	"
605	7/28	Brown	Two	Channels		6.34	58.		.6	21	0	1111A 1140A	"
606	7/29	"	Two	Channels		6.34	57.		.6	21	0	1033A 1104A	"
607	7/30	Middleton	Two	Channels		6.34	58.		.6	21	0	1080A 1047A	"
608	7/31	"	Two	Channels		6.33	56.		.6	21	0	1005A 1040A	"
609	8/1	"	Two	Channels		6.32	55.		.6	21	0	1015A 1047A	"

220

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. P 4 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - E. FORK

XXX 2 miles above Forks 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 (Dif.)	METH OD	MEAS. RECS. NO.	D. IT. CHANGE TOTAL	BEGIN END	METER NO.
610	8/2	DeVore	Two Channels			6.32	55.		.6	22	0	813A 851A	"
611	8/3	"	Two Channels			6.32	52.		.6	21	0	742A 815A	"
612	8/4	"	Two Channels			6.32	52.		.6	21	0	852A 930A	"
613	8/5	"	Two Channels			6.32	52.		.6	21	0	912A 945A	"
614	8/6	"	Two Channels			6.32	50.		.6	21	0	1129A 1205P	"
615	8/7	"	Two Channels			6.32	50.		.6	21	0	1136A 1213P	"
616	8/8	"	Two Channels			6.32	51.		.6	21	0	850A 924A	"
617	8/9	"	Two Channels			6.32	49.		.6	21	0	856A 930A	"
618	8/10	"	Two Channels			6.32	47.		.6	21	0	811A 848A	"
619	8/11	"	Two Channels			6.31	46.		.6	21	0	759A 832A	"
620	8/12	"	Two Channels			6.31	45.		.6	21	0	915A 955A	"
621	8/13	DeVore	Two Channels			6.31	46.		.6	21	0	929A 1005A	FC 32
622	8/14	Middleton	Two Channels			6.31	48.		.6	21	0	1045A 1123A	"
623	8/15	DeVore	Two Channels			6.31	46.		.6	21	0	850A 928A	"
624	8/16	"	Two Channels			6.31	48.		.6	21	0	845A 923A	"
625	8/17	"	Two Channels			6.31	47.		.6	21	0	907A 941A	"
626	8/18	"	Two Channels			6.31	48.		.6	21	0	815A 852A	"
627	8/19	"	Two Channels			6.31	45.		.6	21	0	811A 846A	"
628	8/20	"	Two Channels			6.29	44.		.6	21	0	1108A 1144A	"
629	8/21	Middleton	Two Channels			6.30	45.		.6	21	0	1015A 1045A	"
630	8/22	DeVore	Two Channels			6.29	45.		.6	21	0	806A 858A	"
631	8/23	"	Two Channels			6.29	46.		.6	21	0	836A 913A	"
632	8/24	"	Two Channels			6.29	45.		.6	21	0	946A 1020A	"
633	8/25	"	Two Channels			6.28	43.		.6	21	0	1116A 1149A	"
634	8/26	"	Two Channels			6.27	39.		.6	21	0	412P 446P	"
635	8/27	"	Two Channels			6.27	42.		.6	21	0	528P 603P	"
636	8/28	DeVore-DeVore	Two Channels			6.28	43.		.6	21	0	1256P 125P	"
637	8/29	" "	Two Channels			6.28	44.		.6	21	0	832A 900A	"
638	8/30	DeVore	Two Channels			6.29	44.		.6	21	0	1006A 1041A	"
639	8/31	"	Two Channels			6.29	44.		.6	21	0	825A 858A	"
640	9/1	"	Two Channels			6.29	39.		.6	21	0	832A 905A	"
641	9/2	"	Two Channels			6.29	40.		.6	21	0	923A 957A	"
642	9/3	"	Two Channels			6.29	40.		.6	21	0	835A 908A	"
643	9/4	Middleton	Two Channels			6.28	41.		.6	21	0	956A 1026A	"
644	9/5	"	Two Channels			6.28	40.		.6	21	0	950A 1020A	"
645	9/6	DeVore	Two Channels			6.28	41.		.6	21	0	834A 908A	FC 32
646	9/7	"	Two Channels			6.28	40.		.6	21	0	854A 928A	"
647	9/8	"	Two Channels			6.28	41.		.6	21	0	846A 919A	"
648	9/9	"	Two Channels			6.28	40.		.6	21	0	901A 932A	"
649	9/10	"	Two Channels			6.27	40.		.6	21	-.01	1211P 1256P	"
650	9/11	"	Two Channels			6.27	39.		.6	21	-.01	1153A 1222P	"
651	9/12	"	Two Channels			6.28	40.		.6	21	0	905A 937A	"
652	9/13	"	Two Channels			6.27	40.		.6	21	0	834A 907A	"
653	9/13	"	Two Channels			6.26	33.		.6	17	0	327P 400P	"
654	9/14	"	Two Channels			6.27	35.		.6	17	0	827A 853A	"
655	9/15	"	Two Channels			6.26	34.		.6	17	0	831A 857A	"
656	9/16	"	Two Channels			6.27	35.		.6	17	0	836A 901A	"
657	9/17	"	Two Channels			6.27	35.		.6	17	0	742A 807A	"
658	9/18	Middleton	Two Channels			6.27	33.		.6	17	0	120P 150P	"
659	9/19	DeVore	Two Channels			6.27	35.		.6	17	0	958A 1026A	"
660	9/20	"	Two Channels			6.27	34.		.6	17	0	854A 922A	"
661	9/21	"	Two Channels			6.26	33.		.6	17	0	831A 858A	"
662	9/22	"	Two Channels			6.26	33.		.6	17	0	838A 905A	"
663	9/23	"	Two Channels			6.26	34.		.6	17	0	909A 934A	"
664	9/24	DeVore-Stunden	Two Channels			6.25	33.		.6	17	-.01	1058A 1135A	"
665	9/25	" "	Two Channels			6.25	33.		.6	17	0	1151A 1222P	"
666	9/26	DeVore-DeVore	Two Channels			6.26	34.		.6	17	0	853A 917A	"
667	9/27	DeVore	Two Channels			6.26	32.		.6	17	0	840A 912A	"
668	9/28	"	Two Channels			6.26	33.		.6	17	0	812A 839A	"
669	9/29	DeVore	Two Channels			6.26	33.		.6	17	0	836A 906A	FC 32
670	9/30	"	Two Channels			6.26	33.		.6	17	0	830A 857A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. P4R

Daily discharge, in second-feet, of SAN GABRIEL RIVER -- E. FORK 2 miles above Forks for the year ending September 30, 19 36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	26	22	20	31	79	1980	350	210	141	90	53	40
2	24	22	20	31	150	11000	345	224	141	90	53	39
3	25	22	20	30	188	5100	340	215	135	88	51	38
4	25	22	20	29	299	2750	340	183	132	87	50	40
5	25	22	21	29	186	2000	350	183	134	89	50	40
6	25	22	21	29	154	1550	340	185	134	89	50	40
7	24	23	21	28	110	1250	330	152	132	86	49	40
8	24	23	21	27	103	1130	320	183	130	84	49	39
9	25	23	21	26	123	900	320	168	128	84	46	39
10	24	23	22	25	186	720	315	191	125	83	44	40
11	24	23	41	26	364	620	310	182	124	83	44	39
12	24	23	72	26	379	2100	305	191	121	78	43	39
13	24	23	41	26	272	1400	300	182	119	76	44	37
14	24	23	31	148	226	1200	290	182	115	74	45	34
15	24	23	31	148	197	1200	280	182	112	71	46	33
16	25	23	29	90	172	1050	270	182	112	71	46	33
17	24	22	28	60	160	930	265	182	106	69	47	34
18	23	22	26	50	154	850	265	173	106	69	47	34
19	23	22	26	48	160	740	280	164	110	70	44	33
20	22	22	23	44	142	690	300	173	113	69	44	33
21	23	22	25	39	137	640	295	164	107	65	44	31
22	22	21	25	36	137	600	285	164	107	63	44	32
23	22	21	43	35	127	570	280	164	101	60	45	33
24	22	21	35	33	132	540	268	164	98	57	45	34
25	22	22	31	32	137	520	271	156	98	62	43	33
26	22	21	38	32	132	460	255	156	95	60	42	32
27	22	21	40	32	1270	430	232	156	96	55	43	31
28	22	20	36	35	400	370	235	147	96	51	43	31
29	22	20	34	31	370	350	232	138	97	52	42	31
30	22	20	31	30	350	441	207	138	93	52	42	31
31	22		31	30		5930		5415		2241		1063
	728	659	949	1195			3007		3465		1419	

Mean	23.5	22.0	30.6	38.5	212	1430	294	175	116	72.3	45.8	35.4
Acre-Feet	1440	1310	1880	2370	11760	87630	17470	10740	6870	4440	2810	2110

Year Period: Mean 208 Acre-Feet 150800

Remarks:

F. C. Dist. Form 12 150 5-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. P4R

Daily discharge, in second-feet, of SAN GABRIEL RIVER -- E. FORK 2 miles above Forks for the year ending September 30, 19 37

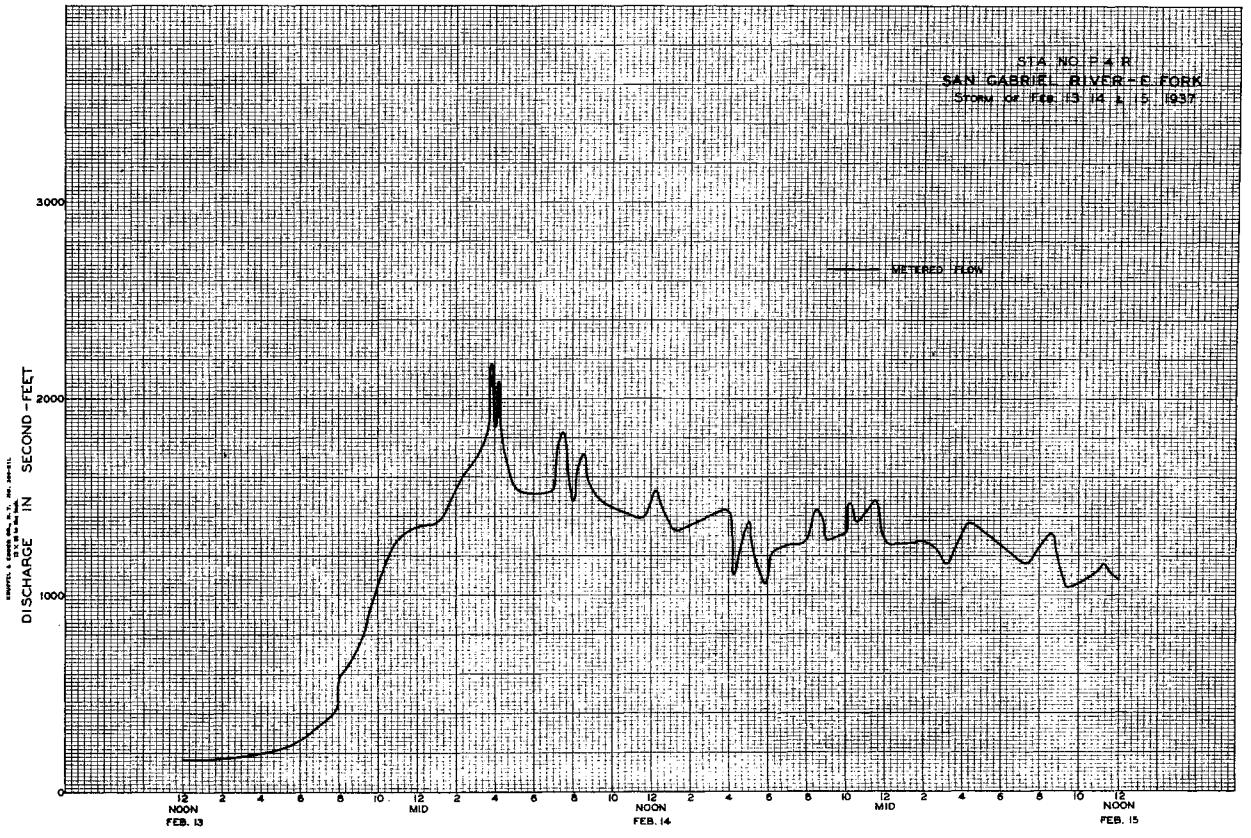
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	95	23	17	145	122	280	334	253	156	85	49	30
2	10	20	17	107	101	266	345	253	154	82	48	29
3	11	19	17	83	89	250	340	257	150	78	48	30
4	10	18	19	73	86	250	329	257	147	77	47	30
5	10	17	19	78	104	273	324	261	147	79	45	30
6	95	17	17	101	564	266	324	257	145	77	44	29
7	95	17	17	92	1020	266	324	245	135	76	43	29
8	10	16	16	78	597	256	319	241	128	74	42	29
9	10	16	16	76	316	250	319	241	126	71	42	28
10	105	16	16	70	276	250	319	240	125	71	42	27
11	95	16	16	65	208	410	319	228	109	69	40	28
12	9	16	16	75	333	826	313	249	102	69	39	27
13	9	15	16	65	1440	542	334	241	99	68	39	27
14	9	15	16	63	1090	558	350	266	98	68	38	26
15	95	15	128	60	782	820	345	233	97	66	38	26
16	12	15	233	88	604	601	313	236	97	64	38	26
17	21	13	60	58	554	674	303	224	94	60	38	26
18	22	13	50	60	501	607	303	204	94	58	38	26
19	19	13	44	60	442	543	299	201	95	55	37	27
20	16	14	40	58	404	437	303	201	95	52	37	27
21	16	15	38	58	376	545	294	199	95	51	35	28
22	15	24	37	58	368	471	284	198	95	55	34	26
23	15	22	34	56	386	427	289	188	94	56	31	25
24	15	17	40	56	346	408	289	177	92	54	31	25
25	14	17	132	54	317	404	289	177	90	51	31	25
26	14	17	158	54	294	394	275	171	92	50	31	25
27	14	17	50	70		382	266	174	89	50	31	26
28	14	16	50	98		361	261	171	88	51	30	26
29	14	17	50	148		340	261	163		51	30	
30	13	17	60	148		340	261	163		51	30	
31	13		60	148		340		163		51		
	418	503	1839	2304	12463	13124	9308	6884	3308	1998	1192	817

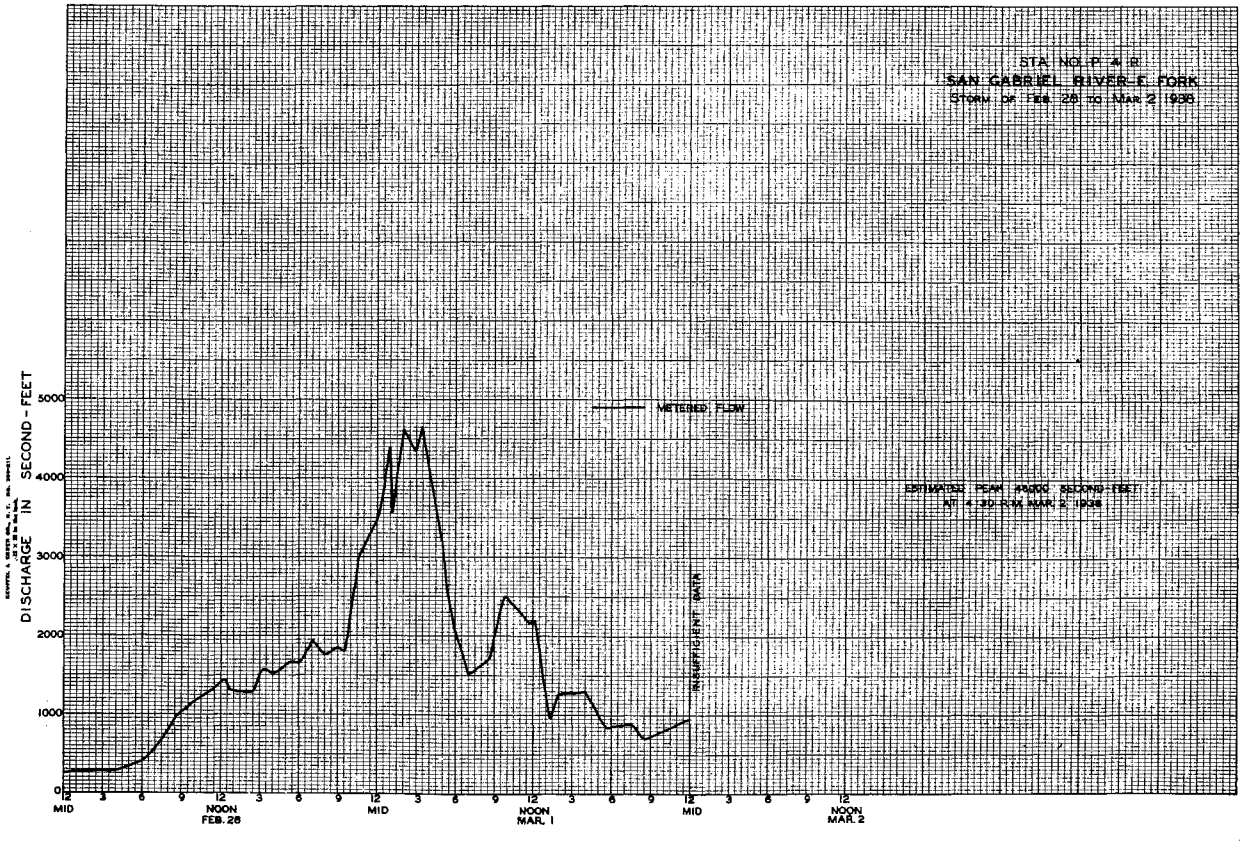
Mean	13.5	16.8	60.0	74.3	445	423	310	222	110	64.5	38.5	27.2
Acre-Feet	829	998	3690	4570	24720	26030	18460	13650	6560	3960	2360	1620

Year Period: Mean 146 Acre-Feet 107400

Remarks:

F. C. Dist. Form 12 150 5-36


STA. NO. P 4 R
SAN GABRIEL RIVER - E. FORK
Storm of Feb. 13, 14 & 15, 1937
METERED FLOW
DISCHARGE IN SECOND-FEET
3000
2000
1000
0
12 NOON FEB. 13
MID
NOON FEB. 14
MID
12 NOON FEB. 15


STA. NO. P 4 R
SAN GABRIEL RIVER E. FORK
Storm of Feb. 28 to Mar. 2, 1938
METERED FLOW
ESTIMATED PEAK 4900 SECOND-FEET
AT 4:20 P.M. MAR. 2, 1938
INSUFFICIENT DATA
DISCHARGE IN SECOND-FEET
5000
4000
3000
2000
1000
0
MID
NOON FEB. 28
MID
NOON MAR. 1
MID
NOON MAR. 2

STATION F233R

SAN GABRIEL RIVER near Roberts Relay Station

LOCATION:

On the east bank of the San Gabriel River approximately 3050 feet above the intake to the 30 foot diversion tunnel for San Gabriel Dam No. 1 and approximately 2400 feet above station F28R San Gabriel River at Edison Intake.

DRAINAGE AREA:

201 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, at station.

RECORDER:

Installed February 8, 1934 in a 48 inch diameter, corrugated iron pipe which serves as both house and stilling well.
An Au continuous recorder was in service from October 1, 1936 until it was removed on October 25, 1937 in anticipation of storage of water behind San Gabriel Dam No. 1. A portion of outside staff gage was not removed for subsequent gage readings.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2.

DIVERSIONS:

Some water diverted for placer mining.

RECORDS AVAILABLE:

February 8, 1934 to October 25, 1937.
Daily discharge measurements were continued subsequent to October 25, 1937 until the water stored behind San Gabriel Dam No. 1 affected the stage-discharge relation.

EXTREMES OF DISCHARGE:

1936-1937
Maximum not determined.
Minimum not determined.
1934-1936
Maximum 4850 second-feet April 8, 1935.
Minimum 7 second-feet October 2, 1934.
(For extremes see station F28R, 2400 feet downstream.

ACCURACY:

Good.

OPERATION:

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

F. C. D. FORM 104 1M 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 233 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

NEAR Roberts Relay Station DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERMIT NO.	METH OD	MEAS. RECR. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	6/4	Cooper-Green	51.1	103.0	2.55	7.38	263.		.6	13	0	817A 837A	FC 11
2	6/5	Cooper-Brown	61.0	125.9	3.65	7.98	459.		.6	12	0	803A 820A	"
3	6/6	" "	61.0	126.5	3.73	8.07	472.		.6	12	0	741A 800A	"
4	6/7	" "	61.0	121.9	3.53	7.88	430.		.6	12	0	750A 805A	"
5	6/8	" "	61.0	117.8	3.31	7.83	390.		.6	12	0	657A 713A	"
6	6/9	Brown-Green	61.0	119.4	3.45	7.92	412.		.6	12	0	804A 826A	"
7	6/10	" "	50.0	97.93	2.17	7.19	213.		.6	14	0	808A 828A	"
8	6/11	Cooper-Brown	50.1	94.42	2.22	7.15	209.		.6	14	0	728A 748A	"
9	6/12	" "	50.0	93.5	2.16	7.13	202.		.6	13	0	822A 841A	"
10	6/13	Brown-Cooper	50.0	94.11	2.11	7.11	198.		.6	13	0	758A 818A	"
11	6/14	Cooper-Brown	50.2	91.58	2.13	7.10	195.		.6	13	0	740A 757A	"
12	6/15	" "	50.	91.27	2.11	7.08	193.		.6	13	0	737A 756A	"
13	6/16	" "	50.0	89.62	2.04	7.06	183.		.6	13	0	733A 750A	"
14	6/17	Brown-Cooper	49.9	90.20	2.01	7.05	182.		.6	13		745A 810A	"
15	6/18	" "	49.7	89.07	1.98	7.03	177.		.6	13	0	810A 832A	"
16	6/19	DeVore-Brown	49.5	89.48	2.01	7.00	180.		.6	13	0	909A 933A	"
17	6/20	Brown-Cooper	49.5	88.65	1.97	7.00	174.		.6	13	0	802A 825A	"
18	6/21	" "	49.4	87.76	1.98	6.98	174.		.6	13	0	806A 834A	"
19	6/22	" "	49.4	87.12	1.93	6.98	168.		.6	13	0	754A 820A	"
20	6/23	" "	49.4	86.61	1.90	6.97	164.		.6	13	0	754A 816A	"
21	6/24	" "	49.3	86.42	1.88	6.96	163.		.6	13	0	808A 835A	"
22	6/25	" "	49.3	85.43	1.86	6.94	159.		.6	13	0	808A 828A	"
23	6/26	DeVore-	49.2	84.33	1.88	6.90	159.		.6	13	-.01	937A 1004A	"
24	6/27	Brown-Cooper	49.3	84.51	1.79	6.90	152.		.6	13	0	814A 834A	"
25	6/28	Brown-Cooper	49.3	84.37	1.77	6.88	149.		.6	13	+.01	746A 810A	FC 11
26	6/29	" "	49.1	84.30	1.81	6.89	153.		.6	13	0	800A 824A	"
27	6/30	" "	49.2	82.86	1.76	6.88	146.		.6	13	0	746A 808A	"
28	7/1	" "	49.1	82.89	1.76	6.86	146.		.6	13	0	803A 823A	"
29	7/2	" "	49.1	81.88	1.72	6.84	141.		.6	13	0	800A 820A	"
30	7/3	DeVore-Brown	49.1	81.56	1.74	6.82	142.		.6	13	0	952A 1013A	"
31	7/4	Brown-Cooper	49.1	80.52	1.70	6.82	137.		.6	13	0	758A 820A	"
32	7/5	" "	49.0	79.99	1.71	6.81	136.		.6	14	0	824A 845A	"
33	7/6	" "	48.9	80.19	1.63	6.80	131.		.6	14	0	755A 815A	"
34	7/7	" "	49.0	80.32	1.64	6.79	131.		.6	14	0	745A 805A	"
35	7/8	" "	49.0	79.50	1.62	6.77	126.		.6	14	0	810A 833A	"
36	7/9	Cooper-DeVore	47.0	70.16	1.86	6.75	131.		.6	13	0	1107A 1127A	"
37	7/10	DeVore	47.5	70.49	1.89	6.74	133.		.6	14	0	1008A 1032A	"
38	7/11	Brown-Cooper	47.9	69.07	1.87	6.74	129.		.6	14	0	745A 805A	"
39	7/12	" "	47.5	68.29	1.82	6.73	124.		.6	14	0	805A 825A	"
40	7/13	" "	47.6	68.20	1.82	6.72	124.		.6	14		750A 815A	"
41	7/14	" "	47.6	68.08	1.82	6.72	124.		.6	14	0	754A 814A	"
42	7/15	" "	47.6	67.70	1.79	6.71	121.		.6	14	0	800A 820A	"
43	7/16	DeVore-Brown	47.5	67.09	1.79	6.70	120.		.6	14	0	830A 850A	"
44	7/17	DeVore	47.5	67.66	1.78	6.69	120.		.6	14	0	1041A 1106A	"
45	7/18	Brown	47.5	66.83	1.74	6.68	117		.6	14	0	750A 811A	"
46	7/19	"	47.5	66.23	1.71	6.67	113.		.6	14	0	739A 801A	"
47	7/20	"	47.5	65.76	1.66	6.64	110.		.6	14	0	738A 800A	"
48	7/21	"	47.5	66.0	1.66	6.63	109.		.6	14	0	710A 733A	"
49	7/22	Brown	47.4	65.30	1.61	6.62	105.		.6	14	0	755A 818A	FC 11
50	7/23	DeVore-Brown	47.2	63.69	1.60	6.60	102.		.6	14	0	1014A 1034A	"
51	7/24	DeVore	47.3	64.60	1.55	6.58	100.		.6	14	0	945A 1009A	"
52	7/25	Brown	47.2	63.26	1.52	6.56	96.		.6	14	0	725A 748A	"
53	7/26	"	47.2	62.67	1.50	6.55	94.		.6	14	0	709A 731A	"
54	7/27	"	47.2	62.11	1.46	6.54	91.		.6	14	0	717A 740A	"
55	7/28	"	47.2	61.4	1.47	6.52	90.		.6	14	0	720A 743A	"
56	7/29	"	47.2	61.59	1.46	6.51	89.		.6	14	0	715A 740A	"
57	7/29	DeVore-Brown	47.2	61.23	1.47	6.53	90.		.6	14	+.01	706A 723A	"
58	7/30	Brown	47.4	63.77	1.52	6.58	97.		.6	14	0	630A 652A	"
59	7/31	DeVore-Brown	47.4	63.86	1.59	6.60	101.		.6	14	0	920A 940A	"
60	8/1	Brown	47.2	62.1	1.50	6.55	93.		.6	14	0	319P 340P	"
61	8/2	Brown-Cooper	47.2	63.85	1.56	6.58	99.		.6	14	0	808A 828A	"
62	8/3	" "	47.2	63.27	1.54	6.58	98.		.6	14	0	814A 832A	"
63	8/4	" "	47.1	61.59	1.46	6.52	90.		.6	14	0	804A 824A	"
64	8/5	" "	47.1	58.95	1.33	6.45	78.		.6	14	0	812A 830A	"
65	8/6	" "	47.2	61.77	1.47	6.52	91.		.6	14	0	820A 840A	"
66	8/7	" "	47.3	62.98	1.52	6.55	96.		.6	14	0	852A 910A	"
67	8/8	Brown	47.3	62.54	1.47	6.54	92.		.6	14	0	720A 742A	"
68	8/9	Brown-Cooper	47.2	62.45	1.46	6.53	91.		.6	14	0	810A 830A	"
69	8/10	" "	47.3	61.66	1.45	6.51	89.		.6	14	0	800A 820A	"
70	8/11	" "	47.2	61.54	1.43	6.50	88.		.6	14	0	758A 820A	"
71	8/12	" "	47.2	61.08	1.40	6.49	85.		.6	14	0	806A 826A	"
72	8/13	" "	47.0	60.34	1.37	6.48	82.		.6	14	0	810A 830A	"

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 233 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

NEAR Robert's Relay Station DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.)	METH OD	MEAS. NOS.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
73	8/14	Brown-Cooper	47.0	59.84	1.38	6.47	82.		.6	14	0	805A 825A	FC 11
74	8/15	Brown	47.1	61.23	1.41	6.50	87.		.6	14	0	747A 810A	"
75	8/16	Brown-Cooper	47.1	61.01	1.39	6.49	85.		.6	14	0	800A 822A	"
76	8/17	" "	47.1	60.02	1.35	6.47	81.		.6	14	0	800A 820A	"
77	8/18	" "	47.2	62.67	1.39	6.50	87.		.6	14	0	752A 814A	"
78	8/19	" "	47.2	61.18	1.39	6.49	85.		.6	14	0	754A 814A	"
79	8/20	" "	47.1	61.61	1.45	6.52	90.		.6	14		806A 828A	"
80	8/21	DeVore	46.5	58.22	1.28	6.42	74.		.6	14	0	938A 1002A	"
81	8/22	"	46.6	58.63	1.33	6.44	78.		.6	14	0	844A 910A	"
82	8/23	Brown-Cooper	46.8	57.37	1.25	6.40	72.		.6	14	0	758A 820A	"
83	8/24	" "	46.9	57.37	1.26	6.39	72.		.6	14	0	804A 824A	"
84	8/25	" "	46.8	57.24	1.22	6.37	70.		.6	14	0	748A 810A	"
85	8/26	" "	46.9	56.21	1.18	6.35	66.		.6	14	0	815A 835A	"
86	8/27	" "	46.8	55.92	1.11	6.32	62.		.6	14	0	742A 802A	"
87	8/28	DeVore	46.7	56.50	1.21	6.38	69.		.6	14	0	948A 1016A	"
88	8/29	Brown	47.0	56.70	1.17	6.35	66.		.6	14	0	717A 740A	"
89	8/30	Brown-Cooper	46.9	57.10	1.22	6.38	70.		.6	14	0	824A 846A	"
90	8/31	" "	46.8	55.98	1.15	6.33	64.		.6	14	0	740A 800A	"
91	9/1	" "	46.8	54.80	1.11	6.30	61.		.6	14	0	810A 835A	"
92	9/2	" "	46.7	52.61	.98	6.27	51.		.6	14	0	754A 814A	"
93	9/3	" "	46.5	50.84	.94	6.25	48.		.6	14	0	815A 835A	"
94	9/4	DeVore	46.5	51.06	.94	6.25	48.		.6	15	0	902A 928A	"
95	9/5	Brown-Cooper	46.5	50.26	.91	6.24	46.		.6	14	0	825A 844A	"
96	9/6	" "	46.6	50.30	.92	6.23	46.		.6	14	+.01	826A 846A	"
97	9/7	Brown-Cooper	46.5	49.90	.90	6.22	45.		.6	14	+.01	752A 812A	FC 11
98	9/8	" "	46.5	48.85	.89	6.22	44.		.6	15	+.01	815A 835A	"
99	9/9	DeVore-Brown	46.5	49.17	.88	6.20	43.		.6	14	0	938A 988A	"
100	9/10	Cooper-DeVore	46.5	48.68	.87	6.20	42.		.6	14	+.01	849A 912A	"
101	9/11	DeVore	46.5	48.52	.88	6.19	43.		.6	14	0	904A 929A	"
102	9/12	Brown-Penrod	46.4	48.12	.85	6.18	41.		.6	14	+.01	758A 818A	"
103	9/13	Cooper-Brown	46.7	49.00	.88	6.22	43.		.6	14	+.03	757A 815A	"
104	9/14	Brown-Cooper	46.6	50.35	.95	6.24	48.		.6	14		810A 832A	"
105	9/15	Cooper-Cooper	46.8	48.69	.89	6.22	43.		.6	14		750A 810A	"
106	9/16	Cooper-Brown	46.6	48.33	.88	6.19	42.		.6	14	0	854A 917A	"
107	9/17	Brown-Cooper	46.5	48.54	.85	6.18	42.		.6	14	+.01	818A 832A	"
108	9/18	" "	46.4	47.54	.80	6.15	38.		.6	14	0	148P 208P	"
109	9/19	" "	46.8	48.75	.85	6.17	41.		.6	14	0	744A 812A	"
110	9/20	Cooper	46.7	47.65	.86	6.17	41.		.6	14	0	750A 814A	"
111	9/21	Brown-Cooper	46.5	47.95	.84	6.18	40.		.6	14	0	814A 834A	"
112	9/22	" "	46.6	48.44	.87	6.18	42.		.6	14	+.01	820A 840A	"
113	9/23	" "	46.7	48.66	.89	6.20	45.		.6	14		734A 754A	"
114	9/24	" "	46.6	48.38	.85	6.18	41.		.6	14	0	744A 806A	"
115	9/25	" "	46.6	48.02	.83	6.17	40.		.6	14	+.01	854A 854A	"
116	9/26	" "	46.6	47.76	.78	6.15	37.		.6	14	0	754A 814A	"
117	9/27	" "	46.5	47.67	.80	6.15	38.		.6	14		810A 830A	"
118	9/28	" "	46.5	47.82	.83	6.16	40.		.6	14	0	810A 830A	"
119	9/29	Brown-DeVore	46.5	48.10	.83	6.18	40.		.6	14	0	837A 854A	"
120	9/30	Brown-Cooper	46.6	48.64	.87	6.19	42.		.6	14	0	753A 813A	"

F. C. D. FORM 104 1M 9-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 233 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

NEAR Robert's Relay Station DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH OD	MEAS. NOS.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
121	10/1	Brown-Cooper	46.6	49.00	.86	6.20	42.		.6	14		755A 814A	FC 11
122	10/2	DeVore-Brown	46.5	49.02	.85	6.18	42.		.6	14	0	1047A 1106A	"
123	10/3	Brown-Cooper	46.6	48.52	.86	6.18	42.		.6	14	0	754A 812A	"
124	10/4	" "	46.6	49.42	.90	6.21	44.		.6	14	0	814A 834A	"
125	10/5	" "	46.6	48.96	.86	6.20	42.		.6	14	0	754A 814A	"
126	10/6	" "	46.6	48.79	.86	6.20	42.		.6	14	0	757A 817A	"
127	10/7	" "	46.5	48.54	.80	6.18	39.		.6	14	0	752A 812A	"
128	10/8	" "	46.5	48.17	.80	6.16	38.		.6	14	0	800A 820A	"
129	10/9	DeVore-Brown	46.5	47.63	.81	6.15	39.		.6	14	0	915A 934A	"
130	10/10	Brown-Cooper	46.5	47.65	.79	6.14	38.		.6	14	0	745A 805A	"
131	10/11	" "	46.5	48.12	.79	6.16	38.		.6	14	0	756A 816A	"
132	10/12	" "	46.5	47.63	.80	6.14	38.		.6	14	0	818A 838A	"
133	10/13	" "	46.4	47.38	.74	6.13	35.		.6	14	0	756A 818A	"
134	10/14	" "	46.5	47.88	.78	6.15	38.		.6	14	0	814A 834A	"
135	10/15	" "	46.5	48.32	.80	6.18	39.		.6	14	0	812A 832A	"
136	10/16	DeVore-Brown	46.5	49.16	.86	6.18	43.		.6	14	0	1012A 1032A	"
137	10/17	Brown-Cooper	46.5	47.89	.81	6.16	39.		.6	14	0	806A 826A	"
138	10/18	" "	46.5	47.47	.74	6.13	35.		.6	14	0	816A 836A	"
139	10/19	" "	46.4	47.14	.76	6.12	36.		.6	14	0	745A 805A	"
140	10/20	" "	46.4	46.98	.70	6.11	33.		.6	14	0	752A 812A	"
141	10/21	" "	46.5	46.91	.71	6.10	33.		.6	14	0	808A 828A	"
142	10/22	" "	46.5	46.74	.73	6.10	34.		.6	14	0	808A 822A	"
143	10/23	DeVore-Brown	46.5	46.94	.74	6.10	35.		.6	14	0	905A 925A	"
144	10/24	Brown-Cooper	46.5	46.98	.74	6.10	35.		.6	14	0	756A 816A	"
145	10/25	Brown-Cooper	46.5	46.63	.69	6.10	32.		.6	14	0	740A 800A	FC 11

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Daily discharge, in second-feet, of SAN GABRIEL RIVER near Robert's Relay Station for the year ending September 30, 19 37

Sta. No. F233R

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						For previous record see prev.			259	140	96	61
2									309	134	92	47
3									472	130	93	43
4										130	93	42
5										129	88	40
6									452	129	88	39
7									417	127	88	40
8									405	124	86	38
9									401	124	85	38
10									391	122	82	37
11									294	120	81	42
12									189	118	79	44
13									187	116	79	40
14									183	116	82	40
15									176	115	80	38
16									170	113	87	37
17									166	110	83	37
18									164	107	82	37
19									158	104	82	37
20									154	102	71	38
21									154	100	66	40
22									154	97	66	42
23									154	94	64	39
24									148	89	64	39
25									146	87	64	37
26									144	84	64	38
27									144	88	64	39
28									140	96	65	39
29										97	63	40
30											2393	1205
31												
Mean									223	111	77.2	NO.2
Acre-Feet									13270	6840	4750	2390

Max. 1 Sept. 2390
Min. 28 June 39
Accum. 28350 inc.

Remarks:

P. C. Dist. Form 18 M 8-35

STATION F28R

SAN GABRIEL RIVER at Edison Intake

LOCATION:

On west (right) 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 Corporation.

DRAINAGE AREA:

202 square miles.

CHANNEL AND CONTROL:

Channel - Gravel and boulders.
No artifical 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 an F. C. standard type concrete house over a 6.0 ft. x 4.2 ft. concrete stilling well.
An Au continuous recorder was in service from October 1, 1936 to September 30, 1938, however, construction work beginning June 3, 1937 affected the stage-discharge relation to such an extent that the life of the stream gaging station was terminated on June 3, 1937.

For 1912 to 1914 staff gage record see U.S.G.S. Water Supply Paper 447 page 374.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2.

DIVERSIONS:

Some water diverted for placer mining.

RECORDS AVAILABLE:

October 1. 1927 to June 3, 1937.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 4240 second-feet February 14.
Minimum 11 second-feet October 11.
1927-1937
Maximum 18000 second-feet January 1, 1934.
Minimum 2.7 second-feet September 5, 1928.

ACCURACY:

Good except February 14 and March 12-20, 1937 when control was shifting badly.
Estimated: December 25, 26, 1936; March 15, 16, 1937.
Interpolated: February 18, 1937.

OPERATION:

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

F. C. D. FORM 104 1M 8-38

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 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adjd. Factor	METH. OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Cooper-Cooper	17.0	13.64	.96	3.46	13.		.6	10		815A 829A	FC 11
2	10/2	Cooper-DeVore	17.0	14.13	1.00	3.47	14.		.6	10		820A 835A	"
3	10/3	DeVore	17.0	14.94	1.10	3.51	16.		.6	10	0	825A 843A	"
4	10/4	Reber	17.0	14.30	.94	3.45	14.		.6	10	0	417P 429P	"
5	10/5	"	17.0	14.65	1.03	3.48	15.		.6	10	0	820A 832A	"
6	10/6	Cooper	17.0	14.17	.98	3.47	14.		.6	10		745A 803A	"
7	10/7	Reber-DeVore	17.0	14.39	.96	3.45	14.		.6	10	0	840A 850A	"
8	10/8	Cooper	17.0	13.77	.95	3.45	13.		.6	10	-.01	827A 843A	"
9	10/9	Cooper-DeVore	17.0	13.75	.92	3.45	13.		.6	10		830A 842A	"
10	10/10	DeVore	17.0	14.14	.91	3.45	13.		.6	10	0	829A 842A	"
11	10/11	Reber-Brown	17.0	13.44	.79	3.39	11.		.6	10	0	403P 417P	"
12	10/12	Reber	17.0	14.18	.90	3.44	13.		.6	10	0	819A 833A	"
13	10/13	Cooper	17.0	13.88	.92	3.44	13.		.6	10	0	800A 818A	"
14	10/14	"	17.0	13.70	.90	3.44	12.		.6	10		731A 749A	"
15	10/15	"	17.0	13.81	.90	3.44	12.		.6	10		816A 834A	"
16	10/16	Cooper-DeVore	17.0	14.08	1.01	3.47	14.		.6	10	0	835A 848A	"
17	10/17	DeVore-DeVore	17.4	17.31	1.54	3.64	27.		.6	10	-.01	926A 940A	"
18	10/18	Reber	17.8	17.64	1.58	3.66	28.		.6	10	0	412P 431P	"
19	10/19	Cooper	23.0	24.91	2.29	3.96	57.		.6	12		750A 812A	"
20	10/20	"	22.7	21.09	1.76	3.78	37.		.6	12		822A 842A	"
21	10/21	"	22.5	19.55	1.53	3.69	30.		.6	12	-.01	807A 831A	"
22	10/22	"	22.4	18.71	1.38	3.65	26.		.6	12		812A 836A	"
23	10/23	Cooper-DeVore	22.4	17.93	1.25	3.61	22.		.6	12		823A 850A	"
24	10/24	DeVore	22.4	18.36	1.32	3.63	24.		.6	12	0	908A 932A	"
25	10/25	Reber-Brown	21.7	17.41	1.14	3.56	20.		.6	11	0	332P 347P	FC 11
26	10/26	Reber	22.0	17.72	1.18	3.59	21.		.6	11	0	826A 845A	"
27	10/27	Cooper-DeVore	22.0	17.24	1.17	3.59	20.		.6	12		832A 845A	"
28	10/28	De-Vore-Reber	22.0	17.40	1.16	3.59	20.		.6	11	0	843A 859A	"
29	10/29	Cooper	22.0	16.93	1.14	3.56	19.		.6	12		840A 900A	"
30	10/30	"	22.5	18.86	1.39	3.66	26.		.6	12		805A 825A	"
31	10/31	"	22.8	22.74	1.90	3.82	43.		.6	9		616A 632A	"
32	10/31	DeVore	39.1	33.05	1.70	3.96	56.		.6	15	-.01	1112A 1142A	"
33	10/31	"	23.1	24.47	2.02	3.88	49.		.6	12	0	330P 351P	"
34	11/1	Reber-Brown	23.8	27.19	2.35	4.01	64.		.6	13	0	455P 510P	"
35	11/2	Reber	22.6	21.40	1.67	3.75	36.		.6	12	0	832A 850A	"
36	11/3	DeVore-Reber	22.6	20.31	1.47	3.69	30.		.6	12	0	915A 932A	"
37	11/4	" "	22.6	19.73	1.37	3.67	27.		.6	12		843A 858A	"
38	11/5	DeVore-Cooper	23.0	22.03	1.71	3.77	38.		.6	12		810A 829A	"
39	11/6	Cooper-DeVore	22.5	19.58	1.45	3.68	28.		.6	12		827A 844A	"
40	11/7	DeVore	22.5	19.31	1.35	3.65	26.		.6	12	0	825A 845A	"
41	11/8	Reber-Brown	22.3	18.28	1.21	3.61	21.		.6	12	0	352P 407P	"
42	11/9	Reber	22.7	20.47	1.46	3.69	30.		.6	12	-.01	835A 852A	"
43	11/10	Reber-DeVore	22.5	19.47	1.34	3.65	26.		.6	12		833A 850A	"
44	11/11	" "	22.5	19.18	1.34	3.64	26.		.6	12	0	842A 858A	"
45	11/12		20.5	18.13	1.35	3.64	25.		.6	11		845A 905A	"
46	11/13	Cooper-Cooper	20.5	18.08	1.35	3.64	24.		.6	11		820A 838A	"
47	11/14	DeVore	20.3	18.16	1.27	3.63	23.		.6	11	0	831A 851A	"
48	11/15	Reber	20.0	17.62	1.22	3.60	22.		.6	11		445P 500P	"
49	11/16	Reber	20.1	18.03	1.28	3.61	23.		.6	11	0	815A 831A	FC 11
50	11/17	Cooper-DeVore	20.4	17.47	1.25	3.61	22.		.6	11	0	827A 843A	"
51	11/18	Cooper-Reber	20.4	17.23	1.18	3.60	20.		.6	11	0	829A 843A	"
52	11/19	Cooper-Cooper	20.4	16.97	1.17	3.59	20.		.6	11		822A 840A	"
53	11/20	Cooper-DeVore	20.3	16.95	1.13	3.59	19.		.6	11		837A 854A	"
54	11/21	DeVore	20.3	17.68	1.18	3.61	21.		.6	11	0	908A 925A	"
55	11/22	Reber-Brown	20.3	18.12	1.24	3.61	22.		.6	11	0	323P 337P	"
56	11/23	Rreber	20.6	20.10	1.55	3.70	31.		.6	11	0	833A 849A	"
57	11/24	Cooper-DeVore	20.6	19.70	1.52	3.71	30.		.6	11		834A 849A	"
58	11/25	Cooper-Cooper	20.6	19.03	1.43	3.68	27.		.6	11		900A 916A	"
59	11/26	Cooper-Brown	20.6	18.75	1.40	3.67	26.		.6	11		946A 1002A	"
60	11/27	" "	20.5	18.51	1.35	3.66	25.		.6	11		834A 850A	"
61	11/28	" "	20.5	18.48	1.34	3.65	25.		.6	11		836A 852A	"
62	11/29	Reber-Brown	20.3	18.71	1.33	3.64	25.		.6	11		354P 409P	"
63	11/30	Reber	20.6	18.90	1.35	3.65	26.		.6	11		824A 840A	"
64	12/1	"	20.5	18.47	1.30	3.63	24.		.6	11	0	828A 843A	"
65	12/2	"	20.4	18.57	1.31	3.64	24.		.6	11	0	820A 836A	"
66	12/3	Cooper	20.5	18.32	1.36	3.65	25.		.6	11		935A 954A	"
67	12/4	Cooper-Cooper	21.8	24.05	2.29	3.95	55.		.6	11	-.02	754A 810A	"
68	12/5	DeVore-DeVore	20.8	19.92	1.68	3.74	34.		.6	12	0	904A 923A	"
69	12/6	Reber	20.4	19.08	1.55	3.68	30.		.6	11	0	352P 409P	"
70	12/7	"	20.3	19.37	1.54	3.68	30.		.6	11	0	818A 835A	"
71	12/8	Cooper-DeVore	20.3	18.63	1.52	3.68	28.		.6	11		929A 943A	"
72	12/9	Cooper-Reber	20.5	18.50	1.52	3.67	28.		.6	11		826A 841A	"
73	12/10	Cooper	20.5	18.31	1.46	3.66	27.		.6	11		850A 909A	FC 11
74	12/11	Cooper-DeVore	20.5	18.46	1.45	3.66	27.		.6	11		830A 838A	"
75	12/12	DeVore	20.5	18.65	1.52	3.66	28.		.6	11	0	850A 910A	"
76	12/13	Reber	20.5	18.69	1.43	3.65	27.		.6	11	0	219P 235P	"
77	12/14	"	20.5	18.78	1.41	3.66	26.		.6	11	0	830A 846A	"

F. C. D. FORM 104 (M 8-38)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 28 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~XXXXX~~ Edison Intake DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Falling Percent (M)	METH OD	MEAS. REC'S NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
78	12/15	Cooper	42.2	43.72	2.69	4.44	118.		.6	15	-.01	619A 643A	"
79	12/15	Reber	62.0	63.44	3.25	4.95	206.		.6	14	-.01	1008A 1030A	"
80	12/15	Cooper	43.0	63.03	3.80	5.06	240.		.6	16	+.01	220P 244P	"
81	12/15	Cooper-Maugle	63.0	75.14	3.76	5.22	282.		.6	14	+.07	434P 454P	"
82	12/15	" "	66.0	106.0	4.66	5.72	495.		.6	14	+.05	712P 738P	"
83	12/16	" "	78.0	139.2	4.52	6.10	629.		.6	15	+.04	1206A 1255A	"
84	12/16	Cooper	66.5	108.0	4.37	5.72	472.		.6	15	-.03	1028A 1056A	"
85	12/16	Cooper-Reber	64.0	87.25	4.09	5.47	357.		.6	15	0	417P 436P	"
86	12/17	Cooper-Cooper	64.5	67.47	3.86	5.17	260.		.6	15	-.01	818A 840A	"
87	12/18	Cooper-DeVore	55.0	47.23	3.16	4.72	149.		.6	17		330A 354A	"
88	12/19	Reber	43.0	39.23	2.67	4.48	105.		.6	16	0	804A 851A	"
89	12/20	"	42.3	35.18	2.40	4.31	85.		.6	16	-.01	255P 307P	"
90	12/21	DeVore	42.5	34.05	2.21	4.26	75.		.6	16	0	844A 912A	"
91	12/22	Cooper-Cooper	30.5	30.60	2.38	4.21	73.		.6	11		808A 825A	"
92	12/23	" "	30.5	29.67	2.29	4.16	68.		.6	11		815A 835A	"
93	12/24	Reber	30.0	27.21	2.11	4.07	57.		.6	16		718A 742A	"
94	12/25	Cooper-Brown	32.5	34.55	2.41	4.27	83.		.6	12		810A 830A	"
95	12/26	DeVore	30.0	28.39	2.17	4.12	62.		.6	12		905A 925A	"
96	12/27	Cooper-Brown	69.0	104.2	5.00	5.90	521.		.6	15	+.29	752A 810A	"
97	12/27	Cooper-Anderson	85.0	222.8	6.03	7.23	1340.		.6	10	+.07	945A 1010A	FC 11
98	12/27	" "	35.0	216.0	6.26	7.24	1360.		.6	10	-.06	1010A 1050A	"
99	12/27	" "	83.0	202.7	5.89	7.01	1190.		.6	10	+.22	1050A 1128A	"
100	12/27	" "	83.0	194.7	5.70	6.82	1110.		.6	10	-.15	1130A 1155A	"
101	12/27	Cooper-Ash	79.0	139.0	5.62	6.35	783.		.6	9	-.06	145P 210P	"
102	12/27	" "	79.0	132.6	4.95	6.29	656.		.6	9	-.04	212P 235P	"
103	12/27	" "	78.0	124.7	4.94	6.23	616.		.6	9	-.02	243P 306P	"
104	12/27	Cooper-Miller	74.0	97.90	4.45	5.82	435.		.6	9	-.01	805P 824P	"
105	12/28	Cooper-Brown	76.0	109.0	4.35	5.72	474.		.6	15	-.04	816A 862A	"
106	12/28	" "	63.0	91.80	3.70	5.42	340.		.6	15	-.01	416P 436P	"
107	12/29	" "	63.0	66.13	3.49	5.12	231.		.6	15	0	824A 842A	"
108	12/30	Cooper	63.0	53.38	3.06	4.87	164.		.6	15	0	1026A 1050A	"
109	12/30	Reber-DeVore	65.0	60.40	3.30	4.98	199.		.6	14		404P 425P	"
110	12/30	Cooper-Keith	61.0	147.9	5.36	6.32	793.		.6	9	+.30	925P 955P	"
111	12/30	" "	81.0	172.2	6.06	6.66	1040.		.6	9	+.13	1015P 1040P	"
112	12/30	" "	84.0	196.2	6.44	6.96	1260.		.6	10	+.12	1115P 1145P	"
113	12/31	" "	98.0	263.4	7.52	7.38	1980.		.6	11	0	105A 130A	"
114	12/31	" "	96.0	250.7	6.89	7.34	1730.		.6	11	-.07	135A 200A	"
115	12/31	Cooper-Cooper	82.0	131.2	5.41	6.26	711.		.6	15	-.08	823A 850A	"
116	12/31	Cooper-DeVore	79.0	114.5	4.56	5.90	522.		.6	15	0	148P 208P	"
117	1/1	Cooper-Brown	62.5	84.68	3.75	5.44	317.		.6	15	-.02	946A 910A	"
118	1/2	" "	62.0	66.65	3.64	5.16	243.		.6	15	0	826A 842A	"
119	1/3	Reber-Brown	62.0	60.17	3.19	4.97	192.		.6	14	0	219P 245P	"
120	1/4	Cooper-Reber	62.0	57.0	3.00	4.88	171.		.6	15		818A 836A	"
121	1/5	Cooper-Reber	61.5	55.09	2.78	4.80	153.		.6	14		839A 856A	FC 11
122	1/6	Cooper-Brown	62.0	68.82	3.66	5.17	252.		.6	14	+.02	646A 705A	"
123	1/6	" "	62.0	66.61	3.45	5.14	230.		.6	14	-.01	136P 154P	"
124	1/7	Cooper-Cooper	62.0	60.80	3.28	5.01	199.		.6	14	0	854A 912A	"
125	1/8	" "	62.0	59.03	3.04	4.92	179.		.6	14		754A 812A	"
126	1/9	DeVore	61.5	56.25	2.84	4.80	160.		.6	14	0	1044A 1110A	"
127	1/10	Reber-Brown	61.0	53.72	2.73	4.75	149.		.6	14	0	325P 345P	"
128	1/11	Cooper-Reber	61.5	53.27	2.71	4.71	144.		.6	14	0	806A 822A	"
129	1/12	" "	61.5	53.84	2.65	4.66	143.		.6	14	0	834A 850A	"
130	1/12	" "	61.5	55.65	2.93	4.79	163.		.6	14	0	320P 344P	"
131	1/13	Cooper-Cooper	61.5	55.50	2.83	4.79	157.		.6	14	0	810A 828A	"
132	1/14	Cooper-Bartlett	35.5	51.97	2.70	4.71	140.		.6	15	-.01	855A 925A	"
133	1/15	" "	35.6	49.64	2.77	4.68	138.		.6	14	0	814A 836A	"
134	1/16	DeVore	35.7	51.13	2.65	4.66	135.		.6	15	0	939A 1009A	"
135	1/17	Brown-Cooper	35.5	50.27	2.68	4.62	134.		.6	14	0	230P 256P	"
136	1/18	Cooper-Bartlett	35.9	49.75	2.58	4.62	128.		.6	14	0	816A 838A	"
137	1/19	" "	48.0	52.58	2.50	4.62	130.		.6	16	0	808A 836A	"
138	1/20	" "	46.0	51.40	2.50	4.60	128.		.6	16	0	804A 825A	"
139	1/21	" "	44.7	49.61	2.50	4.58	124.		.6	16	0	828A 848A	"
140	1/22	Brown-Bartlett	44.7	50.70	2.50	4.56	127.		.6	17	0	823A 855A	"
141	1/23	DeVore	36.9	48.40	2.47	4.54	119.		.6	16	0	1031A 1101A	"
142	1/24	Brown-Cooper	44.2	49.94	2.35	4.53	117.		.6	17	0	1019A 1045A	"
143	1/25	Brown-Bartlett	44.2	49.14	2.34	4.51	115.		.6	17	0	802A 822A	"
144	1/26	Cooper-Brown	44.4	48.16	2.34	4.50	113.		.6	16	0	800A 823A	"
145	1/27	Cooper-Brown	44.3	47.66	2.28	4.48	108.		.6	16	0	752A 814A	FC 11
146	1/28	Cooper-DeVore	44.4	47.38	2.33	4.48	111.		.6	16		1029A 1053A	"
147	1/29	Cooper-Bartlett	46.0	57.71	2.80	4.85	162.		.6	15	-.02	818A 840A	"
148	1/30	DeVore	45.0	51.16	2.54	4.60	130.		.6	15	0	919A 946A	"
149	1/30	Cooper-Cooper	47.5	65.06	3.17	5.08	206.		.6	16	+.12	335P 400P	"
150	1/30	" "	67.0	106.0	5.30	5.99	562.		.6	15	+.18	600P 630P	"
151	1/30	" "	79.0	120.4	4.79	5.96	577.		.6	15	-.09	827P 900P	"
152	1/31	Brown-Cooper	81.0	76.70	3.34	5.23	256.		.6	17	-.02	1038A 1115A	"
153	2/1	" "	51.3	68.92	3.00	5.03	207.		.6	17	-.01	822A 852A	"
154	2/2	" "	46.1	62.08	3.05	4.96	189.		.6	17		740A 810A	"
155	2/3	" "	46.4	59.36	3.02	4.92	179.		.6	16	0	808A 833A	"
156	2/4	" "	46.4	59.74	2.94	4.90	176.		.6	18	0	614A 844A	"
157	2/5	Cooper-DeVore	46.6	60.44	2.93	4.91	177.		.6	16	+.01	930A 956A	"
158	2/6	Cooper-Brown	52.5	85.00	4.15	5.46	353.		.6	13	+.03	814A 829A	"
159	2/6	" "	67.0	102.8	5.15	5.86	529.		.6	15	+.05	1050A 1106A	"
160	2/6	Cooper-Cooper	98.0	273.0	7.11	7.68	1940		.6	14	+.20	458P 540P	"
161	2/6	Cooper-Brown	115.0	343.4	7.64	8.34	2620.		.6	15	+.08	745P 824P	"
162	2/6	" "	115.0	336.2	8.14	8.36	2730		.6	15	-.04	833P 915P	"
163	2/7	Cooper	107.0	239.4	6.75	7.64	1620.		.6	18	0	156P 240P	"
164	2/8	Cooper-Brown	93.0	176.1	6.19	6.73	1090.		.6	18	-.02	825A 904A	"
165	2/8	Cooper-DeVore	91.0	168.4	5.98	6.59	1010.		.6	18	-.02	225P 311P	"
166	2/9	Cooper-Brown	86.0	142.6	5.25	6.30	749.		.6	17	-.01	820A 847A	"
167	2/10	" "	86.0	134.4	4.55	5.98	612.		.6	17	0	905A 932A	"
168	2/11	" "	67.0	120.6	4.38	5.81	529.		.6	16	-.01	754A 817A	"
169	2/12	Cooper-Brown	67.0	114.8	4.27	5.67	490.		.6	18	0	738A 804A	FC 11
170	2/13	" "	67.0	114.2	4.33	5.62	494.		.6	16	0	745A 809A	"
171	2/13	" "	108.0	273.8	6.93	7.80	1900.		.6	14	+.25	1015P 1045P	"
172	2/13	" "	109.0	293.0	7.49	7.72	2200.		.6	19	+.15	1057P 1153P	"
173	2/14	" "	136.0	436.9	9.04	9.37	3950.		.6	17	+.10	640A 715A	"
174	2/14	" "	137.0	437.4	9.50	9.42	4150.		.6	16	+.17	738A 800A	"
175	2/14	Cooper	136.0	450.2	9.07	9.40	3180.		.6	18	+.01 -.02	454P 538P	"
176	2/15	Cooper-Brown	135.0	392.0	8.11	8.91	2400.		.6	17	+.04	838A 905A	"
177	2/16	" "	131.0	309.1	5.66	8.46	1750.		.6	25	-.03	805A 838A	"
178	2/17	" "	127.0	229.0	5.09	7.38	1170.		.6	24	-.01	830A 905A	"
180	2/19	" "	Two	Channels		5.50	929.		.6	17	-.01	836A 908A	"
181	2/20	DeVore-DeVore	Two	Channels		5.36	824.		.6	15	0	1208P 1242P	FC 10
182	2/21	Brown-Cooper	Two	Channels		5.30	725.		.6	17	0	830A 916A	"
183	2/22	" "	Two	Channels		5.25	664.		.6	25	-.02	828A 923A	"
184	2/23	Cooper-Brown	Two	Channels		5.22	659.		.6	18	-.01	856A 936A	"
185	2/24	" "	Two	Channels		5.20	620.		.6	19	0	830A 913A	"
186	2/25	Cooper	Two	Channels		5.24	727.		.6	18	-.01	836A 935A	FC 29
187	2/26	Cooper-Brown	Two	Channels		5.18	634.		.6	17	-.01	826A 907A	FC 11
188	2/27	" "	Two	Channels		5.13	544.		.6	17	-.02	944A 1021A	"
189	2/28	" "	61.0	121.6	4.58	5.11	557.		.6	14	-.01	955A 1033A	"
190	3/1	" "	67.0	128.3	4.21	5.08	541.		.6	15		1010A 1035A	FC 11
191	3/2	" "	67.0	126.9	4.00	5.07	508.		.6	15		800A 824A	"
192	3/3	" "	67.0	125.6	4.00	5.07	501.		.6	15		823A 853A	"
193	3/4	Cooper-Brown	67.0	124.4	4.02	5.05	501.		.6	15		925A 955A	FC 11
194	3/5	" "	66.5	121.4	4.00	5.04	486.		.6	15		816A 840A	"
195	3/6	Brown-DeVore	66.0	123.4	3.79	5.04	468.		.6	15		1057A 1123A	"
196	3/7	Brown	65.5	122.5	3.94	5.03	482.		.6	15		921A 955A	"
197	3/8	Cooper-Brown	66.0	118.8	3.79	5.02	450.		.6	15		836A 902A	"
198	3/9	" "	65.7	119.8	3.66	5.02	436.		.6	15		837A 858A	"
199	3/10	" "	66.5	121.2	3.90	5.02	472.		.6	15		755A 823A	"
200	3/11	" "	66.0	120.3	3.74	5.01	451.		.6	15		750A 816A	"
201	3/12	" "	Two	Channels		5.24	734.		.6	17	+.05	1042A 1123A	"
202	3/12	Cooper	Two	Channels		5.54	1050		.6	17	+.06	222P 258P	"
203	3/12	Cooper-Brown	Two	Channels		6.41	1390.		.6	18	+.06	936P 950P	"
204	3/13	" "	140.0	355.6	8.78	7.72	3130.		.6	15	+.10 -.08	647A 710A	"

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 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
205	3/13	Cooper	142.0	326.2	7.70	7.59	2510		.6	17	-.04	1006A 1038A	"
206	3/13	"	141.0	308.6	6.39	7.20	1970.		.6	17	-.04	105P 148P	"
207	3/13	Cooper-Cooper	141.0	264.8	6.90	7.06	1820.		.6	17	-.06	346P 415P	"
208	3/14	Cooper-Brown	137.0	192.4	6.43	6.93	1240.		.6	18	-.01 +.02	929A 958A	"
209	3/15	" "	Two	Channels		5.51	1040		.6	22	-.01	830A 925A	"
210	3/15	Cooper-Anderson	140.0	279.8	7.23	7.10	2020.		.6	15	+.26	940P 1007P	"
211	3/15	" "	140.5	314.9	7.91	7.45	2390.		.6	15	+.08	1042P 1112P	"
212	3/16	Cooper	138.0	259.9	7.30	6.78	1740		.6	15	0	837A 900A	"
213	3/17	Cooper-Brown	Two	Channels		5.93	1440		.6	15	-.02	825A 900A	"
214	3/18	Cooper	Two	Channels		5.64	1270		.6	14	-.02	758A 826A	"
215	3/19	Brown	Two	Channels		5.43	1150		.6	12	0	825A 900A	FC 10
216	3/20	DeVore-Hall	Two	Channels		5.30	1150.		.6	22	-.01	1245P FC 10 147P FC 11	
217	3/21	Cooper-Brown	Two	Channels		5.24	1040		.6	21	0	818A 855A	FC 10
218	3/22	" "	Two	Channels		5.57	1250.		.6	20	-.08	803A 847A	FC 11
219	3/23	" "	Two	Channels		5.18	969.		.6	19	0	755A 826A	"
220	3/24	" "	Two	Channels		5.12	919		.6	20	-.01	810A 857A	"
221	3/25	" "	Two	Channels		5.09	906.		.6	19	0	816A 858A	"
222	3/26	Cooper-Hall	Two	Channels		5.02	863.		.6	20	0	852A 932A	"
223	3/27	DeVore	Two	Channels		4.98	856.		.6	21	0	1003A 1109A	"
224	3/28	Brown	Two	Channels		4.99	835.		.6	19	0	815A 913A	"
225	3/29	Cooper-Brown	Two	Channels		4.93	783.		.6	20	0	730A 806A	"
226	3/30	" "	61.5	153.6	4.77	4.90	735.		.6	20	0	945A 1025A	"
227	3/30	Cooper-DeVore	62.0	154.4	4.77	4.88	740.		.6	13	0	223P 251P	"
228	3/31	Cooper-Brown	61.5	152.6	4.79	4.90	733.		.6	13		755A 822A	"
229	4/1	" "	62.0	152.4	4.87	4.91	743.		.6	13	0	800A 824A	"
230	4/2	Cooper-Hall	62.0	156.1	5.08	4.96	795.		.6	13	4.02	750A 820A	"
231	4/3	DeVore-Brown	62.0	157.6	4.82	4.91	761.		.6	13	0	933A 1008A	"
232	4/4	Brown	62.0	152.8	4.68	4.86	717.		.6	13	0	759A 841A	"
233	4/5	Cooper-Brown	61.5	149.3	4.51	4.84	678.		.6	13	0	757A 825A	"
234	4/6	" "	61.5	148.4	4.61	4.84	686.		.6	13	0	743A 808A	"
235	4/7	" "	61.5	145.6	4.52	4.83	659.		.6	13	0	801A 821A	"
236	4/8	" "	61.5	146.4	4.41	4.81	647.		.6	13	0	801A 821A	"
237	4/9	" "	61.5	145.1	4.27	4.79	621.		.6	13	0	732A 751A	"
238	4/10	DeVore-Brown	61.0	145.7	4.38	4.75	638.		.6	13	0	958A 1021A	"
239	4/11	Brown	61.0	141.8	4.30	4.74	610.		.6	13	0	742A 815A	"
240	4/12	Cooper-Brown	61.0	141.2	4.34	4.73	613.		.6	13	0	810A 832A	"
241	4/13	Cooper-Brown	61.0	137.3	4.32	4.71	593.		.6	13	0	721A 740A	FC 11
242	4/14	" "	61.0	140.0	4.25	4.71	596.		.6	13	0	804A 833A	"
243	4/15	Cooper-Green	61.0	145.5	4.37	4.76	636.		.6	13	0	930A 1005A	"
244	4/16	" "	61.0	144.0	4.47	4.78	644.		.6	13	0	754A 822A	"
245	4/17	DeVore	61.0	148.0	4.14	4.71	613.		.6	13	0	1123A 1208P	"
246	4/18	Brown	61.0	139.7	4.02	4.68	562.		.6	13	0	1155A 1225P	"
247	4/19	Brown-Green	61.0	137.1	4.05	4.67	555.		.6	13	0	904A 930A	"
248	4/20	" "	61.0	138.6	3.96	4.67	549.		.6	13	0	810A 835A	"
249	4/21	Cooper-Brown	61.0	135.6	4.06	4.67	550.		.6	13	0	755A 815A	"
250	4/22	Cooper-Green	61.0	134.6	4.22	4.68	568.		.6	13	0	800A 822A	"
251	4/23	" "	61.0	133.8	4.04	4.65	541.		.6	13	0	810A 833A	"
252	4/24	DeVore-Brown	61.0	133.5	3.88	4.62	518.		.6	13	0	1034A 1055A	"
253	4/25	Brown	61.0	129.7	3.80	4.62	493.		.6	13	0	808A 840A	"
254	4/26	Cooper-Brown	61.0	129.2	3.68	4.62	477.		.6	13	0	830A 850A	"
255	4/27	Brown-Green	61.0	126.0	3.85	4.58	485.		.6	13	0	834A 859A	"
256	4/28	" "	61.0	125.6	3.79	4.56	477.		.6	13	0	810A 836A	"
257	4/29	Cooper-Brown	61.0	124.4	3.54	4.55	455.		.6	13	0	805A 825A	"
258	4/30	Cooper-Green	61.0	124.2	3.65	4.53	453.		.6	13	0	933A 955A	"
259	5/1	DeVore	60.5	123.6	3.63	4.51	448.		.6	12	-.01	1218P 103P	"
260	5/2	Cooper-Brown	60.5	121.0	3.54	4.52	428.		.6	12	0	752A 812A	"
261	5/3	" "	60.5	121.6	3.57	4.52	434.		.6	12	0	726A 745A	"
262	5/4	Brown-Green	61.0	120.8	3.62	4.52	437.		.6	12	0	817A 840A	"
263	5/5	" "	61.0	122.2	3.54	4.52	432.		.6	12	0	837A 900A	"
264	5/6	Cooper-Brown	61.0	122.1	3.53	4.51	432.		.6	12	0	758A 810A	"
265	5/7	Cooper-Green	61.0	119.1	3.53	4.51	420.		.6	12	0	911A 931A	FC 11
266	5/8	DeVore-Brown	61.0	119.8	3.55	4.50	425.		.6	12	0	1026A 1058A	"
267	5/9	Brown	61.0	119.9	3.50	4.51	420.		.6	12	0	805A 835A	"
268	5/10	Cooper-Brown	61.0	119.4	3.50	4.51	418.		.6	12	0	758A 820A	"
269	5/11	Brown-Green	61.0	119.9	3.50	4.50	420.		.6	12	0	815A 837A	"
270	5/12	" "	61.0	119.7	3.38	4.50	404.		.6	12	0	820A 845A	"
271	5/13	Cooper-Brown	61.0	120.8	3.41	4.51	412.		.6	12	0	750A 814A	"
272	5/14	Cooper-Green	61.0	120.3	3.55	4.51	427.		.6	12	0	859A 919A	"
273	5/15	DeVore	61.0	123.0	3.48	4.50	428.		.6	12	0	1112A 1150A	"
274	5/16	Brown	61.0	120.4	3.55	4.50	427.		.6	12	0	755A 820A	"
275	5/17	Brown-Green	61.0	119.4	3.38	4.49	403.		.6	12	0	817A 843A	"
276	5/18	" "	61.0	119.3	3.24	4.47	387.		.6	12	0	820A 844A	FC 10
277	5/19	" "	60.5	117.3	3.28	4.46	385.		.6	12	0	833A 854A	FC 11
278	5/20	Cooper-Brown	59.5	112.9	3.26	4.45	368.		.6	12	0	816A 838A	"
279	5/21	" "	59.5	110.1	3.15	4.45	347.		.6	12	0	655A 714A	"
280	5/22	DeVore	61.0	112.4	3.16	4.44	356.		.6	12	0	1146A 1212P	"
281	5/23	Brown	59.5	111.4	3.21	4.44	357.		.6	12	0	850A 921A	"
282	5/24	Cooper-Brown	59.5	108.6	3.14	4.44	341.		.6	12	0	729A 748A	"
283	5/25	Brown-Green	59.5	108.6	3.05	4.44	331.		.6	12	0	813A 835A	"
284	5/26	" "	59.5	109.6	3.08	4.44	338.		.6	12	0	825A 846A	"
285	5/27	Cooper-Brown	59.0	108.1	2.96	4.43	320.		.6	12	0	724A 744A	"
286	5/28	Cooper-Green	59.0	106.4	2.96	4.42	315.		.6	12	0	809A 830A	"
287	5/29	DeVore-Brown	59.0	107.8	3.00	4.42	324.		.6	12	0	825A 845A	"
288	5/30	Cooper-Brown	59.0	107.2	2.93	4.41	314.		.6	12	0	816A 834A	"
289	5/31	Brown-Green	59.0	106.9	2.88	4.40	304.		.6	12	0	826A 854A	FC 11
290	6/1	" "	59.0	106.9	2.76	4.40	295.		.6	12	0	829A 853A	"
291	6/2	" "	59.0	104.3	2.67	4.39	279.		.6	12	0	812A 835A	"
292	6/3	Cooper-Brown	59.0	103.7	2.72	4.38	282.		.6	12	0	788A 805A	"

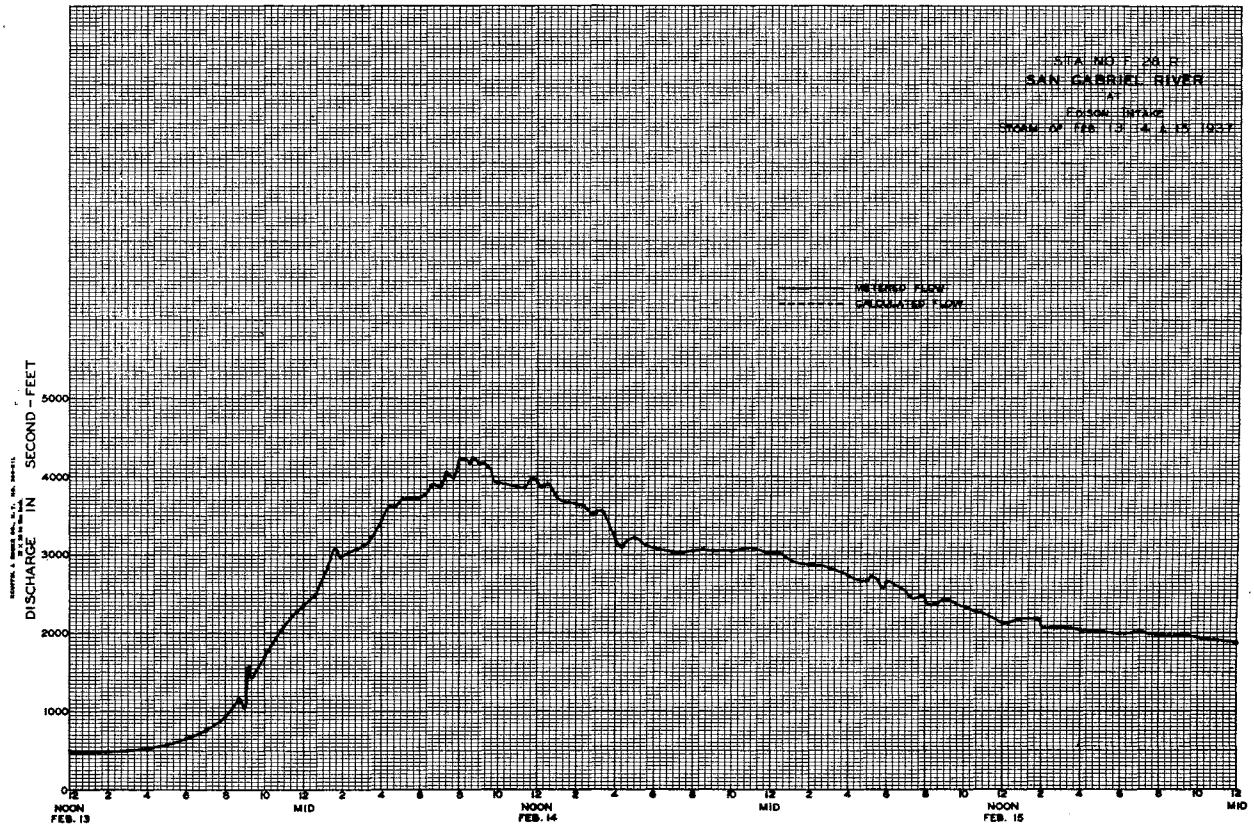
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.
Sta. No. F28R
Daily discharge, in second-feet, of SAN GABRIEL RIVER at Edison Intake for the year ending September 30, 19 37

F. C. Dist. Form M 146 4-36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	47	23	309	207	520	742	441	288			
2	14	36	24	295	187	511	765	426	280			
3	15	30	24	294	179	502	742	426	Station abandoned -			
4	14	29	25	168	174	493	698	426	for subsequent record.			
5	13	34	24	154	135	494	670	419	See F23R			
6	13	27	30	241	1400	457	668	426				
7	13	25	29	177	2	457	646	419				
8	12	24	28	161	690	456	638	426				
9	12	25	27	151	732	457	609	419				
10	12	25	27	150	602	457	609	419				
11	12	25	27	142	519	2010	602	412				
12	12	24	26	155	486	831	602	397				
13	12	24	26	157	719	1210	595	404				
14	12	24	26	142	3490	1110	609	419				
15	12	23	25	137	2320	638	638	426				
16	11	22	455	136	1580	1710	631	419				
17	11	21	459	131	1190	1370	595	397				
18	11	21	1515	130	1050	1250	580	395				
19	11	20	1105	128	927	1140	565	368				
20	11	20	776	127	795	1037	551	346				
21	10	21	700	123	676	1120	543	351				
22	10	22	657	119	656	964	529	361				
23	10	22	597	118	637	949	514	339				
24	10	22	567	116	626	895	507	331				
25	10	22	569	115	627	840	485	339				
26	10	20	563	115	588	835	478	317				
27	10	20	522	112	549	818	470	317				
28	10	20	499	112		772	456	324				
29	10	20	504	144		758	441	302				
30	10	25	583	256		742		317	565 inc.			
31	10	25		269					June 1-2			
Total	369	776	4554	4985	24260	26748	17807	11893				
Mean	20.6	25.9	140	161	866	863	594	364	June 1-2 1130 inc.			
Max.	1270	1540	8640	9890	48120	53050	35320	23590				
Min.												

Remarks:

Mean Oct. 1—June 2 Acre-Feet 186000 inc.



STATION F250R

SAN GABRIEL - AZUSA CONDUIT at sand box weir

LOCATION:

On the east side of the sandbox on Azusa Conduit, 12 feet above the 25 foot weir and approximately 150 feet below the temporary intake in the 30-foot outlet tunnel at San Gabriel Dam No. 1; approximately 2500 feet below the old Edison (abandoned) Intake, and approximately 3900 feet above Station F220R.

CHANNEL AND CONTROL:

Channel - concrete sandbox. There is a concrete by-pass around the sandbox. There are gates in the sandbox 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 sandbox above the 25 foot weir at various times prior to completion of the dam.
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 Taintor gate.

RECORDER:

Installed February 14, 1935 in a F. C. standard type house, over a 24 inch corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

The flow of the San Gabriel River, available at the intake, is partially regulated by San Gabriel Dam No. 2, and, beginning November 17, 1937 by San Gabriel Dam No. 1

RECORDS AVAILABLE:

February 14, 1935 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-37
Maximum 112 second-feet March 13.
Minimum no flow at various times.
1937-38
Maximum 139 second-feet February15.
Minimum no flow for several months.
February 14, 1935 to September 30, 1938
Maximum 165 second-feet April 8, 1935.
Minimum no flow at times each year.

ACCURACY:

Good.
Recorder removed April 1, 1938 to repair damage done by March 2 storm; recorder re-installed June 27, 1938, record estimated.
Discharge Estimated:
October 8, 9, 1936; September 27, 28, 1937.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District in cooperation with the Pasadena Water Department.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F250R

Daily discharge, in second-feet of SAN GABRIEL - AZUSA CONDUIT at Sand box weir for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	100	44	20	+	05	90	82	03	0	0	0	54
2	131	32	20	+	06	92	89	02	0	0	0	46
3	138	26	23	0	03	92	91	05	0	0	0	45
4	112	25	42	+	00	92	91	03	0	0	0	43
5	77	33	32	0	00	90	90	04	0	0	0	42
6	107	25	29	01	00	90	91	03	0	0	0	42
7	112	24	28	+	00	90	91	05	0	0	0	41
8	100	24	27	02	00	90	91	06	0	0	0	41
9	100	24	24	04	00	90	90	06	0	0	0	40
10	100	20	26	06	00	90	90	06	0	0	0	39
11	105	24	25	05	00	90	91	05	0	0	0	38
12	83	22	26	04	00	90	90	05	0	0	37	37
13	100	19	24	04	00	92	90	01	0	0	25	41
14	106	21	24	06	00	87	87	00	0	0	39	42
15	112	21	32	06	21	91	87	00	0	0	40	40
16	138	18	49	07	62	83	88	00	0	0	44	39
17	250	181	58	08	63	87	88	00	0	0	45	38
18	300	175	39	05	81	91	87	00	0	0	41	38
19	600	166	01	05	91	91	87	00	0	0	37	37
20	38	166	01	06	91	92	86	00	0	0	35	38
21	27	188	01	06	89	90	86	00	0	0	34	39
22	26	200	00	07	88	92	86	00	0	0	39	40
23	20	229	+	06	79	91	85	00	0	0	35	40
24	22	226	+	05	74	90	83	00	0	0	35	39
25	20	244	+	05	94	92	83	00	0	0	34	38
26	188	255	01	07	92	94	87	00	0	0	30	35
27	161	233	01	05	91	91	174	00	0	0	29	37
28	195	244	+	05	83	90	90	00	0	0	34	38
29	155	244	01	04		90	06	00	0	0	32	40
30	144	244	+	02		79	05	00	0	0	50	40
31	578	706	548	127	2770	81	2306	52	0	0	721	1202
Mean	18.7	23.6	17.7	.41	39.5	89.4	76.9	.17	0	0	23.3	40.1
Acre-Feet	1150	1400	1090	25	2190	5490	4570	10	0	0	1430	2380

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

Year to Date Mean 27.3
Year to Date Acre-Feet 19740

F. C. Dist. Form 12 No 2-48

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F250R

Daily discharge, in second-feet of SAN GABRIEL - AZUSA CONDUIT at sand box weir for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	40	35	34	0	33	0	0	0	0	0	0	0
2	39	35	35	0	94	0	0	0	0	0	0	0
3	40	34	36	0	102	0	0	0	0	0	0	0
4	41	35	35	0	105	0	0	0	0	0	0	0
5	41	35	35	0	98	0	0	0	0	0	0	0
6	40	37	35	0	98	0	0	0	0	0	0	0
7	39	38	35	0	98	0	0	0	0	0	0	0
8	38	38	36	0	68	0	0	0	0	0	0	0
9	37	38	37	0	68	0	0	0	0	0	0	0
10	37	38	44	0	71	0	0	0	0	0	0	0
11	37	37	64	0	77	0	0	0	0	0	0	0
12	36	38	104	0	88	0	0	0	0	0	0	0
13	35	38	36	0	86	0	0	0	0	0	0	0
14	36	38	0	0	69	0	0	0	0	0	0	0
15	39	39	0	0	85	0	0	0	0	0	0	0
16	39	39	0	3.6	58	0	0	0	0	0	0	0
17	37	162	161	24	37	0	0	0	0	0	0	0
18	35	300	53	24	28	0	0	0	0	0	0	0
19	35	300	57	36	0	0	0	0	0	0	0	0
20	34	300	172	48	0	0	0	0	0	0	0	0
21	33	300	0	88	0	0	0	0	0	0	0	0
22	32	300	0	88	0	0	0	0	0	0	0	0
23	32	300	0	87	0	0	0	0	0	0	0	0
24	33	311	54	66	0	0	0	0	0	0	0	0
25	33	311	83	91	0	0	0	0	0	0	0	0
26	32	311	65	91	0	0	0	0	0	0	0	0
27	32	312	32	90	0	0	0	0	0	0	0	0
28	32	312	+	87	0	0	0	0	0	0	0	0
29	32	314	0	83		0	0	0	0	0	0	0
30	32	333	0	85		0	0	0	0	0	0	0
31	33		0	74		0		0		0		0
	1110	10122	939.3	1133.6	1431		0	0	0	0	0	0
Mean	35.8	33.7	30.3	36.6	51.1	0	0	0	0	0	0	0
Acre-Feet	2200	2010	1860	2250	2840	0	0	0	0	0	0	0

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

Year to Date Mean 15.4
Year to Date Acre-Feet 11160

F. C. Dist. Form 12 No 2-48

STATION F220R

SAN GABRIEL - AZUSA CONDUIT at North Portal #4-B Tunnel

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. The station is about 3900 feet below station F250R, and about 9 miles north of Azusa.

CHANNEL AND CONTROL:

Station located on short open section of concrete channel.
Channel walls straightened on December 19, 1936.
The flow over the 25 foot weir (station F250R) may be spilled before reaching station F220R.
Flow which reaches station F220R may not pass over, but be by-passed around the 25 foot weir.

DISCHARGE MEASUREMENTS:

From top of opening.

RECORDER:

Installed February 26, 1933 in an F. C. standard type house over a 21 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1936 to September 30, 1938.

RECORDS AVAILABLE:

February 26, 1933 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 99 second-feet March 22.
Minimum not determined.
1937-1938
Maximum 94 second-feet February 4.
Minimum not determined.
1933-1938
Maximum 100 second-feet April 11, 1936.
Minimum not determined.

ACCURACY:

Good.
On the following days, when clock stopped, the discharge at station F250R was used for determining the monthly and yearly totals: October 18-22, November 20-22, 1936; February 18-22, 24, 25, March 5-10, 1937.
When water was below invert of the communication pipe, discharge was interpolated between measurements or, when necessary, between field estimates (discharge probably entirely from water developed in the conduit between stations F250R and F220R). The above condition was experienced December 19, 1936 to February 14, 1937, May 1, 1937 to August 11, 1937; January 6 to 13, 1938, March 19, 1938 to September 30, 1938.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District in cooperation with the Pasadena Water Department.

F. C. D. FORM 104 1M 8-36

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 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Percent Diff.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Cooper	4.6	4.53	3.01	0.96	14		.6	10	0	1118A 1132A	FC 11
2	10/4	Reber-Brown	4.6	4.19	2.82	.87	12		.6	10	0	1017A 1026A	"
3	10/8	Cooper-Reber	4.6	3.27	2.37	0.69	7.7		.6	10	0	207P 225P	"
4	10/8	" "	4.6	4.26	2.80	0.89	12		.6	10	0	305P 323P	"
5	10/11	Reber-Brown	4.6	4.34	2.98	.93	13		.6	10	0	1104A 1114A	"
6	10/15	Cooper	4.6	4.40	2.92	.93	13		.6	10	0	322P 336P	"
7	10/18	Reber-Brown	4.6	6.84	4.18	1.46	29		.6	10	0	1024A 1034A	"
8	10/22	Cooper-DeVore	4.6	6.62	4.07	1.42	27		.6	10	0	1140A 1150A	"
9	10/25	Reber-Brown	4.6	5.87	3.79	1.29	22		.6	10	0	1113A 1123A	"
10	10/29	DeVore-Cooper	4.6	4.71	3.10	1.00	15		.6	10	0	253P 303P	"
11	11/2	Reber	4.6	7.83	4.28	1.70	34		.6	10	0	225P 236P	"
12	11/5	Cooper-DeVore	4.6	8.67	4.37	1.86	38		.6	10	-.01	943A 954A	"
13	11/9	Reber	4.6	5.88	3.72	1.25	22		.6	10	0	334P 346P	"
14	11/10	Reber-DeVore and Cooper	4.6	5.60	3.65	1.19	20		.6	10	0	345P 356P	"
15	11/12	Cooper-Cooper	4.6	6.46	3.88	1.38	25		.6	10	0	1135A 1149A	"
16	11/15	Reber	4.6	5.91	3.74	1.27	22		.6	10		322P 332P	"
17	11/19	Cooper-DeVore	4.6	5.58	3.50	1.20	20		.6	10	0	1216P 1226P	"
18	11/22	Reber-Brown	4.6	5.86	3.75	1.28	22		.6	10	0	1040A 1049A	"
19	11/25	DeVore-Reber	4.6	5.86	3.81	1.28	22		.6	10	0	242P 251P	"
20	11/29	Brown-Reber	4.6	6.60	3.98	1.41	26.		.6	10	0	1043A 1055A	"
21	12/3	DeVore-Reber	4.6	5.73	3.66	1.23	21		.6	10	0	206P 218P	FC 33
22	12/6	Reber	4.6	7.36	4.20	1.59	31		.6	10	0	1015A 1026A	FC 11
23	12/10	Cooper-DeVore	4.6	6.81	4.01	1.47	27		.6	10	-.01	1139A 1152A	"
24	12/13	Reber	4.6	6.76	4.11	1.47	28		.6	10	0	926A 936A	"
25	12/17	Cooper-DeVore	4.6	9.23	4.36	2.02	40.		.6	10	0	251P 308P	FC 11
26	2/16	Cooper-Brown	4.6	17.98	4.72	3.91	85.		.6	10	+.02	1225P 1240P	FC 10
27	2/16	" "	4.6	17.87	5.02	3.88	90.	.2 .8	10	-.05	1255P 116P	"
28	2/16	Brown	4.6	18.35	4.99	3.99	92.	.2 .8	10	-.02 +.02	227P 253P	FC 29
29	2/25	Cooper	4.6	18.76	4.94	4.08	93.	.2 .8	10	+.01	250P 316P	"
30	2/28	Brown	4.6	18.15	4.95	3.95	90.	.2 .8	10	0	255P 318P	"
31	3/4	Cooper-DeVore	4.6	18.17	4.92	3.94	89.	.2 .8	10	-.01	214P 232P	FC 11
32	3/4	Brown-DeVore	4.6	18.16	5.00	3.95	91.	.2 .8	10	0	241P 300P	"
33	3/4	DeVore-Brown	4.6	18.16	4.99	3.94	91.	.2 .8	10	0	306P 328P	"
35	3/6	DeVore-Brown	4.6	18.13	4.98	3.94	90.	.2 .8	10	0	317P 336P	"
36	3/10	DeVore-Cooper	4.6	18.13	4.95	3.94	90.	.2 .8	10	0	1220P 1240P	"
37	3/10	Cooper-DeVore	4.6	18.13	4.97	3.94	90.	.2 .8	10	0	1243P 101P	"
38	3/11	" "	4.6	18.12	4.95	3.93	90.	.2 .8	10	0	250P 318P	"
39	3/11	DeVore-Cooper	4.6	18.04	4.98	3.93	90.	.2 .8	10	-.01 +.01	324P 345P	"
40	3/17	Cooper-Brown	4.6	18.52	4.98	4.01	92.	.2 .8	10	0	100P 124P	FC 29
41	3/17	" "	4.6	18.52	5.06	4.01	94.	.2 .8	10	-.03	130P 155P	"
42	3/21	Brown	4.6	18.45	5.03	4.01	93.	.2 .8	10	-.21	313P 334P	FC 10
43	3/24	Brown-Hall	4.6	18.39	5.14	3.96	95.	.2 .8	10	0	249P 311P	"
44	3/24	" "	4.6	18.37	5.06	3.96	93.	.2 .8	10	0	334P 357P	"
45	3/31	Cooper	4.6	15.92	4.97	3.47	79.	.2 .8	10	0	1155A 1215P	FC 11
46	4/7	Cooper-DeVore	4.6	18.35	5.04	3.97	93.	.2 .8	10	0	1136A 1156A	"
47	4/8	Cooper-Hall	4.6	18.44	4.92	3.99	91.	.2 .8	10	0	1124A 1146A	"
48	4/13	Brown	4.6	18.54	5.00	3.98	93.	.2 .8	10	0	1022A 1048A	FC 10
49	4/15	DeVore-Cooper	4.6	17.18	5.01	3.76	86.	.2 .8	10	0	328P 400P	FC 11
50	4/15	" "	4.6	17.24	4.95	3.76	85.	.2 .8	10	0	416P 436P	"
51	4/19	Brown-Green	4.6	17.61	4.80	3.63	85.	.2 .8	10	0	243P 304P	FC 10
52	4/19	" "	4.6	16.81	5.00	3.63	84.	.2 .8	10	0	328P 353P	"
53	4/21	DeVore-Cooper	4.6	16.73	5.00	3.62	84.	.2 .8	10	0	147P 207P	FC 11
54	4/21	" "	4.6	16.68	4.93	3.62	82.	.2 .8	10	0	226P 246P	FC 29
56	5/12	Brown	4.6	.57	.06	0.13	0.04		F1	5		216P	
57	6/12	DeVore-Brown	1.5	.04	.76	0.10	0.03		F1	4		200P	
59	7/9	DeVore-Cooper	1.5	.03	1.07	0.13	0.03		F1	4	0	404P 415P	
60	8/12	Cooper	4.6	15.52	4.93	3.42	78.	.2 .8			-.01	305P 333P	FC 11
61	8/16	Brown	4.6	16.44	5.03	3.53	83.	.2 .8	10		+.01 -.02	1152A 1214P	FC 10
62	8/19	Cooper-DeVore	4.6	15.81	4.80	3.45	76.	.2 .8	10		-.01	234P 252P	FC 11
63	8/22	DeVore	4.6	14.82	4.82	3.22	72.	.2 .8	10		-.02	318P 338P	"
64	8/24	Brown	4.6	14.49	4.90	3.17	71.	.2 .8	10		+.03 -.01	1117A 1142A	"
65	8/26	Cooper	4.6	13.55	4.82	2.96	65.	.2 .8	10		-.02	1112A 1132A	"
66	8/28	DeVore	4.6	13.27	4.54	2.91	60.	.2 .8	10		+.01	334P 355P	"
67	8/31	Brown	4.6	13.26	4.76	2.90	63.	.2 .8	10		+.03 -.01	1110A 1134A	"
68	9/2	DeVore-Cooper	4.6	11.06	4.56	2.42	50.	.2 .8	10		-.01	1144A 1206P	"
69	9/2	" "	4.6	11.06	4.57	2.42	50.	.6	10		-.01	1210P 1220P	"
70	9/4	DeVore	4.6	10.44	4.53	2.23	47.	.2 .8	10		+.01 -.02	1159A 1218P	"
71	9/4	"	4.6	10.44	4.50	2.27	47.	.6	10		0	1221P 1230P	"
72	9/7	Brown	4.6	9.40	4.30	2.03	40.	.2 .8	10		0	453P 520P	"
73	9/7	"	4.6	9.40	4.42	2.03	42.	.6	10		0	525P 534P	"
74	9/8	Cooper-DeVore	4.6	9.99	4.45	2.16	44.	.2 .8	10		-.04 +.03	1143A 1200N	"
75	9/8	Cooper-DeVore	4.6	9.99	4.45	2.18	44.	.6	10		-.01	1203P 1211P	FC 11
76	9/10	DeVore-Cooper	4.6	9.10	4.30	1.98	39.	.2 .8	10		+.01 -.02	336P 352P	"
77	9/10	" "	4.6	9.10	4.36	1.98	40.	.6	10		+.02	354P 404P	"
78	9/14	Brown-Brown	4.6	10.18	4.35	2.23	44.	.2 .8	10		0	107P 126P	"
79	9/14	" "	4.6	10.18	4.40	2.22	45.	.6	10		0	131P 140P	"
80	9/16	Cooper-Cooper	4.6	9.38	4.30	2.05	40.	.6	10		0	120P 130P	"
81	9/21	Brown	4.6	9.51	4.26	2.10	40.	.2 .8	10		0	1133A 1153A	"
82	9/21	"	4.6	9.51	4.27	2.10	41.	.6	10		-.01	1158A 1208P	"
83	9/23	Cooper	4.6	10.09	4.29	2.17	43.	.6	10		0	1226P 1238P	"
84	9/27	Cooper-Brown	4.6	9.42	4.20	2.02	40.	.6	10		0	105P 113P	"
85	9/27	" "	4.6	9.36	4.12	2.00	38.	.2 .8	10		+.01	219P 241P	"
86	9/29	Brown-Brown	4.6	9.71	4.20	2.11	41.	.2 .8	10		0	1159A 1221P	"
87	9/29	" "	4.6	9.71	4.19	2.10	41.	.6	10		0	1226P 1236P	"
88	9/30	DeVore-Cooper	4.6	10.14	4.25	2.19	43.	.2 .8	10		0	1038A 1100A	"
89	9/30	" "	4.6	10.14	4.28	2.18	43.	.6	10		0	1104A 1114A	"

F. C. D. FORM 104 1M 8-36

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 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Percent Diff.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
90	10/3	Brown	4.6	9.96	4.24	2.17	42.	.2 .8	10		0	402P 424P	FC 11
91	10/5	"	4.6	10.16	4.22	2.22	43.	.2 .8	10		0	1130A 1150A	"
92	10/5	"	4.6	10.16	4.26	2.22	43.	.6	10		0	1154A 1206P	"
93	10/7	Cooper-DeVore	4.6	10.04	4.14	2.14	42.	.2 .8	10		0	1122A 1144A	"
94	10/7	" "	4.6	10.04	4.24	2.14	43.	.6	10		0	1147A 1154A	"
95	10/9	DeVore	4.6	9.22	4.09	1.97	38.	.2 .8	10		-.03	257P 316P	"
96	10/9	"	4.6	9.22	4.22	1.96	39.	.6	10		0	319P 328P	"
97	10/14	Cooper-DeVore	4.6	9.64	4.09	2.06	39.	.2 .8	10		+.02 -.03	1124A 1143A	"
98	10/14	" "	4.6	9.64	4.22	2.05	41.	.6	10		-.02	1144A 1153A	"
99	10/16	DeVore-DeVore	4.6	9.93	4.09	2.15	41.	.2 .8	10		0	157P 216P	"
100	10/16	" "	4.6	9.93	4.26	2.14	42.	.6	10		-.01	219P 227P	"
101	10/21	DeVore-Cooper	4.6	9.10	4.00	1.92	36.	.2 .8	10		0	1036A 1055A	"
102	10/21	" "	4.6	9.10	4.05	1.92	37.	.6	10		0	1058A 1108A	"
103	10/23	DeVore-DeVore	4.6	8.99	3.95	1.88	35.	.2 .8	10		+.02 -.01	233P 251P	"
104	10/23	" "	4.6	8.99	4.03	1.88	36.	.6	10		0	253P 300P	"
105	10/28	DeVore-Cooper	4.6	9.00	3.87	1.90	35.	.2 .8	10		-.01 +.01	1215P 1232P	"
106	10/28	" "	4.6	9.00	4.08	1.90	37.	.6	10		0	1233P 1242P	"
107	10/30	DeVore	4.6	8.87	3.86	1.89	34.	.2 .8	10		-.01	253P 312P	"
108	10/30	"	4.6	8.87	4.08	1.88	36.	.6	10		0	316P 324P	"
109	11/4	DeVore-Cooper	4.6	9.33	3.97	1.99	37.	.2 .8	10		+.01	1148A 1208P	FC 32
110	11/4	" "	4.6	9.33	4.08	1.98	38.	.6	10		-.01	1210P 1222P	"
111	11/6	DeVore	4.6	9.66	3.92	2.05	38.	.2 .8	10		-.01	311P 329P	FC 11

F. C. D. FORM 104 1M 8-38

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 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Auto Percent Inc.	METH OD	MEAS. REGS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
112	11/6	"	4.6	9.65	4.10	2.04	40.		.6	10	+.01	332P 340P	"
113	11/10	Cooper-DeVore	4.6	9.82	3.97	2.10	39.		.2 .8	10	-.01	216P 236P	"
114	11/10	Cooper-DeVore	4.6	9.82	3.96	2.09	39.		.6	10	0	238P 247P	FC 11
115	11/13	DeVore-DeVore	4.6	9.88	4.02	2.12	40.		.2 .8	10	+.01	136P 154P	"
116	11/13	DeVore	4.6	9.88	4.13	2.12	41.		.6	10	-.02	157P 204P	"
117	11/18	Cooper-DeVore	4.6	8.22	3.97	1.76	32.		.6	10	0	353P 401P	"
118	11/20	DeVore-DeVore	4.6	8.43	3.83	1.80	32.		.2 .8	10	0	320P 348P	"
119	11/20	" "	4.6	8.43	3.95	1.80	33.		.6	10	0	350P 358P	"
120	11/21	Brown	4.6	8.51	3.82	1.82	32.		.2 .8	10	0	344P 404P	"
121	11/21	"	4.6	8.51	3.97	1.82	34.		.6	10	0	408P 417P	"
122	11/24	Cooper-DeVore	4.6	8.49	3.84	1.96	32.		.2 .8	10	+.01	216P 236P	FC 29
123	11/24	" "	4.6	8.49	3.96	1.85	33.		.6	10	0	238P 247P	"
124	11/27	DeVore	4.6	8.87	3.86	1.89	34.		.2 .6	10	0	340P 400P	FC 11
125	11/27	"	4.6	8.87	3.89	1.89	34.		.6	10	0	403P 411P	"
126	11/28	Brown	4.6	8.85	3.80	1.90	34.		.2 .8	10	0	318P 343P	FC 10
127	11/28	"	4.6	8.85	3.98	1.90	35.		.6	10	0	350P 400P	"
128	12/2	Cooper-DeVore	4.6	9.52	3.95	2.05	38.		.2 .8	10	+.02	1218P 1235P	FC 11
129	12/2	" "	4.6	9.52	4.10	2.05	39.		.6	10	-.02	1236P 1244P	"
130	12/4	DeVore	4.6	9.48	3.93	2.03	37.		.2 .8	10	-.01	239P 257P	"
131	12/4	"	4.6	9.48	4.08	2.02	39.		.6	10	0	301P 310P	"
132	12/5	Brown	4.6	9.34	3.98	2.01	37.		.2 .8	10	0	348P 408P	"
133	12/5	"	4.6	9.34	4.13	2.01	38.		.6	10	0	411P 419P	"
134	12/9	DeVore-Brown	4.6	9.67	3.98	2.10	38.		.2 .8	10	0	316P 333P	"
135	12/9	" "	4.6	9.67	4.18	2.10	40.		.6	10	0	334P 343P	"
136	12/12	Brown	4.6	17.81	4.61	3.86	82.		.2 .8	10	0	411P 430P	FC 10
137	12/18	DeVore	4.6	12.71	4.41	2.76	56.		.2 .8	10	0	347P 406P	FC 11
138	12/19	Brown-Penrod	4.6	12.61	4.40	2.73	56.		.2 .8	10	0	356P 413P	FC 11
139	12/19	" "	4.6	12.61	4.31	2.73	54.		.6	10	0	418P 427P	"
140	12/26	Brown-Brown	4.6	18.81	4.62	4.09	87.		.2 .8	10	0	245P 303P	FC 10
141	12/26	" "	4.6	18.81	4.80	4.09	90.		.6	10	0	308P 316P	"
142	1/6	DeVore	1.25	0.02	0.62	0.11	0.01		F1	5	0	212P 215P	
143	1/13	"	1.50	0.02	0.62	0.12	0.01		F1	5	0	122P 127P	
144	1/19	DeVore-Brown	4.6	17.10	4.70	3.71	80.		.2 .8	10	0	225P 242P	FC 11
145	1/20	" "	4.6	17.17	4.67	3.71	79.		.2 .8	10	0	313P 333P	FC 18
146	1/22	DeVore	4.6	19.31	4.67	4.19	89.		.2 .8	10	0	300P 322P	FC 32
147	1/22	"	4.6	19.31	4.73	4.19	90.		.6	10	0	326P 334P	"
148	1/23	Brown	4.6	19.18	4.62	4.16	88.		.2 .8	10	0	1219P 1244P	FC 18
149	1/23	"	4.6	19.18	4.70	4.16	89.		.6	10	0	1248P 1258P	"
150	1/25	"	4.6	19.60	4.64	4.24	91.		.2 .8	10	0	125P 145P	"
151	1/27	DeVore-Brown	4.6	19.52	4.56	4.21	88.		.2 .8	10	0	239P 256P	"
152	1/30	Brown	4.6	19.58	4.54	4.24	88.		.2 .8	10	0	301P 326P	"
153	2/6	"	4.6	20.20	4.48	4.38	90.		.2 .8	10	0	416P 435P	"
154	2/11	"	4.6	19.70	4.52	4.29	88.		.2 .8	10	+.01	921A 942A	"
155	2/15	DeVore-Brown	4.6	19.66	4.50	4.24	88.		.2 .8	10	0	329P 342P	"
156	2/17	Cooper-DeVore	4.6	19.46	4.65	4.20	90.		.2 .8	10	0	343P 302P	FC 11
157	4/18	Brown-Handt	4.6	.67	.09		0.06		F1	7	0	300P 320P	
158	4/27	Brown	4.6	.68	.07		0.05		F1	10	0	240P 252P	
159	5/5	Brown	4.6	.67	.07		0.05		F1	10	0	1210P 1226P	
160	5/12	"	4.6	.66	.06		0.04		F1	10	0	230P 245P	
161	6/6	"	4.6	.69	.05		0.04		F1	10		337P 352P	
162	7/13	Middleton	4.6	.70	.01		0.01		F1	10		315P 331P	
163	8/13	"	4.6	.69	.01		0.01		F1	6		1025A 1040A	
164	9/3	"	4.6	.71	.01		0.01		F1	5		300P 310P	

F. C. Dist. Form 82 M8 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F220R for the year ending September 30, 19 38

SAN GABRIEL - AZUSA CONDUIT at North portal #4-B Tunnel

Daily discharge, in second-feet of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	42	38	38	01	84	07	01	04	+	+	+	+
2	42	37	38	01	91	07	01	11	+	+	+	+
3	44	37	39	01	92	11	01	15	+	+	+	+
4	44	37	38	01	93	15	01	04	+	+	+	+
5	43	37	38	04	94	04	01	04	+	+	+	+
6	42	38	38	+	93	02	01	04	+	+	+	+
7	40	40	38	+	90	02	01	04	+	+	+	+
8	38	40	39	+	91	02	01	04	+	+	+	+
9	38	39	40	+	91	02	01	04	+	+	+	+
10	38	39	41	+	89	02	01	04	+	+	+	+
11	38	39	41	+	91	02	01	04	+	+	+	+
12	37	40	35	+	90	02	01	04	+	+	+	+
13	37	40	02	+	85	02	01	04	+	+	+	+
14	39	41	02	25	83	02	01	04	+	+	+	+
15	41	41	02	61	87	02	01	04	+	+	+	+
16	41	18.8	02	56	89	02	01	04	+	+	+	+
17	39	32	155	38	89	02	01	04	+	+	+	+
18	37	32	55	75	14	02	01	04	+	+	+	+
19	36	33	17.8	76	02	02	01	04	+	+	+	+
20	35	35	02	82	02	02	01	04	+	+	+	+
21	35	34	02	87	02	02	01	04	+	+	+	+
22	35	34	02	88	02	02	01	04	+	+	+	+
23	35	34	41	65	02	02	01	04	+	+	+	+
24	35	34	46	90	02	02	01	04	+	+	+	+
25	34	35	26	89	02	02	01	04	+	+	+	+
26	34	35	02	88	02	02	01	04	+	+	+	+
27	34	35	02	85	02	02	01	04	+	+	+	+
28	35	35	02	85	02	02	01	04	+	+	+	+
29	35	37	02	76	02	02	01	04	+	+	+	+
30	35	37	02			02	01	04	+	+	+	+
31	36		02			02	01					
	1174	1086.8	904.3	1311.5	1515.9	65	2.2		+	+	+	+

Mean	37.9	36.2	29.2	42.3	54.1	.21	.07		+	+	+	+
Acre-Feet	2330	2160	1790	2600	3010	13	4.4					

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

Year Mean 16.4
Period Acre-Feet 11910

F. C. Dist. Form 82 M8 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F220R for the year ending September 30, 19 37

SAN GABRIEL-AZUSA CONDUIT at North portal #4-B Tunnel

Daily discharge, in second-feet of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	113	391	208	+	+	+	776	01	+	+	+	574
2	137	312	208	+	+	912	849	01	+	+	+	489
3	147	263	230	+	+	909	909	01	+	+	+	455
4	129	252	257	+	+	912	909	01	+	+	+	441
5	136	236	319	+	+	906	909	+	+	+	+	441
6	116	249	284	+	+	+	909	+	+	+	+	432
7	122	227	272	+	+	+	909	+	+	+	+	425
8	110	220	240	+	+	+	909	+	+	+	+	420
9	112	206	256	+	+	+	909	+	+	+	+	411
10	110	200	254	+	+	+	912	+	+	+	+	411
11	107	205	245	+	+	914	914	+	+	+	+	394
12	105	205	254	+	+	914	912	+	+	+	+	422
13	111	209	245	+	+	880	896	+	+	+	+	432
14	125	213	250	+	+	933	858	+	+	+	+	425
15	128	213	250	+	+	933	858	+	+	+	+	415
16	254	198	366	+	+	858	858	+	+	+	+	397
17	257	194	373	+	+	881	861	+	+	+	+	392
18	+	184	220	+	+	933	842	+	+	+	+	390
19	+	176	+	+	+	934	842	+	+	+	+	385
20	+	+	+	+	+	934	815	+	+	+	+	385
21	+	+	+	+	+	920	818	+	+	+	+	397
22	+	+	+	+	+	934	813	+	+	+	+	415
23	+	+	+	+	+	934	815	+	+	+	+	421
24	+	+	+	+	+	934	815	+	+	+	+	415
25	+	+	+	+	+	934	815	+	+	+	+	385
26	+	+	+	+	+	934	807	+	+	+	+	385
27	+	+	+	+	917	937	807	+	+	+	+	377
28	+	+	+	+	909	917	172	+	+	+	+	380
29	+	+	+	+	896	880	01	+	+	+	+	392
30	+	+	+	+		784	01	+	+	+	+	404
31	+	+	+	+		784	01					404
	605.2	706.8	486.4	0.3	1106.8	2776.7	2269.0	1.3	0.9	0.9	1396.2	1252.1

Mean	19.5	23.6	15.7	.01	39.5	89.6	75.6	.04	.03	.03	45.0	41.7
Acre-Feet	1200	1400	965	.60	2200	5510	4500	2.7	1.9	1.8	2770	2480

Remarks: + Discharge at Sta. F250R used for purposes of determining the totals
Phi discharge proposed at this station.
+ indicates discharge 0.05 sec. ft. or less.

Year Mean 29.0
Period Acre-Feet 21030

STATION F190R

SAN GABRIEL RIVER at Foothill Boulevard

LOCATION:

On the downstream end of first pier from west end of bridge, about 2 miles west of Azusa, until April 20, 1938, when the recorder was moved to the downstream end of the ninth pier east of west end of bridge.

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. During the March 2, 1938 storm a new channel was formed leaving the station above possible communication for normal flows.
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 36 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder, in service October 1, 1936, was removed on April 20, 1938 and installed in a 30 inch diameter corrugated iron pipe serving both as a house and as a well.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2 and Morris Dam, and, after November 17, 1937, by San Gabriel Dam No. 1.

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, 1938.

EXTREMES OF DISCHARGE:

1936-37
Maximum 2050 second-feet February 19.
Minimum no flow at various times.
1937-38
Maximum 62000 second-feet, estimated, March 2.
Minimum no flow at various times.
1932-38
Maximum 62000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair prior to and poor subsequent to the February - March, 1938 storm.
Estimated:
April 2-5, 1937; September 16-30, 1938.
No communication March 3 to June 12, 1938.

OPERATION:

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

F. C. D. FORM 104 M 6-38

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 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	GAGE READER INI.	METH OD	MEAS. NECE. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/17	Lindsay	15.2	2.53	.83	5.16	2.1		.6	8	0	450P 500P	FC 28
2	10/22	"	14.0	3.10	.85	5.14	2.6		.6	8	0	356P 406P	"
3	10/29	"	12.0	2.97	.94	5.16	2.8		.6	7	0	840A 850A	"
4	11/6	"	12.0	3.68	1.03	5.20	3.8		.6	7	0	735A 753A	"
5	11/12	Lindsay and Patterson	13.0	4.10	1.00	5.20	4.1		.6	7	0	518P 527P	"
6	11/19	Lindsay	14.0	4.50	.98	5.24	4.4		.6	10	0	935A 950A	"
7	11/26	"	10.9	3.07	.99	5.19	3.0		.6	8	0	402P 353P	"
8	12/3	"	8.4	1.33	.96	5.11	1.3		.6	6	-.01	245P 300P	"
9	12/10	"	8.1	1.44	.99	5.15	1.4		.6	6	0	212P 220P	"
10	12/15	Lindsay-Anderson	24.0	9.05	1.31	5.46	12.		.6	8	-.01	850A 900A	FC 27
11	12/15	" "	25.0	10.57	1.57	5.47	16.		.6	8	-.01	100P 130P	"
12	12/15	" "	31.0	15.0	1.66	5.54	25.		.6	9	+.04	440P 505P	"
13	12/16	" "	36.5	14.52	1.52	5.49	22.		.6	10	-.04	730A 815A	"
14	12/16	Lindsay and McArthur	25.0	7.90	1.41	5.36	11.		.6	10	0	133P 146P	FC 28
15	12/23	Lindsay	24.2	7.87	1.26	5.33	9.8		.6	9	0	1104P 1114P	"
16	12/27	Lindsay and McArthur	55.0	63.73	2.57	6.02	162.		.6	12	-.05	1255P 107P	"
17	12/30	Lindsay	38.0	29.78	2.42	5.72	72.		.6	10	-.01	125P 140P	"
18	1/2	"	21.0	10.77	1.83	5.45	20.		.6	8	-.01	210P 225P	"
19	1/2	"	56.0	50.07	2.81	5.87	131.		.6	9	+.14	353P 402P	"
20	1/2	"	58.0	63.63	3.61	6.26	230.		.6	11	-.05	705P 728P	"
21	1/3	"	37.3	29.53	2.73	5.70	81.		.6	13		1005A 1020A	"
22	1/5	"	55.5	55.96	3.43	6.11	192.		.6	13	-.02	845A 905A	"
23	1/7	"	56.0	59.78	3.34	6.08	191.		.6	14	+.02	845A 905A	"
24	1/11	"	55.8	55.26	2.90	6.08	189.		.6	14	0	900A 920A	"
25	1/13	Lindsay	56.0	63.76	2.73	6.09	184.		.6	13	0	420P 440P	FC 28
26	1/18	"	19.0	4.43	.94	5.22	4.2		.6	8	0	903A 918A	"
27	1/21	"	13.7	2.73	1.15	5.16	2.6		.6	6	0	343P 353P	"
28	2/5	"	42.3	26.68	2.22	5.66	59.		.6	12	-.03	953A 1008A	"
29	2/6	Lindsay and McArthur	56.0	57.48	3.83	6.24	220.		.6	12	+.01	159P 210P	"
30	2/6	" "	57.0	79.74	6.23	6.66	497.		.6	9	-.03	720P 735P	"
31	2/9	Lindsay	56.0	61.69	3.67	6.13	228.		.6	13	+.02	835A 900A	"
32	2/10	Lindsay and McArthur	57.5	85.51	4.99	6.59	426.		.6	13	-.04	725A 740A	"
33	2/11	Lindsay	55.5	57.60	3.22	6.06	185.		.6	13	0	1030A 1050A	"
34	2/14	Lindsay and McArthur	55.0	72.35	3.98	6.37	288		.6	12	-.02	1115A 1130A	"
35	2/16	Lindsay	60.0	97.30	6.09	6.82	592.		.6	12	-.01	735A 825A	"
36	2/17	Lindsay and McArthur	61.0	106.8	5.72	6.90	622.		.6	11	0	835A 905A	"
37	2/17	" "	65.0	172.6	7.66	7.76	1320.		.6	10	-.04	830P 922P	"
38	2/18	" "	64.0	165.4	6.84	7.80	1130.		.6	11	+.03	830A 900A	"
39	2/18	" "	66.0	171.2	7.53	7.84	1300.		.6	11	0	230P 250P	"
40	2/19	" "	66.0	196.4	6.84	7.86	1340.		.6	11	+.02	1126A 1144A	"
41	2/19	" "	66.9	227.7	8.14	8.15	1860.		.6	10	0	530P 549P	"
42	2/20	" "	66.0	231.9	7.98	8.08	1850.		.6	10	-.01	838A 855A	"
43	2/20	" "	65.0	206.0	7.13	7.89	1470.		.6	10	0	445P 502P	"
44	2/22	" "	65.0	200.6	7.58	7.86	1520.		.6	10	+.07	830A 848A	"
45	2/23	Lindsay	47.0	100.7	5.31	6.74	535.		.6	9	-.01	915A 935A	"
46	2/24	"	47.0	100.3	5.17	6.72	519.		.6	9	0	810A 830A	"
47	2/25	Lindsay and McArthur	47.0	108.8	5.42	6.93	586.		.6	10	-.01	325P 343P	"
48	2/27	Lindsay	62.0	132.7	5.34	7.02	723.		.6	12	+.01	915A 945A	"
49	3/1	Lindsay	47.0	108.3	5.26	6.82	570.		.6	10	0	325A 950A	FC 28
50	3/5	"	70.5	121.7	3.23	6.68	515.		.6	11	0	1020A 1040A	"
51	3/8	"	34.0	18.65	.95	5.25	18.		.6	8	-.01	850A 858A	"
52	3/12	"	72.0	115.3	4.19	6.59	484.		.6	11	0	810A 825A	"
53	3/12	Lindsay and McArthur	52.0	49.25	2.44	5.91	120.		.6	11	-.06	230P 241P	"
54	3/13	" "	61.0	67.21	3.25	6.07	21		.6	12	0	1015A 1029A	"
55	3/15	Lindsay	63.0	142.9	6.22	7.20	889.		.6	13	-.01	840A 945A	"
56	3/15	Lindsay and McArthur	65.0	222.0	7.75	7.95	1720.		.6	10	+.10	930P 1015P	"
57	3/16	" "	65.0	205.0	7.58	7.94	1550.		.6	11	-.03	905A 925A	"
58	3/17	" "	64.0	20.37	70.4	7.93	1440.		.6	11	+.02	920A 945A	"
59	3/19	Lindsay	64.0	190.2	6.71	7.77	1280.		.6	11	-.01	800A 850A	"
60	3/22	Lindsay and McArthur	62.0	119.1	5.26	6.88	626.		.6	11	-.01	740A 800A	"
61	3/24	Lindsay	64.0	193.0	6.98	7.81	1350.		.6	10	+.02	908A 1000A	"
62	3/26	"	62.0	139.2	6.06	7.14	844.		.6	11	0	710A 740A	FC 21
63	3/27	"	36.5	89.23	6.09	6.72	543.		.6	8	0	900A 925A	"
64	3/29	"	36.5	93.98	5.57	6.68	524.		.6	7	0	840A 905A	"
65	4/2	"	61.5	114.8	5.11	6.82	587.		.6	11	-.01	910A 845A	FC 28
66	4/7	"	60.5	102.6	5.36	6.81	550.		.6	11	0	825A 855A	"
67	4/12	"	42.0	61.14	1.77	5.68	90.		.6	9	+.01	220P 230P	"
68	4/19	"	33.5	85.58	5.01	6.56	428.		.6	7	-.03	855A 920A	"
69	4/26	"	59.5	107.4	3.20	6.44	344.		.6	9	0	805A 830A	"
72	4/30	"	55.0	91.60	3.31	6.26	304.		.6	10	0	855A 915A	"
73	5/5	"	55.0	90.23	2.95	6.23	266.		.6	10	-.01	910A 935A	"
74													

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 190 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~MOUTH~~ Foothill Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Fying Present Err.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												310P	
75	5/10	Lindsay	53.5	80.86	3.19	6.19	258.		.6	11	0	340P	FC 28
												920A	
76	5/24	"	47.5	71.75	2.37	5.97	170.		.6	11	0	940A	"
												845A	
77	6/1	"	42.0	61.32	2.03	5.79	124.		.6	11	0	905A	"
												852A	
78	9/4	"	39.5	47.55	1.29	5.54	62.		.6	10		912A	"
												815A	
79	6/11	"	38.0	34.39	.62	5.23	21.		.6	9	0	830A	"
												940A	
80	6/18	"	6.5	2.74	1.29	4.92	3.5		.5	6	0	950A	"

F. C. D. FORM 104 IM 6-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 190 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~MOUTH~~ Foothill Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Fying Present Err.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												1213P	
84	1/21	Lindsay	14.0	5.22	.18	4.74	.95		.6	5	0	1220P	FC 28
												1155A	
85	2/1	Lindsay-Ingram	38.5	40.97	.87	5.34	36.		.6	8	0	1208P	"
												525P	
86	2/3	" "	47.	83.91	3.09	6.20	259.		.6	8	+.01	535P	"
												523P	
87	2/4	" "	43.	56.92	1.69	5.64	96.		.6	9	0	535P	"
												655P	
88	2/12	" "	45.	63.87	2.20	5.82	140.		.6	9	-.01	707P	"
												427P	
89	2/17	Lindsay	40.	45.0	1.34	5.48	60.		.6	8	0	442P	"
												342P	
90	2/24	"	13.	7.6	2.02	5.10	15.		.6	7	0	357P	"
												732A	
91	2/25	"	53.	76.52	3.64	6.14	278.		.6	11	0	755A	"
												455P	
92	2/28	Lindsay-Ingram	49.	103.	6.21	6.80	639.		.6	7	-.05	508P	"
												858A	
93	3/1	" "	72.	115.	7.36	7.13	846.		.6	10	-.08	917A	"
												210P	
94	4/20	Haig	Two	Channels			410.		.6	7		235P	FC 38
												225P	
95	4/27	Lindsay	26.0	24.75	0.93		23.		.6	8		235P	FC 28
												1145A	
96	4/29	"	22.0	19.80	0.87	6.59	17.		.6	11		1155A	"
												1042A	
97	5/4	"	22.0	19.17	0.77	6.58	15.		.6	8		1055A	"
												125P	
98	5/11	Haig	23.2	24.52	1.02	6.72	25.		.6	12		145P	FC 38
												1231P	
99	5/18	"	25.0	35.32	1.69	6.96	60.		.6	13	+.01	12449P	"
												1145A	
100	5/2	"	22.5	18.72	0.59	5.96	11.		.6	11	-.01	1159A	"
												150P	
101	6/1	"	8.8	6.22	0.58		3.6		.6	7		158P	"
												1105A	
102	6/9	"	9.3	7.88	0.41		3.2		.6	7		1113A	"
												300P	
103	6/13	"	9.3	4.37	0.80	6.06	3.5		.6	9		312P	"
												825A	
104	6/17	Lindsay	10.0	4.01	0.73	6.04	2.9		.6	7	0	837A	FC 28
												1220P	
105	6/23	"	10.0	4.21	0.76	6.02	3.2		.6	8	0	1230P	"
												218P	
106	6/29	"	10.2	4.55	0.85	6.05	3.9		.6	8		232P	"
												136P	
107	7/7	"	10.3	3.22	0.43	5.86	1.4		.6	7		145P	"
												726A	
108	7/11	Lindsay	10.0	4.21	0.61	6.02	2.6		.6	7	0	735A	FC 28
												1035A	
109	7/12	"	50.5	56.87	1.46	7.31	83.		.6	12		1055A	"
												956A	
110	7/13	"	50.5	60.58	1.59	7.35	96.		.6	14	0	1018A	"
												655A	
111	7/15	"	50.0	62.03	1.64	7.38	102.		.6	14	0	715A	"
												910A	
112	7/20	"	9.0	2.27	1.05	5.84	2.4		.6	7	0	918A	"
												850A	
113	7/21	"	68.0	96.81	2.08	7.94	201.		.6	15	+.03	915A	"
											+.02	725A	
114	7/22	"	95.0	120.8	2.32	8.08	282		.6	18	-.01	755A	"
												825A	
115	7/25	"	91.0	119.3	2.39	8.07	286		.6	20	+.03	900A	"
												718A	
116	7/27	"	91.0	114.4	2.35	7.99	269		.6	18	+.01	745A	"
												720A	
117	7/29	"	91.0	114.3	2.19	7.92	250		.6	17	0	750A	"
												720A	
118	8/1	"	86.0	108.1	2.27	7.91	245		.6	16	-.01	745A	"
												735A	
119	8/3	"	79.0	104.8	2.20	7.91	230		.6	15	0	805A	"
												750A	
120	8/5	"	79.0	105.4	2.28	7.90	241		.6	16	0	820A	"
												300P	
121	8/7	Brewster and Jordan	98.0			8.19	382		.6		-.04	320P	FC 8
												850A	
122	8/8	Lindsay	88.0	111.9	2.19	7.97	245		.6	17	-.01	925A	FC 28
												805A	
123	8/18	"	82.0	100.9	1.79	7.72	195		.6	14	0	830A	"
												730A	
124	8/15	"	69.0	95.71	2.12	7.74	203		.6	15	0	805A	"
												730A	
125	8/19	"	82.0	85.30	1.96	7.60	167		.6	13	0	755A	"
												715A	
126	8/22	"	61.0	83.81	2.08	7.56	174		.6	13	0	735A	"
												720A	
127	8/25	"	57.0	77.74	1.86	7.47	144		.6	13	0	740A	"
												1202P	
128	8/31	Brewster	51.0	67.07	2.14	7.42	143		.6	8	0	1220P	FC 8

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, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	65	21	35	28	568	526	304	122	0	0	+
2	0	55	24	92	58	402	580	274	85	0	0	0
3	0	29	42	93	56	350	574	268	66	0	0	0
4	0	42	75	168	56	508	569	263	166	0	0	0
5	0	42	75	168	56	508	556	258	297	0	0	0
6	0	52	85	65	216	490	556	258	340	0	0	0
7	+	29	48	198	185	508	550	258	340	0	0	0
8	0	29	37	189	611	46	509	245	234	0	0	+
9	0	55	42	185	234	0	580	248	216	0	0	0
10	0	55	32	185	294	103	562	253	93	0	0	0
11	0	9	6	189	156	478	586	254	16	0	0	0
12	0	4	29	181	220	302	573	229	22	0	0	0
13	0	0	29	98	192	387	27	238	19	0	0	0
14	0	0	15	181	297	636	27	238	16	0	0	0
15	0	0	27	181	239	977	26	238	24	0	0	0
16	0	0	29	113	737	1570	484	238	14	0	0	0
17	0	0	37	37	1380	1260	454	224	18	0	0	0
18	0	0	42	42	1600	1260	437	224	18	0	0	0
19	0	0	32	42	1610	1574	414	262	12	0	0	2
20	0	0	7	48	1610	1500	408	165	7	0	0	+
21	0	0	48	37	1500	550	403	165	5	0	0	0
22	0	0	29	21	1110	624	380	161	2	0	0	0
23	0	0	24	21	538	958	363	173	2	0	0	0
24	0	0	29	75	502	1300	347	173	2	0	0	2
25	0	0	32	24	370	1090	347	173	2	1	0	0
26	1	7	48	110	24	721	347	177	2	1	0	2
27	2	4	24	115	24	538	347	177	2	0	0	1
28	3	4	48	97	24	532	405	165	2	0	0	1
29	3	7	37	91	24	496	405	165	2	0	0	0
30	4	7	37	85	24	496	314	157	2	0	0	+
31	4		16	73		502		146		0	+	
	63.7	121.2	715.1	2381.8	14942	20304.9	11959	6948	1775.7	1.6	0.5	0.9

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
MEAN	2.05	4.04	23.1	76.8	534	655	399	224	59.2	.05	.02	.03
Acre-Feet	126	240	1420	4720	29640	40270	23720	13780	3520	3.2	.99	1.6

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

YEAR OR PERIOD MEAN 162 Acre-Feet 117400

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, 1938

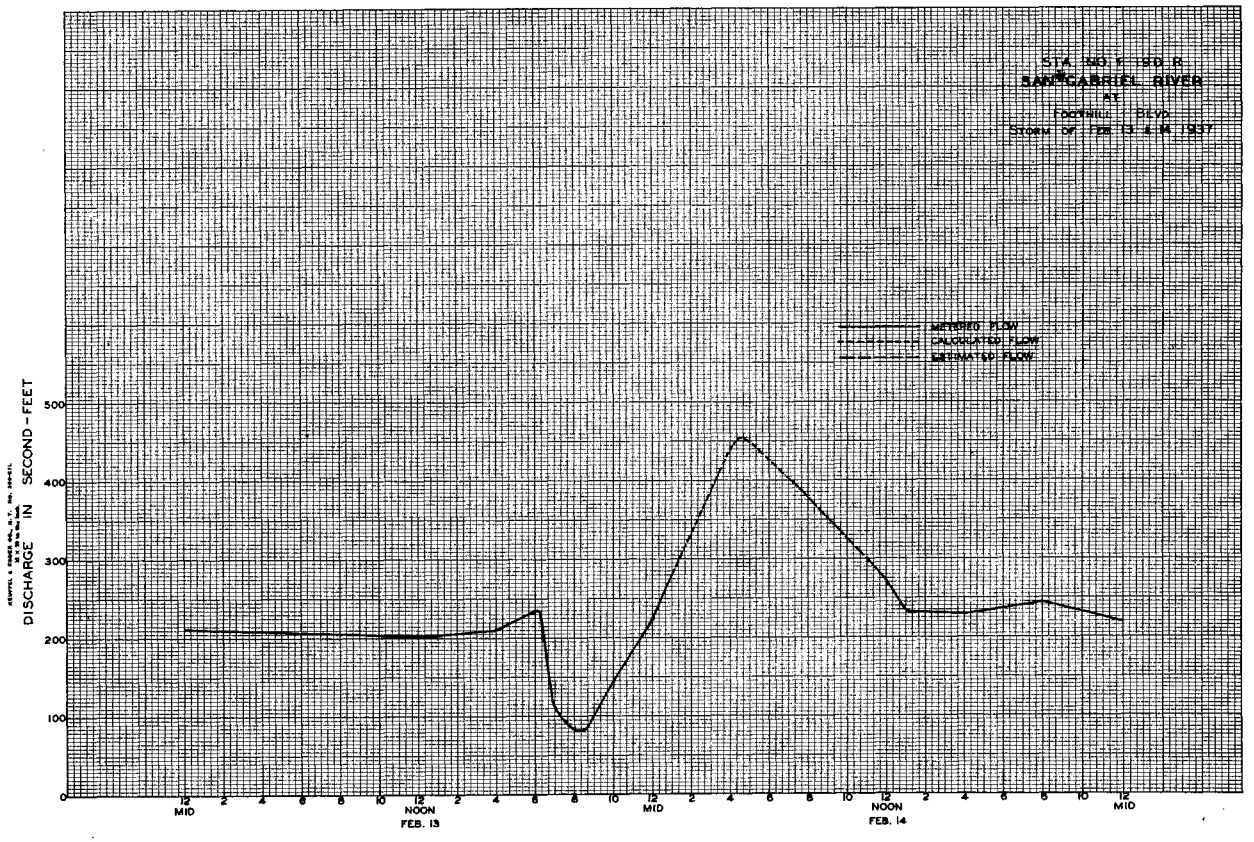
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	0	0	27	911				5	248	132
2	0	2	0	0	2	11700				7	241	140
3	0	27	0	0	154					8	231	140
4	0	2	0	0	118					10	231	143
5	0	2	0	0	58					5	238	143
6	0	2	0	0	37					5	238	114
7	0	2	0	0	30					5	382	+
8	0	10	0	0	26					22	241	0
9	0	2	0	1	26					48	218	0
10	0	+	0	0	42					6	207	0
11	0	3	0	0	50					12	196	0
12	0	4	0	0	114					83	201	0
13	0	1	0	0	124					97	201	0
14	0	+	0	0	38					101	201	0
15	0	2	0	0	76					95	207	0
16	0	2	0	0	78	NO RECORD				14	207	0
17	0	2	0	1	78					25	201	0
18	0	0	0	1	62					6	180	0
19	0	0	0	0	45					4	167	0
20	0	0	0	1	35					4	174	0
21	0	0	0	0	31					5	180	0
22	0	0	0	0	29					4	211	0
23	0	0	0	0	28					6	176	0
24	0	0	0	0	27					4	162	0
25	0	0	0	0	79					6	147	0
26	0	0	0	0	54					7	145	0
27	0	+	0	0	217					8	267	0
28	0	0	0	0	160					5	149	0
29	0	+	3	0	527					6	256	0
30	0	0	1	0						8	252	+
31	0	0	+	0						4	252	+
	0	93	4.2	1.7.3	2.3.6	12611 (Mar 1-2)			82.3	267	6114	0577

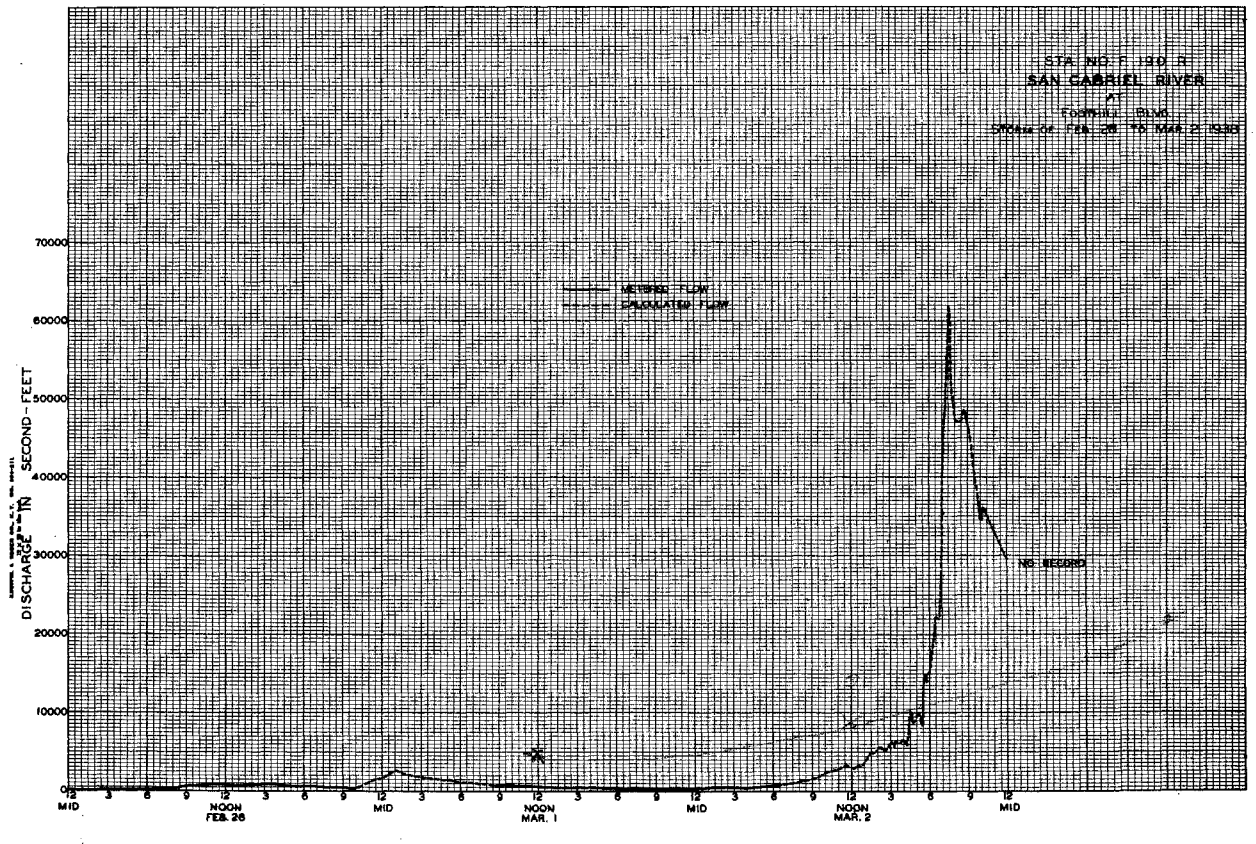
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
MEAN	.30	.14	.56	.76	92.9				3.324 (June 13 to 30)	4.57	197	27.9
Acre-Feet	18	8.3	35	47	5160	25010				107	12130	1660

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

Total acre-feet for year does not include discharge between 3/2 and 6/13.

YEAR OR PERIOD MEAN 50820 Acre-Feet


STA NO. F 190 R
SAN GABRIEL RIVER
AT
Foothill Blvd.
Storm of Feb 13 & 14, 1937
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND-FEET
0
100
200
300
400
500
12 MID
2
4
6
8
10
12 NOON
FEB. 13
MID
NOON
FEB. 14


STA NO. F 190 R
SAN GABRIEL RIVER
AT
Foothill Blvd.
Storm of FEB. 26 TO MAR. 2, 1938
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
0
10000
20000
30000
40000
50000
60000
70000
NO RECORD
12 MID
3
6
9
12 NOON
FEB. 26
MID
NOON
MAR. 1
MAR. 2

STATION F191R

SAN GABRIEL RIVER at San Bernardino Boulevard

LOCATION:

On the downstream end of first pier from west end of bridge, about 1 mile east of El Monte. San Bernardino Boulevard was formerly known as El Monte Boulevard.

DRAINAGE AREA:

Indeterminate due to a natural split near Arrow Highway which 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.

CHANNEL AND CONTROL:

Channel composed of sand and gravel. 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 an F. C. standard type house over a 21 inch diameter, corrugated iron pipe stilling well. An Au recorder, in service October 1, 1936, was removed and the station was abandoned on January 25, 1937.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2 and Morris Dam, and, after November 17, 1937 by San Gabriel Dam No. 1.

DIVERSIONS:

Water diverted for irrigation and spreading at mouth of canyon and by the City of Pasadena from Morris Reservoir for domestic use.

RECORDS AVAILABLE:

Stream measurements from February 22, 1932 to March 31, 1932. Recorder records from April 1, 1932 to January 25, 1937.

ACCURACY:

Due to there being a gage height record on only one of several channels, it was impossible to determinate a satisfactory stage-discharge relation, and also due to shortness of record subsequent to October 1, 1936, the record is not being published.

OPERATION:

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

F. C. D. FORM 104 IM 8-36

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, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adjusted Rating Diff.	METH OD	MEAS. MEAS. NO.	G. HT. CHANGE TOTAL	BASIN END	METER NO.
1	12/27	Lindsay and McArthur	18.5	8.20	1.73	2.43	14.		.6	7	+.06	1125A 1137A	FC 28
2	12/27	" "	17.0	12.77	1.95	2.55	25.		.6	7	0	450P 500P	"
3	12/29	Lindsay	16.8	11.94	1.52	2.30	18.		.6	7	-.01	1110A 1120A	"
4	12/30	Lindsay and McArthur	19.0	16.56	2.26	2.44	38.		.6	6	0	1115P 1128P	"
5	12/31	" "	17.2	15.94	2.00	2.39	32.		.6	7	0	245P 257P	"
6	1/3	Lindsay	16.8	13.12	1.86	2.29	24.		.6	8	0	1201P 1212P	"
7	1/5	"	16.8	18.08	2.44	2.48	44.		.6	8	0	225P 235P	"
8	1/6	"	8.0	1.96	.85	1.88	1.7		.6	4	0	955A 1000A	"

STATION F261R

SAN GABRIEL RIVER at Elliot Avenue

LOCATION:

On the east (left) bank 200 feet downstream from extension of Elliot Avenue, 2 miles southeast of El Monte.

DRAINAGE AREA:

Indeterminate on account of a natural split near Arrow Highway which divides the San Gabriel River into 2 branches; the east branch known as the Rio Hondo flows into the Los Angeles River; the west branch retains the name San Gabriel River.

CHANNEL AND CONTROL:

Shifting sand and gravel between banks protected by piling and wire mesh.

DISCHARGE MEASUREMENTS:

By wading. (Low flow data only obtained).

RECORDER:

Seven day horizontal Lietz recorder installed March 11, 1937 in a box type house over a 21 inch diameter corrugated iron pipe well.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2 and Morris Dam, and after November 17, 1937 by San Gabriel Dam No. 1.

DIVERSIONS:

Some water diverted for irrigation and spreading, and by City of Pasadena for domestic use.

RECORDS AVAILABLE:

March 11, 1937 to September 30, 1938.

EXTREMES OF DISCHARGE:

Not determined.

ACCURACY:

Poor.
Insufficient data March 15, 16, 1937.
Interpolated;
April 13-16, May 9, 10, 23, 24, 28, June 1, 14-24, 1937.
No record June 26 to October 13, 1937.

OPERATION:

Located and operated by the Los Angeles County Flood Control District in cooperation with the San Gabriel Valley Protective Association.

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 261 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~MOUTH~~ Elliot Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	3/12	Lindsay and McArthur	34.0	14.02	2.78	5.44	39.		.6	11	0	1215P 1230P	FC 28
2	3/15	Lindsay	76.0	34.22	3.50	5.66	120.		.6	11	0	211P 225P	"
3	3/16	Lindsay and Mc Arthur	Two Channels			5.69	334.		.6	16	0	130A 150A	"
4	3/16	" "	Two Channels			5.96	286.		.6	17	-.02	1120A 1145A	"
5	3/17	" "	Two Channels			5.83	207.		.6	18	-.02	120P 135P	"
6	3/19	Lindsay	Two Channels			5.89	266.		.6	19	0	1258P 125P	"
7	3/22	Lindsay and McArthur	88.0	38.79	3.22	5.69	125.		.6	14	-.02	1155A 1215P	"
8	3/24	Lindsay	Two Channels			5.88	221.		.6	19	-.03	155P 215P	"
9	3/26	"	48.0	22.93	3.61	5.64	83.		.6	12	0	1230P 1250P	FC 21
10	3/29	"	25.0	9.63	2.10	5.44	20.		.6	9	-.01	150P 205P	FC 21
11	3/31	"	32.0	8.68	1.45	5.40	13.		.6	11	-.01	137P 150P	FC 28
12	4/2	"	32.0	18.23	3.20	5.63	58.		.6	10	0	1055A 1105A	"
13	4/5	"	84.0	28.04	2.32	5.66	65.		.6	11	+.01	117P 130P	"
14	4/7	"	46.0	20.83	2.79	5.67	58.		.6	12	0	1050A 1110A	"
15	4/9	"	41.0	24.99	3.09	5.67	77.		.6	11	0	1000A 1015A	"
18	4/19	"	46.0	20.40	2.31	5.64	47.		.6	11	-.01	1210P 1226P	FC 28
19	4/21	"	45.0	20.09	2.30	5.55	46.		.6	12	0	1025A 1038A	"
20	4/23	"	40.0	16.12	2.40	5.53	39.		.6	10	0	1155A 1210P	"
21	4/26	"	33.0	12.45	1.83	5.51	23.		.6	9	0	1143A 1157A	"
22	4/28	"	48.0	21.50	2.00	5.45	43.		.6	12	0	1109A 1125A	"
23	4/30	"	31.0	10.80	1.65	5.32	18.		.6	10	+.01	1247P 102P	"
24	5/3	"	31.0	8.94	1.46	5.24	13.		.6	11	0	103P 115P	"
25	5/5	Lindsay	30.0	9.15	1.61	5.26	15.		.6	10	0	212P 227P	FC 28
26	5/7	"	31.0	11.06	2.00	5.26	22.		.6	10	0	112P 125P	"
27	5/10	"	28.5	10.43	1.69	5.16	18.		.6	10	0	120P 132P	"
28	5/12	"	25.0	7.30	1.25	4.92	9.2		.6	9	-.01	347P 358P	"
29	5/14	"	19.5	7.28	1.61	4.93	12.		.6	9	0	112P 122P	"
30	5/17	"	10.0	5.61	1.72	4.76	9.6		.6	7	-.01	145P 154P	"
31	5/19	"	23.5	7.62	1.51	4.84	12.		.6	8	0	148P 200P	"
32	5/21	Lindsay-Sawyer	33.0	13.68	2.29	5.07	31.		.6	11	+.02	125P 140P	"
33	5/24	" "	16.5	3.15	1.05	4.66	3.3		.6	7	0	400P 409P	"
34	5/28	Lindsay	8.0	1.39	.86	4.53	1.2		.6	6	0	1115A 1123A	"

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F261 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~MOUTH~~ Elliot Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
37	12/17	Lindsay	3.0	0.23	0.70	4.34	0.16		.6	4	0	935A 940A	FC 28
38	12/30	Lindsay and Thompson	2.0	0.28	0.50	4.36	0.14		.6	3	0	1250P 1252P	"
39	2/10	Lindsay and Ingram	25.0	8.88	1.16	4.71	10.		.6	8	0	1025A 1035A	"
40	2/12	" "	33.5	17.19	2.82	5.24	49.		.6	10	-.03	1216P 1224P	"
41	2/17	Lindsay	28.0	9.51	1.87	5.07	18.		.6	9	0	302P 315P	"
42	2/23	"	17.0	3.28	1.03	4.84	3.4		.6	9	0	315P 325P	"
43	2/25	"	33.0	20.15	3.46	5.32	70.		.6	10	-.03	142P 155P	"
44	3/11	"	Two Channels			4.24	218.		.6	12	+.01	120P 135P	"
45	3/15	"	Two Channels			4.63	303.		.6	18	-.01	547P 615P	"
46	3/17	"	Two Channels			4.60	179.		.6	14	0	1015A 1035A	"
47	3/18	"	Two Channels			4.52	161.		.6	16	+.01	240P 300P	"
48	3/22	"	Two Channels			4.34	42.		.6	14	0	235P 255P	"
49	3/24	"	Two Channels			4.59	162.		.6	21	0	1222P 1247P	"
50	3/28	"	Two Channels			4.50	99.		.6	19	-.01	206P 230P	"
51	3/31	"	Three Channels			4.32	29.		.6	14	-.01	111P 128P	"
52	4/6	Lindsay-Haig	Two Channels			4.85	361.		.6	19	-.01	444P 459P	"
53	4/11	Haig	Two Channels			4.74	218.		.6	18	-.02	207P 233P	FC 1
54	4/14	Lindsay and Ingram	6.5	1.42	0.80	4.02	1.1		.6	5		112P 120P	FC 28
55	4/18	Haig	Three Channels			4.00	1.0		.6	9	+.01	125P 137P	FC 38
56	4/21	"	4.7	0.79	0.87	4.01	0.70		.6	5		1045A 1050A	"
58	5/4	Lindsay	Two Channels			3.92	1.4		.6	7	0	255P 302P	FC 28
59	5/11	Haig	Two Channels			3.94	0.95		Sur	.6	0	1030A 1038A	FC 38
60	5/18	"	Two Channels			3.93	0.95		.6	6	0	925A 931A	"
61	5/25	"	Two Channels			3.92	0.95		.6	7		825A 836A	"
62	6/1	Haig	Three Channels			3.92	0.90		Sur	5	0	1035A 1040A	FC 38
63	6/9	"	Three Channels			3.92	0.90		.6	6	0	850A 856A	"
64	6/23	Lindsay	Two Channels			3.92	1.0		.6	6		1046A	FC 28
65	7/7	"	Two Channels			3.92	0.90		.6	6		1130A 1136A	"
66	7/20	"	Two Channels			3.94	0.90		.6	7		1026A 1033A	"
68	9/1	Brewster	4.0	0.68	0.62	3.96	0.42		.6	4	0	1105A 1111A	FC 8
69	9/8	"	4.0	0.68	0.85	3.98	0.60		.6	4	0	1020A 1026A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F261R for the year ending September 30, 19 37

Daily discharge, in second-feet at SAN GABRIEL RIVER near Elliot Ave.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							32	13	03			
2							42	12	11			
3							39	13	11			
4							55	12	11			
5							48	13	11			
6							55	10	11			
7							71	20	11			
8							89	18	11			
9							94	18	11			
10							300	17	12			
11						21	1	13	02			
12						115	0	13	02			
13						48	1	13	02			
14						4	0	13	02			
15							0	13	02			
16							80	8	02			
17						225	71	9	02			
18						294	48	4	11			
19						271	45	2	11			
20							42	8	11			
21						66	36	4	11			
22						105	32	1	11			
23						170	28	1	11			
24						177	18	1	11			
25						184	1	1	11			
26						100	18	4	11			
27						48	30	8	11			
28						36	30	4	11			
29						18	17	2	11			
30						13	17	2	11			
31						13		1	11			
						Mar 12-31 1935 inc.	1152.2	305.5	June 1-25 inc.	3.2		

Recorder installed 3/11/37

no record--see station description

Mean			36.4	9.85	June 1-25	
Runoff in Acre-Feet			2290	606	6.3	6790 inc.
Period	Mar 12-31 1935					

Remarks: #-Insufficient data
+ indicates discharge 0.05 sec. ft. or less.
Acre-feet for the period shown does not include discharge for 3/15-16.

F.C. Dist. Form 9

STATION F263R

SAN GABRIEL RIVER at Beverly Boulevard

LOCATION:

On the downstream side of the Beverly Boulevard bridge approximately 0.75 mile northeast of Pico.

DRAINAGE AREA:

Indeterminate due to a natural split near Arrow Highway which 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.

CHANNEL AND CONTROL:

Channel - sand and silt.
No artificial control.

DISCHARGE MEASUREMENTS:

At low flows by wading.
At high flows from cable car 145 feet above station.

RECORDER:

An Au continuous recorder was installed on February 4, 1937 in a F. C. standard type house over a 21 inch diameter corrugated iron pipe stilling well.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2, Morris Dam, Big Dalton Dam, Puddingstone Diversion Dam, Puddingstone Dam, Live Oak Dam, Thompson Creek Dam, and after November 17, 1937 by San Gabriel Dam No. 1.

DIVERSIONS:

The City of Pasadena diverts water from the San Gabriel River. There are also several diversions for irrigation.

RECORDS AVAILABLE:

February 4, 1937 to September 30, 1938.
(For records prior to February 4, 1937 see station F63R, San Gabriel River at Whittier Boulevard.)

EXTREMES OF DISCHARGE:

1936-1937
Maximum 6970 second-feet February 14.
Minimum no flow for several months.
1937-1938
Maximum 22700 second-feet, estimated, March 2.
Minimum no flow for several months.
(For earlier years see station F63R).

ACCURACY:

Poor due to shifting control.
Discharge estimated March 3-5, 9, 10, 1938.

OPERATION:

Located 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 TM 6-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 263 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~ARROW~~ Beverly Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period No.	METH OD	MEAS SECS NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	2/4	Brewster	48.0	18.92	1.37	5.14	26.		.6	12	0	1140A 1158A	FC 8
2	2/6	"	67.0	54.82	2.13	5.51	117.		.6	9	+.02	905A 920A	"
3	2/6	Anderson and Linden	220.0	596.0	8.91	9.08	5310.		.6	11	+.35	440P 630P	FC 27
4	2/7	Brewster-Pettis	52.0	56.72	3.63	5.25	206.		.6	7	-.02	1258P 110P	FC 8
5	2/10	Jordan	63.5	47.2	2.15	5.52	102.		.6	18	0	900A 925A	FC 21
6	2/11	Brewster	62.0	38.44	1.81	5.44	70.		.6	9	0	1205P 1220P	FC 8
8	2/17	Bonadiman	74.5	63.87	2.20	5.68	141.		.6	12	-.01	318P 340P	FC 9
9	2/18	Brewster	127.0	92.24	2.76	5.82	254.		.6	16	0	143P 215P	FC 8
10	2/19	Bonadiman	130.0	101.4	2.66	5.75	270.		.6	11	0	1215P 1231P	FC 9
11	2/19	Cole-Baustian	82.0	83.25	2.46	5.82	204.		.6	17	0	550P 626P	FC 36
12	2/20	Bonadiman-Cole	111.5	84.92	2.31	5.79	204.		.6	12	+.02	930A 950A	FC 9
13	2/22	Bonadiman	115.0	87.25	2.03	5.76	177.		.6	8	+.01	950A 1000A	"
14	2/23	"	135.0	90.10	1.70	5.77	160.		.6	10	+.02	1005A 1030A	"
15	2/25	Brewster	62.0	30.32	1.97	5.44	60.		.6	7	+.01	1115A 1130A	FC 8
16	3/4	"	45.0	24.20	1.76	5.46	43.		.6	11	-.04	1155A 1215P	"
17	3/11	"	62.0	33.60	1.92	5.65	64.		.6	16	+.02	1152A 1210P	"
19	3/16	Brewster	118.0	96.84	4.08	5.92	395.		.6	12	+.01	140P 200P	"
20	3/17	Bonadiman	125.0	81.00	3.09	5.86	250.		.6	9	0	345P 412P	FC 9
21	3/18	Brewster	113.0	94.90	3.70	6.19	351.		.6	12	-.02	1034A 1054A	FC 8
22	3/25	"	102.0	88.18	4.06	6.18	358.		.6	10	0	1158A 1220P	"
23	3/26	Bonadiman	107.0	61.0	2.52	5.88	154.		.6	8	-.01	833A 850A	FC 9
24	3/29	"	62.0	40.4	1.86	5.76	75.		.6	13	0	924A 945A	"
25	3/30	Bonadiman	62.0	32.58	1.81	5.72	59.		.6	11	0	830A 847A	FC 9
26	4/1	Brewster	66.0	35.12	1.57	5.70	55.		.6	7	0	1230P 1245P	FC 8
27	4/3	Bonadiman	63.0	46.30	2.35	5.76	109.		.6	15	+.02	1010A 1030A	FC 9
28	4/5	"	66.0	31.2	3.34	5.80	104.		.6	15	0	945A 1000A	"
29	4/6	"	67.0	51.87	2.44	5.82	127.		.6	17	0	855A 915A	"
30	4/7	"	70.0	45.94	2.48	5.80	114.		.6	18	+.01	905A 930A	"
31	4/8	Brewster	72.0	50.44	2.34	5.86	118.		.6	9	+.01	1140A 1202P	FC 8
32	4/14	"	44.0	18.84	1.69	5.56	32.		.6	11	-.01	150P 215P	"
33	4/19	Bonadiman	64.5	51.5	2.05	5.79	106.		.6	17	0	850A 914A	FC 9
34	4/22	Brewster	81.0	46.67	1.72	5.82	80.		.6	11	0	1245P 110P	FC 8
35	4/26	Bonadiman	63.0	35.0	1.58	5.72	54.		.6	15	0	902A 924A	FC 9
36	4/29	Brewster	34.0	24.66	1.64	5.69	40.		.6	7	0	1215P 1235P	FC 8
37	5/3	Bonadiman	63.5	22.8	1.28	5.59	30.		.6	15	+.02	900A 918A	FC 9
38	5/6	Brewster	28.0	12.20	1.30	5.58	16.		.6	6	-.01	1235P 1250P	FC 8
39	5/10	Bonadiman	Two Channels			5.60	21.		.6	11	0	922A 936A	FC 9
40	5/13	Brewster	40.0	17.96	1.30	5.62	23.		.6	7	-.01	1250P 103P	FC 8
41	5/17	Bonadiman	8.0	2.08	.77	5.30	1.6		.6	5	0	945A 950A	FC 9
42	5/20	Brewster	3.0	.56	.89	5.27	.50		.6	3	0	1202P 1207P	FC 8
43	5/24	Bonadiman	12.0	3.85	.94	5.40	3.6		.6	4	0	1002A 1008A	FC 9
44	5/27	Brewster	8.0	2.26	1.09	5.34	2.5		.6	4	0	1210P 1216P	FC 8

F. C. D. FORM 104 IM 6-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 263 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Beverly Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Dif.	MATH CH	MEAS. MECH. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
47	12/12	Brewster	20.0	7.12	1.26	5.46	9.0		.6	10	0	928A 945A	FC 8
48	12/16	"	21.0	6.42	1.08	5.45	7.0		.6	7	0	140P 155P	"
49	12/23	"	82.0	27.22	1.83	5.72	50.		.6	10	0	1150A 1210P	"
50	12/30	"	89.0	24.61	1.35	5.70	33.		.6	10	0	100P 120P	"
51	1/6	"	87.0	24.12	1.44	5.73	35.		.6	10	0	105P 125P	"
52	1/13	"	44.0	22.42	1.33	5.74	30.		.6	6	0	105P 122P	"
53	1/20	"	54.0	20.34	1.88	5.72	38.		.6	7	0	140P 155P	"
54	1/27	"	44.0	21.84	1.53	5.74	33.		.6	8	0	1135A 1155A	"
55	2/1	Brewster-Pettis	160.0	191.0	5.00	6.68	955.		.6	9	-.13	940A 1020A	"
56	2/1	" "	155.0	122.4	3.94	6.24	483.		.6	9	-.12	1125A 1155A	"
57	2/3	Brewster	69.0	32.79	1.59	5.73	52.		.6	10	0	1045A 1105A	"
58	2/4	Anderson and Linden	Four Channels						Sur	12	-.15	305A 350A	FC 27
59	2/9	Brewster	72.0	32.14	1.85	5.76	59.		.6	8	+.01	1100A 1115A	FC 8
60	2/9	Brewster-Pettis	165.0	216.5	5.05	6.80	1090.		.6	9	0	425P 455P	"
61	2/10	Brewster	48.0	35.86	2.36	5.67	85.		.6	7	0	1217P 1237P	"
62	2/11	Brewster-Pettis	162.0	198.0	4.81	6.61	905.		.6	9	-.08	420P 450P	"
63	2/11	Linden and Anderson	173.0	195.4	3.78	6.60	739.		.6 Sur	18	-.10	730P 810P	FC 27
64	2/11	" "	170.0	146.0	3.67	6.52	536.			17	-.05	820P 850P	"
65	2/11	" "	115.0	93.25	3.95	5.99	368		.6 Sur	11	-.02	1110P 1135P	"
66	2/11	" "	105.0	85.75	4.16	5.98	356.		.6 Sur	10	-.05	1140P 1200P	"
67	2/14	Brewster	67.0	43.43	1.75	5.76	76.		.6	8	0	245P 300P	FC 8
68	2/17	"	76.0	43.26	1.67	5.73	72.		.6	9	0	1155A 1210P	"
69	2/24	"	62.0	33.44	1.25	5.60	42.		.6	9	0	1130A 1145A	"
70	2/25	Lindsay	62.0	52.31	2.25	5.94	118.		.6	10	+.01	218P 235P	FC 26
71	2/27	Brewster-Pettis	150.0	188.2	2.84	6.46	534		.6	9	+.01	200P 215P	FC 8
72	2/28	" "	165.0	384.5	6.69	7.44	2570.		.6	9	-.11	1130A 1200P	"
73	2/28	Gillespie-Linden	166.0	245.8	5.62	6.86	1380		.6 Sur	16	-.22	130P 245P	FC 27
74	2/28	Linden and Gillespie	166.0	186.2	5.31	6.64	988.		.6 Sur	11	-.12	300P 330P	"
75	2/28	Brewster-Pettis	145.0	180.0	4.50	6.50	810.		.6	8	-.02	442P 505P	FC 8
76	3/1	Gillespie and Linden	244.0	696.4	6.07	8.50	4230		.6	15	-.40	500A 550A	FC 27
77	3/1	Linden and Gillespie	235.0	416.0	6.79	8.08	2830		.6	12	-.25	600A 635A	"
78	3/1	Brewster-Pettis	150.0	121.5	4.14	5.86	503.		.6	13	-.01	310P 330P	FC 8
79	3/2	Brewster	325.0	1195.	10.63	10.40	12700.	/	.6 Fl	14	-.10	1230P 100P	"
80	3/3	Brewster-Pettis	Two Channels			8.80	7700		.6 Fl	13	-.20	1245P 130P	FC 8
81	3/7	" "	175.0	179.5	4.80	6.80	862.		.6	10	0	140P 220P	"
82	3/10	Brewster	Two Channels			6.58	841.		.6	12	0	130P 200P	"
83	3/12	Brewster-Pettis	Two Channels			7.34	1480.		.6	20	+.02	945A 1020A	"
84	3/17	Brewster	Two Channels			6.65	125.		.6	16	0	500P 530P	"
85	3/22	Bonadiman	Two Channels			6.84	180.		.6	12	0	925A 1008A	FC 40
86	3/24	Brewster	Two Channels			6.78	249.		.6	22	0	230P 300P	FC 8
87	3/31	"	160.0	58.60	1.64	6.91	96.		.6	16	0	300P 320P	"
88	4/7	"	Two Channels			7.08	474.		.6	26	0	115P 155P	"
89	4/14	"	Two Channels			6.59	54.		.6	14	0	200P 230P	"
90	4/21	"	Two Channels			6.59	48.		.6	13	0	1215P 1235P	"
91	4/28	"	Two Channels			6.65	49.		.6	17	0	1150A 1210P	"
92	5/5	"	Two Channels			6.65	47.		.6	16	0	1205P 1230P	"
93	5/12	"	Two Channels			6.60	26.		.6	12	0	1202P 1224P	FC 8
94	5/19	"	12.0	3.40	.95	5.46	3.2		.6	6	0	1250P 100P	"

F. C. Dist. Form 82 180 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F263R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Beverly Blvd. for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	31	304	2040	127	61	0	0	0	0
2	0	0	0	34	55	1430	157	55	0	0	0	0
3	0	0	0	34	14	4080	254	60	0	0	0	0
4	0	0	0	29	88	3390	221	56	0	0	0	0
5	0	0	0	29	60	1440	238	48	0	0	0	0
6	0	0	0	36	55	1030	503	44	0	0	0	0
7	0	0	0	40	52	916	469	48	0	0	0	0
8	0	0	0	36	47	1270	242	44	0	0	0	0
9	0	0	0	34	326	2030	278	39	0	0	0	0
10	0	0	0	31	295	1550	314	30	0	0	0	0
11	0	0	0	34	321	910	254	30	0	0	0	0
12	0	0	0	34	196	1925	150	27	0	0	0	0
13	0	0	11	31	169	1593	150	22	0	0	0	0
14	0	0	7	31	73	7034	154	14	0	0	0	0
15	0	0	8	31	66	597	135	14	0	0	0	0
16	0	0	8	31	77	1030	154	12	0	0	0	0
17	0	0	12	21	69	2305	78	9	0	0	0	0
18	0	0	12	38	66	2548	78	7	0	0	0	0
19	0	0	17	42	63	2278	65	5.5	0	0	0	0
20	0	0	23	42	49	2221	39	5.5	0	0	0	0
21	0	0	31	47	47	1921	48	5.5	0	0	0	0
22	0	0	38	45	38	1155	65	5	0	0	0	0
23	0	0	47	47	56	1176	61	3.0	0	0	0	0
24	0	0	47	42	42	3144	61	1.5	0	0	0	0
25	0	0	40	38	195	3384	69	0	0	0	0	0
26	0	0	49	36	216	1194	59	0	0	0	0	0
27	0	0	47	34	840	78	52	0	0	0	0	0
28	0	0	34	34		121	61	0	0	0	0	0
29	0	0	34	34		140	56	0	0	0	0	0
30	0	0	34	36		70		0	0	0	0	0
31	0		31					0		0		0
	0	0	533	1120	3646	37500	4752	648.5	0	0	0	0
MEAN	0	0	17.2	36.1	130	1210	145	20.9	0	0	0	0
ACRE-FEET	0	0	1060	2220	7230	74360	8630	1290	0	0	0	0

Remarks:

YEARS OF PERIOD 131
MEAN 1
ACRE-FEET 94410

F. C. Dist. Form 82 180 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F263R

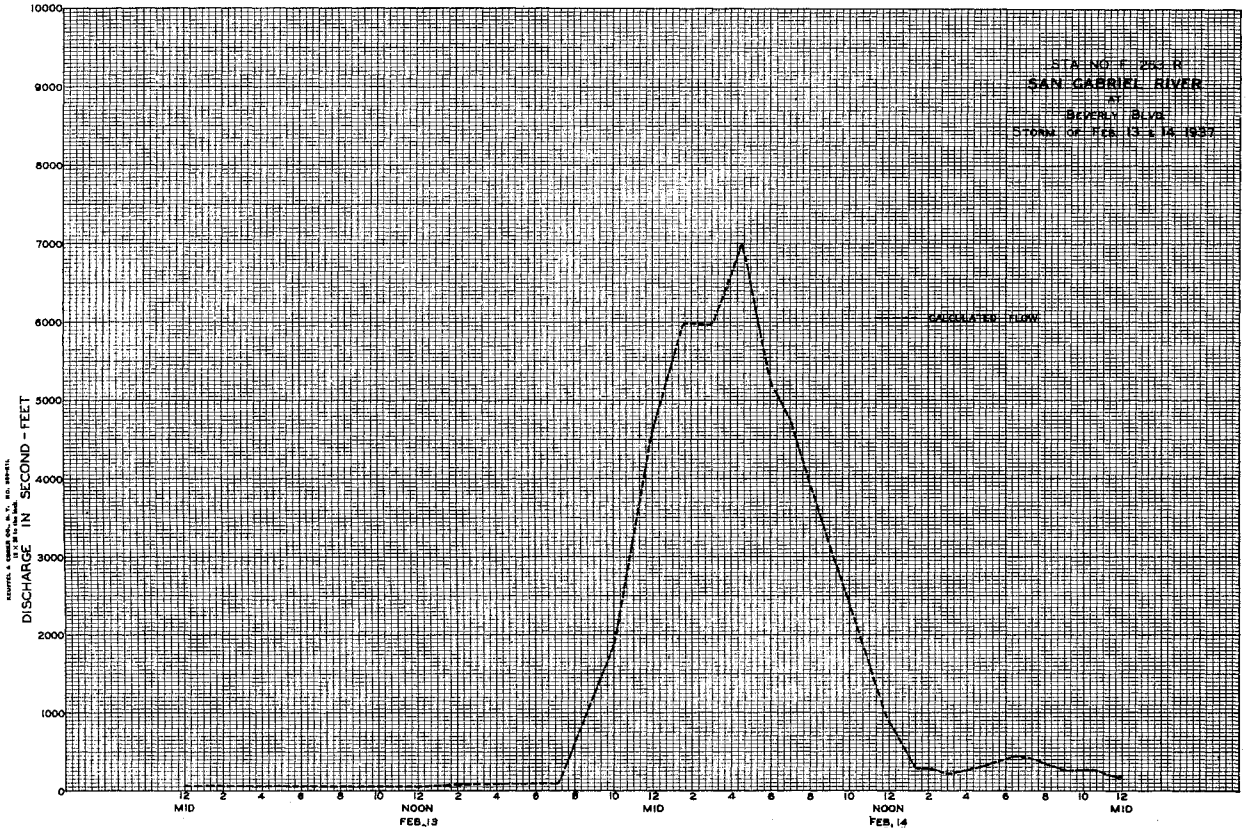
Daily discharge, in second-feet of SAN GABRIEL RIVER at Hanaro Blvd. for the year ending September 30, 19 37

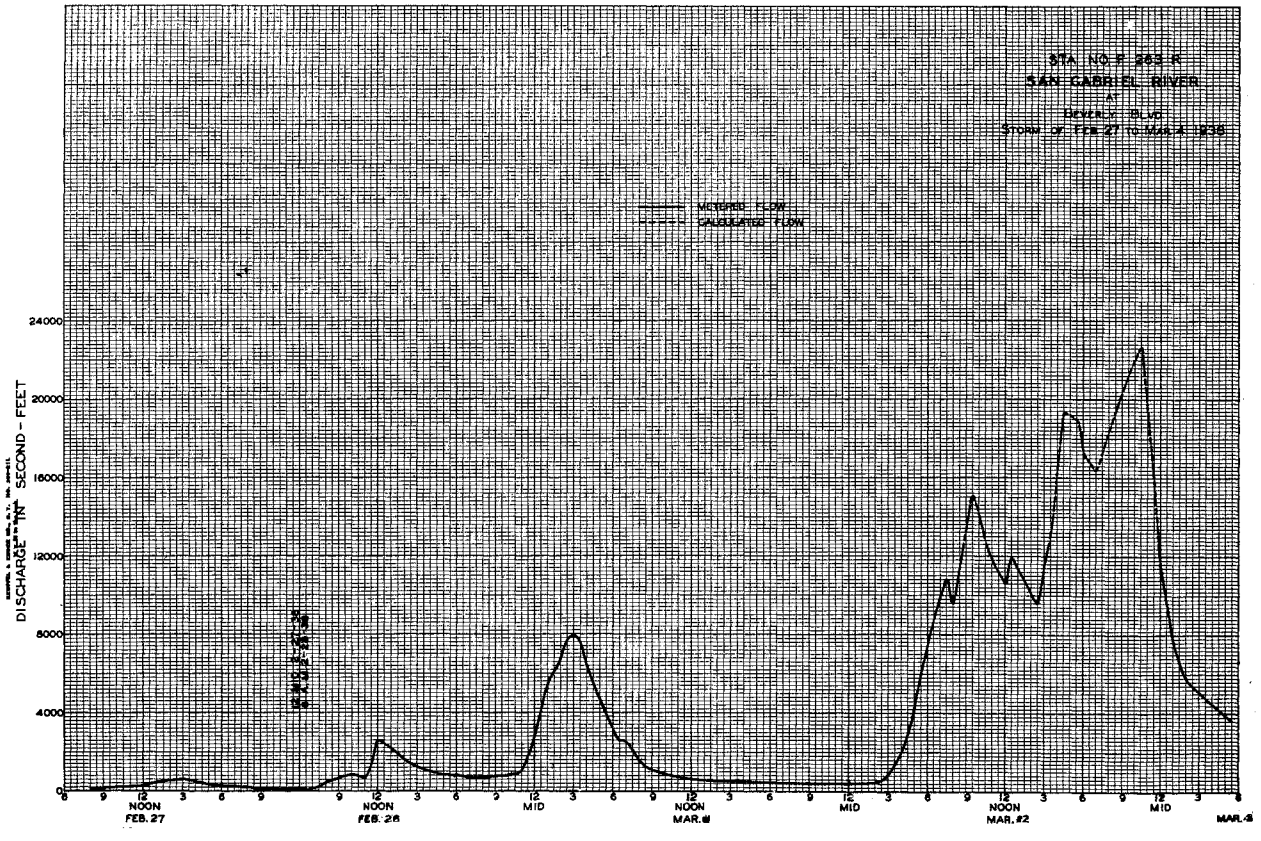
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						176	60	30	0	0	0	0
2						140	112	37	0	0	0	0
3						140	108	34	0	0	0	0
4					Recorder	108	199	27	0	0	0	0
5					Installed	102	116	28	0	0	0	0
6					2/4/37	111	116	28	0	0	0	0
7					2316	78	126	20	0	0	0	0
8					3156	37	108	15	0	0	0	0
9					367	90	191	18	0	0	0	0
10					75	22	116	23	0	0	0	0
11					60	48	116	23	2	0	0	0
12					67	75	51	23	0	0	0	0
13					439	179	310	25	0	0	0	0
14					2440	112	332	16	0	0	0	0
15					95	384	334	0.5	0	0	0	0
16					131	680	334	12	0	0	0	0
17					1400	277	86	26	0	0	0	0
18					2339	290	99	30	0	0	0	0
19					2330	292	108	40	0	0	0	0
20					2304	168	96	35	0	0	0	0
21					2279	155	75	6.5	0	0	0	0
22					1655	187	57	6.5	0	0	0	0
23					1400	233	42	4.5	0	0	0	0
24					1500	310	48	4.5	0	0	0	0
25					1682	170	51	3.5	0	0	0	0
26					2214	116	60	1.6	0	0	0	0
27					2209	71	64	0	0	0	0	0
28						54	40	0	0	0	0	0
29						54	37	0	0	0	0	0
30								0	0	0	0	0
31								0		0		0
					8243 in Feb. 5-28	5022	2344	350.1	2.2	0	0	0
MEAN						162	78.1	12.3	.73	0	0	0
ACRE-FEET									4.4	0	0	0

Feb. 5-28 Sept. 30
16350 and 9960 Acre-Feet 31780 Ans.

Remarks:

YEARS OF PERIOD 5
MEAN 6354
ACRE-FEET 31780 Ans.


STA NO F 26C R
SAN GABRIEL RIVER
AT
BEVERLY BLVD
STORM OF FEB 13 & 14 1937
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
12 MID
2
4
6
8
10
12 NOON
FEB. 13
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON
FEB. 14
2
4
6
8
10
12 MID


STA NO F 26C R
SAN GABRIEL RIVER
AT
BEVERLY BLVD
STORM OF FEB 27 TO MAR 4 1938
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
24000
20000
16000
12000
8000
4000
0
9
12 NOON
FEB. 27
3
6
9
9
12 NOON
FEB. 28
3
6
9
12 MID
3
6
9
12 NOON
MAR. 1
3
6
9
12 MID
3
6
9
12 NOON
MAR. 2
3
6
9
12 MID
MAR. 3

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:

Indeterminate due to a natural split near Arrow Highway which 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.

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 an F. C. Standard type house over a 21 inch dia. corrugated iron pipe stilling well.
An continuous recorder, in service October 1, 1936, was removed January 27, 1937.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2, Morris Dam, Big Dalton Dam, San Dimas Dam, Puddingstone Diversion Dam, 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 January 27, 1937. (For records prior to July 1928 see State Division of Water Rights Bulletins; for records subsequent to January 27, 1937 see station F263R San Gabriel River at Beverly Blvd.)

EXTREMES OF DISCHARGE:

1928-36
Maximum 23000 second-feet January 1, 1934.
Minimum no flow at times each year.

ACCURACY:

Poor due to shifting control.

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.

F.C.D. FORM 104 IM 2-37

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, 1937

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING DIFFERENCE	SECTION	MEAS. NOS.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	12/27	Jordan-Thomsen	54.0	21.9	1.52	4.26	33.		.6	13	-.02	545P 600P	FC 21
2	12/28	Brewster	118.0	68.14	1.69	4.53	115.		.6	12	-.04	712A 730A	FC 8
3	12/28	"	110.0	37.80	1.39	4.28	52.		.6	11	-.04	1055A 1118A	"
4	12/28	"	51.0	23.86	1.45	4.16	34.		.6	7	0	500P 520P	"
5	12/29	"	38.0	14.18	1.14	4.08	16.		.6	10	0	1235P 1250P	"
6	12/31	Brewster-Pettis	130.0	91.90	2.66	4.54	245.		.6	13	-.08	1010A 1050A	"
7	12/31	" "	31.0	36.50	2.08	4.24	76.		.6	8	-.01	515P 525P	"
8	1/4	Brewster	31.0	14.19	1.55	3.98	22.		.6	8	0	1215P 1230P	"
9	1/6	Brewster-Pettis	46.0	27.52	1.69	4.06	47.		.6	12	0	740A 800A	"
10	1/6	" "	106.0	71.40	2.35	4.44	167.		.6	14	+.08	1050A 1110A	"
11	1/7	Brewster	Two Channels			4.16	57.		.6	12	0	125P 145P	"
12	1/12	"	24.0	13.29	2.28	4.07	30.		.6	8	0	1115A 1130A	"
13	1/14	"	44.0	20.59	1.87	4.14	39.		.6	9	0	1222P 1240P	"
14	1/21	"	31.0	9.04	1.17	3.94	11.		.6	8	0	1215P 1230P	"
15	1/28	"	20.0	8.71	1.25	3.95	11.		.6	7	0	1140A 1152A	"
16	1/30	"	25.0	8.18	1.59	3.97	13.		.6	9	0	810P 820P	"

F.C. Dis. Form 96 rev 2-28

Daily discharge, in second-feet of SAN GABRIEL RIVER at Whittier Blvd. for the year ending September 30, 1937. Sta. No. F63R

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	18								
2	0	0	0	14								
3	0	0	0	22								
4	0	0	0	14								
5	0	0	0	14								
6	0	0	0	30								
7	0	0	0	22								
8	0	0	0	22								
9	0	0	0	22								
10	0	0	0	22								
11	0	0	0	46								
12	0	0	0	36								
13	0	0	0	24								
14	0	0	0	14								
15	0	0	0	18								
16	0	0	0	11								
17	0	0	0	8								
18	0	0	0	11								
19	0	0	0	11								
20	0	0	0	10								
21	0	0	0	10								
22	0	0	0	10								
23	0	0	0	10								
24	0	0	0	10								
25	0	0	0	10								
26	0	0	0	11								
27	0	0	8	Recorder removed Jan. 27, 1937								
28	0	0	54									
29	0	0	21									
30	0	0	50									
31		0	499									
Total	0	0	642	Jan. 1-26 632 inc.								
Mean	0	0	20.7	Jan. 1-26 1250 inc.								
Acre Feet	0	0	1270									

Remarks:

Mean Oct. 1-Jan. 26) Acre Feet 2520

STATION F262R

SAN GABRIEL RIVER at Florence Avenue (formerly Easy Street)

LOCATION:

Prior to the March 2, 1938 storm on the downstream (left) end of the first pier from the east bulkhead; following the March 2, 1938 storm the house and well were moved to the downstream end of third pier from the east bulkhead.

DRAINAGE AREA:

Indeterminate due to a natural split near Arrow Highway which 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.

CHANNEL AND CONTROL:

Shifting sand botton between earth levees.

DISCHARGE MEASUREMENTS:

At low flows by wading.
At high flows from upstream side of highway bridge.

RECORDER:

A Lietz 7 day recorder was installed on February 27, 1937 over an 18 inch diameter, corrugated iron pipe stilling well. The recorder was removed on March 2, 1938 and was reinstalled on April 4, 1938.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2, Morris Dam, Big Dalton Dam, San Dimas Dam, Puddingstone Diversion Dam, Puddingstone Dam, Live Oak Dam and Thompson Creek Dam, and after November 17, 1937, by San Gabriel Dam No. 1.

DIVERSIONS:

The City of Pasadena diverts water from the San Gabriel River. There are also several diversions for irrigation. Variable quantities of irrigation return water are measured at the station.

RECORDS AVAILABLE:

February 27, 1937 to August 19, 1938.
Recorder record lost from August 19, 1938 to September 30, 1938 due to subsequent theft of recorder.

EXTREMES OF DISCHARGE:

Not determined.

ACCURACY:

1936-1937 - Poor.
There was a channel along the east bank and another along the west bank; except during high flows, when the two streams were united in a single stream extending from bank to bank, the discharges do not include the flow in the west channel.
Interpolated:
May 12, 13, June 27, July 4, 5, 11, September 4-9, 1937.

OPERATION:

Located and constructed by the Los Angeles County Flood Control District; and operated in cooperation with the San Gabriel Valley Protective Association.

F. C. D. FORM 104 IM 6-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 262 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~XXXX~~ Florence Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERCENT DIF.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	1/6	Jordan	36.	14.85	2.70		40.		.6	11		500P 515P	FC 21
2	1/7	Jordan	19.	4.80	.96		4.6		.6	8		400P 415P	"
3	2/10	Bonadiman	46.1	21.65	1.72	.99	37.		.6	12	-.01	1045A 1105A	FC 9
4	2/10	"	45.5	19.72	1.65	1.00	33.		.6	11	+.01	241P 257P	"
5	2/10	"	37.7	18.00	1.69	.99	30.		.6	11	0	305P 325P	"
6	2/10	"	35.	16.32	.146	.99	24.		.6	11	0	403P 421P	"
7	2/10	"	35.	17.23	1.28	.98	22.		.6	10	0	432P 451P	"
8	2/10	"	35.	16.64	1.41	.97	24.		.6	10	-.02	515P 532P	"
9	2/16	"	52.	28.36	1.41	1.14	40.		.6	11	-.01	1217P 1240P	"
10	2/16	"	53.	26.19	1.33	1.12	35.		.6	12	0	313P 332P	"
11	2/16	"	53.	29.02	1.34	1.12	39.		.6	12	-.01	400P 420P	"
12	2/17	"	49.	25.96	1.92	1.16	50.		.6	12	-.01	1228P 1244P	"
13	2/17	"	49.	28.46	1.58	1.16	45.		.6	12	0	220P 242P	"
14	2/17	"	50.	24.64	1.50	1.14	37.		.6	10	-.01	430P 450P	"
15	2/18	"	57.	30.57	2.59	1.24	79.		.6	12	0	250P 310P	"
16	2/19	"	63.	42.56	2.82	1.41	120.		.6	11	-.02	146P 205P	"
17	2/19	"	61.	35.92	2.50	1.40	90.		.6	12	0	412P 430P	"
18	2/19	"	61.	34.63	2.60	1.40	90.		.6	12	+.03	440P 500P	"
19	2/20	"	62.	40.10	2.90	1.48	116.		.6	15	+.01	1040A 1100A	"
20	2/20	"	62.	37.65	2.84	1.48	107.		.6	16	-.01	1133A 1200P	"
21	2/20	"	59.	35.06	2.61	1.41	92.		.6	15	-.01	233P 255P	"
22	2/20	"	59.	31.95	2.53	1.40	81.		.6	15	0	322P 345P	"
23	2/20	"	56.5	27.95	2.36	1.36	66.		.6	14	0	400P 425P	"
24	2/22	"	54.	28.11	1.53	1.32	43.		.6	14	+.01	1047A 1107A	"
25	2/22	Bonadiman	54.	26.96	1.46	1.32	39.		.6	14	-.01	1109A 1133A	FC 9
26	2/22	"	53.	21.66	1.36	1.22	30.		.6	13	0	215P 237P	"
27	2/22	"	52.	19.24	1.24	1.19	24.		.6	12	-.02	320P 344P	"
29	2/23	"	53.	26.99	1.47	1.27	40.		.6	14	-.03	1106A 1127A	"
34	3/13	"	63.	64.13	3.37	1.58	216.		.6	10	-.04	1246P 106P	"
35	3/14	"	28.	15.68	2.05	1.19	32.		.6	7	0	851A 902A	"
36	3/17	"	64.	54.76	3.14	1.68	163.		.6	10	0	912A 930A	"
37	3/18	"	64.	58.70	3.38	1.78	198.		.6	8	0	918A 931A	"
38	3/19	"	64.	52.96	2.91	1.79	154.		.6	9	-.02	145P 210P	"
39	3/20	"	7.	2.93	1.01	1.22	3.0		.6	5	0	138P 145P	"
40	3/22	"	70.	91.96	3.29	1.97	302.		.6	9	-.04	127P 145P	"
41	3/23	"	52.5	25.15	1.56	1.48	39.		.6	13	0	214P 228P	"
42	3/25	"	51.	43.44	3.60	1.79	156.		.6	9	+.01	118P 135P	"
43	3/26	"	46.	22.72	1.51	1.46	34.		.6	10	-.02	928A 940A	"
47	4/3	"	12.	4.10	1.06	1.14	4.4		.6	5	0	1104A 1111A	"
48	4/5	"	15.	5.36	.99	1.17	5.3		.6	6	0	1027A 1037A	"
49	4/6	"	24.	6.87	.91	1.19	6.3		.6	7	+.01	1014A 1025A	FC 9
50	4/7	"	25.	7.04	.94	1.23	6.5		.6	7	+.01	1014A 1024A	"
51	4/8	"	10.5	4.54	.69	1.06	3.1		.6	4	0	210P 216P	"
53	4/19	"	11.5	1.54	.51	.94	.80		.6	3	+.02	1157A 1200N	"
56	4/26	"	4.0	.40	.32	.85	.13		.6	2	0	954A 956A	"
58	5/20	"	3.5	.70	.51	.98	.36		.6	3	0	250P 255P	"
59	5/27	"	10.5	2.84	.65	1.10	1.8		.6	4	0	332P 338P	"
60	6/3	"	Two	Channels		1.00	.18		.6	4	-.01	1126A 1138A	"
62	6/17	Bonadiman	Two	Channels		1.01	.18		.6	4	0	253P 256P	FC 9
68	7/29	"	4.0	.61	.28	.96	.17		.6	2	-.01	745A 747A	"
70	8/12	"	Two	Channels		1.20	.80		.6	6	-.01	806A 811A	"
71	9/22	"	5.0	.50	.74	1.13	.37		.6	1		125P 127P	"
72	9/30	"	4.0	.50	.28	1.05	.14		.6	1	-.02	333P 335P	"

F. C. D. FORM 104 IM 6-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 262 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~XXXX~~ Florence Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERCENT DIF.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
73	10/14	Bonadiman	3.	.32	.25	1.08	.08		.6	2	0	155P	FC 9
74	11/4	"	Two	Channels		1.26	1.6		.6	5	0	332P 337P	"
75	11/24	"	Two	Channels		1.34	3.6		.6	6	0	318P 330P	"
76	12/2	"	Two	Channels		1.30	.80		.6	6	0	256P 304P	"
77	12/15	"	6.5	2.63	.64	1.34	1.7		.6	4	0	922A 927A	FC 40
78	2/1	Jordan-Thomsen	98.	140.	2.51	3.09	351.		.6	7	+.42	837A 850A	FC 21
79	2/1	" "	129.	216.	3.26	3.43	704.		.6	12	-.14	1023A 1049A	"
80	2/1	Bonadiman-Lind	120.	176.	3.36	3.12	592.		.6	13	-.11	1145A 1200N	FC 40
81	2/1	" "	60.	49.8	1.46	1.98	71.		.6	6	-.02	458P 503P	"
82	2/2	Bonadiman	10.	2.44	.59	1.37	1.4		.6	3	0	951A 957A	"
83	2/4	Jordan	54.	36.5	1.29	1.98	47.		.6	14	-.01	845A 900A	FC 21

F. C. D. FORM 104 TM 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 262 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

at Florence Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Person Inf.	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
84	2/4	Bonadiman-Lind	44.	21.7	.82	1.72	17.		.6	7	0	100P 108P	FC 40
85	2/9	Jordan-Thomsen	136.	146.	2.74	2.43	400.		.6	13	-.14	820P 900P	FC 21
86	2/10	Bonadiman-Lind	17.	9.29	2.16	1.00	20.		.6	6	0	1013A 1015A	FC 40
87	2/11	Jordan-Thomsen	112.7	178.	3.00	2.61	533.		.6	10	+.22	547P 626P	FC 21
88	2/12	Bonadiman-Lind	Two Channels			1.50	92.		.6	12	-.09	246P 300P	FC 40
89	2/16	Bonadiman	16.	3.36	1.18	1.14	4.0		.6	5	0	1005A 1015A	"
90	2/25	Jordan	16.	7.20	1.45	1.20	10.		.6	9	0	250P 305P	FC 21
91	2/27	Jordan-Thomsen	115.	115.	2.89	2.20	333.		.6	14	0	442P 503P	"
92	2/28	" "	120.	280.	4.30	2.92	1200.		.6	15	-.16	207P 231P	"
93	3/1	" "	274.	272.	4.23	3.16	1140.		.6	23	-.08	955A 1029A	"
94	3/4	" "	176.	632.	7.35	3.9	4600.		F1			1100A 1130A	
95	3/6	L. Jordan-W. Jordan	125.	199.	4.73	2.55	944.		.6	11	+.10	1150A 1230P	FC 21
96	3/16	Bonadiman	145.	154.3	2.00	2.66	309.		.6	8	0	200P 219P	FC 40
97	3/22	Bonadiman	11.	5.4	.82	2.28	4.4		.6	5	0	1110A 1120A	FC 40
98	3/23	"	8.	2.3	2.55	2.31	6.0		.6	3	0	300P	"
99	3/24	"	Two Channels			2.62	99.		.6	8	0	1120A 1130A	"
100	3/30	"	20.	13.4	1.25	2.56	17.		.6	5	0	310P 325P	"
101	3/31	"	24.	16.7	1.98	2.70	33.		.6	6	0	1112A 1128A	"
102	4/6	"	Four Channels			2.92	211.	Sur	.6	14	0	418P 450P	"
103	4/7	"	Three Channels			2.98	313.	Sur	.6	14	+.04	120P 200P	"
104	6/16	"	6.5	2.38	0.58	2.20	1.2		.6	4	0	1105A 1112A	"
105	7/7	"	5.	.70	.24	2.00	.17		.6	2	0	907A 909A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F262R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Florence Ave., for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1						26	0 +	0	0	0	0 +	0 +
2						9	0 +	0	0	0	0 +	0 +
3						5	1	0	1	0	0 +	0 +
4						6	8	1	5	0	1	0 +
5						8	1	8	3	0	1	0 +
6						13	0	0	0	0	0	0 +
7						6	2	0	1	0	0	0 +
8						5	2	1	2	0	0	0 +
9						2	5	0	6	0	0	0 +
10						3	5	0	0	0	0	0 +
11						0	1	0	0	0	0	0 +
12						0	0	0	1	0	0	0 +
13						0	1	0	1	0	0	0 +
14						0	1	0	1	0	0	0 +
15						0	1	0	1	0	0	0 +
16						0	0	0	1	0	0	0 +
17						0	0	0	1	0	0	0 +
18						0	0	0	1	0	0	0 +
19						0	0	0	1	0	0	0 +
20						0	0	0	1	0	0	0 +
21						0	0	0	1	0	0	0 +
22						0	0	0	1	0	0	0 +
23						0	0	0	1	0	0	0 +
24						0	0	0	1	0	0	0 +
25						0	0	0	1	0	0	0 +
26						0	0	0	1	0	0	0 +
27						0	1	0	1	0	0	0 +
28						0	1	0	1	0	0	0 +
29						0	0	0	1	0	0	0 +
30						0	0	0	1	0	0	0 +
31						0	0	0	1	0	0	0 +
Mean						54.9	1.87	1.23	3.10	18.3	.31	2.11
Acre-Feet						3370	111	76	185	1130	19	126

Beginning of record Feb. 27, 1937
50
50
Feb. 28
Feb. 28

Year Mean 5.20
Acre-Feet 3770
Period Feb. 28—Sept. 30

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

F. C. Dec. Form 33 16 4-38

STATION F42R

SAN GABRIEL RIVER at Spring St., Long Beach

LOCATION:

On downstream end of second pier from east (left) end of Spring St. bridge, ¼ 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:

Indeterminate due to a natural split near Arrow Highway which 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.

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 cat-walk on upstream side of bridge.

RECORDER:

Installed February 6, 1928 in an F. C. Standard type house over a 21 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder in service October 1, 1936 to September 30, 1938.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2, Morris Dam, Big Dalton Dam, San Dimas Dam, Puddingstone Diversion Dam, Puddingstone Dam, Live Oak Dam and Thompson Creek Dam, and after November 17, 1937, by San Gabriel Dam No. 1.

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, 1938. (For records prior to February, 1928 see State Division of Water Rights Bulletins).

EXTREMES OF DISCHARGE:

1936-1937
Maximum 4560 second-feet February 14.
Minimum no flow most of year.
1937-1938
Maximum 27000 second-feet, estimated, March 2.
Minimum no flow most of year.
1927-1938
Maximum 27000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Poor.
Estimated: February 7, 8, 14, 15, March 20, 21, 1937; March 2, 3, 6, 7, 8, 11, 1938.
Well usually sanded following storms. River out of channel below station due to break in levee March 2, 3, 1938.

OPERATION:

Operated by the Los Angeles County Flood Control District. Located by the State Division of Water Rights.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 42 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

~~AT~~ Spring Street, Long Beach DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METER	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
4	12/31	Bonadiman-Lind	106.	269.6	3.44	6.28	927.		.6	8	-.20	802A 814A	FC 9
5	12/31	" "	98.	197.3	3.58	5.52	706.		.6	7	-.05	920A 930A	"
7	1/7	"	2.5	.58	.88	2.70	.50		.6	2	0	1155A 1159A	"
8	1/13	Bonadiman	24.	9.48	2.67	3.48	25.		.6	6	0	1122A 1131A	"
12	2/6	Bonadiman-Lind	118.	514.5	7.41	8.34	3820.		.6	7	+.43	525P 550P	"
13	2/7	" "	93.	134.	1.91	4.70	256.		.6	7	-.01	950A 1010A	"
16	2/14	Jordan-Thomsen	109.	334.5	5.67	7.14	1900.		.6	7	-.28	1145A 1225P	
17	2/15	Bonadiman	70.	59.30	1.29	4.98	77.		.6	6	0	1150A 1202P	FC 9
18	2/18	"	76.3	64.14	.99	4.96	64.		.6	6	4.01	1255P 107P	"
19	2/25	"	63.	27.91	.72	4.70	20.		.6	5	0	1225P 1235P	"
22	3/13	"	92.	116.2	3.11	5.43	361.		.6	7	0	150P 204P	"
23	3/14	"	Two Channels			4.87	21.		.6	10	0	957A 1009A	"
24	3/16	Bonadiman-Delay	104.	200.4	5.66	6.40	1130.		.6	7	-.16	255A 325A	"
25	3/16	" "	99.	182.0	3.09	5.73	563.		.6	7	-.02	605A 618A	"
26	3/17	Bonadiman	83.	104.0	1.70	5.54	177.		.6	7	0	1200N 1210P	"
27	3/18	"	94.	106.0	2.15	5.47	228.		.6	9	0	1100A 1112A	"
28	3/19	"	95.	94.20	1.69	5.46	160.		.6	9	0	105P 115P	"
29	3/20	"	67.8	44.46	.90	5.10	40.		.6	7	0	1225P 1236P	"
32	3/22	"	100.	109.4	2.16	5.70	236.		.6	9	+.04	340P 400P	"
33	3/23	"	84.	77.70	.91	5.22	71.		.6	8	0	1200N 1212P	"
34	3/25	"	95.	133.4	1.48	5.65	197.		.6	9	-.02	1125A 1138A	"
35	3/26	"	57.	34.70	.66	4.98	23.		.6	5	0	1057A 1105A	"

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, 19 38

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.	METER	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
46	2/1	Bonadiman-Lind	102.	137.	3.14	6.08	429.		.6	8	-.07	107P 117P	FC 40
47	2/1	" "	72.	73.5	1.96	5.42	144.		.6	8	-.03	413P 421P	"
48	2/4	Bonadiman-Lind	27	11.44	1.22	4.86	14		.6	6	0	212P 218P	FC 40
49	2/4	" "	24	11.33	1.21	4.86	14		.6	6	0	223P 228P	"
50	2/9	" "	75	148	3.65	5.99	541		.6	7	-.07	1018P 1030P	"
51	2/10	" "	67	45	.99	5.02	45		.6	8	0	1139A 1146A	"
52	2/11	" "	74	169	4.65	6.25	787		.6	9	+.04	843P 855P	"
53	2/11	" "	74	178	4.34	6.30	773		.6	8	0	927P 937P	"
54	2/12	" "	70	85.6	1.10	5.37	94	Sur	.6	8	-.02	944A 954A	"
55	2/27	Bonadiman and Waddicor	74	99.17	2.54	5.55	251		.6	7	+.10	723P 734P	"
56	2/28	"	96	173.8	3.4	6.20	591		.6	7	+.04	128P 138P	"
57	2/28	"	95	182.6	3.28	6.38	601		.6	8	+.35	140P 150P	"
58	2/28	"	110	303.2	5.20	7.23	1570		.6	9	+.07 -.05	215P 244P	"
59	2/28	"	110	303	4.61	7.22	1400		Fl			252P	
60	2/28	"	100	256.2	4.57	6.70	1170		.6	8	-.03	425P 435P	FC 40
61	3/1	"	120	621.2	8.02	9.42	4970		.6	7	-.75	602A 632A	"
62	3/1	"	102	303.2	4.71	6.80	1430		.6	7	-.09	1020A 1034A	"
63	3/1	"	81	219.8	3.89	6.21	855		.6	7	-.04	1253P 107P	"
64	3/6	Bonadiman	122	247.2	3.93	6.05	972		.6	9	0	1235P 100P	"
65	3/8	"	121	238.1	2.69	6.00	641		.6	12	0	1046A 1120A	"
66	3/9	"	123	446.7	4.05	6.95	1800		.6	9	0	1207P 1235P	"
67	3/10	Bonadiman and Galbraith	121	258.4	4.41	6.38	1140		.6	10	+.05	935A 1000A	"
68	3/11	"	115	95.5	2.02	5.52	192	Sur	.6	8	0	1035A 1040A	"
69	3/12	"	120	256	3.72	6.37	951		.6	10	-.04	800A 822A	"
70	3/12	"	121	233	4.42	6.39	1030		.6	10	-.02	137P 148P	"
71	3/13	Bonadiman and Galbraith	121	155	2.55	5.90	396	Sur	.6	10	0	1028A 1040A	FC 40
72	3/14	"	120	164	2.44	5.87	400		.6	11	0	1105A 1125A	"
73	3/16	Bonadiman	121	112.2	1.72	5.68	193	Sur	.6	10	0	1206P 1230P	"
74	3/24	"	Two Channels			5.27	58		.6	8	0	140P 200P	"
75	3/30	"	52	32.6	1.28	5.04	42		.6	6	0	1230P 1245P	"
76	4/6	"	121	120	1.72	5.77	206	Sur	.6	11	0	215P 240P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F42R

for the year ending September 30, 19 35

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	56	1870	5.5		0	0	0	0
2	0	0	0	0	0.8	14500	0		0	0	0	0
3	0	0	0	0	0	9250	3.5		0	0	0	0
4	0	0	0	0	0	6190	3.5		0	0	0	0
5	0	0	0	0	0	4370	3.5		0	0	0	0
6	0	0	0	0	0	1970	21		0	0	0	0
7	0	0	0	0	0	1802	248		0	0	0	0
8	0	0	0	0	0	743	270		0	0	0	0
9	0	0	0	0	156	1660	166		0	0	0	0
10	0	0	0	0	75	911	188		0	0	0	0
11	0	0	0	0	89	248	87		0	0	0	0
12	0	0	0	0	107	690	36		0	0	0	0
13	0	0	0	0	6	416	0		0	0	0	0
14	0	0	0	0	0	440	0		0	0	0	0
15	0	0	0	0	0	312	0		0	0	0	0
16	0	0	0	0	0	202	0		0	0	0	0
17	0	0	0	0	0	142	0		0	0	0	0
18	0	0	0	0	0	109	0		0	0	0	0
19	0	0	0	0	0	112	0		0	0	0	0
20	0	0	0	0	0	103	0		0	0	0	0
21	0	0	0	0	0	142	0		0	0	0	0
22	0	0	0	0	0	0	0		0	0	0	0
23	0	0	0	0	0	34	0		0	0	0	0
24	0	0	0	0	0	54	0		0	0	0	0
25	0	0	0	0	0	54	0		0	0	0	0
26	0	0	0	0	0	34	0		0	0	0	0
27	0	0	0	0	46	27	0		0	0	0	0
28	0	0	0	0	362	18	0		0	0	0	0
29	0	0	0	0		18	0		0	0	0	0
30	0	0	0	0		37	0		0	0	0	0
31	0		0	0		30				0		0
Mean	0	0	0	0	32.2	1360	44.9	0	0	0	0	0
Acre-Feet	0	0	0	0	1790	83560	2670	0	0	0	0	0

Year or Period: Mean 122, Acre-Feet 88020

Remarks:

F. C. Dist. Form 82 150 8-35

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F42R

for the year ending September 30, 19 37

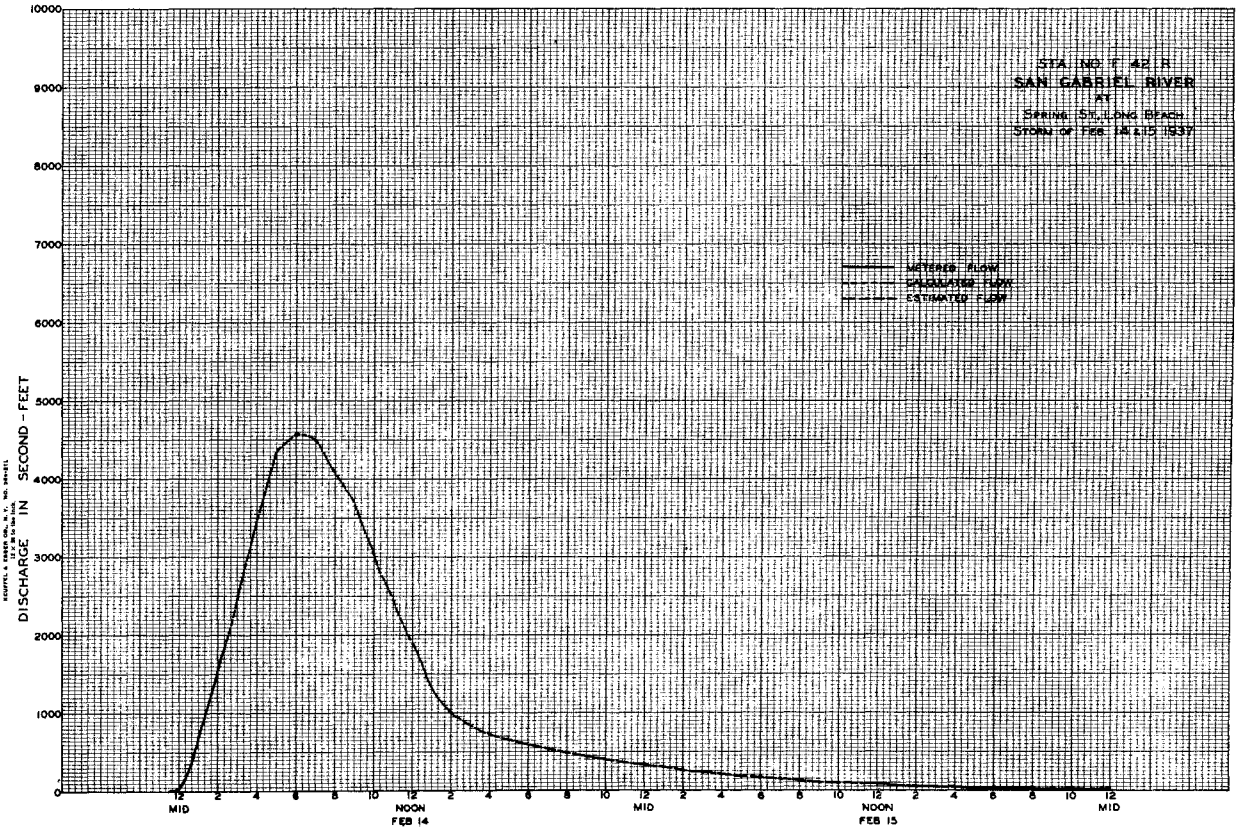
Daily discharge, in second-feet of SAN GABRIEL RIVER at Spring St., Long Beach

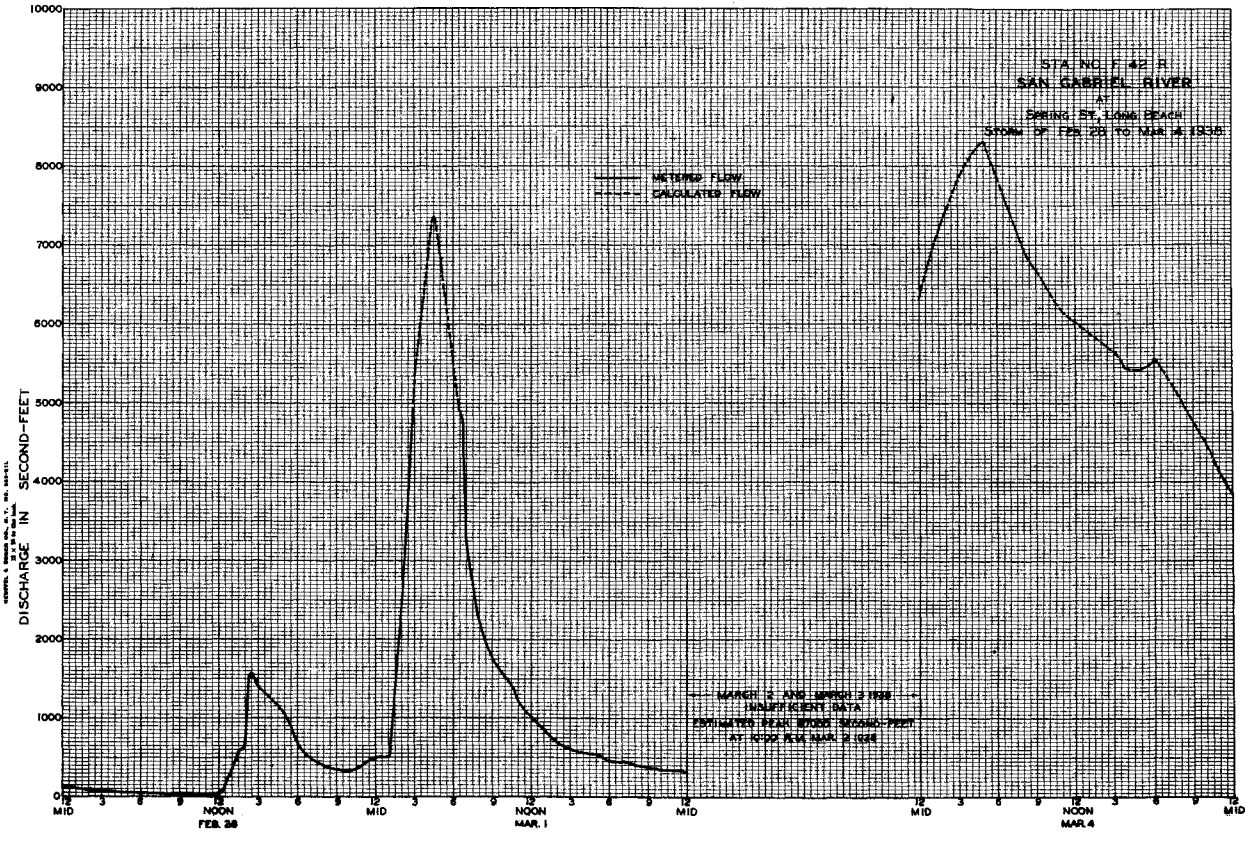
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.1	0	0	0.4	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0.3	177	0	0	0	0	0	0	0
7	0	0	0	0	31	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	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	3.2	185	117	0	0	0	0	0	0
13	0	0	0	0.8	0	117	0	0	0	0	0	0
14	0	0	0	0	0	16	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	561	0	0	0	0	0	0
17	0	0	0	0	0	177	0	0	0	0	0	0
18	0	0	0	0	0	197	0	0	0	0	0	0
19	0	0	0	0	0	157	0	0	0	0	0	0
20	0	0	0	0	0	81	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
Mean	0	0	0	0.1	18.3	60.7	0	0	0	0	0	0
Acre-Feet	0	0	0	11	1120	3730	0	0	0	0	0	0

Year or Period: Mean 15.7, Acre-Feet 13510

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

F. C. Dist. Form 82 150 8-35


STA NO. F 42 R
SAN GABRIEL RIVER
AT
SPRING ST., LONG BEACH
STORM OF FEB. 14 & 15 1937
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND-FEET
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
12 MID
2
4
6
8
10
12 NOON
FEB 14
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON
FEB 15
2
4
6
8
10
12 MID


STA NO. F 42 R
SAN GABRIEL RIVER
AT
SPRING ST., LONG BEACH
STORM OF FEB 28 TO MAR 4, 1938
METERED FLOW
CALCULATED FLOW
MARCH 2 AND MARCH 3 1938
INSUFFICIENT DATA
ESTIMATED PEAK FLOWS SECOND-FEET
AT 10:00 P.M. MAR. 2 1938
DISCHARGE IN SECOND-FEET
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
12 MID
3
6
9
12 NOON
FEB. 28
3
6
9
12 MID
3
6
9
12 NOON
MAR. 1
3
6
9
12 MID
12 MID
3
6
9
12 NOON
MAR. 4
3
6
9
12 MID

STATION F48R

SAN JOSE CREEK at Workman Mill Road

LOCATION:

On downstream end of first pier from south (left) 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:

85.0 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 148 feet below station.

RECORDER:

Installed January 2, 1929 in a F. C. Standard type house over an 18 inch dia. corrugated iron pipe stilling well.
An Au continuous recorder, in service October 1, 1936, was replaced on November 24, 1936 with a horizontal rational 7 day recorder, which was replaced December 31, 1937 with an H.C.F. continuous recorder.

REGULATION:

Flow partially regulated by Thompson Creek Dam.

DIVERSIONS:

Small diversion for spreading.

RECORDS AVAILABLE:

January 2, 1929 to September 30, 1938.
(For records prior to January 2, 1929 see State Division of Water Rights Bulletins).

EXTREMES OF DISCHARGE:

1936-37
Maximum 4070 second-feet February 14.
Minimum + at various times.
1937-38
Maximum 9360 second-feet March 2.
Minimum 0.3 second-feet November 10.
1938-39
Maximum 13100 second-feet January 1, 1934.
Minimum no flow at various times.

ACCURACY:

Fair.
Well liable to be sanded after storms.

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, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERMENT DIFF.	STG. CO	MEAS. REM. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Brewster	1.5	.23	.91	.97	.21		.6	3	0	210P 215P	FC 8
2	10/8	"	1.0	.24	.62	.90	.15		.6	2	0	155P 159P	"
3	10/15	"	1.0	.20	.95	.91	.19		.6	2	0	220P 223P	"
4	10/22	"	1.0	.14	.93	.87	.13		.6	2	0	240P 243P	"
5	10/29	"	1.0	.15	1.07	.88	.16		.6	2	0	230P 233P	"
6	11/5	"	1.0	.12	.83	.88	.10		.6	2	0	225P 228P	"
7	11/12	"	1.0	.13	.54	.83	.07		.6	2	0	145P 148P	"
8	11/19	"	0.5	.08	.50	.77	.04		.6	1	0	155P 159P	"
9	11/25	"	0.5	.05	.60	.74	.03		.6	1	0	220P 222P	"
10	12/3	"	0.5	.06	.33	.66	.02		.6	1	0	205P 207P	"
11	12/10	"	0.5	.06	.50	.65	.03		.6	1	0	202P 204P	"
12	12/15	"	1.0	.19	.53	.78	.10		.6	2	0	802A 806A	"
13	12/15	"	1.5	.35	.83	.82	.29		.6	3	0	422P 426P	"
14	12/15	"	4.0	1.73	1.39	1.04	2.4		.6	4	-.01	945P 951P	"
15	12/16	"	5.0	2.35	1.61	1.11	3.8		.6	5	-.01	954A 1000A	"
16	12/17	"	3.0	.69	.78	.90	.55		.6	3	0	148P 152P	"
17	12/23	"	0.5	.11	1.09	.76	.12		.6	1	0	214P 216P	"
18	12/25	"	3.0	.51	.84	.88	.43		.6	3	0	755A 758A	"
19	12/27	"	4.0	1.16	1.80	.98	2.1		.6	4	+.01	1126A 1130A	"
20	12/27	"	15.0	14.49	2.16	1.64	31.		.6	5	-.01	458P 505P	"
21	12/28	"	35.0	33.25	.85	1.59	28.		.6	7	-.02	1230P 1242P	"
22	12/28	"	11.0	11.51	2.03	1.44	23.		.6	6	-.01	414P 428P	"
23	12/29	"	9.0	8.35	.81	1.20	6.7		.6	5	0	1140A 1150A	"
24	12/30	Brewster-Pettis	101.0	268.9	4.59	4.47	1230.		.6	11	+.10	1112P 1133P	"
25	12/31	Brewster-Pettis	97.0	228.2	3.96	4.10	903.		.6	11	-.02	240A 300A	FC 8
26	12/31	" "	35.0	36.15	2.23	2.05	81.		.6	7	-.02	1230P 1242P	"
27	1/1	Brewster	3.0	.76	1.61	.96	1.2		.6	3	0	210P 215P	"
28	1/6	Brewster-Pettis	11.0	6.41	1.60	1.48	10.		.6	5	-.01	700A 710A	"
29	1/6	" "	32.0	33.76	2.45	2.04	83.		.6	8	+.12	845A 902A	"
30	1/6	" "	20.0	14.44	2.33	1.74	34.		.6	8	-.01	430P 440P	"
31	1/7	Brewster	5.0	1.83	1.22	1.02	2.2		.6	5	-.01	205P 211P	"
32	1/12	"	1.0	.22	1.41	.78	.31		.6	2	0	1020A 1025A	"
33	1/12	"	30.0	28.55	2.56	2.01	73.		.6	6	-.02	925P 940P	"
34	1/14	"	3.0	.95	1.17	.84	1.1		.6	3	0	204P 209P	"
35	1/21	"	1.0	.18	.67	.64	.12		.6	2	0	1255P 1258P	"
36	1/28	"	1.0	.24	1.38	.74	.33		.6	2	0	140P 142P	"
37	1/30	"	8.0	3.24	1.98	1.30	6.3		.6	4	0	745P 751P	"
38	1/30	"	26.0	23.76	1.53	1.74	36.		.6	6	-.03	900P 915P	"
39	1/31	"	8.0	4.24	1.08	1.10	4.6		.6	4	0	1034A 1040A	"
40	2/4	"	1.0	.15	1.07	.68	.16		.6	2	0	210P 213P	"
41	2/6	"	32.0	31.25	1.68	1.80	52.		.6	7	+.01	710A 722A	"
42	2/6	Brewster-Pettis	115.0	493.2	6.58	6.57	3240.		.6	12	+.30	410P 446P	"
43	2/6	" "	101.0	368.7	3.97	4.71	1460.		.6	11	-.22	1055P 1120P	"
44	2/7	" "	44.0	28.12	1.98	1.36	56.		.6	6	-.01	1125A 1137A	"
45	2/8	Brewster	8.0	2.62	1.26	.71	3.3		.6	4	0	1124A 1130A	"
46	2/11	"	4.0	1.08	.96	.61	1.0		.6	4	0	230P 236P	"
47	2/13	Brewster-Pettis	102.0	344.5	4.72	4.86	1630.		.6	11	-.03	1026P 1055P	"
48	2/14	Brewster-Pettis	113.0	540.2	6.33	6.34	3420		.6	12	-.13	410A 452A	FC 8
49	2/14	" "	103.0	321.9	6.06	4.86	1960		.6	10	-.20	850A 915A	"
50	2/14	" "	55.0	103.0	4.89	2.87	504.		.6	6	+.10	520P 550P	"
51	2/15	Brewster	26.0	15.28	1.68	.84	26.		.6	7	0	125P 140P	"
52	2/18	"	5.0	1.47	1.24	.41	1.8		.6	5	0	245P 251P	"
53	2/25	"	18.0	6.54	1.02	.50	6.6		.6	6	-.01	150P 200P	"
54	3/4	"	3.0	.61	.84	.33	.50		.6	3	0	230P 236P	"
55	3/11	"	3.0	.56	.64	.31	.36		.6	3	0	220P 225P	"
56	3/13	Brewster-Pettis	62.0	135.1	4.40	2.88	594.		.6	7	-.05	720A 745A	"
57	3/13	" "	59.0	100.8	4.27	2.36	430.		.6	7	-.02	840A 900A	"
58	3/15	" "	90.0	208.7	4.34	3.56	907.		.6	9	-.09	1002P 1026P	"
59	3/16	Brewster	28.0	16.72	1.94	.86	32.		.6	7	-.03	1240P 1255P	"
60	3/18	"	4.0	1.28	1.30	.14	1.7		.6	4	0	120P 125P	"
61	3/22	Brewster-Pettis	54.0	63.62	3.50	1.74	240.		.6	8	-.01	943A 955A	"
62	3/22	" "	57.0	102.6	5.38	2.21	552.		.6	6	+.02	250P 315P	"
63	3/23	Brewster	10.0	4.10	1.52	.34	6.2		.6	5	0	1040A 1048A	"
64	3/24	Brewster-Pettis	29.0	24.89	2.33	.98	58.		.6	7	+.02	1008P 1020P	"
65	3/25	Brewster	11.0	6.09	1.14	.36	7.0		.6	5	0	230P 238P	"
66	4/1	"	3.0	.91	1.01	.13	.90		.6	3	0	220P 226P	"
67	4/8	"	3.0	.58	.97	.14	.55		.6	3	0	210P 216P	"
68	4/15	"	3.0	.68	.90	.13	.60		.6	3	0	1130A 1136A	"
69	4/22	"	3.0	.56	.98	.12	.55		.6	3	0	320P 325P	"
70	4/29	"	3.0	.79	.99	.14	.80		.6	3	0	230P 235P	"
71	5/6	"	3.0	.64	1.06	.14	.70		.6	3	0	305P 308P	"

F.C.D. FORM 104 (M 8-57)

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, 19 37

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.	RTG. NO.	GAGE HGT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
72	5/13	Brewster	3.0	.75	.83	.14	.60		.6	3	0	304P 310P	FC 8
73	5/20	"	3.0	.56	.75	.13	.42		.6	3	0	232P 238P	"
74	5/27	"	4.0	1.04	1.05	.21	1.1		.6	4	0	240P 246P	"
75	6/3	"	3.0	.83	.94	.20	.80		.6	3	0	205P 211P	"
76	6/10	"	3.0	.75	1.24	.24	.95		.6	3	0	200P 205P	"
77	6/17	"	3.0	.74	.91	.24	.65		.6	3	0	125P 130P	"
78	6/24	"	2.4	.74	.84	.22	.60		.6	3	0	220P 225P	"
79	7/1	"	3.0	.91	1.09	.16	1.0		.6	3	0	102P 107P	"
80	7/8	"	3.0	.67	.97		.65		.6	3		200P 206P	"
81	7/15	"	3.0	.71	1.17	.09	.85		.6	3	0	130P 135P	"
82	7/22	"	3.0	.75	1.0	.10	.75		.6	3	0	100P 106P	"
83	7/29	"	3.0	.83	.95	.10	.80		.6	3	0	1230P 1236P	"
84	8/5	"	3.0	.92	.90	.10	.85		.6	3	0	100P 106P	"
85	8/12	"	4.0	1.22	.71	.13	.85		.6	4	0	1235P 1243P	"
86	8/19	Lindsay	2.0	.23	.91	.11	.21		.6	4	0	1248P 1255P	FC 28
87	8/26	"	2.5	.44	1.00	.14	.44		.6	5	0	1230P 1240P	"
88	9/2	Brewster	4.0	.97	.88	.19	.85		.6	4	0	230P 237P	FC 8
89	9/8	"	4.0	1.08	.84	.14	.90		.6	4	0	122P 130P	"
90	9/15	"	3.0	.75	.67	.08	.50		.6	3	0	107P 113P	"
91	9/23	"	3.0	.73	.92	.09	.65		.6	3	0	154P 200P	"
92	9/30	"	3.0	.89	.65	2.17	.60		.6	3	0	105P 112P	"

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

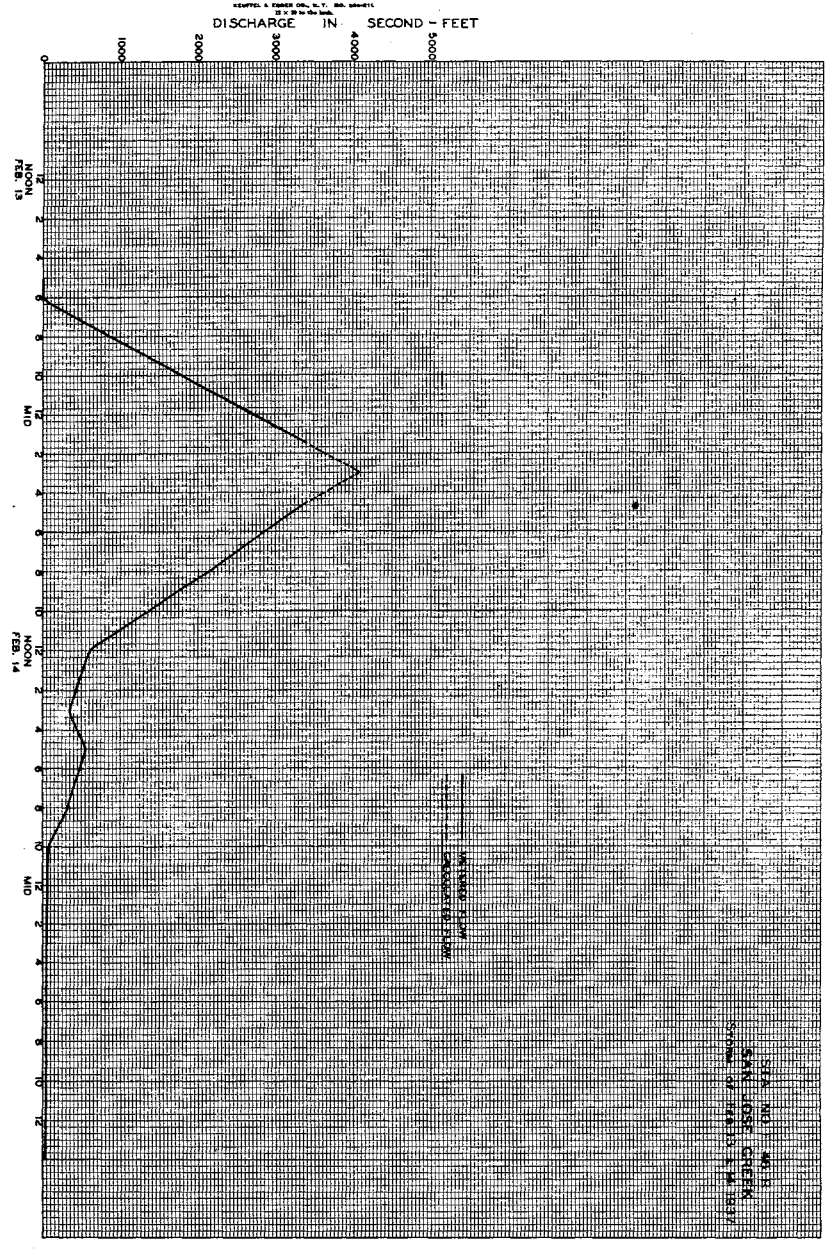
HYDRAULIC DEPARTMENT

STATION NO. F 48 R

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK

AT Workman Mill Road DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	RTG. NO.	GAGE HGT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
93	10/7	Brewster	3.0	.68	.71	2.16	0.50		.6	3	0	112P 117P	FC 8
94	10/14	"	3.0	.80	.82	2.18	0.65		.6	3	0	127P 132P	"
95	10/21	"	3.0	.89	.64	2.16	0.55		.6	3	0	230P 235P	"
96	10/28	"	2.3	.50	.78	2.18	0.39		.6	4	0	205P 211P	"
97	11/4	"	1.5	.50	.98	2.18	0.49		.6	3	0	155P 201P	"
98	11/10	"	1.8	.48	.81	2.16	0.39		.6	3	0	240P 245P	"
99	11/18	"	1.8	.48	.86	2.18	0.41		.6	3	0	240P 245P	"
100	11/24	"	1.8	.51	.82	2.17	0.42		.6	3	0	210P 215P	"
101	12/2	"	1.5	.38	.84	2.16	0.32		.6	3	0	220P 224P	"
102	12/9	"	2.4	.69	.78	2.18	0.55		.6	3	0	120P 125P	"
103	12/11	Brewster-Pettis	4.0	1.43	1.23	2.32	1.8		.6	4	0	745P 755P	"
104	12/16	Brewster	2.1	.59	.90	2.16	0.55		.6	3	0	214P 220P	"
105	12/23	"	14.0	7.67	1.26	2.50	9.6		.6	5	0	1115A 1125A	"
106	12/30	"	3.0	.61	.98	2.16	0.60		.6	3	0	145P 150P	"
107	1/6	"	3.0	.57	.88	2.16	0.50		.6	3	0	200P 205P	"
108	1/13	"	3.0	.64	.84	2.16	0.55		.6	3	0	150P 155P	"
109	1/15	Brewster-Pettis	15.0	14.07	2.89	2.84	41.		.6	5	-.01	150P 205P	"
110	1/15	" "	52.0	73.65	3.61	3.80	266		.6	6	-.11	302P 320P	"
111	1/20	Brewster	3.0	.75	.99	2.12	0.75		.6	3	0	220P 224P	"
112	1/27	"	3.0	.56	1.18	2.10	0.65		.6	3	0	130P 133P	"
113	2/1	Brewster-Pettis	55.0	96.50	4.00	4.28	386		.6	6	-.05	810A 830A	"
114	2/1	" "	55.0	69.25	3.05	3.73	211		.6	7	-.10	1045A 1105A	"
115	2/1	" "	52.0	44.50	2.36	3.26	105		.6	6	-.01	1235P 1245P	"
116	2/3	Brewster	4.0	1.16	.78	2.12	0.90		.6	4	0	1130A 1135A	"
117	2/9	Brewster	4.0	1.18	1.15	2.10	1.4		.6	4	0	1015A 1022A	FC 8
118	2/9	Brewster-Pettis	62.0	140.0	5.16	5.10	725		.6	7	-.04	340P 355P	"
119	2/9	" "	62.0	109.9	4.54	4.66	499		.6	7	-.09	535P 600P	"
120	2/10	Brewster	10.0	5.82	1.16	2.28	6.4		.6	5	0	140P 150P	"
121	2/11	Brewster-Pettis	56.0	119.6	5.10	4.57	609		.6	7	+.06	235P 355P	"
122	2/11	Brewster	56.0	102.2	5.56	4.54	570		.6	7	+.03	535P 555P	"
123	2/14	"	12.0	2.56	.64	2.06	1.6		.6	6	0	205P 215P	"
124	2/17	"	4.0	.84	.86	2.00	0.70		.6	4	0	140P 145P	"
125	2/24	"	4.0	1.07	.93	2.00	1.0		.6	4	0	140P 146P	"
126	2/27	Brewster-Pettis	56.0	83.65	3.13	3.84	262		.6	7	+.01	105P 120P	"
127	2/27	" "	56.0	76.75	3.38	3.90	259		.6	7	-.04	315P 330P	"
128	2/28	" "	57.0	79.80	4.20	4.01	335		.6	7	+.02	1045A 1055A	"
129	2/28	" "	57.0	87.50	3.84	3.91	336		.6	7	-.06	400P 415P	"
130	3/1	" "	104.0	414.6	6.40	7.36	2650		.6	11	+.07	200A 235A	"
131	3/1	" "	107.0	68.85	2.70	3.34	186		.6	7	-.01	110P 120P	"
132	3/2	" "	118.0	804.4	9.36	9.73	7530		.6	12	+.02	855A 920A	"
133	3/2	" "	120.0	756.3	7.75	8.81	5870		.6	13	+.22	300P 330P	"
134	3/2	" "	117.0	537.3	5.57	7.07	2990		.6	13	-.14	920P 940P	"
135	3/3	" "	90.0	109.2	3.72	3.40	406		.6	10	-.01	300P 320P	"
136	3/7	" "	14.0	3.44	1.17	2.01	4.0		.6	7	0	1130A 1140A	"
137	3/10	Brewster	10.0	3.20	1.30	1.96	4.2		.6	5	0	300P 307P	"
138	3/12	Brewster-Pettis	92.0	105.8	4.35	3.50	461		.6	10	0	700A 720A	"
139	3/15	Brewster	16.0	5.68	1.04	2.08	5.9		.6	6	0	330P 340P	"
140	3/17	"	10.0	2.32	.84	2.02	2.0		.6	5	0	430P 440P	"
141	3/24	Brewster	10.0	2.08	.72	2.00	1.5			5	0	150P 158P	
142	3/31	"	4.0	1.32	.86	1.90	1.1		.6	4	0	225P 232P	FC 8
143	4/7	"	4.0	1.18	1.19	1.85	1.4		.6	4	0	1230P 1236P	"
144	4/14	"	4.0	1.52	1.38	1.90	2.0		.6	4	0	1245P 1252P	"
145	4/21	"	4.0	1.35	1.16	1.84	1.6		.6	4	0	105P 111P	"
146	4/28	"	4.0	1.47	1.45		2.1		.6	4		100P 106P	"
147	5/5	"	10.0	2.24	.94	1.88	2.1		.6	5	0	122P 130P	"
148	5/12	"	5.0	1.16	1.42	1.94	2.4		.6	5	0	154P 200P	"
149	5/19	"	4.0	1.43	1.44	1.84	2.1		.6	4	0	214P 220P	"
150	5/26	"	5.0	1.73	1.35	1.87	2.3		.6	5	0	120P 128P	"
151	6/2	"	4.0	1.03	1.10	1.79	1.1		.6	4	0	205P 211P	"
152	6/9	"	5.0	1.24	1.01	1.81	1.2		.6	5	0	200P 210P	"
153	6/16	"	4.0	1.11	.87	1.80	0.95		.6	4	0	125P 130P	"
154	6/23	"	4.0	1.09	1.28	1.78	1.4		.6	4	0	200P 206P	"
155	6/30	"	4.0	.94	1.22	1.78	1.2		.6	4	0	245P 250P	"
156	7/7	"	4.0	.84	.92	1.73	0.75		.6	4	0	135P 140P	"
157	7/14	"	4.0	1.11	1.05	1.74	1.2		.6	4	0	214P 220P	"
158	7/20	"	4.0	.97	.78	1.72	0.75		.6	4	0	134P 140P	"
159	7/28	"	4.0	.78	.76	1.72	0.60		.6	4	0	130P 136P	"
160	8/4	"	4.0	1.00	.85	1.74	0.85		.6	4	0	154P 200P	"
161	8/11	"	4.0	1.03	.85	1.74	0.90		.6	4	0	125P 130P	"
162	8/18	"	4.0	.90	.82	1.76	0.75		.6	4	0	240P 246P	"
163	8/25	"	4.0	1.11	.81	1.76	0.90		.6	4	0	110P 116P	"
164	9/1	"	4.0	.94	.66	1.78	0.60		.6	4	0	325P 331P	"
165	9/8	Brewster	4.0	.96	.74	1.78	0.70		.6	4	0	220P 226P	FC 8
166	9/15	Lindsay	6.0	1.19	1.03	1.80	1.2		.6	4		1253P 100P	FC 28
167	9/22	"	5.0	1.10	.96	1.86	1.0		.6	5		1235P 1242P	"
168	9/29	Brewster	4.0	1.12	.94	1.84	1.0		.6	4	-.01	130P 136P	FC 8



F. C. Dist. Form 52 158 2-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F48R

Daily discharge, in second-feet of SAN JOSE CREEK at Workman Mill Road for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.4	+	2.8	1.0	1.0	0.9	0.6	0.8	1.0	1.1	1.0
2	0.2	0.2	+	0.9	0.4	0.8	1.1	0.6	0.8	0.4	1.1	1.0
3	0.2	0.2	+	0.6	0.1	0.6	1.1	0.8	0.8	0.4	0.9	1.0
4	0.3	0.1	0.1	0.3	0.2	0.5	0.9	1.1	0.8	0.4	1.0	0.9
5	0.4	0.1	0.3	0.8	0.2	0.5	0.9	0.9	0.9	0.5	1.4	0.5
6	0.3	0.1	0.5	4.3	13.40	0.4	0.6	0.6	0.9	0.5	1.4	0.5
7	0.3	0.2	0.3	3.5	1.19	0.4	0.5	0.8	0.8	0.4	1.7	0.6
8	0.2	0.1	0.1	1.8	3.6	0.4	0.5	0.9	0.6	0.4	1.3	1.0
9	0.2	0.1	0.1	1.4	2.5	0.3	0.6	0.8	1.3	0.3	0.8	1.3
10	0.3	0.1	+	1.1	1.3	0.3	1.0	0.5	1.1	0.3	0.6	1.3
11	0.3	0.1	+	0.7	1.0	0.3	1.1	0.5	1.7	0.5	0.5	1.0
12	0.3	0.1	0.1	14	1.0	4.4	1.1	0.5	1.4	0.6	0.8	1.4
13	0.3	0.1	0.1	27	336	164	1.0	0.6	1.0	0.6	1.0	1.3
14	0.2	0.1	0.1	1.4	1470	8	1.0	0.5	0.8	0.9	0.8	0.8
15	0.2	0.1	0.4	0.8	26	151	0.6	0.5	0.6	0.8	0.5	0.8
16	0.2	0.1	2.5	0.2	5.5	154	0.6	0.5	1.1	0.8	0.6	0.5
17	0.4	0.1	0.6	+	1.9	29	0.5	0.4	0.6	0.8	0.5	0.5
18	0.4	0.1	0.3	+	1.4	2.1	0.6	0.4	0.4	1.0	0.3	0.5
19	0.3	0.1	0.1	+	1.0	1.7	0.5	0.4	0.4	1.0	0.2	0.6
20	0.1	+	0.1	+	0.9	1.6	0.5	0.4	0.3	0.8	0.2	0.8
21	0.1	+	0.1	0.6	0.6	1.6	0.5	0.3	0.3	0.6	0.2	0.8
22	0.1	+	0.1	1.4	0.5	165	0.5	0.3	0.4	0.8	0.3	0.8
23	0.1	+	0.1	0.6	0.5	1.6	0.5	0.4	0.6	1.1	0.5	0.8
24	0.1	+	0.1	0.6	0.5	1.6	0.5	0.5	0.6	1.3	0.4	0.5
25	0.1	+	0.2	1.1	4.5	2.2	0.8	0.9	0.6	1.3	0.6	0.3
26	0.1	+	0.2	0.6	7	1.9	0.9	1.1	0.8	0.8	0.4	0.6
27	0.1	+	1.3	0.2	4.3	1.3	1.0	1.1	1.1	0.6	0.5	1.0
28	0.1	+	3.6	0.2	3.1	1.3	1.0	1.4	1.0	0.5	0.6	0.8
29	0.2	+	1.1	0.2		1.0	0.8	1.0	1.1	0.6	0.6	0.5
30	0.5	+	8.6	7		0.9	0.6	1.9	1.3	1.3	0.6	0.6
31	0.8		2.8	6.5		0.9		0.9		1.4	0.5	
	7.6	2.5	45.05	119.3	3374.5	749.2	22.7	20.8	24.9	22.7	21.9	22.6
Mean	.24	.08	1.45	3.85	121	24.2	.76	.67	.83	.73	.71	.75
Acre-Feet	15	5.0	894	237	6690	1490	45	41	49	45	43	45

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

Year or Period — Mean 13.3 — Acre-Feet 9599

F. C. Dist. Form 52 158 2-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

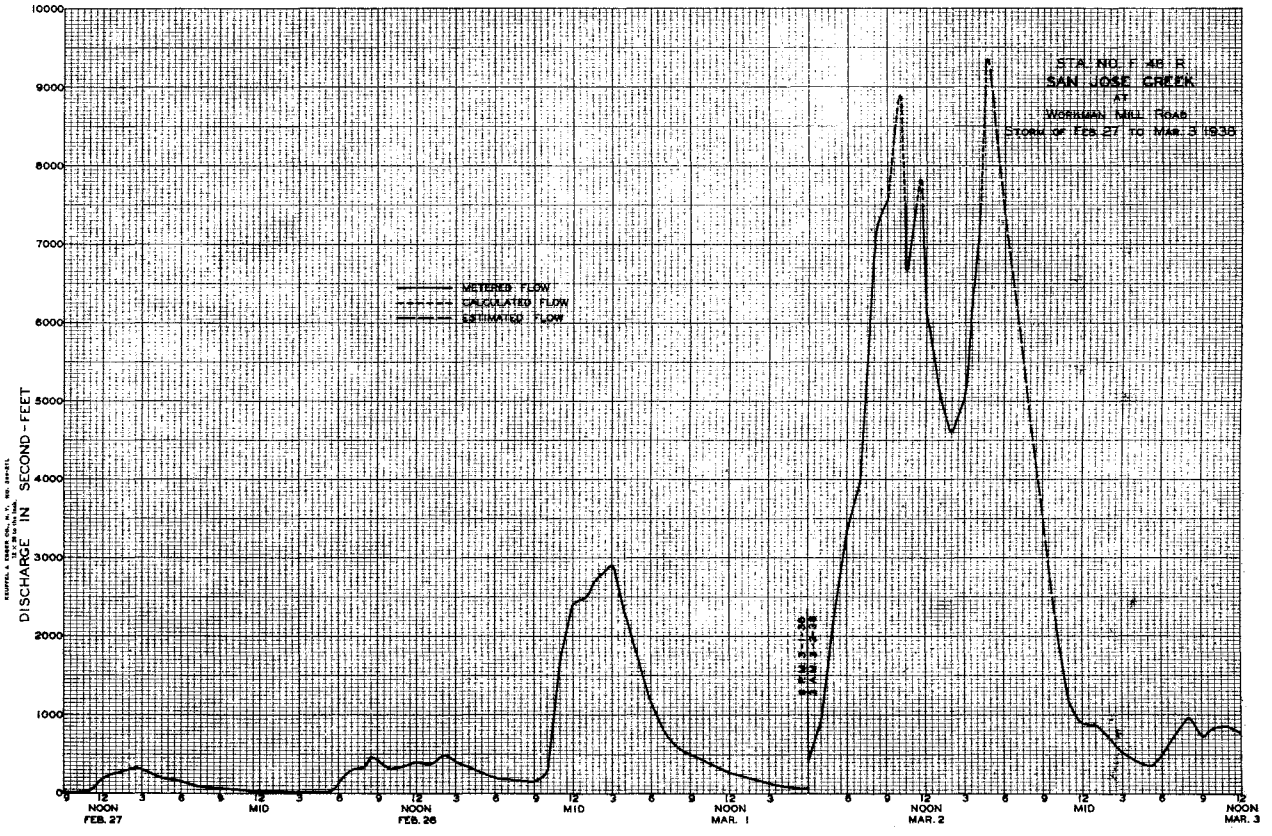
Sta. No. F48R

Daily discharge, in second-feet of SAN JOSE CREEK at Workman Mill Road for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.6	0.4	0.6	1.56	769	1.3	2.3	1.4	0.9	0.7	0.5
2	0.6	0.5	0.4	0.7	6	4380	1.3	2.3	1.3	1.3	0.9	0.5
3	0.7	0.5	0.4	0.6	4.4	505	1.6	2.3	1.6	1.3	0.9	0.5
4	0.6	0.6	0.4	0.6	31	115	1.3	2.3	1.3	1.4	1.3	0.7
5	0.6	0.6	0.5	0.6	2.4	32	1.4	2.3	1.4	1.4	1.1	0.9
6	0.6	0.6	0.5	0.6	0.8	9	1.3	1.8	2.3	1.4	1.1	0.9
7	0.6	0.6	0.5	0.6	0.8	3.9	1.4	1.8	2.8	0.9	1.1	0.9
8	0.6	0.6	0.5	0.6	0.8	3.9	2.3	1.6	1.8	1.1	0.9	1.1
9	0.7	0.6	0.6	0.6	1.93	4.4	1.6	1.6	1.4	1.3	0.9	1.1
10	0.7	0.4	0.6	0.6	2.6	3.9	1.6	1.6	2.8	1.4	0.9	0.9
11	0.7	0.5	1.4	0.6	1.65	5.5	1.6	1.8	1.1	1.6	0.9	1.1
12	0.7	0.6	4.0	0.6	81	342	2.3	2.3	1.1	1.4	1.1	0.9
13	0.7	0.6	0.6	0.6	14	55	2.3	2.3	1.1	1.4	1.1	1.1
14	0.6	0.6	0.5	0.6	2.1	23	1.8	2.8	1.6	1.4	1.1	1.1
15	0.5	0.5	0.5	29	1.0	7	1.8	2.8	1.6	1.6	0.9	1.3
16	0.5	0.4	0.5	3.7	0.8	4.4	2.3	2.6	1.6	1.1	0.9	1.1
17	0.6	0.5	0.5	1.0	0.7	2.3	1.3	2.8	1.6	0.9	0.7	1.1
18	0.6	0.4	0.5	0.9	0.7	1.6	1.1	2.8	1.6	0.9	0.7	1.1
19	0.6	0.4	0.5	0.9	0.8	1.6	1.6	2.3	1.4	0.9	0.7	1.1
20	0.5	0.4	0.5	0.7	0.8	1.6	1.8	1.4	1.8	0.9	0.9	1.1
21	0.6	0.4	0.5	0.7	0.9	1.6	1.8	1.4	1.6	0.9	1.1	1.1
22	0.6	0.4	0.5	0.7	0.9	1.6	1.8	1.4	1.6	0.9	1.1	1.1
23	0.6	0.4	3.4	0.7	0.9	1.6	1.8	1.4	1.8	0.9	1.1	1.1
24	0.5	0.5	0.8	0.6	2.0	1.6	2.1	1.4	2.8	0.7	0.9	0.9
25	0.5	0.5	0.5	0.6	2.7	1.6	2.1	2.8	2.8	0.7	0.9	1.1
26	0.5	0.5	0.8	0.6	1.3	1.6	2.2	2.3	4.4	0.7	1.3	1.1
27	0.5	0.5	4.4	0.6	86	1.8	2.2	1.1	3.4	0.7	1.4	0.9
28	0.5	0.5	0.8	0.7	340	1.4	2.2	1.3	1.4	0.7	1.3	1.1
29	0.6	0.5	0.8	0.8		1.6	2.3	1.3	1.3	0.7	1.1	1.1
30	0.6	0.5	0.6	0.8		1.3	2.3	1.3	1.3	0.7	0.9	1.1
31	0.6		0.6	0.8		1.3		1.3		0.7	0.9	
	18.4	15.2	28.0	52.3	1122.8	6287.1	53.5	59.8	55.0	32.8	30.8	30.6
Mean	.59	.51	.90	1.69	40.1	203	1.78	1.93	1.83	1.06	.99	1.02
Acre-Feet	36	30	56	104	2230	12470	106	118	109	65	61	61

Remarks:

Year or Period — Mean 21.3 — Acre-Feet 15450



STATION F119R

SANTA ANITA CREEK Parshall flume below Santa Anita Dam

LOCATION:

On Santa Anita Creek 400 feet below dam.

DRAINAGE AREA:

10.8 square miles.

CHANNEL AND CONTROL:

Rocky.
Control - 5 foot Parshall flume reduced to 2 feet during periods of low flow.

DISCHARGE MEASUREMENTS:

At low flow in or near the flume.
At high flows from foot-bridge across top of flume.

RECORDER:

Installed September 26, 1935 in recorder house over a 3 ft. x 2½ ft. wooden stilling well.
Vertical rational recorder, in service October 1, 1936, was replaced on October 26, 1937 with a Stevens type L recorder.
The station was washed out March 2, 1938.

REGULATION:

Big Santa Anita Dam regulates flow.

DIVERSIONS:

Big Santa Anita Dam spillway by-passes water around the station.
Water flowed over the spillway on May 11, to July 2, 1937.

RECORDS AVAILABLE:

September 26, 1935 to February 28, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 141 second-feet February 15.
Minimum - several days in December.
1937-1938
Maximum not determined.
Minimum no flow at times in January.
1935-1937
Maximum 141 second-feet February 15, 1937.
Minimum .03 second-foot at times in December, 1935 and January, 1936.

ACCURACY:

Good.
Clock Stopped:
October 13-18, 20-31, November 1-26, 1936; January 4-28, April 1-8, October 5-7, 1937;
Discharge from dam records while clock was stopped and also October 16-18 and November 1-7, 1937.

OPERATION:

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

F. C. D. FORM 104 1M 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 119 R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

~~XXX~~ Parshall flume below Santa Anita Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period Bill	METH OD	MEAS. SEC'S. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/2	Dalton	2.0	.74	2.72	.41	2.0		.6	4		900A	FC 2
2	10/8	Lindsay	2.85	1.06	1.96	.40	2.1		.6	6	0	826A 834A	FC 28
3	10/16	Dalton	2.0	.80	2.55	.41	2.0		.6	4		850A	FC 2
4	10/22	Lindsay	2.85	1.05	1.96	.40	2.1		.6	6	0	1052A 1058A	FC 28
5	11/5	Lindsay	2.85	1.06	1.90	.40	2.0		.6	6	+.01	1252P 100P	"
6	11/13	Dalton	2.0	.70	2.60	.39	1.8		.6	4		830A	FC 2
7	11/19	Lindsay	2.85	1.04	1.78	.39	1.8		.5	6	0	320P 325P	FC 28
8	11/27	Dalton	2.0	.68	2.35	.35	1.6		.6	4		915A	FC 2
9	12/3	Lindsay	2.85	.93	1.78	.35	1.7		.6	6	0	950A 1000A	FC 28
10	12/11	Dalton	2.0	.70	2.46	.38	1.7		.6	4		930A	FC 2
12	12/31	Lindsay and McArthur	5.9	8.90	5.60	1.77	50		.6	6	0	1003A 1013A	FC 28
13	1/8	Dalton	5.0	3.80	7.32	1.0	28		.6	5	0	1115A 1130A	FC 2
14	1/13	Cole	6.0	3.61	4.26	.83	15		.6	8	0	345P 405P	FC 7
15	1/22	Dalton	7.5	3.06	1.46	.38	4.4		.6	7		140P	FC 2
16	1/28	Lindsay	6.0	2.77	1.64	.36	4.6		.6	6	0	1253P 103P	FC 28
17	2/5	Dalton	11.5	6.47	2.51	.82	16		.6	11	0	920A 935A	FC 2
18	2/7	Lindsay and McArthur	5.85	14.24	6.76	2.66	96		.6	6	0	100P 108P	FC 28
19	2/11	Cole	5.9	7.68	6.22	1.77	46		.6	6	-.08 +.02	1100A 1130A	FC 7
20	2/15	Lindsay and McArthur	5.85	18.06	7.70	3.38	139		.6	6	-.03	820A 850A	FC 28
21	2/26	Cole	5.9	8.16	3.80	1.30	31		.6	6	-.02	1033A 1050A	FC 36
22	3/11	Lindsay	5.85	3.00	3.81	.65	11		.6	6	0	1115A 1133A	FC 28
23	3/18	Cole	5.85	9.19	6.04	1.78	53		.6	6	-.02	1055A 1122A	FC 1
24	3/25	Cole-Probst	5.95	9.01	6.14	1.78	52		.6	6	0	1106A 1125A	FC 36
25	4/8	Lindsay	5.85	5.07	4.63	1.15	23		.6	6	0	920A 930A	FC 28
26	4/22	"	5.85	2.77	3.30	.56	9.2		.6	6	0	1005A 1015A	"
27	5/6	"	5.85	1.78	3.05	.41	5.4		.6	6	0	916A 926A	"
30	6/17	"	2.2	.49	.82	.08	40		.6	4	0	1014A 1018A	"
31	7/1	"	2.0	.32	.67	.11	.28		.6	4	0	656A 701A	"
32	7/16	"	2.87	2.00	2.55	.74	5.1		.6	6	+.03	1005A 1015A	"
33	7/29	"	2.85	1.98	2.64	.73	5.2		.6	5	0	902A 913A	"
34	8/12	"	2.85	1.93	2.54	.71	4.9		.6	6	0	852A 903A	"
35	8/25	"	2.85	2.09	2.63	0.79	5.5		.6	6	+.06 -.06	118P 128P	"
36	9/3	Dalton and Frederick	2.0	1.22	4.32	0.79	5.3		.6	2		130P 135P	FC 2
37	9/10	Brewster	2.85	2.23	2.67	0.79	6.0		.6	4	0	1202P 1209P	FC 8
38	9/23	Lindsay	2.85	1.22	2.20	0.47	2.7		.6	6	+.03 -.04	1057A 1105A	FC 28

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 119 R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

~~XXX~~ Parshall flume below Santa Anita Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERIOD DEFT.	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
39	10/7	Lindsay	5.85	4.3	3.03	0.74	13.		.6	7	0	225P 235P	FC 28
41	10/26	"	2.85	1.44	2.08	0.51	3.0		.6	6		1055A 1105A	"
42	11/4	"	2.80	1.14	1.91	0.42	2.2		.6	6	0	1028A 1036A	"
43	11/18	"	2.80	1.12	1.87	0.41	2.1		.6	6	0	847A 856A	"
44	12/2	"	2.80	1.12	1.88	0.41	2.1		.6	6	0	1102A 1108A	"
45	12/12	"	5.80	5.93	3.95	1.05	23		.6	8	0	435P 450P	"
46	12/16	"	2.80	1.40	2.17	0.50	3.0		.6	6	0	1042A 1050A	"
47	1/13	"	2.80	1.02	1.62	0.34	1.6		.6	6	0	1028A 1035A	"
48	1/27	"	2.80	1.08	1.87	0.39	2.0		.6	6	0	1145A 1153A	"
49	2/4	Lindsay-Ingram	5.80	8.86	6.11	1.81	54		.6	8		158P 215P	"
50	2/7	Lindsay	5.80	5.76	4.85	1.14	28		.6	8		216P 225P	"
51	2/16	"	5.80	4.47	3.75	0.83	17		.6	8	0	1144A 1157A	"
52	2/24	"	5.80	3.52	3.12	0.64	11		.6	8	0	1038A 1045A	"

P. C. Dist. Form 12 156 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F119R

SANTA ANITA CREEK Parshall flume below Santa Anita Dam for the year ending September 30, 19 38

Daily discharge, in second-feet of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19	19	16	51	20	30	25	80	00	56	49	56
2	19	19	16	49	16	24	25	80	00	52	49	56
3	19	19	16	43	16	20	25	80	00	52	49	56
4	19	19	16	25	14	20	25	64	00	52	49	56
5	19	19	16	25	12	20	25	64	00	52	48	56
6	19	19	16	12	08	20	25	64	00	51	48	56
7	19	19	16	20	07	13	25	80	00	51	47	56
8	19	19	16	28	07	14	25	80	00	51	47	56
9	19	19	16	15	07	10	25	63	00	51	47	56
10	19	19	16	15	07	08	25	63	00	51	47	56
11	19	19	17	15	15	10	25	41	00	51	48	54
12	19	19	17	15	22	14	15	00	00	51	47	54
13	19	19	17	15	22	14	15	00	00	51	48	54
14	19	19	17	15	22	14	15	00	00	51	48	54
15	19	19	17	15	22	14	15	00	00	51	48	54
16	19	19	17	14	22	39	15	00	00	51	48	24
17	19	19	16	14	22	60	15	00	00	55	42	24
18	19	19	+	09	15	67	15	00	00	55	45	25
19	19	19	+	10	15	73	15	00	00	55	57	25
20	19	19	+	10	15	74	15	00	00	55	56	25
21	20	19	+	16	15	74	15	00	00	55	56	25
22	17	17	16	15	15	75	15	00	00	55	56	25
23	20	17	16	14	15	80	15	00	00	55	56	25
24	20	16	16	14	15	80	15	00	00	55	56	25
25	19	19	16	14	15	80	15	00	00	55	56	25
26	19	19	16	14	15	80	15	00	00	55	56	25
27	20	19	16	14	15	80	15	00	00	55	56	25
28	19	19	16	14	15	80	15	00	00	55	56	25
29	19	19	16	14	15	80	15	00	00	55	56	25
30	19	19	16	14	15	80	15	00	00	55	56	25
31	19	19	16	14	15	80	15	00	00	55	56	25
	565	540	1356	441.6	139.42	959.7	416.8	838	139	1563	1607	1190

Mean 1.82 1.80 4.37 14.2 49.8 31.0 13.9 2.70 .46 5.04 5.18 3.97
Acre-Feet 112 107 269 876 2770 1900 827 166 28 310 319 236

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

P. C. Dist. Form 12 156 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F119R

SANTA ANITA CREEK Parshall flume below Santa Anita Dam for the year ending September 30, 19 37

Daily discharge, in second-feet of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.9	2.2	7.8	0	8.1							
2	2.9	2.2	2.3	0	11.6							
3	2.9	2.2	1.6	0	14.7							
4	2.9	2.2	1.5	.1	4.3							
5	2.9	2.2	1.4	.1	1.6							
6	8.1	2.2	1.4	1.6	2.8							
7	12.1	2.2	1.5	1.6	2.8							
8	9.8	2.2	1.5	1.6	2.8							
9	9.4	2.2	1.7	1.6	13.8							
10	9.1	2.2	2.0	1.6	2.0							
11	9.4	2.2	1.7	1.6	19.2							
12	9.4	2.2	1.6	1.6	5.6							
13	9.4	2.2	1.4	1.6	5.5							
14	9.4	2.2	2.6	1.6	4.3							
15	9.4	2.2	3.5	0.6	3.2							
16	7.7	2.1	3.0	+	2.9							
17	6.4	2.1	1.2	0	1.6							
18	5.8	2.1	0.4	0	1.8							
19	5.8	2.1	+	0	1.4							
20	5.4	2.1	+	0	1.6							
21	5.4	2.0	1.0	0	11.4							
22	4.4	2.0	1.7	0	11.1							
23	3.3	2.1	0.0	0	11.1							
24	3.1	2.1	0.0	0	10.8							
25	3.0	2.0	0.0	1.2	10.6							
26	3.0	2.0	0.0	2.0	14.3							
27	2.9	1.9	0.0	2.2								
28	2.7	1.8	0.0	2.2								
29	2.4	1.7	0.0	2.2								
30	2.3	1.04	0.0	2.2								
31	2.3			2.2								
	176.3	77.8	69.2	31.6	580.8							

Mean 5.69 2.69 2.23 1.02 19.4
Acre-Feet 350 154 137 63 1150

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

NO RECORD - SEE STATION DESCRIPTION

Year (Oct. 1-Sep. 27) Mean 1.50
Acre-Feet 1090

STATION F28OR

SANTA ANITA CREEK 770 ft. above junction with Little Santa Anita Creek

LOCATION:

On east bank approximately 2160 feet upstream from Foothill Boulevard.

DRAINAGE AREA:

12.9 square miles.

CHANNEL AND CONTROL:

Channel:
Sand, gravel and boulders between sloping rock and concrete walls. The west wall was washed out during the March 2, 1938 storm.

Control:
Concrete control 2 feet wide was widened June 28, 1937 to 16 feet wide. Control wash washed out during the March 2, 1938 storm; after the storm the channel was approximately 4 feet deeper, leaving the station above possible communication for normal flows.

DISCHARGE MEASUREMENTS:

At low flows by wading near station.
At high flows from foot bridge just below the station. The footbridge was washed out during the March 2, 1938 storm.

RECORDER:

Installed August 17, 1936 in F. C. standard type house over a concrete stilling well.
A Stevens type L recorder, in service October 1, 1936, was replaced June 18, 1937 with an E.C.F. continuous recorder.
Recorder removed April 22, 1938 and station abandoned.

REGULATION:

Flow partially regulated by Big Santa Anita Dam.

DIVERSIONS:

Some water diverted for irrigation at mouth of Big Santa Anita Canyon.

RECORDS AVAILABLE:

August 17, 1936 to March 2, 1938.
Some discharge measurements subsequent to March 2, 1938.

EXTREMES OF DISCHARGE:

1936-37
Maximum 174 second-feet February 15.
Minimum no flow at various times.
1937-38
Maximum not determined.
Minimum no flow at various times.

ACCURACY:

Fair.
Estimated:
October 17-19, 1936.
Clock Stopped:
November 3-16, December 28-30, 1936; January 23-28, 1937; February 17-24, 1938.

OPERATION:

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

F. C. D. FORM 104 7M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 280 R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

~~NEAR~~ 770 ft. above junction with Little Santa Anita Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH. OF	MEAS. MICR. NO.	G. HT. CHANGE TOTAL	---BEGIN--- END	METER NO.
1	10/18	Cole-Lindsay	2.0	.14	.86	.10	.12		.6	2		1040P	FC 28
												925A	
2	10/22	Lindsay	2.0	.38	1.68	.30	.65		.6	4	0	929A	"
												955A	
3	10/22	"	2.0	.38	1.76	.33	.65		.6	4	-.01	1000A	"
												212P	
5	11/5	"	.5	.04	.50	.09	.02		.6	1	0	214P	"
		Lindsay and										904A	
6	11/12	Patterson	.5	.07	.86	.12	.06		.6	1	0	906A	"
												1250P	
7	12/23	Lindsay	8.0	1.97	.92	.42	1.8		.6	7	0	100P	"
		Lindsay and										818A	
8	12/27	McArthur	40.5	7.76	2.39	.77	18.		.6	8	+.06	830A	"
												315P	
9	12/27	" "	40.5	16.70	3.25	1.06	54.		.6	11	0	328P	"
												715P	
10	12/30	" "	2.05	.56	2.70	.40	1.5		.6	4	-.01	725P	"
												155P	
11	12/31	" "	40.8	12.11	3.64	.94	44.		.6	14	+.01	200P	"
												1045A	
12	1/8	Lindsay	20.8	5.67	2.64	.82	15.		.6	10	0	1100A	"
		Lindsay and										1223P	
13	1/12	McArthur	17.8	4.34	2.75	.74	12.		.6	10	0	1235P	"
												206P	
14	1/20	Lindsay	13.5	1.02	1.92	.46	2.0		.6	4	0	215P	"
												220P	
15	1/20	"	9.0	2.58	1.05	.46	2.7		.6	8	0	227P	"
												213P	
16	1/28	"	14.0	.88	1.90	.44	1.7		.6	4	0	218P	"
												1215P	
17	2/4	"	16.2	4.39	2.79	.75	12.		.6	9	0	1230P	"
		Lindsay and										400P	
18	2/6	McArthur	15.2	5.23	4.12	.84	22.		.6	7	-.04	413P	"
											+.04	855A	
19	2/7	" "	40.9	23.91	4.73	1.23	113.		.5	13	-.03	920A	"
												230P	
20	2/8	" "	40.7	15.21	6.05	.96	92.		.6	13	+.01	255P	"
												302P	
21	2/8	" "	26.4	13.57	6.36	.97	86.		.6	10	0	311P	"
												335P	
22	2/9	Lindsay	22.0	21.87	3.53	1.20	77.		.6	10	0	345P	"
												355P	
23	2/9	"	40.9	18.10	3.70	1.20	67.		.6	13	0	415P	"
												1257P	
24	2/11	Cole	20.0	17.64	2.74	1.02	48.		.6	8	0	105P	FC 7
		Lindsay and										1028A	
25	2/14	McArthur	14.5	6.86	1.31	.63	9.0		.6	7	0	1038A	FC 28
		Lindsay and										428P	
26	2/14	McArthur	29.0	29.93	3.61	1.23	108.		.6	11	+.02	440P	FC 28
												855P	
27	2/14	" "	29.0	34.69	4.35	1.31	151.		.6	15	+.01	915P	"
												1020A	
28	2/15	" "	27.0	28.86	5.16	1.31	149.		.6	13	-.01	1035A	"
												110P	
29	2/16	" "	28.5	34.31	4.07	1.34	140.		.6	15	+.01	125P	"
												155P	
30	2/18	Cole	41.5	32.16	3.20	1.31	103.			12	0	215P	FC 36
		Lindsay and										1200N	
31	2/20	McArthur	28.5	20.21	2.55	1.00	52.		.6	13	0	1210P	FC 28
												133P	
32	2/26	Cole	20.7	15.26	1.66	.85	25.		.6	9	0	145P	FC 36
												305P	
33	3/4	Lindsay	17.5	9.94	1.94	.74	19.		.6	9	0	318P	FC 28
												955A	
34	3/11	"	14.0	7.04	1.09	.58	7.6		.6	7	0	1006A	"
												325P	
35	3/15	Cole	20.6	17.04	2.11	.93	36.		.6	10	0	340P	FC 36
		Lindsay and										215P	
36	3/16	McArthur	19.5	15.3	3.05	.96	47.		.6	9	0	225P	FC 28
												115P	
37	3/18	Cole	28.5	13.28	4.35	.90	58.		.6	12	-.03	134P	FC 1

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 260 R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

~~At~~ 770 ft. above junction with Little Santa Anita DURING THE YEAR ENDING SEPTEMBER 30, 1937

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Passed Dif.	METH OD	MEAS MECH. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
36	3/25	"	26.4	19.08	2.15	.99	41.		.6	10	0	132P 147P	FC 36
39	3/26	Lindsay	25.0	17.95	2.74	.99	49.		.6	10	0	200P 510P	FC 21
40	4/1	"	19.0	11.57	3.36	.79	25.		.6	10	0	905A 920A	FC 28
41	4/8	"	19.0	12.11	2.02	.78	24.		.6	9	0	1035A 1050A	"
42	4/15	"	10.5	4.06	.67	.45	2.7		.6	5	0	1015A 1025A	"
43	4/22	"	11.0	5.13	.99	.50	5.1		.6	5	0	1124A 1132A	"
44	4/29	"	11.5	5.14	1.00	.51	5.5		.6	6	0	1240P 1250P	"
45	5/6	"	8.0	2.41	.50	.37	1.2		.6	5	0	1037A 1047A	"
46	5/13	"	11.5	5.61	1.06	.52	5.9		.6	6	0	242P 250P	"
47	5/20	"	10.0	4.75	1.05	.50	5.0		.6	6	0	1110A 1120A	"
48	5/27	"	12.5	5.44	1.20	.54	6.5		.6	7	0	1136A 1145A	"
49	6/3	"	9.0	3.67	.70	.45	2.6		.6	6	0	132P 142P	"
50	6/10	Lindsay	9.5	4.28	.68	.44	2.9		.6	6	0	930A 939A	FC 28
51	6/17	"	8.5	3.01	.53	.38	1.6		.6	6	0	850A 859A	"

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 260 R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

~~At~~ 770 ft. above junction with Little Santa Anita Cr. DURING THE YEAR ENDING SEPTEMBER 30, 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Passed Dif.	METH OD	MEAS MECH. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
52	10/7	Lindsay	12.0	5.95	0.99	0.40	5.9		.6	8	0	1220P 1230P	FC 28
53	10/14	"	10.0	4.64	0.72	0.44	3.4		.6	6	0	930A 940A	"
54	10/21	Lindsay-Haig	1.96	0.25	1.12	0.18	0.28		.6	4	0	1250P 1255P	"
55	12/2		2.0	0.41	2.19	0.24	0.90		.6	4	-.01	1010A 1015A	"
56	12/11	Lindsay	2.0	0.48	3.29	0.30	1.6		.6	4	0	447P 452P	"
57	12/12	Lindsay-Ingram	39.8	5.21	4.66	0.70	24.		.6	9	0	200P 212P	"
58	12/13	Lindsay	27.8	2.19	3.16	0.57	6.9		.6	6	0	1122A 1132A	"
59	12/16	"	2.0	0.59	1.82	0.29	1.1		.6	4	0	956A 1002A	"
60	1/15	Lindsay-Ingram	2.0	0.56	2.12	0.28	1.2		.6	4	-.03	1210P 1220P	"
61	2/1	" "	19.8	1.89	3.49	0.57	6.6		.6	5	+.01	1047A 1055A	"
62	2/3	" "	29.8	2.62	3.07	0.60	8.0		.6	6	+.01	845A 900A	"
63	2/4	" "	40.8	9.48	5.48	0.84	52.		.6	11	0	325P 343P	"
64	2/5	Lindsay and Thompson	21.0	15.36	3.24	0.86	50.		.6	10	0	113P 125P	"
65	2/7	Lindsay	19.0	7.86	3.58	0.72	28.		.6	9	0	1225P 1235P	"
66	2/16	"	20.0	12.79	2.34	0.74	30.		.6	10	0	1055A 1110A	"
67	2/24	"	12.5	5.84	1.21	0.53	7.1		.6	9	0	940A 952A	"
68	2/28	Lindsay-Ingram	28.0	26.26	3.42	1.00	90.		.6	12	0	2175 230P	"
69	2/28	" "	40.9	28.44	6.86	1.35	195.		.6	9	+.01	706P 734P	"
70	2/26	" "	40.9	27.60	6.74	1.34	186.		.6	9	-.01 +.01	738P 756P	"
71	3/1	" "	41.2	64.15	8.95	2.30	574.		.6	9	-.01	1234A 1258A	"
72	3/1	Haig-Baustian	40.9	50.19	10.10	1.76	507.		.6	8	-.03	332P 349P	FC 38
73	3/2	Lindsay-Ingram	40.8	64.24	9.37	2.08	602.		.6	9	+.02	1046A 1104A	FC 28
74	3/6	Haig and Galbraith	35.5	47.00	3.08		145.		.6	15		609P 627P	FC 38
75	3/10	Lindsay-Ingram	24.0	32.83	2.14		70.		.6	9		1150A 1202P	FC 28
77	3/12	Lindsay-Ingram	30.0	44.24	3.24		143.		.6	10		145P 200P	FC 28
78	3/16	Lindsay	25.0	37.55	2.16		81.		.6	9		1145A 1200N	"
79	3/23	"	20.5	28.37	1.65		47.		.6	10		1050A 1105A	"
80	3/31	"	20.0	24.14	1.34		32.		.6	10		847A 900A	"
81	4/6	Haig-Lindsay	16.5	23.24	1.47		34.		.6	9		833A 850A	"

F. C. Dist. Form 82 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F260R

SANTA ANITA CREEK
Daily discharge, in second-feet of 770 ft. above junction with Little Santa Anita Creek for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0 2	0	36	23	27	25	55	32	0 1	0	+
2	0	0 2	0	36	23	27	25	55	32	+	0	+
3	0	0 2	0	36	23	23	26	55	25	+	0	+
4	0	+ +	0	23	12	20	26	55	25	+	0	+
5	0	+	0	22	9 5	18	25	55	25	+	0	+
6	0	+	0	10	6 5	18	25	55	32	+	0	+
7	0	+	0	16	9 2	13	23	55	28	+	0	+ 0 4
8	0	+	0	15	9 5	0 1	24	55	32	+	0	+ 0 2
9	0	+	0	12	8 3	4 1	22	55	32	+	0	+
10	0	+	0	10	6 1	8	22	55	26	+	0	+
11	0	+	0	11	4 8	8 4 3	20	55	23	+	0	+ 0 +
12	0	+	0	12	4 8	11	17	55	23	+	0	+
13	0	+	0	13	3 2	37	5 5	55	21	+	0	+
14	0	+	0	12	5 5	32	26	55	19	+	0	+
15	0	+	0 1	13	14 0	46	26	55	17	+	0	+
16	0	+	0	13	15 3	69	23	55	14	+	0	+
17	0	+	0	13	12 0	75	21	55	12	+	0	+
18	0	+	0	5	5 7	75	19	55	10	+	0	+
19	0	+	0	5	5 2	28	28	55	05	+	0	+
20	0 3	+	0	3	5	47	5	55	04	+	0	+
21	0 7	0	0 3	23	36	11	5 5	55	+ +	0	+	+
22	0 4	0	1 4	21	32	15	5 5	55	+	0	+	+
23	0 2	0	0 7	19	26	24	5 5	55	+	0	+	+
24	0 1	0	2 5	19	21	34	5 5	55	+	0	+	+
25	+	0	2 1	17	25	50	5 5	6	0	0	+	+
26	+	0	1 7	17	26	50	5 5	6	0	0	+	+
27	+	0	2 8	17	26	48	5 5	5 5	0	0	+	+
28	+	0	+ 1 5	02		37	5 5	6	0	0	+	+
29	+	0	1 5	07		27	5 5	6	0	0	+	+
30	0 2	0	2 5	10		25	5 5	6 5	0	0	+	+
31	1 9	0 5	5 3 4	3 3 5 0	1 3 6 1 0	9 4 1 5	3 5 4 2	1 5 6 6	4 6 2	0 1		0 6
Mean	.06	.02	1.72	10.8	48.6	30.4	11.8	5.05	1.54	+	+	.02
Acre-Feet	3.8	.99	106	664	2700	1870	703	311	92	.20	+	1.2

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

8.91
Mean (Oct. 1-Mar. 1)
Acre-Feet 1230

Year or Period Mean Acre-Feet 6450

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F250R

Daily discharge, in second-feet of SANTA ANITA CREEK 770 ft. above junction with Little Santa Anita Creek for the year ending September 30, 1938

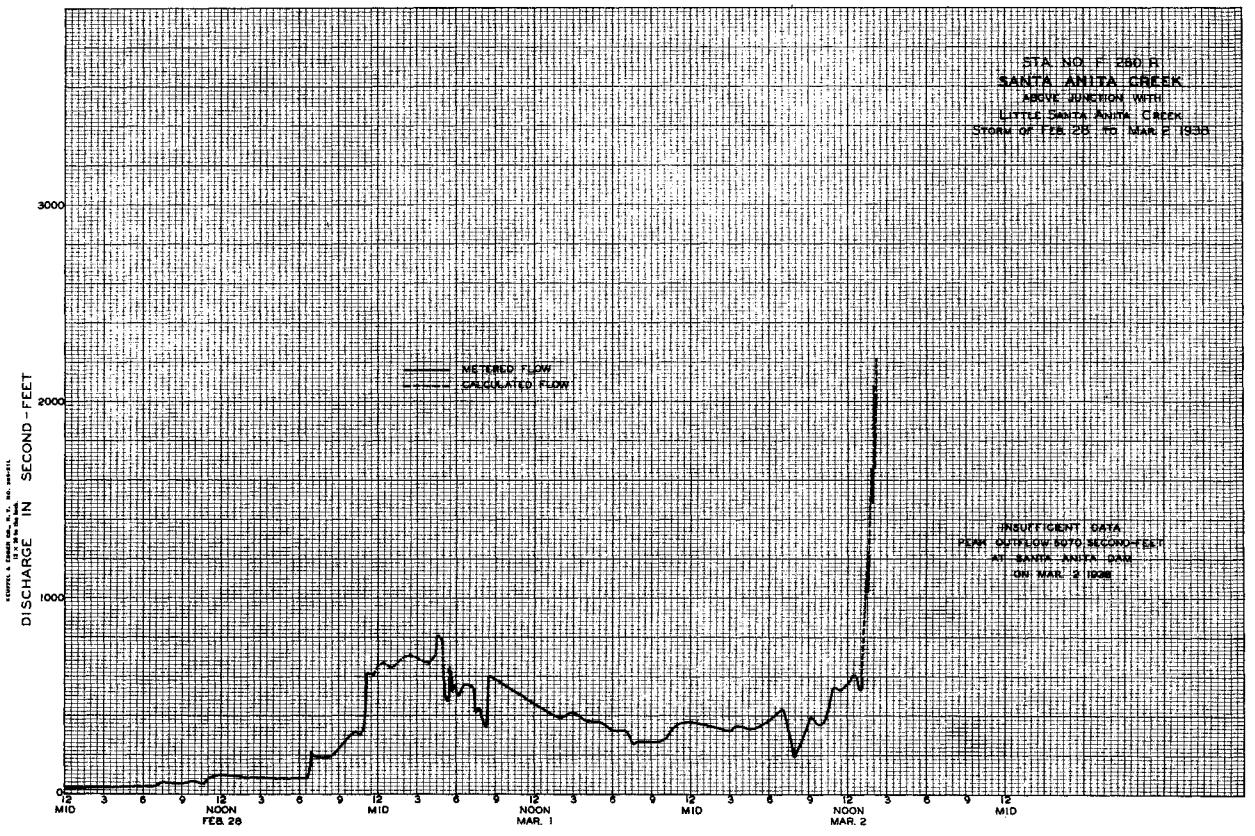
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.
1	+	0 1	4 2	0	7 5	4 6 8						
2	+	0 3	1 4	0	4 7							
3	+	0 2	0 1 3	0	3 9							
4	+	0 2	0 2	0	3 3							
5	+	0 1	0 1	0	2 3							
6	0 5	0 2	0 2	+	2 3							
7	0 5	0 2	0 2	+	2 6							
8	0 5	0 2	0 2	+	3 0							
9	0 5	0 2	0 3	+	1 7			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

STATION ABANDONED

Mean	1.40	.48	1.15	.01	21.9							
Acre-Feet	86	28	70	.79	122	928						

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

MEAN (Oct. 1-Mar. 1) 1230
YEAR OR PERIOD MEAN ACRE-FEET



STATION F260R-R

SANTA ANITA CREEK at Foothill Boulevard

LOCATION:

On the downstream side on east (left) end of Foothill Boulevard bridge, 2 miles northwest of Monrovia, about 3/8 mile below abandoned Station F260R, and approximately 1/4 mile below the confluence of Santa Anita Creek and Little Santa Anita Creek.

DRAINAGE AREA:

19.2 square miles.

CHANNEL AND CONTROL:

Sand, gravel and boulders; banks protected with wire and rock.
No artificial control.

DISCHARGE MEASUREMENTS:

At low flows by wading.
At high flows from upstream side of highway bridge.

RECORDER:

H.C.F. continuous recorder installed April 22, 1938 in a box type house over an 18 inch diameter corrugated iron pipe stilling well.

REGULATION:

Flow partially regulated by Big Santa Anita and Sierra Madre Dams.

DIVERSIONS:

Some water diverted for irrigation at mouth of Big Santa Anita Canyon.

RECORDS AVAILABLE:

April 22, 1938 to September 30, 1938.

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 260 B-R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

at Foothill Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Eddy Planer Bkt.	METH OD	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
0	3/10	Haig	28.5	28.4	3.49		99.		.6			250P 310P	FC 38
1	4/11	Haig	11.7	10.75	3.42		37.		.6	12		839A 857A	FC 1
2	4/21	"	13.8	11.88	1.33		16.		.6	10		133P 149P	FC 38
3	4/22	"	11.0	7.41	2.58	5.00	19.		.6	9	0	537P 553P	"
4	4/28	Lindsay	14.3	7.95	1.80	5.09	14.		.6	10	0	1210P 1223P	FC 28
5	4/30	"	15.2	8.92	1.91	5.15	17.		.6	8	0	110P 120P	"
6	5/5	"	14.2	7.46	1.55	5.32	12.		.6	10	0	951A 1005A	"
7	5/12	Haig	12.5	6.21	1.81	4.99	11.		.6	9	0	332P 342P	FC 38
8	5/19	"	10.5	5.00	2.00	4.95	10.		.6	8	0	210P 222P	"
9	5/26	"	5.8	3.96	1.22	4.81	4.8		.6	6	0	430P 438P	"
10	6/2	"	5.0	3.90	1.22	4.80	4.8		.6	6	0	150P 200P	"
11	6/9	"	8.0	4.12	1.46	4.85	6.0		.6	8	0	152P 202P	"
12	6/16	Lindsay	14.0	4.49	1.10	4.81	4.9		.6	7	0	1125A 1135A	FC 28
13	6/23	"	14.0	4.36	0.91	4.78	4.0		.6	9	0	843A 853A	"
14	6/30	"	14.2	4.60	0.87	4.79	4.0		.6	9	0	927A 940A	"
15	7/7	"	14.0	3.89	0.92	4.78	3.6		.6	9	-.01	935A 945A	"
16	7/7	"	Two channels				5.47	37.	.6	10	-.01	1028A 1038A	"
17	7/14	"	14.5	7.94	1.76	5.08	14.		.6	9	0	1255P 105P	"
18	7/20	"	14.5	7.43	1.70	5.06	13.		.6	8	0	1102A 1115A	"
19	7/28	"	14.0	6.18	1.43	4.94	8.8		.6	8	0	742A 752A	"
20	8/4	"	13.5	4.80	1.15	4.86	5.5		.6	8	0	817A 830A	"
21	8/11	"	8.5	1.76	0.65	4.62	1.1		.6	5	0	917A 925A	"
22	8/18	Lindsay	12.5	3.26	0.83	4.74	2.7		.6	7	0	1012A 1022A	"
23	8/24	"	13.0	4.39	0.93	4.81	4.1		.6	7	0	831A 840A	"

F. C. D. FORM 194 IM 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 260 B-R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

at Foothill Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Point No.	METH OD	MEAS. REC'R NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												120P	
24	8/31	Brewster	4.0	2.09	1.99	4.80	4.2		.6	4	-.01	126P	FC 8
												400P	
25	9/7	"	8.0	3.76	1.28	4.85	4.8		.8	5	0	410P	"
												1033A	
26	9/16	Lindsay	12.0	1.36	1.84	4.82	2.5		.6	6	0	1040A	FC 28
												207P	
27	9/21	"	14.0	1.22	1.39	4.76	1.7		.6	6	-.04	215P	"
												951A	
28	9/29	"	10.5	1.26	1.67	4.78	2.1		.6	6	0	1000A	"

F. C. Dis. Form IM 348

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F260B-R

Daily discharge, in second-feet of SANTA ANITA CREEK at Foothill Blvd. for the year ending September 30, 1938

STATION INSTALLED 6/23/38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1								16	5	41	9	09
2								16	5	65	9	09
3								13	4.7	12	9	11
4								11	4.7	18	5	14
5								12	4.1	28	4.7	10
6								11	5	24	7	15
7								10	5.4	18	5.7	16
8								9.5	4.7	17	5.4	13
9								9.5	7	14	5.4	13
10								9.5	7	11	3.6	11
11								9.5	7	5	3.4	14
12								8.5	6.5	5.6	4.4	09
13								8.5	5.4	5.6	4.4	17
14								8.5	5.4	5.6	4.4	13
15								8.5	5.4	14	4.4	17
16						10		12	5.4	14	4.4	22
17						12		12	5.4	12	4.4	20
18						12		11	5.4	11	4.4	20
19						11		11	5.4	11	4.4	22
20						11		11	5.4	11	4.4	22
21						11	20	7.5	5.4	11	4.4	22
22						11	21	6.5	5.4	11	4.4	22
23						11	22	6.5	5.4	11	4.4	22
24						11	20	6.5	5.4	10	4.4	22
25						11	19	6.5	5.4	11	4.4	22
26						11	18	6.5	5.4	11	4.4	22
27						11	16	6.5	5.4	11	4.4	22
28						11	16	6.5	5.4	11	4.4	22
29						11		6.5	5.4	11	4.4	22
30						11		6.5	5.4	11	4.4	22
31						11		5.5	5.4	8.5	4.4	22
						397	156 (Apr.23-30)	292.5	136.9	375.7	994	597
Mean								9.44	4.56	12.1	3.21	1.99
Acre-Feet							309	580	272	745	197	118

Max. 1938 (Apr. 30) 2220
Max. Recorded Flood Acre-Feet

Remarks:

STATION F193A

SANTA ANITA WASH below Arrow Highway

LOCATION:

On east (left) bank of Santa Anita Wash, 1000 feet below Arrow Highway and about 2 miles southeast of Arcadia.

DRAINAGE AREA:

18.4 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 foot bridge 15 feet above station.

RECORDER:

Installed April 25, 1932 in a box type house over an 18 inch diameter, corrugated iron pipe stilling well.
A vertical Rational recorder, in service October 1, 1936, was replaced on June 24, 1937 with a Stevens type L recorder.
Recorder removed at 1:40 A.M. March 1, 1938.

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 March 1, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 117 second-feet December 27.
Minimum no flow most of year.
1937-1938
Not determined.
1933-1937
Maximum 399 second-feet January 1, 1934.
1932-1937
Minimum no flow most of each year.

ACCURACY:

Poor.
Estimated: March 16, 21, 22, 27, 28, 1937, February 15, 16, 1938.
Interpolated: February 3, 4, 1937.

OPERATION:

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

F. C. D. FORM 194 IM 8-38

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 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Point No.	METH OD	MEAS. REC'R NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
		Lindsay and										940A	
2	12/27	McArthur	25.0	16.74	5.33	3.19	89.		.6	8	-.02	950A	FC 28
												425P	
3	12/27	" "	22.0	9.43	4.18	2.86	39.		.6	9	-.01	435P	"
												1143P	
4	12/27	" "	21.5	6.52	2.96	2.68	19.		.6	7	-.02	1153P	"
												1035A	
5	12/29	Lindsay	18.5	3.50	1.89	2.54	6.5		.6	8	0	1045A	"
		Lindsay and										1010P	
6	12/30	McArthur	22.0	9.16	4.19	2.86	38.		.6	7	+.01	1018P	"
												215P	
7	12/31	Lindsay	21.7	8.00	3.46	2.75	28.		.6	9	0	225P	"
												1044A	
8	1/3	"	22.0	5.91	2.56	2.75	15.		.6	9	-.04	1053A	"
												328P	
9	1/5	"	3.5	.58	1.89	2.42	.65		.6	3	0	335P	"

F. C. D. FORM 104 1M 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 193 R

DISCHARGE MEASUREMENTS OF SANTA ANITA WASH

~~X~~ below Arrow Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Factor Inf.	METH OD	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
12	2/6	Lindsay and McArthur	21.0	6.56	3.26	2.75	21.		.6	8	-.03	1128A 1135A	"
13	2/6	" "	23.5	10.89	4.63	2.91	50.		.6	8	-.01	543P 553P	"
14	2/6	" "	14.0	3.17	1.73	2.44	5.5		.6	6	-.01	1115P 1125P	"
15	2/7	" "	22.0	13.81	4.71	2.79	65.		.6	8	0	1045A 1057A	"
16	2/8	" "	21.5	8.97	4.11	2.61	37.		.6	8	0	345P 355P	"
17	2/9	Lindsay	20.7	9.14	4.03	2.62	37.		.6	9	0	1015A 1028A	"
18	2/10	Lindsay and McArthur	18.8	7.48	3.95	2.47	30.		.6	8	0	1005A 1015A	"
19	2/1	Lindsay	10.5	1.93	1.56	2.17	3.0		.6	7	0	1202P 1210P	"
20	2/13	Lindsay and McArthur	18.0	4.65	2.77	2.32	13.		.6	7	-.05	1025P 1035P	"
21	2/14	" "	10.0	1.78	1.47	2.00	2.6		.6	6	-.03	840A 850A	"
23	2/14	" "	21.0	13.21	4.97	2.64	66.		.6	8	+.05	525P 535P	"
24	2/14	" "	21.7	19.25	5.65	2.77	109.		.6	9	-.02	1010P 1022P	"
25	2/15	" "	20.5	15.66	5.47	2.69	86.		.6	8	-.04	1110A 1120A	"
26	2/16	" "	21.0	15.33	5.25	2.58	80.		.6	8	0	940A 950A	"
27	2/17	" "	13.8	13.37	5.01	2.49	67.		.6	8	-.01	210P 220P	"
28	2/18	" "	18.0	14.63	4.56	2.31	66.		.6	8	0	1205P 1215P	"
29	2/19	Lindsay and McArthur	18.0	7.05	3.25	1.98	23.		.6	10	0	120P 130P	FC 28
30	2/19	" "	20.5	15.59	4.84	2.36	76.		.6	8	0	430P 437P	"
32	2/26	Lindsay	8.5	1.37	1.00	1.62	1.4		.6	5	-.01	1123A 1128A	"
33	3/13	Lindsay and McArthur	Two	Channels		1.67	1.4		.6	6	-.02	810A 815A	"
34	3/15	Lindsay	16.0	4.39	2.64	1.74	12.		.6	6	0	1219P 1225P	"
35	3/15	Lindsay and McArthur	20.5	13.42	4.90	2.14	66.		.6	7	-.03	825P 835P	"
36	3/16	" "	16.0	5.52	3.45	1.85	19.		.6	7	+.02	110P 117P	"
37	3/17	" "	16.5	5.77	3.05	1.89	18.		.6	7	+.01	1115A 1125A	"
38	3/19	Lindsay	21.0	9.94	4.35	2.15	43.		.6	8	0	1109A 1119A	"
40	3/24	Lindsay	15.5	2.86	1.92	1.70	5.5		.6	6	0	1146A 1153A	FC 21
41	3/26	"	17.5	6.08	3.80	1.87	23.		.6	6	0	1036A 1043A	"
42	3/29	"	18.0	4.41	2.58	1.77	11.		.6	7	0	1202P 1212P	"
43	3/31	"	11.0	1.82	1.34	1.65	2.4		.6	6	0	327P 336P	FC 28
44	4/2	"	13.0	2.66	1.97	1.70	5.2		.6	8	0	944A 950A	"
45	4/5	"	14.0	2.24	1.24	1.61	2.8		.6	6	-.01	1219P 1227P	"
46	4/7	"	12.5	2.09	1.63	1.66	3.8		.6	6	0	958A 1008A	"
47	4/9	"	12.0	2.51	1.55	1.67	3.9		.6	6	0	907A 913A	"

F. C. D. FORM 104 1M 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 193 R

DISCHARGE MEASUREMENTS OF SANTA ANITA WASH

~~X~~ below Arrow Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Factor Inf.	METH OD	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
49	12/11	Lindsay-Ingram	15.	2.46	1.91	1.61	4.0		.6	5	+.01	612P 622P	FC 28
50	2/4	" "	17.	5.89	3.29	1.92	19.		.6	7	-.02	928A 936A	"
51	2/4	" "	18.	8.14	3.88	2.03	32.		.6	7	0	410P 420P	"
52	2/5	Lindsay and Thompson	19.5	8.17	3.75	2.02	31.		.6	8	0	927A 938A	"
53	2/7	Lindsay	17.5	4.23	2.60	1.84	11.		.6	8	-.01	1025A 1035A	"
54	2/9	Lindsay-Ingram	18.5	9.34	3.92	2.19	37.		.6	9	0	648A 700A	"
55	2/9	" "	12.	1.92	1.88	1.82	3.6		.6	4	+.01	301P 308P	"
56	2/12	" "	19.	9.73	4.14	2.23	40.		.6	9	0	725P 738P	"
57	2/16	Lindsay	15.	3.36	2.18	1.88	7.3		.6	6	-.05	102P 110P	"
58	2/16	"	5.0	1.10	1.47	1.74	1.6		.6	4	-.01	130P 136P	"
59	2/27	Lindsay-Ingram	16.0	4.04	2.58	1.90	10.		.6	7	-.01	802P 808P	"
60	2/28	" "	20.	14.39	5.06	2.47	73.		.6	7	-.02	1041A 1050A	"
61	2/28	" "	24.	38.19	7.46	3.20	240.		.6	7	0	905P 920P	"
62	3/1	" "	30.	60.60	9.40	3.72	570.		.6	6	-.05	155A 230A	"
63	3/1	" "	32.	53.95	8.17		441.		.6	7		555P 610P	"
64	3/2	" "	30.	41.58	8.44		351.		.6	7		830A 840A	"
65	3/29	Lindsay	19.	26.70	1.40		38.		.6	9		810A 825A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F193R

Daily discharge, in second-feet of SANTA ANITA WASH below ARROW Highway for the year ending September 30, 1936

NO RECORD

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	1.1							
2	0	0	0	0	0							
3	0	0	0	0	0							
4	0	0	0	0	2.0							
5	0	0	0	0	2.8							
6	0	0	0	0	1.1							
7	0	0	0	0	1.1							
8	0	0	0	0	1.6							
9	0	0	0	0	1.4							
10	0	0	0	0	0							
11	0	0	0	0	3.5							
12	0	0	0.9	0	3.4							
13	0	0	0.2	0	1.6							
14	0	0	0.8	0	1.4							
15	0	0	0	0	7							
16	0	0	0	1	0							
17	0	0	0	0	0.5							
18	0	0	0	0	+							
19	0	0	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							
25	0	0	0	0	0							
26	0	0	+	0	0							
27	0	0	0	0	0							
28	0	0	0	0	0							
29	0	0	0	0	0.9							
30	0	0	0	0	1.7							
31	0		0	0	1.1							
Total	0	0	1.9	0.1	34.6							
Mean	0	0	.06	+	1.2							
Acre-Feet	0	0	3.8	.20	67.8							

Year (Oct. 1-Sep. 28) Mean 642
Period Acre-Feet

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

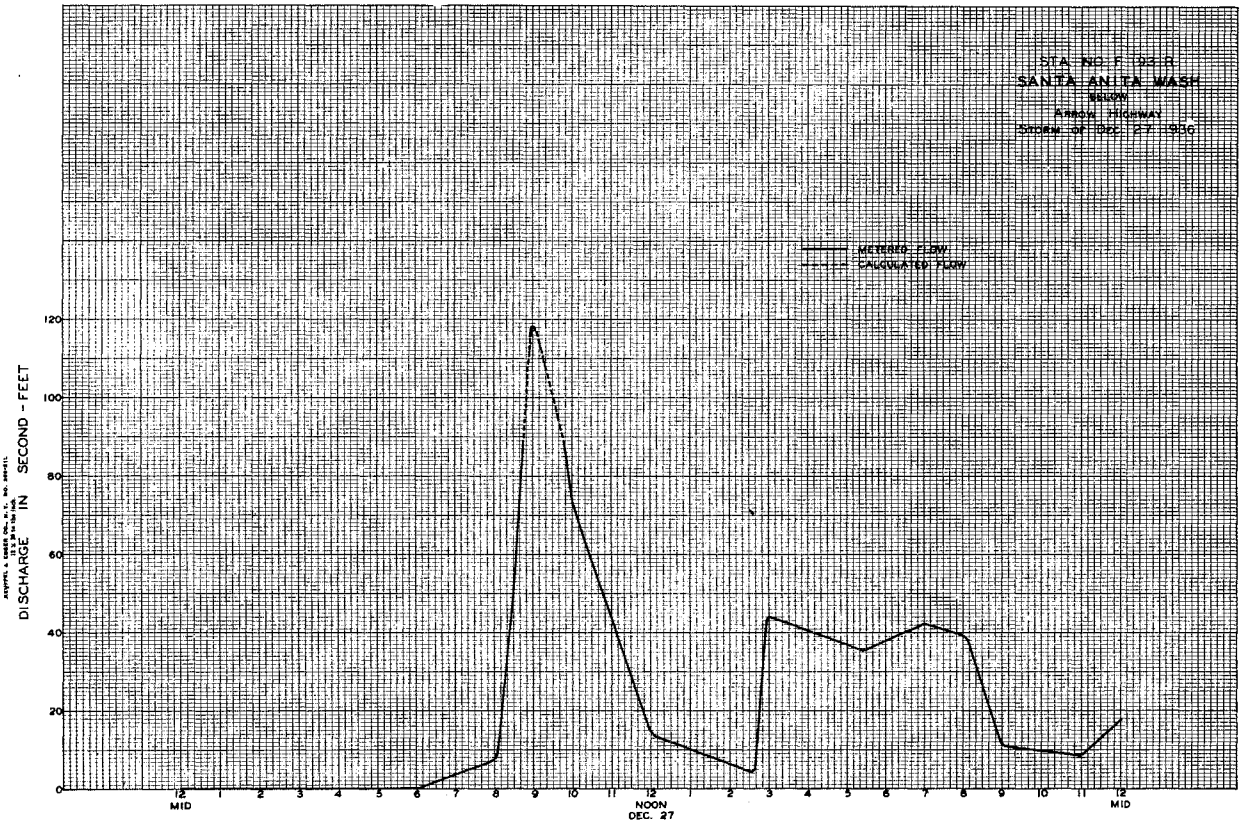
Sta. No. F193R

Daily discharge, in second-feet of SANTA ANITA WASH below ARROW Highway for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	20	5.5	0.2	2.6	0	0	0	0	0
2	0	0	0	17	3.4	0.4	3.4	0	0	0	0	0
3	0	0	0	8	3.0	0	3.4	0	0	0	0	0
4	0	0	0	9	0	0	3.0	0	0	0	0	0
5	0	0	0	2.1	0	0	3.0	0	0	0	0	0
6	0	0	0	1.4	1.6	0	3.2	0	0	0	0	0
7	0	0	0	0.5	6.0	0	2.4	0	0	0	0	0
8	0	0	0	2.8	4.6	0	3.4	0	0	0	0	0
9	0	0	0	4.9	3.7	0	2.4	0	0	0	0	0
10	0	0	0	0	1.8	0	3.0	0	0	0	0	0
11	0	0	0	0	3.0	0	3.1	0	0	0	0	0
12	0	0	0	0.1	2.2	0	1.0	0	0	0	0	0
13	0	0	0	0	3.4	0.8	0	0	0	0	0	0
14	0	0	0	0	3.7	1.4	0	0	0	0	0	0
15	0	0	0	0	3.6	2.3	0	0	0	0	0	0
16	0	0	0	0	3.2	2.5	0	0	0	0	0	0
17	0	0	0	0	3.9	3.2	0	0	0	0	0	0
18	0	0	0	0	3.7	3.7	0	0	0	0	0	0
19	0	0	0	0	2.4	2.5	0	0	0	0	0	0
20	0	0	0	0	2.0	4.7	0	0	0	0	0	0
21	0	0	0	0	1.0	0.4	0	0	0	0	0	0
22	0	0	0	0	0.3	1.3	0	0	0	0	0	0
23	0	0	0	0	1.5	2.5	0	0	0	0	0	0
24	0	0	0	0	0.8	2.2	0	0	0	0	0	0
25	0	0	0	0	0	2.0	0	0	0	0	0	0
26	0	0	2.6	0	0	1.5	0	0	0	0	0	0
27	0	0	0	0	0	0.8	0	0	0	0	0	0
28	0	0	0	0	0	2.6	0	0	0	0	0	0
29	0	0	0	0	0		0	0	0	0	0	0
30	0	0	0	0	0		0	0	0	0	0	0
31	0		0	0	0		0	0	0	0	0	0
Total	0	0	5.8	59.7	57.5	32.7	34.4	0	0	0	0	0
Mean	.04	0	1.87	1.93	20.6	10.6	1.15	0	0	0	0	0
Acre-Feet	2.4	0	115	118	1180	650	68	0	0	0	0	0

Year (Oct. 1-Sep. 30) Mean 2.90
Period Acre-Feet 2090

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



STATION F92R

SANTA CLARA RIVER at old highway bridge 4 miles W. of Saugus

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 an F. C. standard type house over a 20 inch diameter, corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1936 to September 21, 1938.
Recorder removed and station abandoned September 21, 1938 (station moved upstream to State Highway 99 bridge).

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 March 28, 1938.
Some weekly stream measurements were taken prior to January 18, 1930 and subsequent to March 28, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 3410 second-feet December 27.
Minimum no flow at various times.
1937-1938
Maximum 24000 second-feet, estimated, March 2.
Minimum no flow October 22 and 23.
1929-1938
Maximum 24000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor.
Poor communication to well, flow estimated December 1 and 2, 1936; January 1 to 16, February 1 to 5, 8, to 12, 16 to March 13, March 15, 22, September 12 to 20, 22, 23, 1937; February 6 to 9, 13 to 26, March 5 to 9, 17, 18, 1938.
Clock stopped: Flow estimated March 20 to 22, 1937.
No communication to well, flow interpolated between measurements March 22 to 26, March 28 to September 30, 1938.

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 92 R

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT old highway bridge, 4 mi. W. of Saugus DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	12/23	Luce	1.9	.20	.35		0.07		.6	3		530P 535P	FC 13
2	12/27	Miller-Barclay	52.0	44.17	4.13	14.39	182.		.6	16	-.12	1120A 1150A	FC 35
3	12/28	" "	11.3	1.89	.87	14.04	1.6		.6	8	+.08	1210P 1220P	"
4	12/30	Miller-Paul	3.5	.38	.42	14.14	0.16		.6	6	0	1107A 1117A	"
5	12/31	Miller-Barclay	89.0	82.4	4.91	14.85	405.		.6	16	-.11	215A 315A	"
6	12/31	" "	20.0	11.0	3.38	14.46	37.		.6	12	-.04	1215P 1235P	"
7	1/5	Miller	3.5	.41	.49	14.25	0.20		.6	6	0	340P 350P	"
8	1/13	"	2.8	.21	.48	14.04	0.10		.6	4	+.01	420P 430P	"
9	1/30	Miller-Barclay	7.0	1.43	1.37	14.18	2.0		.6	7	+.07	230P 240P	"
10	1/30	" "	55.0	38.25	4.10	14.82	157.		.6	18	-.15	720P 800P	"
11	1/31	" "	20.5	4.79	1.25	14.47	6.0		.6	9	0	1115A 1130A	"
12	2/4	Luce-Paul	1.70	.21	.67		0.14		.6	3		340P	FC 13
13	2/6	" "	8.5	1.96	1.28	14.24	2.5		.6	5	+.08	700A 706A	"
14	2/6	Miller-Barclay	66.0	54.37	4.50	15.05	245.		.6	19	0	130P 200P	FC 35

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 92 R

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT ~~XXXX~~ old highway bridge, 4 mi. W. of Saugus DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Factor Ft.	METH OD	NEAR REC'S NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
15	2/7	" "	34.0	18.42	3.60	14.93	66.		.6	10	0	1000A 1020A	"
16	2/9	Luce-Paul	3.6	0.34	.77		0.26		.6	5		445P 447P	FC 13
17	2/14	Miller-Barclay	172.0	183.1	3.38	15.52	619.		.6	20	+.05	630A 730A	FC 35
18	2/14	" "	185.0	167.2	3.30	15.56	551.		.6	18	+.02	810A 845A	"
19	2/14	" "	190.0	174.0	3.31	15.60	575.		.6	21	0	1040A 1110A	"
20	2/15	Paul	Two Channels			15.32	29.		.6	13	0	345P 400P	FC 13
21	3/3	"	6.0	.98	.97		0.95		.6	6		1255P 1259P	"
22	3/12	Miller-Barclay	12.2	2.06	1.14		2.3		.6	9		735P 755P	FC 35
23	3/15	" "	101.0	56.5	2.84	15.57	161.		.6	15	-.10	1120P 1150P	"
24	3/16	" "	86.0	35.4	2.58	15.30	92.		.6	15	0	1245A 100A	"
25	3/16	Miller-Barclay	67.0	26.7	2.41	15.12	64.		.6	15	-.05	135A 155A	FC 35
26	3/16	" "	67.0	24.7	2.28	15.08	56.		.6	16	-.05	200A 225A	"
27	3/16	Miller	32.0	11.56	2.55	14.85	30.		.6	13	0	1120A 1140A	"
28	3/22	Miller-Barclay	39.0	15.22	2.22	14.94	34.		.6	17	-.04	115P 135P	"
29	3/22	" "	40.0	14.35	2.27	14.90	33.		.6	18	-.01	150P 210P	"
30	3/24	" "	47.0	19.98	3.01	15.21	60.		.6	19	0	840P 910P	"
31	3/24	" "	49.5	21.95	3.15	15.24	69.		.6	18	-.09	945P 1005P	"
32	3/24	" "	48.5	18.82	2.85	15.14	54.		.6	17	-.03	1030P 1045P	"
33	3/26	Paul	Three Channels			14.86	25.		.6	17	-.08	155P 210P	FC 13
34	4/23	Luce	8.0	1.32	0.99	14.37	1.3		.6	7		950A 955A	"
35	5/28	"	4.0	.56	0.57	14.40	0.32		.6	4	0	825A 830A	"
36	6/10	"	2.6	.54	0.67	14.25	0.36		.6	5		1225P 1230P	"
37	7/1	"	2.1	.32	0.79	14.34	0.22		.6	4		620A 625A	"
38	8/13	"	1.3	.08	0.25	14.28	0.02		.6	2		1100A 1105A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F92R

SANTA CLARA RIVER at old highway bridge 4 mi. W. of Saugus for the year ending September 30, 1938

Daily discharge, in second-feet of

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0 1	0 1	38	349	51	85	55	22	0 4	0 2
2	+	+	0 1	0 1	30 4	5370	44	85	55	20	0 4	0 2
3	+	+	0 1	0 1	58	2310	37	80	55	18	0 4	0 2
4	+	+	0 1	0 1	11	394	30	80	55	16	0 4	0 3
5	+	+	0 1	0 1	5	102	24	80	49	17	0 3	0 3
6	+	+	0 1	0 1	4 4	65	18	80	48	15	0 3	0 3
7	+	+	0 1	0 1	4 4	84	11	80	46	15	0 3	0 3
8	+	+	0 1	0 1	4 4	46	11	75	45	14	0 3	0 2
9	+	+	0 1	0 1	4 4	46	11	75	44	13	0 3	0 2
10	+	+	0 1	0 2	4 4	46	11	75	43	12	0 2	0 2
11	+	+	0 1	0 1	1 75	80	11	75	42	11	0 2	0 2
12	+	+	0 1	0 1	20	275	10	75	42	10	0 2	0 2
13	+	+	0 1	0 1	15	513	10	75	41	10	0 2	0 2
14	+	+	0 1	0 1	14	306	10	75	40	09	0 2	0 2
15	+	+	0 1	0 1	13	99	10	75	39	08	0 2	0 2
16	+	+	0 1	0 1	12	67	10	75	38	08	0 2	0 2
17	+	+	0 1	0 1	11	43	10	75	37	08	0 2	0 2
18	+	+	0 1	0 1	10	49	10	75	36	08	0 2	0 2
19	+	+	0 1	0 1	10	68	10	75	35	07	0 2	0 2
20	+	+	0 1	0 1	10	84	10	75	35	07	0 2	0 2
21	+	+	0 1	0 1	09	89	10	75	34	07	0 2	0 2
22	+	0	0 1	0 1	08	89	9	75	33	07	0 2	0 2
23	+	+	0 1	0 1	07	87	9	75	33	07	0 2	0 2
24	+	+	0 1	0 1	06	87	9	75	32	07	0 2	0 2
25	+	+	0 1	0 1	05	85	9	75	31	06	0 2	0 2
26	+	+	0 1	0 2	05	84	9	75	30	06	0 2	0 2
27	+	+	0 1	0 1	20	84	9	75	29	06	0 2	0 2
28	+	+	0 1	0 1	115	78	8	75	28	06	0 2	0 2
29	+	+	0 1	0 1		71	8	75	27	06	0 2	0 2
30	+	+	0 1	0 1		64	8	75	26	06	0 2	0 2
31	+	+	0 1	0 1		58		75	25	05	0 2	0 2
Mean	+	+	.11	.10	16.4	396	14.6	6.90	3.77	.99	.24	.12
Acre-Feet	+	+	6.5	6.2	908	24380	869	424	224	61	15	6.9

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

Year Mean 37.2
Period Acre-Feet 26900

F. C. Dist. Form 82 10 &8

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 92 R

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT ~~XXXX~~ old highway bridge, 4 mi. W. of Saugus DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Factor Ft.	METH OD	NEAR REC'S NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
39	12/11	Miller-Schaller	4.0	.32	.56	14.43	0.18		.6	5		1000P 1010P	FC 35
40	12/23	Luce-B. Luce	3.0	.27	.33	14.41	0.09		.6	4	0	1115A 1120A	FC 39
41	12/30	Luce	3.5	.32	.31	14.40	0.10		.6	5	0	1240P 1245P	"
42	1/12	"	2.0	.22	.32	14.41	0.07		.6	4	0	230P 235P	"
43	2/1	Miller-Maly	46.0	34.08	2.78	15.64	95.		.6	12	0	745A 805A	FC 35
44	2/1	" "	40.0	25.36	2.25	15.20	57.		.6	10	-.16	835A 850A	"
45	2/3	" "	29.0	21.67	3.76	15.42	82.		.6	10	-.07	845P 900P	"
46	2/3	" "	23.5	13.09	3.19	15.08	42.		.6	11	-.05	945P 1000P	"
47	2/3	" "	22.5	10.21	2.88	14.97	30.		.6	12	-.03	1045P 1100P	"
48	2/4	Luce-Skelly	13.0	4.55	2.14	14.76	9.7		.6	5	0	520P 530P	FC 39
49	2/9	Miller-Maly	11.0	2.65	1.65	14.60	4.4		.6	8	0	415P 425P	FC 35
50	2/11	" "	Two Channels			16.65	478.		.6	14	-.20	450P 540P	"
51	2/11	" "	175.0	123.3	2.66	16.48	328.		.6	25	-.15	600P 635P	"
52	2/11	" "	160.0	76.86	2.60	16.10	200.		.6	21	-.10	730P 800P	"
53	2/11	" "	108.0	47.61	2.56	15.95	121.		.6	16	0	900P 935P	"
54	2/12	Luce-Van Buren	7.5	1.15	1.43	15.30	1.6		.6	7	0	245P 250P	FC 39
55	2/28	Miller-Trumbo	46.5	25.63	3.48	16.08	89.		.6	17	-.03	500P 520P	FC 35
56	2/28	" "	46.5	23.22	3.41	16.04	79.		.6	17	-.01	530P 540P	"
57	3/1	" "	Two Channels			16.64	261.		.6	21	-.02	1000A 1030A	"
58	3/1	" "	Two Channels			16.61	236.		.6	17	-.02	1035A 1050A	"
59	3/3	" "	Two Channels			20.80	1700.		.6	17	-.10	315P 415P	"
60	3/5	Miller-M.Miller	Two Channels			19.90	106.		.6	24	0	1210P 1250P	"
61	3/7	Miller	39.5	16.72	3.30	19.63	55.		.6	12	0	940A 1000A	"
62	3/10	"	Two Channels			19.50	61.		.6	18	0	1000A 1030A	"
63	3/12	Miller	209.0	143.8	5.12	20.20	736.		.6	28	-.10	230P 315P	FC 35
64	3/15	"	84.4	34.38	3.22	19.98	111.		.6	18	0	1010A 1040A	"
65	3/18	Miller-C.Miller	68.4	18.41	1.91	19.48	35.		.6	15	0	1035A 1055A	"
66	4/7	Luce-Skelly	34.0	7.97	1.32		11.		.6	9		1130A 1140A	FC 39
67	7/14	Luce	4.0	.88	.84		0.75		.6	6		1230P 1235P	"
68	8/11	"	2.2	.23	.70		0.16		.6	5		1200N 1210P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F92R

SANTA CLARA RIVER at old highway bridge 4 mi. W. of Saugus for the year ending September 30, 1938

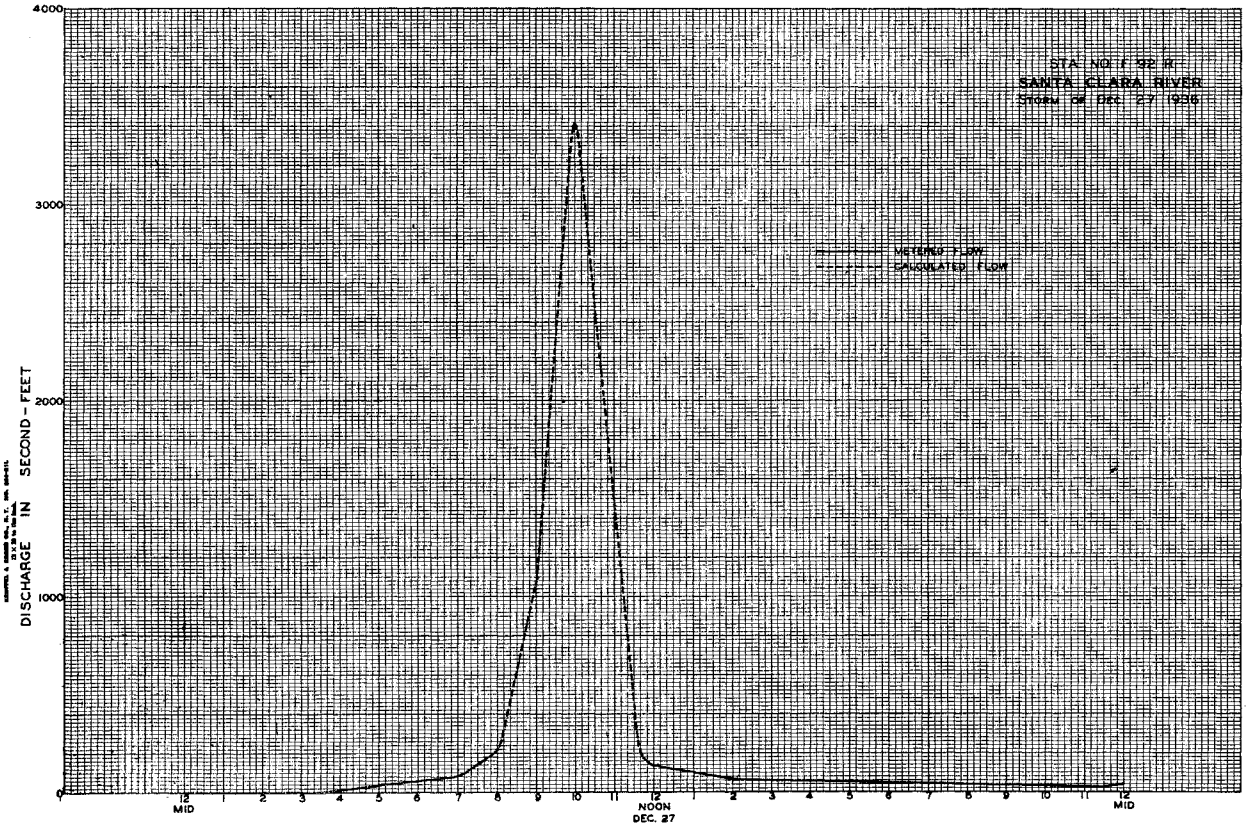
Daily discharge, in second-feet of

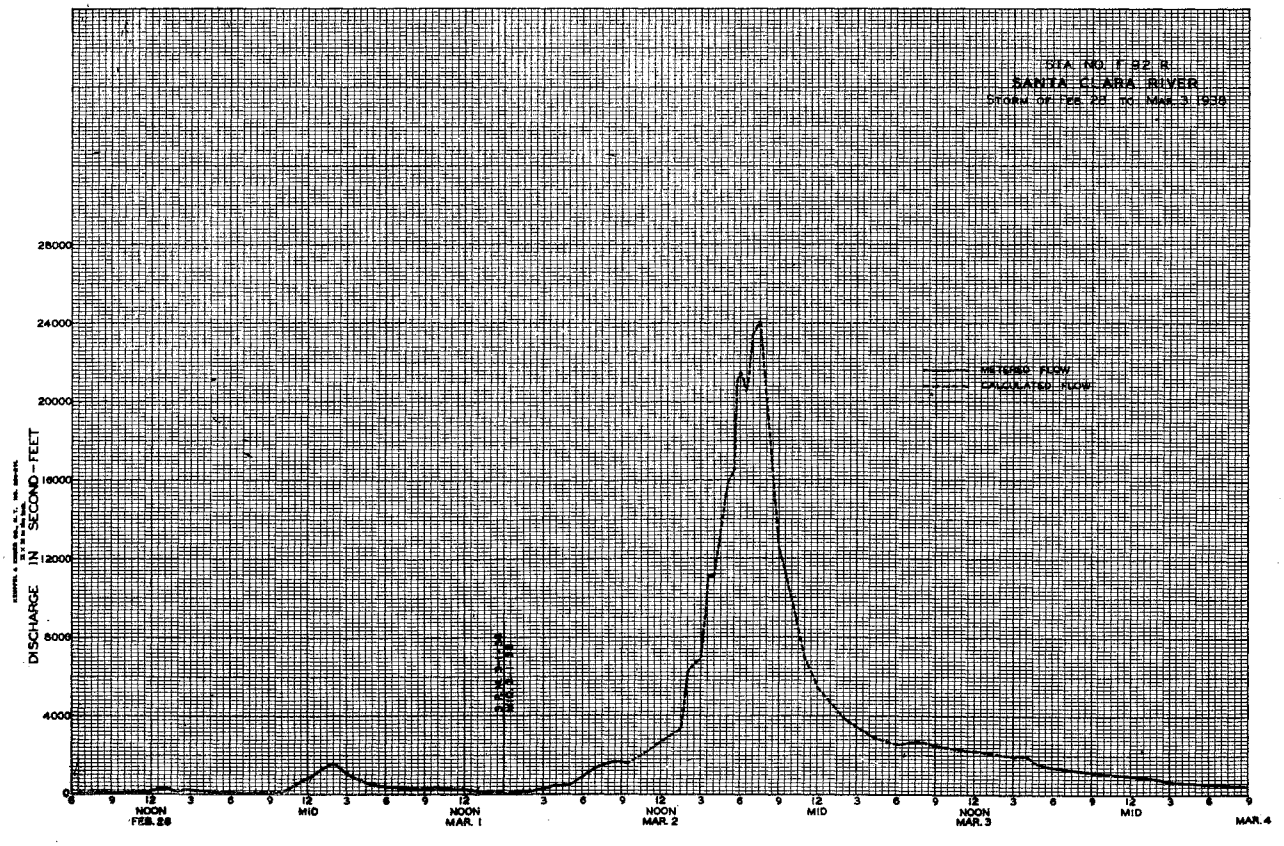
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	18	1 9	1 0	7 5	0 8	0 5	0	0 2	0 2
2	0	0	0	11	0 3	1 0	6 5	0 6	0 8	+	0 2	0 2
3	0	0	0	6	0 1	0 9	5 5	0 6	1 0	+	0 1	0 2
4	0	0	0	17	0 2	0 9	4 5	0 6	1 0	0	0 1	0 2
5	0	0	0	2	0 6	0 9	4 5	0 4	1 0	0	0 1	0 2
6	0	0	0	0	1 31	0 8	4 1	0 4	1 0	0	0 1	0 2
7	0	0	0	0	76	0 8	3 9	0 4	1 0	0	0 1	0 2
8	0	0	0	0	4	0 8	2 5	0 4	1 0	0	0 1	0 2
9	0	0	0	0	0 3	0 8	2 3	0 4	1 0	0	0 1	0 2
10	0	0	0	0	0 2	0 8	2 3	0 4	1 0	0	0 1	0 2
11	0	0	0	0	0 2	5	2 1	0 3	1 0	0	0 1	0 2
12	0	0	0	0	0 2	1 44	1 9	0 3	1 0	0	0 1	0 2
13	0	0	0	0	0 2	22	1 9	0 3	1 0	0	0 1	0 2
14	0	0	0	0	0 2	1	1 7	0 3	1 0	0	0 1	0 2
15	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
16	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
17	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
18	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
19	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
20	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
21	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
22	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
23	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
24	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
25	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
26	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
27	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
28	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
29	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
30	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
31	0	0	0	0	0 2	0	1 7	0 3	1 0	0	0 1	0 2
Mean	0	0	0	1.6	2.76	29.4	2.44	.39	.86	.08	.13	.10
Acre-Feet	0	0	0	1030	170	1630	145	24	51	4.8	8.1	6.1

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

Year Mean 6.69
Period Acre-Feet 4850

F. C. Dist. Form 82 10 &8


STA. NO. F 92 R
SANTA CLARA RIVER
Storm of Dec. 27 1938
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
4000
3000
2000
1000
0
12 MID
NOON DEC. 27
12 MID


STA. NO. F 92 R
SANTA CLARA RIVER
Storm of Feb 28 to Mar 3 1938
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
28000
24000
20000
16000
12000
8000
4000
0
12 NOON FEB. 28
12 MID
12 NOON MAR. 1
12 NOON MAR. 2
12 MID
12 NOON MAR. 3
12 MID
MAR. 4

STATION F105R

SEPULVEDA CREEK at Charnock Road

LOCATION:

About 1200 feet west of Sawtelle Boulevard. From September 15, 1932 to March 3, 1937 and from July 7, 1938 to September 30, 1938 on east (left) wing wall on downstream side of highway bridge: from August 11, 1937 to March 3, 1938 on east (left) wing wall on upstream side of highway bridge.

DRAINAGE AREA:

25.7 square miles.

CHANNEL AND CONTROL:

Channel - adobe and some sand.
No artificial control subsequent to October 8, 1936.

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 an 18 inch diameter corrugated iron pipe stilling well; removed March 3, 1937 on account of bridge construction; re-installed August 11, 1937; removed March 3, 1938 due to the stilling well being washed out; re-installed July 7, 1938. Stevens type L recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION AND OR DIVERSIONS:

Stone Canyon Reservoir.

RECORDS AVAILABLE:

Discharge measurements only, January 1, 1932 to September 14, 1932.
Recorder records September 15, 1932 to March 3, 1937; August 11, 1937 to March 2, 1938, and July 7, 1938 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 1980 second-feet February 14.
Minimum no flow at various times.
1937-1938
Maximum 3100 second-feet, estimated, March 2.
Minimum no flow at various times.
1938-1938
Maximum 3100 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Poor.
Clock stopped several times.
Trouble with communication at times.
Several days estimated. Several days interpolated.

OPERATION:

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

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 185 R

DISCHARGE MEASUREMENTS OF SEPULVEDA CREEK

AT ~~NEW~~ Charnock Road DURING THE YEAR ENDING SEPTEMBER 30, 1937

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period No.	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												235P	
3	10/13	Prickett	1.5	.30	.70	1.96	.21		Sur	3	0	240P	FC 22
												425P	
4	10/22	Prickett	2.0	.45	.82	1.55	.37		.6	4	0	430P	"
												706A	
5	10/31	Prickett-Haig	3.5	3.25	2.55	1.98	8.3		.6	6	-.16	714A	"
												855A	
10	12/15	" "	13.0	20.2	2.31	2.19	47		.6	8	-.02	906A	"
												907A	
11	12/15	" "	16.0	22.2	2.28	2.17	51		.6	8	-.02	912A	"
												310P	
12	12/15	" "	27.0	48.75	4.37	3.19	213		.6	8	-.02	323P	"
												345P	
14	12/23	Prickett	3.5	.96	2.13	6.70	2.0		.6	4	-.01	350P	"
												1025A	
15	12/27	Prickett-Haig	19.0	15.01	3.55	8.05	53		.6	6	-.10	1028A	"
												155A	
16	12/28	" "	22.0	25.4	4.16	8.30	106		.6	6	-.20	200A	"
												355P	
17	12/29	" "	4.0	.78	3.28	6.48	2.6		.6	4	0	358P	"
												253P	
18	12/30	" "	25.0	61.3	4.87	9.26	298		.6	7	+.28	300P	"
												305P	
19	12/30	" "	25.0	62.5	4.97	9.13	311		.6	7	-.35	314P	"
												847P	
20	12/30	" "	30.0	99.75	5.86	10.00	586		.6	7	+.25	902P	"
												909P	
21	12/30	" "	30.0	102.2	6.23	10.08	630		.6	7	-.05	921P	"
												827P	
22	1/5	" "	16.0	15.87	3.91	7.50	62		.6	9	-.20	834P	"
												839A	
23	1/6	" "	14.0	6.96	3.16	6.84	22		.6	7	-.10	843A	"
												1059A	
24	1/12	" "	12.5	4.46	1.78	6.1[illegible]	8.0		.6	6	-.02	1109A	"
												341P	
25	1/12	" "	26.0	53.8	4.57	8.62	246		.6	6	-.45	350P	"
												354P	
26	1/12	" "	25.0	47.6	4.51	8.21	215		.6	6	-.70	402P	"
												515P	
27	1/21	Prickett	1.5	.33	.88	5.16	0.29		.6	3	0.0	520P	"
												345P	
28	1/28	"	2.5	.42	.81	5.20	0.34		Sur	3	0.0	350P	"
												320P	
29	1/30	Haig-Carlson	5.0	1.31	1.24	5.48	2.2		.6	5	-.01	326P	"
												1130A	
30	2/4	Prickett	3.3	.62	1.10	5.12	0.70		.6	3	0.0	1135A	"
												903A	
31	2/6	Prickett-Haig	36.0	167.0	8.96	11.24	1680		.6	8	+.40	918A	FC 22
												334P	
32	2/6	" "	34.0	117.9	6.19	9.45	730		.6	9	-.40	350P	"
												355P	
33	2/6	" "	33.0	105.5	5.87	9.20	619		.6	7	-.10	406P	"
												208P	
34	2/13	" "	30.0	39.4	4.34	7.29	172		.6	8	+.18	214P	"
												218P	
35	2/13	" "	30.5	45.48	5.40	7.54	246		.6	7	+.32	224P	"
												335P	
36	2/15	Haig-Prickett	9.5	2.87	1.01	4.48	2.9		.6	8	0.0	345P	"
												525P	
37	2/18	Prickett	4.5	1.39	1.03	4.30	1.4		.6	4	0.0	530P	"
												450P	
38	2/25	Prickett-Haig	13.0	7.76	2.30	4.92	18		.6	6	-.05	454P	"
												220P	
39	3/11	Prickett	4.0	.96	1.06		1.0		.6	4		230P	"
												1102A	
40	3/12	Prickett-Haig	17.0	21.35	4.66		100		.6	6		1110A	"
												1030A	
41	3/25	Prickett	4.5	1.16	1.35		1.6		.6	4		1035A	"
												110P	
42	4/1	"	3.0	.82	.91		0.75		.6	3		115P	"
												305P	
43	4/8	"	3.5	.99	.68		.65		.6	3		310P	"
												900A	
44	4/15	"	3.0	.55	.65		0.36		.6	3		905A	"
												1230P	
45	5/20	"	3.0	.81	.90		0.75		.6	3		1235P	"
												1155A	
46	9/2	"	2.8	.75	.97	2.06	0.75		.6	3		1200N	"

F. C. D. FORM 104 IN 8-38

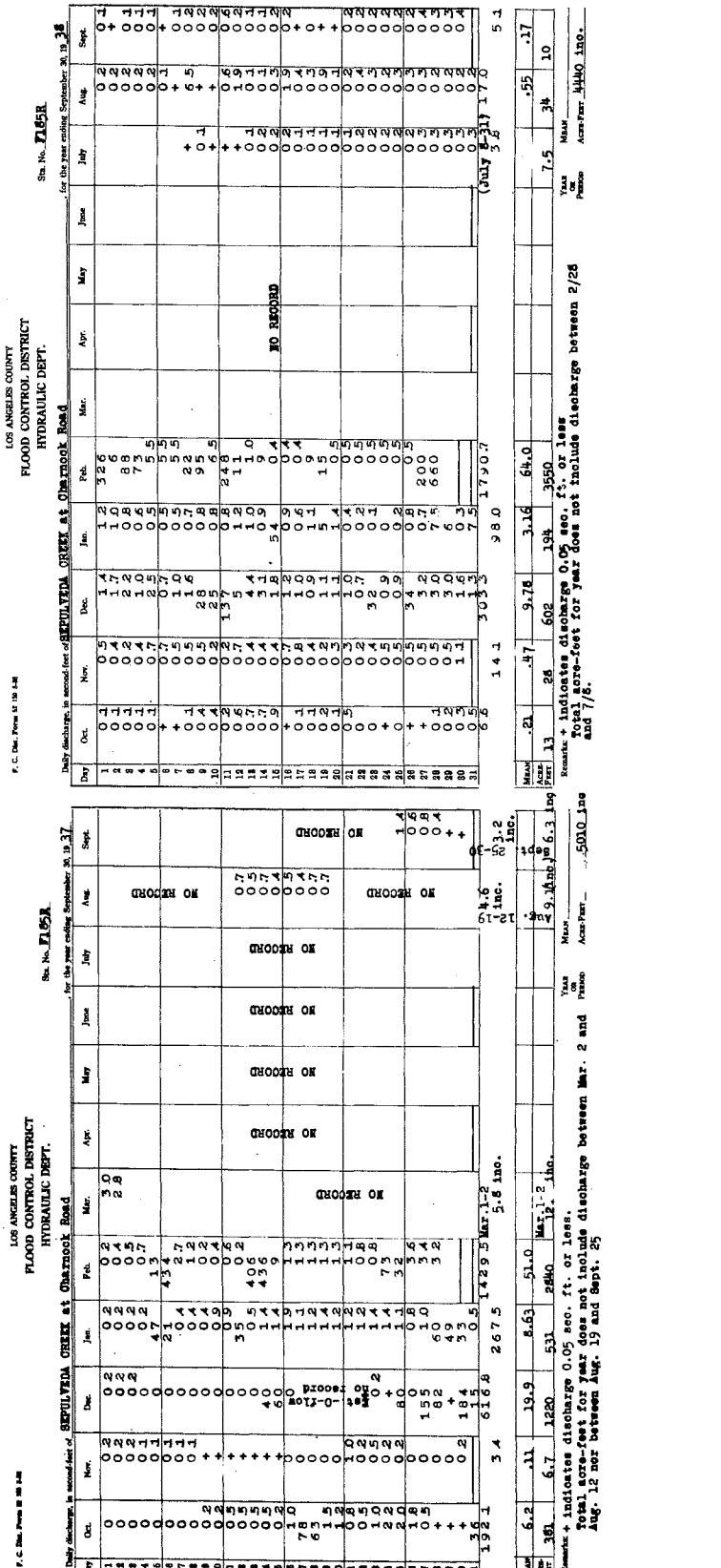
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

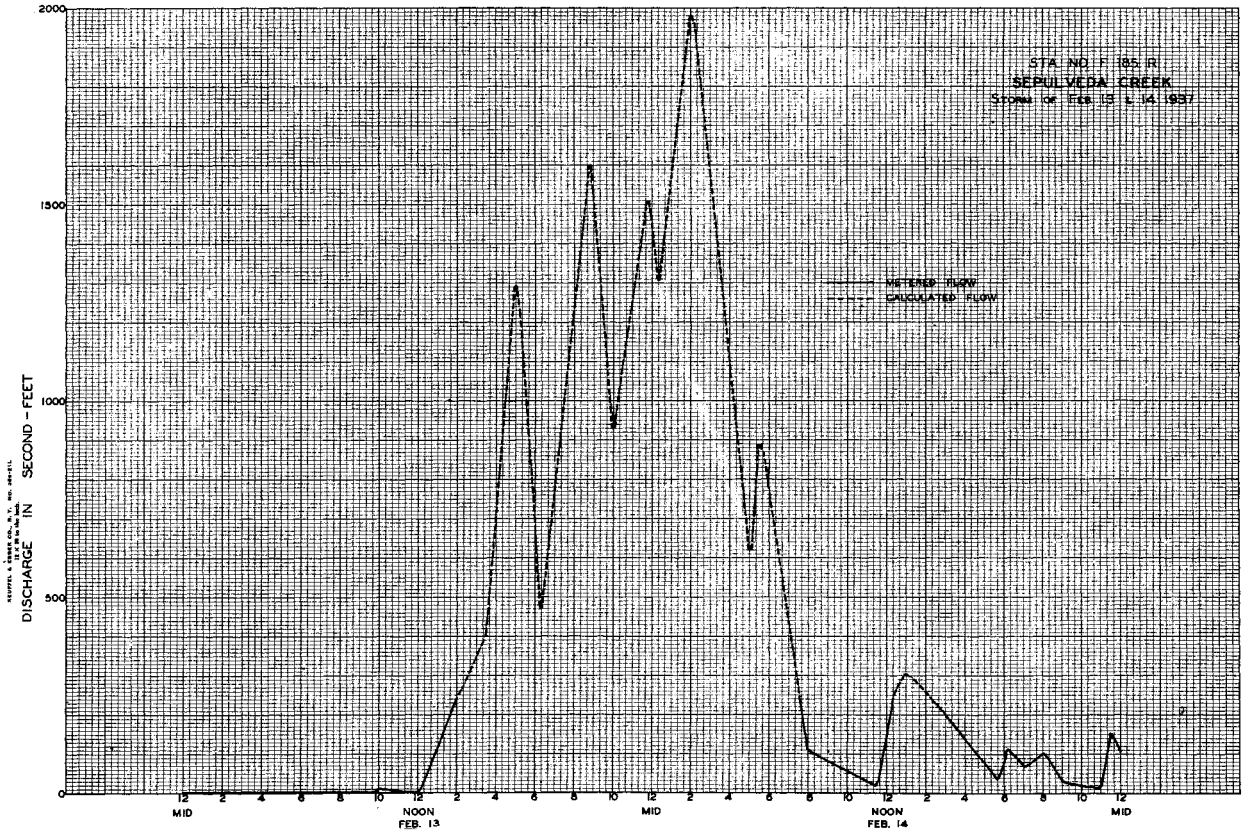
STATION NO. F 185 R

DISCHARGE MEASUREMENTS OF SEPULVEDA CREEK

AT ~~XISER~~ Charnock Road DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Factor (+)	WITH OD	MEAS. RECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
47	10/14	Prickett	1.5	.37	.76	1.94	.30		.6	2	0	240P 243P	FC 22
48	10/21	"	5.0	2.64	1.58	2.50	4.2		.6	5	0	305P 315P	"
49	11/4	"	3.0	.73	1.04	2.16	.80		.6	3	0	330P 335P	"
50	11/18	"	3.0	.61	1.00	2.14	.60		.6	4	0	315P 320P	"
51	12/2	"	3.5	1.37	1.24	2.15	1.7		.6	3	0	235P 240P	"
52	12/9	Prickett-Hall	6.0	8.70	4.71	2.72	32.		.6	6	+0.04	507P 518P	"
53	12/9	" "	16.0	14.85	4.86	3.27	72.		.6	6	-0.21	930P 940P	"
54	12/11	" "	3.0	60.6	4.67	4.92	284		.6	7	-0.15	1137A 1150A	"
55	12/16	Prickett	3.5	.90	1.18	1.54	1.1		.6	3	0	305P 310P	"
56	12/23	Prickett-Hall	5.5	1.67	1.19	1.85	2.0		.6	5	0	900A 905A	"
57	12/26	Carlson	8.0	4.00	3.05	2.18	12.		.6	6	-0.05	628P 638P	FC 12
58	12/30	Prickett	3.3	1.15	1.30	1.52	1.5		.6	3	0	500P 505P	FC 22
59	1/7	"	2.0	.49	1.12	1.48	.55		.6	4	0	135P 140P	"
60	1/13	"	3.5	1.03	1.07	1.51	1.1		.6	4	0	300P 305P	"
61	1/15	Prickett-Hall	31.	100.2	5.82	5.85	582		.6	6	+.70 -.30	900A 917A	"
62	1/20	Prickett-Bailey	3.8	.98	1.01	1.72	1.0		.6	4	0	310P 315P	"
63	1/28	Prickett	3.0	.62	.77	1.60	.50		.6	3	0	230P 234P	FC 21
64	1/29	Prickett-Hall	30.0	23.05	1.75	2.70	40.		.6	7	-0.16	1102A 1112A	FC 22
65	2/1	" "	35.0	143.7	6.29	7.01	905		.6	7	+0.23	115A 130A	"
66	2/1	" "	35.0	159.5	7.09	7.62	1130		.6	8	+0.27	138A 150A	"
67	2/3	" "	31.0	11.60	1.45	2.39	17.		.6	6	-.01	935A 942A	"
68	2/3	" "	28.0	14.30	1.80	2.50	26.		.6	6	+0.04	105P 115P	"
69	2/4	" "	30.0	26.7	2.87	3.09	77.		.6	6	-.02	835A 845A	"
70	2/4	" "	27.0	10.05	1.39	2.34	14.		.6	6	-.02	1130A 1137A	"
71	2/8	Carlson-Hall	22.5	29.55	4.23	3.33	125		.6	7	-.05	1125P 1145P	FC 22
72	2/9	Prickett-Kilen	36.0	150.0	6.32	7.10	943		.6	8	+.40	1120A 1140A	"
73	2/9	" "	35.5	130.	6.33	6.90	822		.6	8	-.80	1140A 1155A	"
74	2/10	" "	4.8	2.58	2.25	1.99	5.8		.6	6	-.02	600P 608P	"
75	2/11	" "	29.	60.2	3.81	4.63	229		.6	4	-.35	935A 950A	"
76	2/11	" "	28.	17.0	1.90	2.48	32.		.6	6	-.04	515P 527P	"
77	2/27	" "	33.	64.9	5.22	4.58	339		.6	7	-.40	1017A 1034A	"
78	2/27	Prickett-Carlson	30.	49.5	5.05	4.43	250		.6	7	-.03	105P 111P	"
79	2/27	" "	30.	37.0	4.85	3.85	157		.6	6	-.60	503P 509P	"
80	2/28	Prickett-Kilen	44.	192.9	8.09	8.78	1590		.6	8	-.95	825A 845A	"
81	2/28	" "	41.	163.3	7.90	8.15	1290		.6	8	-.30	848A 905A	"
82	2/28	" "	29.	25.55	2.64	2.83	67		.6	6	-.03	330P 345P	"
83	2/28	" "	44.	208.2	10.34	9.83	2090		.6	9	+.70	925P 945P	"
84	2/28	" "	44.	219.2	9.94	9.43	2180		.6	8	-.65	948P 1012P	"
85	3/2	" "	36.	137.3	7.01	6.90	965		.6	8	-.20	1235A 1245A	"
86	7/7	Bonadiman	2.	.25	.48	4.42	.12		.6	2	0	300P 302P	FC 40
87	7/21	Prickett	2.3	.24	1.06	4.48	.40		.6	4	0	550P 557P	FC 22
88	7/28	"	3.0	.55	1.00	4.44	.55		.6	4	0	100P 106P	"
89	8/4	"	1.8	.19	.79	4.38	.20		.6	2	0	1119A 1123A	"
90	8/11	"	11.0	3.64	1.18	4.58	4.3		.6	4	0	205P 213P	"
91	8/18	"	2.5	.51	1.02	4.26	.5		F1	3	0	605P 610P	
92	8/25	"				4.29	.6		F1			436P 436P	
93	9/1	Haig	2.5	.27	.69	4.29	.19		Sur	4	0	1212P 1217P	FC 38
94	9/8	"	3.5	.45	.58	4.31	.26		.6	4	0	340P 347P	"
95	9/15	Haig-Moon	1.8	.32	.60	4.27	.19		.6	4	0	255P 300P	FC 30
96	9/22	Moon	3.2	.45	.51	4.34	.23		.6	5	-.01	850A 900A	FC 22
97	9/29	"	3.2	.41	.56	4.33	.23		.6	6	0	810A 820A	"





STATION F44R

SYCAMORE LOWER STORM DRAIN at Adams Square

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 by 10 feet deep (at station) 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 130 feet below station.

RECORDER:

Installed December 15, 1927 underground over a concrete well.
An H.C.F. continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 15, 1927 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 365 second-feet December 27.
Minimum no flow at various times.
1937-1938
Maximum 2800 second-feet, estimated, March 2.
Minimum no flow at various times.
1927-1938
Maximum 2800 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

1936-1937 - Fair.
Clock stopped: November 5 to 11, December 31, 1936; January 1 to 5, 13 to 19, 1937.
Well sanded: October 19, 1937.
No record: February 18 to 24, 1937, flow interpolated.
Clock stopped: for summer, June 6 to September 30, 1937, flow negligible.

OPERATION:

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

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, 19 37

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.	SHEET NO.	REAR. HEAD NO.	G. HT. CHANGE TOTAL	RECORD SHEET	WATER SHED
1	10/17	Irwin-Ransom	9.0	1.91	4.12	.24	7.9		6	7	0	1108A 1115A	FC 31
2	12/14	Ransom-Harper	9.0	4.09	8.69	.57	36.		6	4	-.11	820P 848P	FC 30
3	12/14	Ransom-Harper	9.0	3.77	7.10	.48	27.		6	6	+.01	919P 927P	"
4	12/15	" "	9.0	1.81	3.87	.24	7.0		6	5	-.03	1003A 1009A	FC 31
5	12/15	" "	9.0	1.67	3.58	.22	6.0		6	4	-.01	1010A 1014A	"
6	12/15	" "	9.0	4.92	9.66	.60	48.		6	6	-.05	1053A 1103A	"
7	12/27	" "	9.0	6.53	10.94	.96	72.		6	4	-.08	956P 1004P	"
8	12/27	" "	9.0	5.97	11.74	.86	70.		6	6	-.05	1008P 1015P	"

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, 19 37

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. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
9	12/30	Ransom-Speer	9.0	7.51	12.39	1.06	93.		.6	6	-.13	505P 521P	"
10	12/30	" "	9.0	7.26	11.17	1.02	81.		.6	4	+.06 -.06	557P 609P	"
11	12/30	" "	9.0	7.06	9.63	.85	68.		.6	4	-.10	635P 644P	"
12	1/30	" "	9.0	3.76	7.50	.50	28.		.6	6	+.26	315P 324P	"
13	1/30	" "	9.0	6.97	9.68	.86	68.		.6	6	+.08 +.01	330P 337P	"
14	1/30	" "	9.0	6.03	9.08	.79	55.		.6	6	-.02	347P 353P	"
15	2/6	" "	9.0	12.16	12.98	1.51	158.		.6	6	+.01	839A 846A	"
16	2/6	" "	9.0	11.27	12.62	1.49	142.		.6	6	-.02	855A 900A	"
17	2/6	" "	9.0	11.54	13.04	1.32	150.		.6	5	-.03	920A 928A	"
18	2/6	" "	9.0	11.21	12.61	1.39	141.		.6	7	+.06	931A 941A	"

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, 19 38

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. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
19	2/3	Bollinger-Koch	9.0	1.99	4.85	.21	9.7		.6	7	-.02	1227P 1234P	FC 6
20	2/9	Burke-Fuller	9.0	10.55	11.8	1.23	124.		Ver Vel	7		1132A	Pitot
21	2/9	" "	9.0	6.21	7.94	.71	49.		Ver Vel	6	-.05	1154A 1205P	"
22	2/11	" "	9.0	14.75	14.65	1.63	216.		Ver Vel	6	-.40	1252P 101P	"
23	2/11	" "	9.0	6.79	8.91	.70	60.		Ver Vel	6	-.21	120P 130P	"
24	2/24	Bollinger	4.0	.20	1.85	.05	.37		Fl	2		1230P 1232P	
25	3/12	Bollinger-Koch	9.0	4.79	4.60	3.26	22.		.6	7	0	615A 625A	FC 6
26	3/31	Bollinger	1.8	.45	.20	4.40	.90			3	0	216P 222P	"
27	5/12	"	1.2	.14	2.12	4.64	.30		Fl	2	0	841A 845A	

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F 44 R

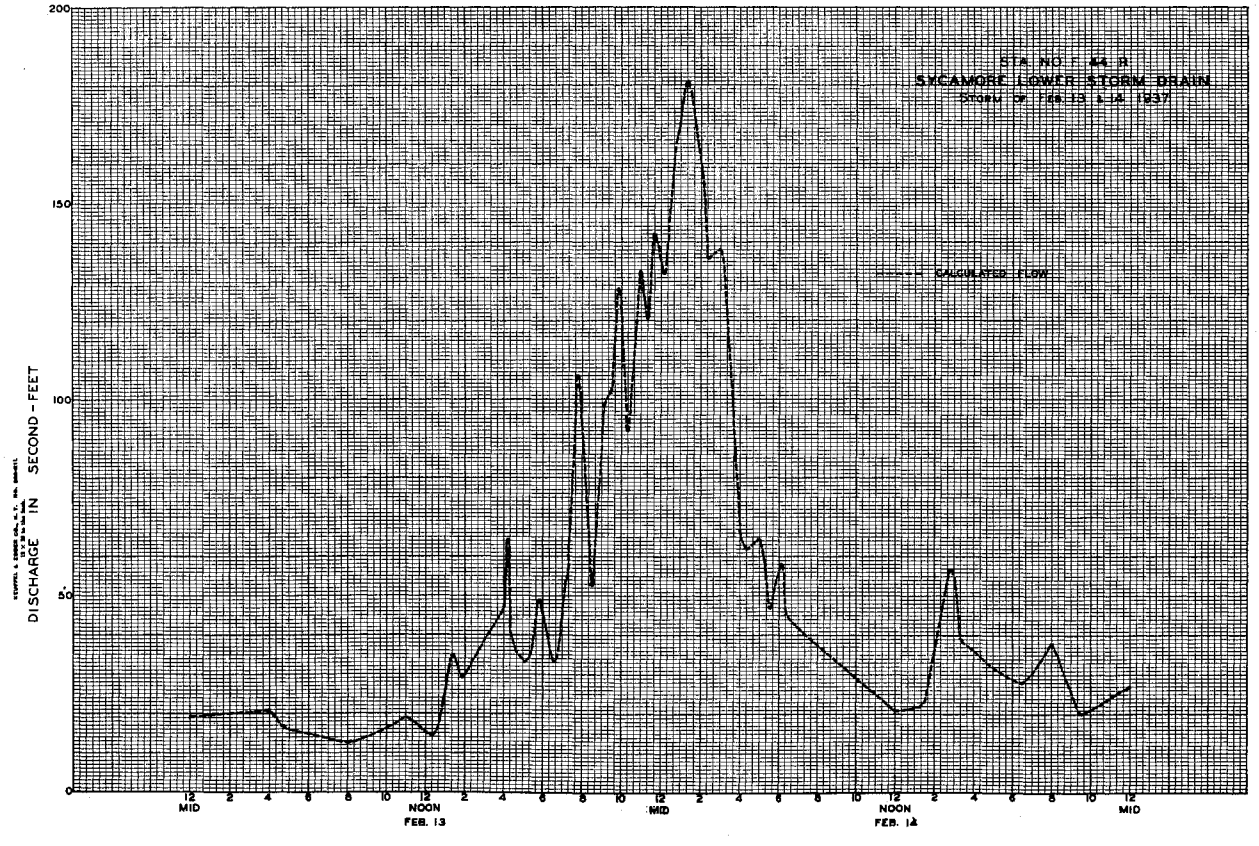
Daily discharge, in second-feet of SYCAMORE LOWER STORM DRAIN at Adams Square for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.2	+	3.5	0.5	1.5	1.1	0.5	0.6			
2	0	0.2	+	3.5	0.5	1.9	1.0	0.6	0.6			
3	0	0.2	+	3.1	0.5	2.3	1.1	0.6	0.6			
4	0	0.2	0.3	2.7	0.6	1.9	1.1	1.5	0.6			
5	0	0.2	0.2	1.9	0.5	1.9	1.9	1.5	0.6			
6	0	0.3	0.2		4.5	1.9	2.3	1.5	0.6	Clock Stopped-no record		
7	0	0.3	0.2	0.5	1.5	1.5	1.5	1.1	0.6			
8	0	0.2	0.2	0.5	1.4	1.5	1.5	1.1	0.6			
9	0	0.1	0.1	0.5	1.6	1.5	1.1	0.6	0.6			
10	0	0	0	0.5	1.8	1.5	1.1	0.8	0.6			
11	0	0	0	0.5	1.8	1.1	0.8	0.8	0.6			
12	0	0	0	.7	1.8	1.5	0.8	0.8	0.6			
13	0	0	0	no record	1.4	2.7	0.8	0.8	0.6			
14	0	0	0	0.4	2.6	3.4	0.8	0.8	0.6			
15	0	0	1.9	0.4	2.3	1.2	1.1	0.5	0.5			
16	18	0	0	0.4	9.5	1.7	0.6	0.5	0.5			
17	8.5	0	0	0.4	9	1.6	0.6	0.5	0.5			
18	7.5	0	0	0.4	9	1.4	0.6	0.5	0.5			
19	0	0	0	0.4	8.5	4.0	0.5	0.5	0.5			
20	0	0	0	0.4	7.5	2.1	0.5	0.5	0.5			
21	0	0	0	0.5	7.5	4.5	0.4	0.5	0.6			
22	0	0	0	0.5	7	1.0	0.5	0.5	0.6			
23	0	0	0	0.5	11	4.0	0.4	0.5	0.6			
24	0	0	0	0.5	2.7	3.1	0.5	1.9				
25	0	+	+	0.5	2.3	4.0	0.5	0.8				
26	0	+	+	0.5	1.9	4.0	0.6	0.6				
27	0	+	+	0.5	5.6	2.3	0.6	1.9				
28	0	+	+	0.5	1.1	4.0	0.6	0.8				
29	0	+	+	0.5	1.8	2.3	1.1					
30	1.0	+	+	0.4	1.7	1.1	1.1					
31	1.6			0.8	1.7		1.1					
	20.3	2.2	1.4	74.1	147.5	83.0	30.9	24.0	3.0			

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Mean	.65	.07	4.76		13.7	6.59	1.03	.77	June 1-5			
Acre-Feet	40	4.4	293	147	760	405	61	48	6.0			

Year or Period: Mean Acre-Feet 1760 1 mo.

Remarks: + indicates flow 0.05 sec. ft. or less.
Total acre-feet for year does not include discharge for Jan. 13, from June 5 to Sept. 30.



STATION F54R

TOPANGA CREEK at highway bridge 2 mile above mouth

LOCATION:

On downstream end of west (right) 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 21 inch diameter corrugated iron pipe stilling well within a secondary well.
An H.C.F. continuous recorder was in service from October 1, 1936 to September 30, 1938.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 1, 1930 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 1130 second-feet March 15.
Minimum not determined.
1937-1938
Maximum 9300 second-feet, estimated, March 2.
Minimum ♦ flow at various times.
1930-1938
Maximum 9300 second-feet, estimated, March 2. 1938.
Minimum no flow at various times.

ACCURACY:

Poor.
Communication uncertain at times.
Many days estimated.

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 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 54 R

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

at highway bridge 2 mi. above mouth DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
15	1/12	Carlson	19.5	10.61	1.24	2.34	13		.6	9	-.02	1155A 1205P	FC 12
16	1/13	Prickett-Haig	9.5	5.94	.95	2.12	5.6		.6	8	0	420P 427P	FC 22
17	1/20	Prickett	5.5	2.09	1.30	2.20	2.7		.6	5	0	340P 350P	"
18	1/30	Haig-Carlson	28.0	23.0	3.03	2.89	69		.6	6	-.02	1035P 1045P	FC 12
19	2/4	Prickett	5.5	1.33	.80	2.23	1.1		.6	5	0	210P 220P	FC 22
20	2/6	Carlson-Andren	33.0	50.4	6.74	4.18	340		.6	6	+.04	338P 358P	FC 12
21	2/8	Prickett	20.5	11.41	1.91	2.52	22		.6	10	0	215P 230P	FC 22
22	2/11	"	16.0	6.46	1.25	2.30	8.1		.6	6	0	115P 125P	"
23	2/13	Carlson-Andren	33.0	45.80	5.11	3.57	234.		.6	7	+.10	525P 546P	FC 12
24	2/14	" "	38.0	105.5	7.38	5.13	779		.6	7	-.46	325A 357A	"
25	2/15	Prickett-Haig	25.0	27.80	3.35	2.88	93.		.6	7	-.01	443P 450P	FC 22
26	2/18	Prickett	18.5	6.62	1.48	2.40	9.8		.6	6	0	625P 635P	"
27	2/25	Prickett-Haig	25.5	9.35	3.04	2.96	28		.6	8	+.02	1048A 1056A	"
28	2/25	Carlson-Andren	25.0	8.40	3.00	2.97	25		.6	13	+.02	420P 432P	FC 12
29	3/4	Haig-Prickett	18.0	3.24	1.90	2.68	6.2		.6	6	0	402P 410P	FC 22
30	3/12	Haig-Prickett	21.0	7.01	2.65	2.58	19		.6	7	0	211P 222P	"
31	3/13	" "	22.0	11.42	4.28	2.83	49		.6	9	-.02	900A 928A	"
32	3/15	Carlson-Andren	33.0	42.25	5.16	3.44	233		.6	7	-.05	1100P 1120P	FC 12
33	3/16	Haig-Prickett	21.0	20.63	2.46	2.81	53		.6	7	0	940A 954A	FC 22
34	3/18	Prickett	20.5	16.04	1.55	2.37	25		.6	7	0	130P 140P	"
35	3/22	Carlson-Andren	25.0	27.85	2.74	2.88	76.		.6	14	+.02	616A 635A	FC 12
36	3/22	Haig-Prickett	20.0	17.2	1.64	2.64	28		.6	9	+.05	1211P 1223P	FC 22
37	3/24	Carlson-Andren	22.5	22.68	2.23	2.68	51		.6	12	-.02	820P 835P	FC 12
38	3/25	Prickett	20.5	11.11	1.89	2.38	21		.6	6	0	1225P 1235P	FC 22
39	4/1	"	18.5	6.86	1.42	2.16	9.7		.6	7	0	1210P 1220P	"
40	4/8	"	16.0	6.62	.96	2.04	6.4		.6	6	0	1245P 1255P	"
41	5/20	"	4.0	1.79	.92	1.89	1.6		.6	4	0	300P 307P	"
42	6/10	"	5.0	1.02	.79	1.88	0.80		.6	4	0	435P 442P	"
43	9/2	"	2.0	.27	.55	1.85	0.13		Fl	2	0	310P 313P	

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 54 R

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

at highway bridge 2 mi. above mouth DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
44	10/7	Prickett	1.3	.09	.55	1.78	0.05		Fl	3	0	355P 358P	
45	10/14	"	1.3	.13	.54	1.80	0.07		Fl	2	0	435P 438P	
46	10/28	"	1.3	.09	.55	1.82	0.05		Fl	3	0	455P 500P	
47	11/4	"	1.3	.09	.56	1.82	0.05		Fl	3	0	225P 230P	
48	11/18	"	1.3	.09	.55	1.83	0.05		Fl	3	0	200P 205P	
49	12/2	"	1.5	.11	.54	1.90	0.06		Fl	3	0	1245P 1250P	
50	12/9	Prickett-Hall	4.5	1.05	.64	1.97	0.65		.6	5	0	427P 432P	FC 22
51	12/11	" "	16.0	5.40	1.27	2.20	6.9		.6	5	-.01	930P 937P	"
52	12/13	" "	3.0	.53	.89	1.87	0.47		.6	4	0	450P 454P	"
53	12/16	Prickett	2.0	.38	.87	1.83	0.33		.6	4	0	435P 440P	"
54	12/23	Hall-Prickett	3.5	.45	1.36	1.94	0.60		.6	6	0	1240P 1245P	"
55	12/30	Prickett	3.5	.83	.82	1.87	0.70		.6	5	0	335P 340P	"
56	1/7	"	2.5	.37	.54	1.82	0.20		.6	4	0	1210P 1215P	"
57	1/13	"	2.0	.35	.66	1.88	0.23		.6	4	+.01	345P 350P	"
58	1/20	Prickett-Bailey	2.0	.42	.84	1.83	0.35		.6	4	0	140P 145P	"
59	1/28	Prickett	2.3	.40	.62	1.86	0.25		Sht	4	0	105P 108P	FC 21
60	2/1	Prickett-Hall	40.0	47.00	7.65	4.33	360.		.6	7	-.06	640A 650A	FC 22
61	2/1	" "	35.0	39.35	5.94	3.97	234.		.6	8	+.02	727A 746A	"

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 54 R

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

at highway bridge 2 mi. above mouth DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/18	Prickett	28.5	22.69	3.09	2.72	70.		.6	11	-.04	500P 515P	FC 22
2	10/22	"	3.0	.81	.81	2.08	0.65		.6	3	0	336P 340P	"
3	12/3	"	2.0	.23	.78	2.04	0.15		Fl	4	0	400P 405P	"
4	12/15	Prickett-Haig	14.0	4.36	1.37	2.32	6.0		.6	4	0	1127A 1131A	"
5	12/17	Prickett-Hunt	3.5	.58	.34	2.14	0.20		Sur	4	0	230P 235P	"
6	12/26	Carlson	14.0	3.95	1.67	2.28	6.6		.6	8	-.01	700A 712A	FC 12
7	12/27	Prickett-Haig	31.0	37.5	6.51	3.86	244		.6	7	-.05	842A 850A	FC 22
8	12/27	Carlson-Andren	24.0	15.35	2.52	2.71	39		.6	9	0	1235P 1245P	FC 12
9	12/28	" "	24.5	39.57	2.50	3.09	99		.6	9	-.02	1233A 1245A	"
10	12/28	Haig	21.0	9.9	1.24	2.36	12		.6	7		450P 505P	FC 22
11	12/30	Carlson-Andren	34.0	61.2	8.95	4.59	548			7	-.02	1020P 1043P	FC 12
12	1/5	" "	22.0	13.75	1.81	2.56	25		.6	9	-.03	835P 846P	"
13	1/6	" "	21.0	12.53	1.54	2.43	19		.6	10	-.01	958A 1011A	"
14	1/6	Haig-Prickett	19.0	7.62	.98	2.27	7.5		.6	9	0	312P 328P	FC 22

F. C. D. FORM 104 1M 8-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 54 R

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

~~at~~ highway bridge 2 mi. above mouth DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Eff.	METH-OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
62	2/2	Hall	6.0	1.78	1.46	3.82	2.6		.6	6	+.01	513P 528P	"
63	2/3	Prickett-Hall	38.0	24.5	5.80	4.64	142.		.6	7	-.01	1035A 1042A	"
64	2/3	" "	39.0	21.65	6.34	4.66	137.		.6	7	-.01	1125A 1137A	"
65	2/3	" "	44.0	70.05	9.48	5.51	664.		.6	8	+.21 -.08	350P 410P	"
66	2/3	" "	44.0	59.00	8.43	5.40	497.		.6	8	-.19	412P 430P	"
67	2/3	" "	42.0	50.30	7.71	5.15	388.		.6	8	-.03	450P 505P	"
68	2/3	Prickett-Hall	40.0	45.60	7.31	5.12	333.		.6	8	-.03	505P 518P	FC 22
69	2/3	" "	32.0	26.4	6.20	4.37	164.		.6	5	0	755P 805P	"
70	2/3	" "	26.0	19.18	4.41	4.21	85.		.6	5	-.02	1010P 1017P	"
71	2/3	" "	25.0	16.39	4.20	4.10	69.		.6	5	0	1105P 1113P	"
72	2/4	" "	24.0	22.61	5.09	3.94	115.		.6	6	0	917A 924A	"
73	2/4	" "	24.0	22.35	4.80	3.74	107.		.6	5	-.03	953A 1000A	"
74	2/9	Carlson-Hall	17.0	4.65	.95	2.94	4.4		.6	7	0	110A 122A	"
75	2/9	Prickett-Kilen	23.0	24.2	5.72	3.60	155.		.6	5	-.05	120P 130P	"
76	2/9	" "	25.0	22.7	4.18	3.51	95.		.6	5	-.02	158P 210P	"
77	2/9	" "	25.0	21.0	4.26	3.44	89.		.6	5	-.01	235P 244P	"
78	2/10	" "	19.5	9.75	1.68	3.09	16.		.6	6	0	311P 316P	"
79	2/11	" "	40.0	114.5	10.18	5.76	1170.		.6	8	+1.70 -.22	1210P 1240P	"
80	2/11	" "	50.0	139.0	10.00	6.04	1390.			10	-.28	1240P 105P	"
81	2/11	" "	45.0	110.8	8.46	5.71	937.		.6	9	-.38	106P 135P	"
82	2/11	" "	41.0	50.8	7.45	4.43	379.		.6	7	-.08	310P 330P	"
83	2/27	Prickett-Carlson	21.0	10.22	2.12	3.09	22.		.6	5	0	305P 309P	"
84	2/28	Prickett-Kilen	45.0	108.5	10.35	5.65	1120.		.6	9	-.10	1105A 1126A	"
85	2/28	" "	45.0	103.0	9.24	5.54	952.		.6	9	-.08	1138A 1155A	"
86	2/28	" "	43.0	80.5	8.38	5.39	675.		.6	8	-.22	1155A 1218P	"
87	2/28	" "	41.0	81.5	6.85	5.02	558.		.6	8	-.12	1253P 110P	"
88	2/28	" "	38.5	61.5	7.37	4.78	453.		.6	7	-.21	118P 141P	"
89	3/1	" "	54.0	143.5	11.77	8.50	1690.		.6	6	-.10	255A 315A	"
90	3/1	" "	50.0	106.7	9.53	8.24	1020.		.6	9	-.17	335A 400A	"
91	3/2	" "	74.0	341.5	14.84	8.89	5070.		.6	10	-.58	1045A 1115A	"
92	3/3	Prickett-Kilen	37.0	72.20	4.10	4.36	295.		.6	6	-.03	915A 945A	FC 22
93	3/10	Prickett	16.0	18.40	1.72	2.11	32.		.6	4	0	515P 525P	"
94	3/12	Prickett-Kilen	35.0	74.7	3.32	3.69	248.		.6	6	+.04	810A 822A	"
95	3/13	" "	37.0	83.90	3.72	3.90	312.		.6	8	-.04	745A 800A	"
96	3/17	Prickett	16.0	11.22	1.60	2.25	18.		.6	6	0	455P 505P	"
97	3/24	"	12.0	11.40	1.73	1.92	20.		.6	4	0	525P 532P	"
98	3/31	"	9.0	4.06	1.31	1.68	5.3		.6	5	0	520P 528P	"
99	4/7	"	9.0	3.68	1.39	1.58	5.1		.6	4	0	210P 218P	"
100	4/14	"	9.0	3.60	1.35	1.54	4.9		.6	4	0	425P 430P	"
101	4/21	"	7.0	2.57	1.33	1.49	3.4		.6	4	0	330P 335P	"
102	4/28	"	7.0	2.85	1.50	1.58	4.3		.6	4	0	450P 455P	"
103	5/5	"	6.5	2.26	1.34	1.58	3.0		.6	4	0	408P 415P	"
104	5/12	"	7.0	2.31	1.28	1.55	3.0		.6	4	0	405P 412P	"
105	5/19	"	6.0	1.69	1.31	1.48	2.2		.6	4	0	430P 437P	"
106	5/20	"	6.0	1.95	1.34	1.47	2.6		.6	4	0	445P 452P	"
107	6/2	"	5.5	1.69	1.24	1.45	2.1		.6	4	0	320P 328P	"
108	6/30	"	5.0	1.09	1.04	1.43	1.1		.6	3	0	305P 312P	"
109	7/21	"	4.0	.72	.93	1.45	0.65		.6	4	0	450P 456P	"
110	8/18	"	4.0	.73	.87	1.46	0.60		F1	4	0	400P 408P	"
111	9/1	Haig	Two	Channels		1.45	0.10		Sur	5	0	1030A 1040A	FC 38
112	9/16	Haig-Moon	2.3	.37	.27	1.44	0.10		Sur	4	0	1220P 1225P	"

F. C. Dist. Form 92 100 8-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F54R

Daily discharge, in second-feet of TOPANGA CREEK at highway bridge 2 mi. above mouth for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	16	10	10	10	22	16	1	1	1
2	+	+	+	9	20	9.5	12	22	14	1	1	1
3	+	+	+	9	14	6.5	12	24	14	1	1	1
4	+	+	+	14	14	6.5	10	24	12	1	1	1
5	+	+	+	14	14	9.5	9.5	24	12	1	1	1
6	+	+	+	14	195	9	9	32	12	+	+	+
7	+	+	+	12	62	8	8	32	12	+	+	+
8	+	+	+	10	25	8.5	7	32	10	+	+	+
9	+	+	+	10	14	9.5	5.5	34	10	+	+	+
10	+	+	+	11	11	9.5	5	34	9.9	+	+	+
11	+	+	+	11	9.5	12	5	28	9.7	+	+	+
12	+	+	+	11	9.5	17	5	28	9.7	+	+	+
13	+	+	+	17	9	9.6	5	30	9.7	+	+	+
14	+	+	+	54	106	14	4.7	30	9.7	+	+	+
15	+	+	+	22	413	13	4.4	34	9.7	+	+	+
16	0.1	+	+	10	136	10	3.6	34	9.7	+	+	+
17	0.2	+	+	4.5	27	84	3.2	32	9.7	+	+	+
18	2.4	+	+	3.3	13	41	2.6	32	9.7	+	+	+
19	9.5	+	+	3.2	8.6	26	2.6	30	9.6	+	+	+
20	3.6	+	+	3.1	6	16	2.6	30	9.6	+	+	+
21	2.0	+	+	2.8	3.9	13	2.6	32	9.5	+	+	+
22	0.5	+	+	3.2	3.4	9.	16	34	9.5	+	+	+
23	0.5	+	+	3.2	3.4	9.	15	34	9.5	+	+	+
24	0.5	+	+	3.2	3.4	9.	13	34	9.4	+	+	+
25	0.7	+	+	3.2	3.4	9.	12	34	9.4	+	+	+
26	0.9	+	+	3.2	3.4	9.	11	34	9.4	+	+	+
27	0.9	+	+	3.2	3.4	9.	11	34	9.4	+	+	+
28	0.6	+	+	3.2	3.4	9.	11	34	9.4	+	+	+
29	0.6	0.2	+	3.2	3.4	9.	11	34	9.4	+	+	+
30	1.0	0.2	+	3.2	3.4	9.	11	34	9.4	+	+	+
31	1.4		+	3.2		9.	11	34		+	+	+
	47.5	3.2	33.6	772.3	1164.7	749.0	1422	890	221	0.9	2.3	2.0

Ret. mean for period=2.6

	Mean	Acre-Feet
	1.53	94
	.11	6.3
	10.9	672
	24.9	1530
	41.6	2310
	24.2	1490
	4.74	282
	2.87	177
	.74	44
	.03	1.8
	.07	4.6
	.07	4.0
		9.13

Year or Period: Mean 6620

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

F. C. Dist. Form 92 100 8-28

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F54R

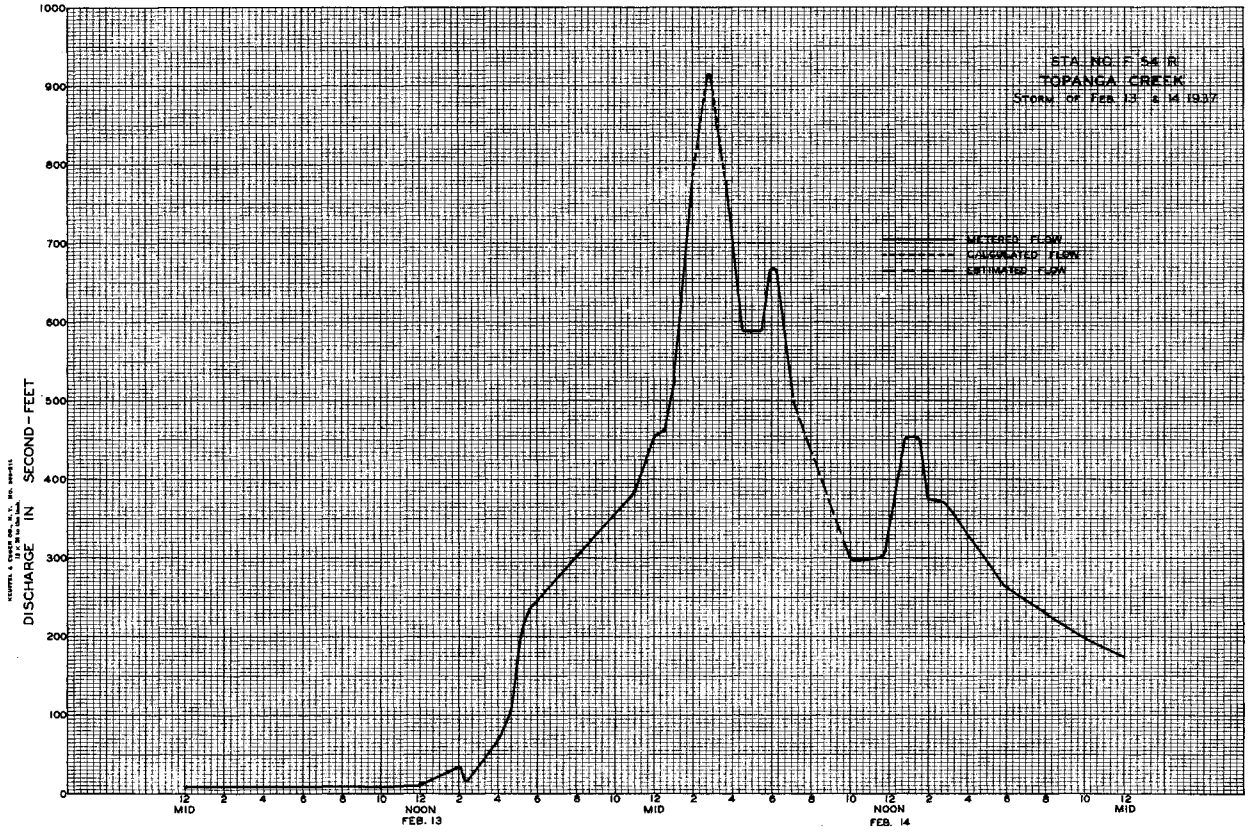
Daily discharge, in second-feet of TOPANGA CREEK at highway bridge 2 mi. above mouth for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0.1	0.6	213	631	6	5	2.0	0.7	0.6	0.2
2	+	+	0.1	0.6	31	327	5.5	4.6	2.0	0.7	0.6	0.2
3	+	+	0.1	0.5	13.5	284	5.5	3.4	2.0	0.7	0.6	0.2
4	+	+	0.1	0.5	8.6	117	5.5	3.4	1.8	0.7	0.6	0.2
5	+	+	0.1	0.4	4.8	63	5.5	3.2	1.8	0.9	0.6	0.2
6	+	+	0.1	0.3	3.1	46	4.8	2.4	1.6	0.7	0.7	0.3
7	+	+	0.1	0.2	1.8	36	5	2.2	1.5	0.7	0.9	0.3
8	+	+	0.1	0.2	1.9	33	5.5	2.2	1.5	0.7	0.9	0.3
9	+	+	0.1	0.1	1.6	33	5.5	2.2	1.5	0.9	0.9	0.3
10	+	+	0.9	0.1	1.6	49	5.5	2.2	1.5	0.9	0.9	0.3
11	+	+	4.0	0.2	239	213	6	2.4	1.3	0.9	0.9	0.3
12	+	+	0.5	0.2	147	209	6	2.4	1.3	1.1	0.7	0.3
13	+	+	0.3	0.2	63	81	6.8	2.4	1.3	1.1	0.7	0.3
14	+	+	0.3	0.2	26	33	4.8	2.4	1.3	1.1	0.7	0.3
15	+	+	0.2	0.2	17	24	3.4	2.6	1.3	1.1	0.6	0.3
16	0.1	+	0.2	0.3	5	21	3.4	2.6	1.3	1.1	0.6	0.3
17	0.2	+	0.2	0.3	4.8	22	3.4	2.6	1.3	1.1	0.6	0.3
18	2.4	+	0.2	0.3	5	22	3.4	2.6	1.3	1.1	0.6	0.3
19	9.5	+	0.2	0.3	4.1	22	3.4	2.6	1.3	1.1	0.6	0.3
20	3.6	+	0.2	0.3	4.1	23	3.4	2.9	1.3	1.1	0.6	0.3
21	2.0	+	0.3	0.3	3.9	23	3.4	2.9	1.3	1.1	0.5	0.3
22	0.5	+	0.1	0.3	3.6	23	3.2	2.9	1.3	1.1	0.5	0.3
23	0.5	+	0.1	0.3	3.6	21	2.9	2.9	1.3	1.1	0.5	0.3
24	0.5	+	0.1	0.3	3.3	21	2.9	2.9	1.3	1.1	0.5	0.3
25	0.7	+	0.1	0.3	1.9	16	2.9	2.9	1.3	1.1	0.5	0.3
26	0.9	+	0.1	0.2	1.9	16	2.9	2.9	1.3	0.9	0.5	0.3
27	0.9	+	0.1	0.3	1.5	13	2.9	2.9	1.3	0.9	0.5	0.3
28	0.6	+	0.1	0.3	1.2	11	2.9	2.9	1.3	0.9	0.5	0.3
29	0.6	0.2	0.1	0.3	1.2	10	2.9	2.9	1.3	0.9	0.5	0.3
30	1.0	0.2	0.1	0.3	1.2	10	2.9	2.9	1.3	0.9	0.5	0.3
31	1.4		0.1	0.3		10	2.9	2.9		0.9	0.5	0.3
	41.1	1.0	10.2	8.2	745	1902.7	135.8	80.2	39.1	26.1	16.7	9.3

	Mean	Acre-Feet
	.03	1.6
	.02	1.0
	.53	33
	.39	24
	68.0	3770
	177	10880
	4.53	269
	2.59	159
	1.30	78
	.86	53
	.54	33
	.14	8.1
		21.2

Year or Period: Mean 15310

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


STA NO F 54 R
TOPANGA CREEK
Storm of Feb. 13 & 14 1937
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND-FEET
1000
900
800
700
600
500
400
300
200
100
0
12 MID
2
4
6
8
10
12 NOON
FEB. 13
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON
FEB. 14
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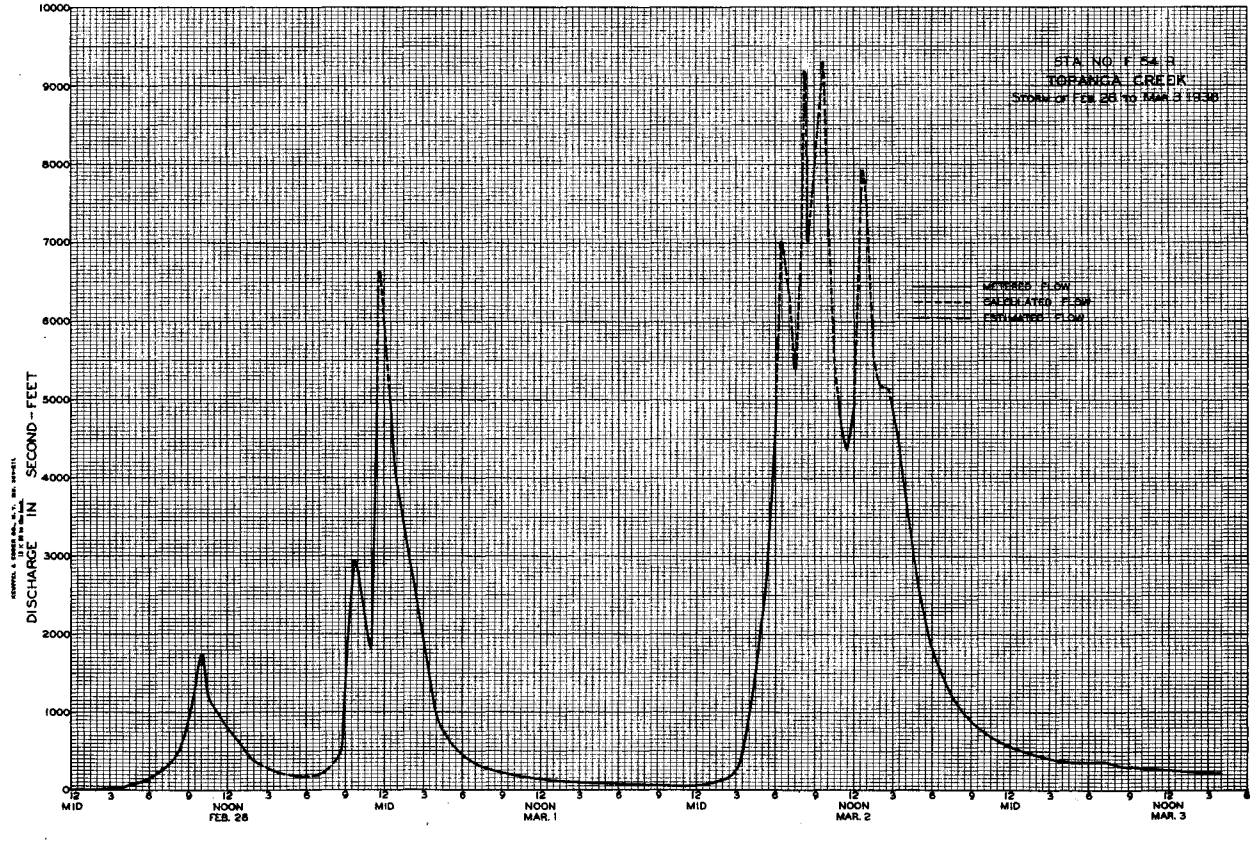
4
6
8
10
12 MID


STA NO F 54 R
TOPANGA CREEK
Storm of Feb 26 to Mar 3 1938
METERED FLOW
CALCULATED FLOW
ESTIMATED FLOW
DISCHARGE IN SECOND-FEET
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
12 MID
3
6
9
12 NOON
FEB. 26
3
6
9
12 MID
3
6
9
12 NOON
MAR. 1
3
6
9
12 MID
3
6
9
12 NOON
MAR. 2
3
6
9
12 MID
3
6
9
12 NOON
MAR. 3
3
6

STATION F252R

VERDUGO CHANNEL at Estelle Avenue

LOCATION:

On north (right) side of Verdugo Channel at Estelle Avenue, Glendale.

CHANNEL AND CONTROL:

Concrete channel 87 feet wide by 11 feet deep to bottom of invert.

DRAINAGE AREA:

22.4 square miles.

DISCHARGE MEASUREMENTS:

Low flows by wading.
High flows from cable car 41 feet above station.

RECORDER:

Installed December 2, 1935 in an F. C. standard type house over a 20 inch x 30 inch concrete well. A horizontal National recorder was in service from October 1 to 5, 1936.
An H.C.F. continuous recorder was in service from October 6, 1936 to September 30, 1938.

REGULATION:

Flow partially regulated by Verdugo and other Debris Basins.

DIVERSIONS:

Several diversions for domestic water supply and irrigation.

RECORDS AVAILABLE:

December 2, 1935 to September 30, 1938.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 760 second-feet December 27.
Minimum no flow at various times.
1937-1938
Maximum 4400 second-feet, estimated, March 2.
Minimum no flow at various times.
December 2, 1935 to September 30, 1938
Maximum 4400 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:
Fair.
Recorder out of order, no record, flow not determined, January 5 to 11, 13 to 19, 1937.
Recorder out of order part of day, flow estimated January 12, 1937.
Clock Stopped:
November 19 to 24; December 20 to 26, 1937.
Inlet to well sanded, flow estimated: March 3, 4, 5, 6, 7, 8, 1938, June 30 to July 27, 1938.

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 Department.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT
STATION NO. F 252 R

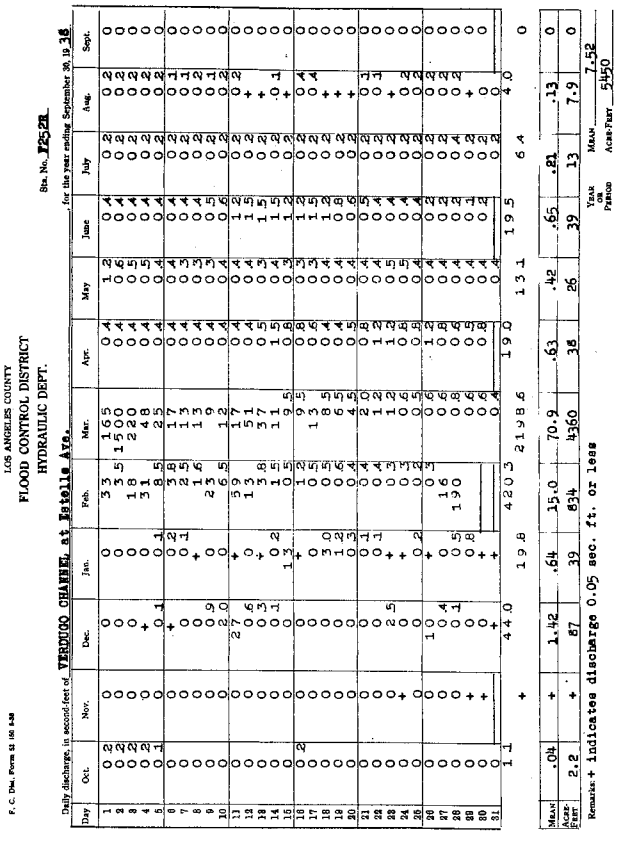
DISCHARGE MEASUREMENTS OF VERDUGO CHANNEL
Estelle Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

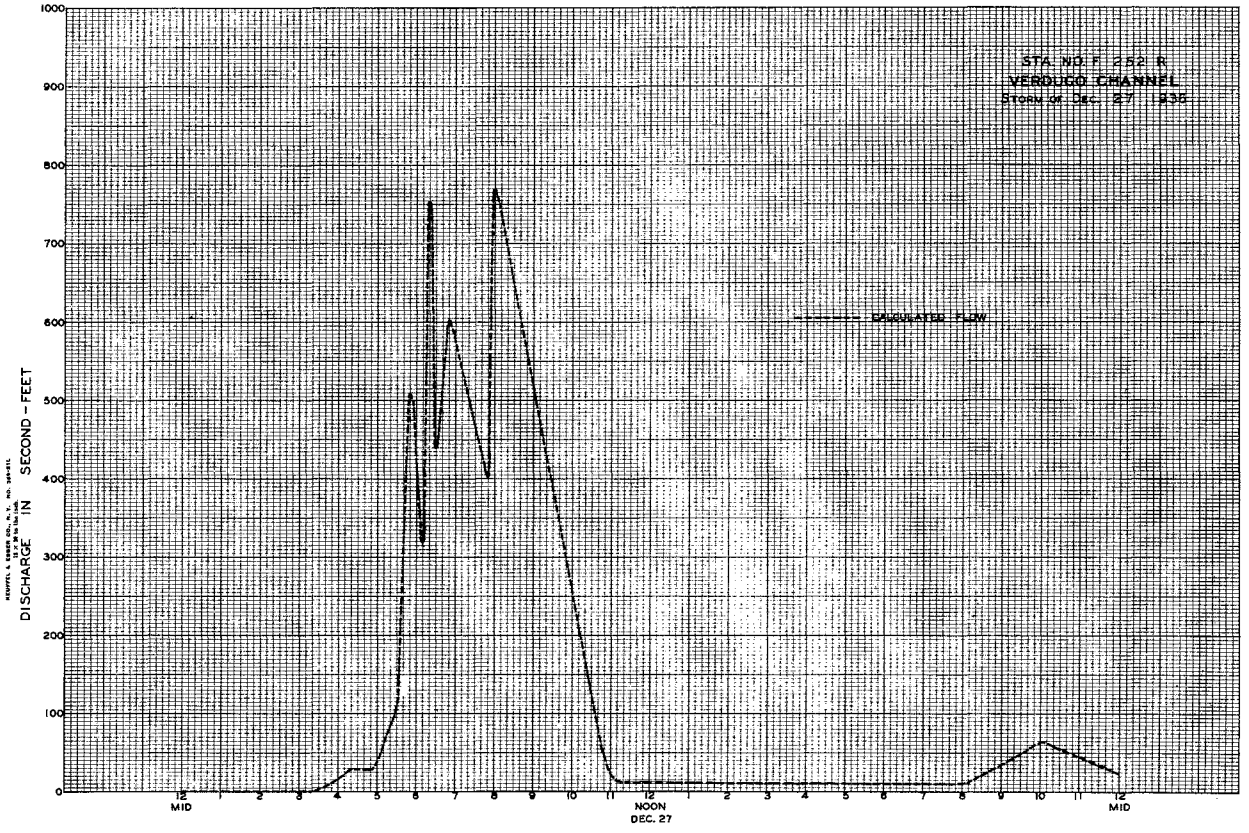
NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Adj.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/17	Irwin-Ransom	20.0	3.0	5.60	0.30	17.		.6	8	0	156P 204P	FC 31

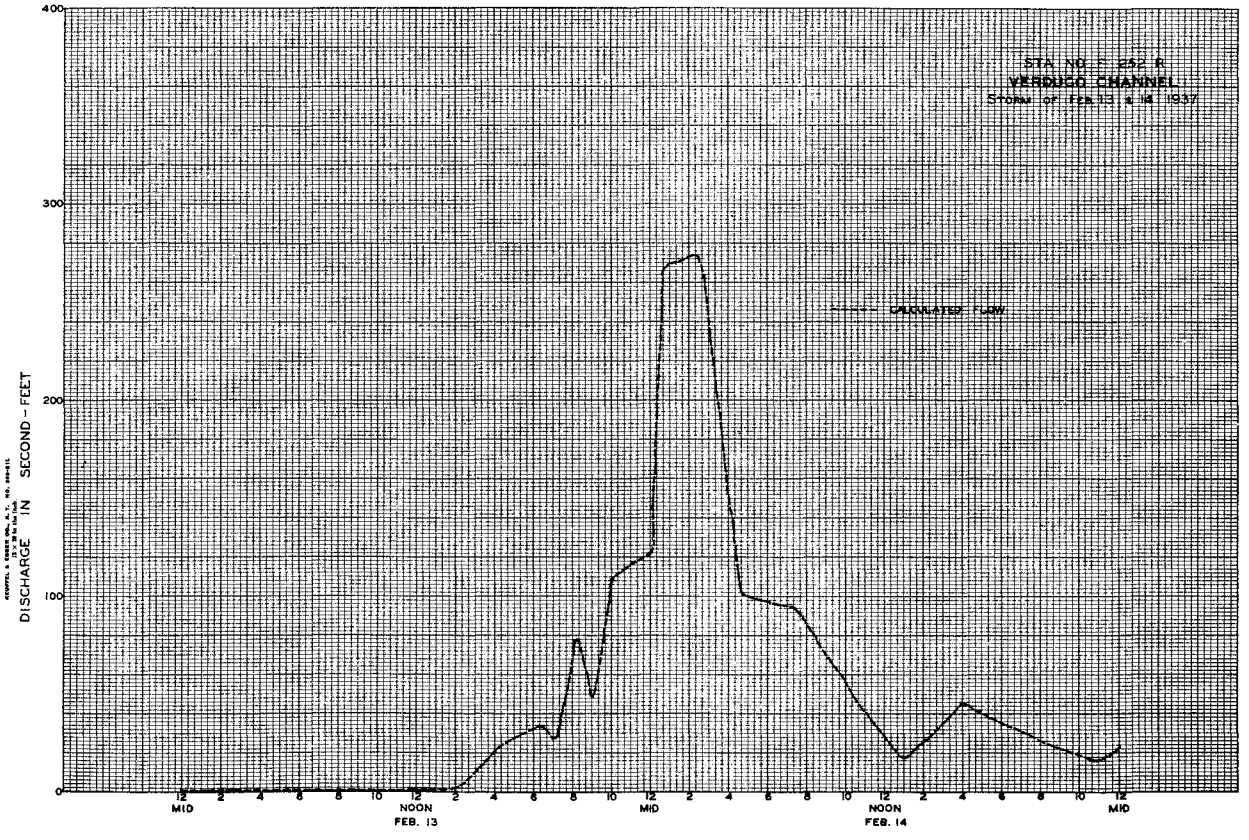
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT
STATION NO. F 252 R

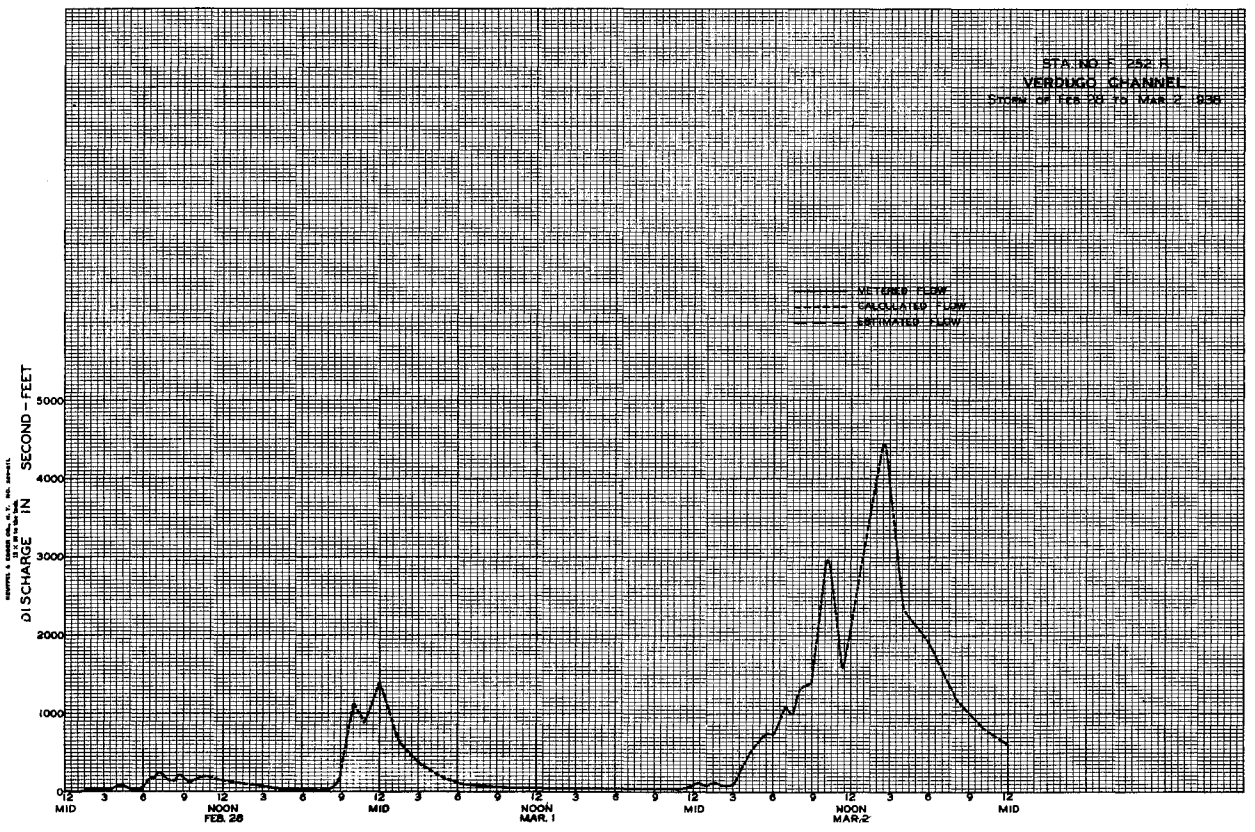
DISCHARGE MEASUREMENTS OF VERDUGO CHANNEL
Estelle Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Adj.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
2	12/26	Bollinger-Koch	21.5	2.75	6.79	.32	19.		.6	4	+.01	1050A 1053A	FC 6
3	2/2	Bollinger	10.5	1.64	4.58	.22	7.5		.6	4	-.05	338P 345P	"
4	2/4	Bollinger-Koch	26.5	4.67	7.72	.38	36.		.6	6	-.05	756A 801A	"
5	2/7	Bollinger	8.0	.64	3.95	.17	2.5		F1	2	0	237P	
6	2/11	Bollinger-Koch	38.0	12.14	7.61	.57	92.		F1	8	-.04	952A 1000A	
7	2/24	Bollinger	3.3	.10	2.30	.06	.23		F1	2	0	922A	
8	2/27	Bollinger-Koch	34.	8.82	11.0	.46	97.		F1	7	-.01	1109A 1113A	
9	2/28	" "	42.	14.11	7.77	.65	110.		F1	6	0	735A 738A	
10	3/17	Bollinger	9.0	1.08	4.34	0.28	4.7		F1	2	0	1240P 1244P	
11	4/14	"	4.0	.28	2.32	.14	.65		F1	2		933A	
12	4/29	"	2.0	.10	2.70	.10	.27		F1	2		400P 402P	
13	5/2	"	3.0	.15	1.87	.08	.28		F1	2		230P 234P	
14	6/16	"	5.5	.33	3.71	.13	1.2		F1	2		337P 340P	




STA NO F 252 R
VERDUGO CHANNEL
Storm of Dec. 27 1938
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
1000
900
800
700
600
500
400
300
200
100
0
12 MID
1 2 3 4 5 6 7 8 9 10 11
12 NOON
DEC. 27
1 2 3 4 5 6 7 8 9 10 11
12 MID


STA NO F 252 R
VERDUGO CHANNEL
Storm of Feb. 13 & 14 1937
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
400
300
200
100
0
12 MID
2 4 6 8 10
12 NOON
FEB. 13
2 4 6 8 10
12 MID
2 4 6 8 10
12 NOON
FEB. 14
2 4 6 8 10
12 MID



STATION F47R

WALNUT CREEK at Covina Blvd.

LOCATION:

On downstream end of first pier from south (left) end of highway bridge, about 2 miles 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:

99.0 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, 1928 in a standard F. C. type house over an 18 inch diameter, corrugated iron pipe stilling well.
A Rational 7 day horizontal recorder in service October 1, 1936, was replaced on November 22, 1937 with an H.C.F. continuous 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, 1928 to September 30, 1938.
(For records prior to December 15, 1928 see State Division of Water Rights Bulletins).

EXTREMES OF DISCHARGE:

1936-37
Maximum 1980 second-feet February 6.
Minimum no flow for several months.
1937-38
Maximum 4290 second-feet March 2.
Minimum no flow for several months.
1928-38
Maximum 8060 second-feet January 1, 1934.
Minimum no flow at times each 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 47 R

DISCHARGE MEASUREMENTS OF WALNUT CREEK

AT Covina Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	STA. NO.	MEAS. MADE NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/29	Brewster	28.0	9.32	1.66	2.13	16.		.6	7	-.02	905P 915P	FC 8
2	10/31	"	12.0	4.32	2.16	1.92	9.3		.6	6	-.01	730A 738A	"
3	10/31	"	8.0	3.14	1.65	1.86	5.2		.6	4	-.01	945A 951A	"
4	11/5	"	8.0	3.08	1.52	1.84	4.7		.6	4	0	335P 341P	"

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 47 R

DISCHARGE MEASUREMENTS OF WALNUT CREEK

~~AT~~ Covina Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH. OD	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
5	11/12	"	4.0	.71	.58	1.77	.41		.6	4	0	230P 236P	"
6	11/19	"	3.0	.35	.69	1.70	.24		.6	3	0	212P 216P	"
7	12/15	"	3.0	.45	1.04	1.77	.45		.6	3	-.01	730A 733A	"
8	12/15	"	14.0	5.12	1.82	1.94	9.3		.6	5	-.01	355P 401P	"
9	12/25	"	11.0	4.79	1.89	1.93	9.0		.6	6	+.02	730A 738A	"
10	12/27	"	39.0	33.01	2.72	2.48	90.		.6	10	-.06	1036A 1054A	"
11	12/27	"	8.0	3.44	1.94	1.96	6.7		.6	4	0	530P 536P	"
12	12/30	Brewster-Pettis	110.0	257.	4.66	4.54	1200.		.6	10	+.05	1040P 1105P	"
13	12/31	" "	113.0	139.4	3.88	3.56	542.		.6	12	-.04	315A 335A	"
14	12/31	" "	10.0	3.00	.61	2.09	1.8		.6	5	0	115P 120P	"
17	1/6	Brewster-Pettis	9.0	4.07	1.94	2.04	7.9		.6	5		610A 615A	"
18	1/6	" "	62.0	31.96	2.89	2.50	92.		.6	9		1000A 1020A	"
19	1/6	" "	10.0	4.75	1.89	2.06	9.0		.6	6		405P 411P	"
20	1/12	Brewster	3.0	.55	.82	2.00	.45		.6	3		930A 935A	"
21	1/14	"	1.0	.15	.87	1.96	.13		.6	2		307P 310P	"
22	1/30	"	66.0	34.36	2.77	2.50	95.		.6	9		615P 630P	"
23	1/31	"	8.0	2.02	1.16	2.05	2.4		.6	4		1005A 1011A	"
24	2/4	"	3.0	.49	1.10	1.98	.55		.6	3		305P 310P	"
25	2/6	Brewster-Pettis	104.0	113.0	3.56	3.22	402.		.6	11	+.27	955A 1010A	FC 8
26	2/6	" "	110.0	198.2	5.27	4.11	1050.		.6	9	+.02	330P 352P	"
27	2/6	" "	110.0	306.2	5.92	4.63	1720.		.6	10	-.34	655P 722P	"
28	2/6	" "	106.0	145.8	3.57	3.43	521.		.6	11	-.14	945P 1010P	"
29	2/7	" "	36.0	14.16	1.39	2.22	20.		.6	9	0	945A 955A	"
30	2/8	Brewster	14.0	4.88	1.53	2.10	7.5		.6	7	0	1040A 1050A	"
31	2/11	"	10.0	2.38	1.03	2.00	2.4		.6	5	0	330P 338P	"
32	2/13	Brewster-Pettis	110.0	156.1	4.34	3.66	677.		.6	9	+.12	945P 1010P	"
33	2/14	" "	110.0	259.0	5.22	4.35	1350.		.6	9	-.10	320A 352A	"
34	2/14	" "	102.0	116.2	3.76	3.23	436.		.6	11	-.06	815A 840A	"
35	2/14	" "	Two Channels			2.76	171.		.6	10	-.02	1055A 1115A	"
36	2/14	Brewster	Two Channels			2.32	30.		.6	8	0	410P 425P	"
37	2/15	"	8.0	2.28	1.56	2.02	3.6		.6	4	0	1145A 1151A	"
38	2/18	"	12.0	4.50	1.20	2.02	5.4		.6	6	0	305P 315P	"
39	2/25	"	23.0	12.26	1.83	2.29	22.		.6	8	4.02	220P 230P	"
40	3/11	"	4.0	.76	1.34	2.08	1.0		.6	4	+.01	340P 346P	"
41	3/12	"	21.0	8.47	1.65	2.18	14.		.6	5	0	1155A 1205P	"
42	3/13	"	80.0	72.72	3.18	2.78	231.		.6	10	+.05	635A 655A	"
43	3/13	"	Two Channels			2.60	164.		.6	9	-.10	915A 930A	"
45	3/15	Brewster-Pettis	110.0	217.6	5.06	4.10	1100.		.6	9	+.20	930P 948P	"
46	3/15	" "	102.0	112.1	4.60	3.30	516.		.6	10	-.20	1115P 1145P	"
47	3/16	Brewster	1.0	.19	.79	1.96	.15		.6	2	-.03	1046A 1049A	"
49	3/18	"	5.0	2.60	1.26	2.09	3.3		.6	5	0	220P 228P	"
50	3/22	Brewster-Pettis	91.0	55.46	2.91	2.72	161.		.6	12	+.01	900A 915A	"
51	3/22	Brewster-Pettis	32.0	26.96	2.71	2.52	73.		.6	8	-.04	405P 417P	FC 8
52	3/23	Brewster	3.0	.57	1.21	2.14	.70		.6	3	0	945A 950A	"
53	3/24	Brewster-Pettis	26.0	16.30	2.44	2.42	40.		.6	7	0	930P 942P	"

F.C.D. FORM 104 1M 9-37

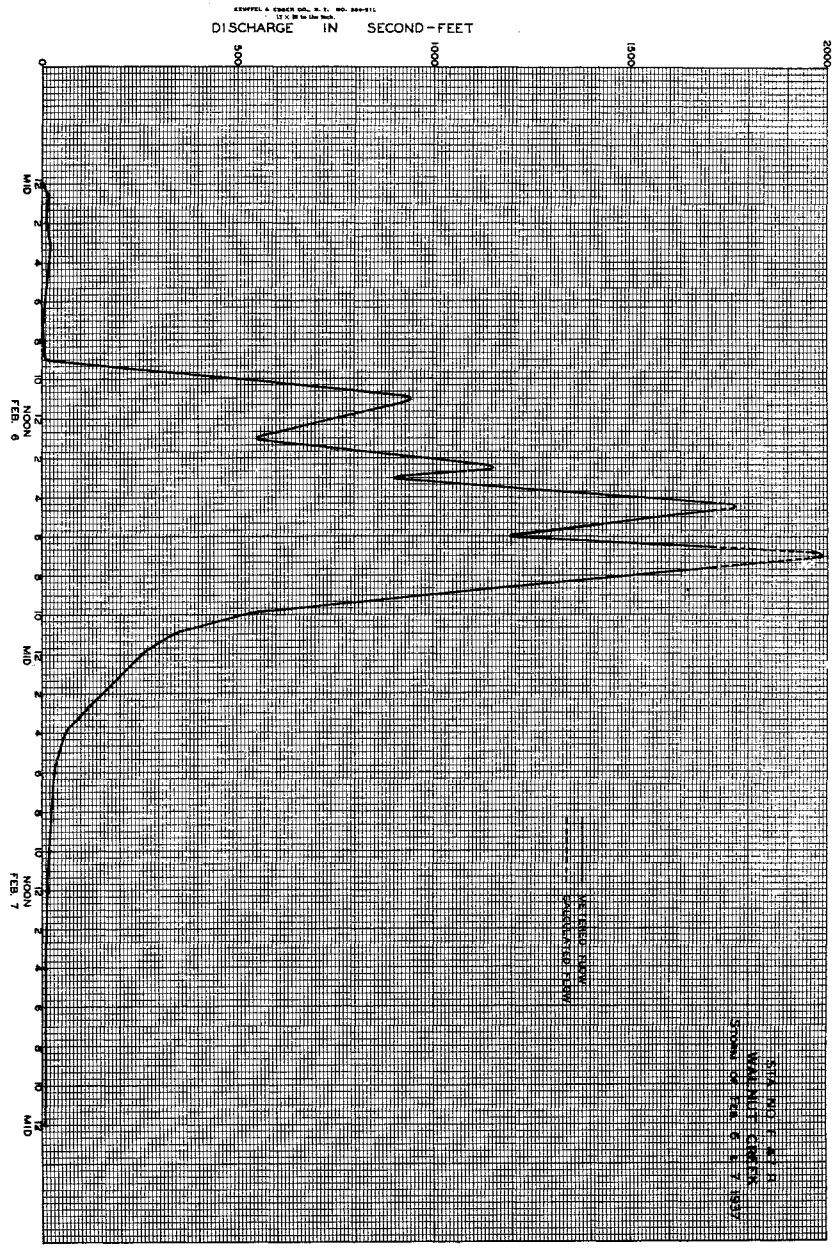
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 47 R

DISCHARGE MEASUREMENTS OF WALNUT CREEK

~~AT~~ Covina Blvd. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH. OD	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
54	12/11	Brewster-Pettis	35.0	33.91	2.00	2.54	68.		.6	9	-.01	710P 725P	FC 8
55	12/11	" "	44.0	39.55	2.63	2.65	103.		.6	11	-.02	850P 905P	"
56	12/23	Brewster	13.0	6.24	2.46	2.29	15.		.6	7	-.02	650A 700A	"
57	1/15	Brewster-Pettis	76.0	76.60	3.94	3.00	302.		.6	8	+.08	1210P 1230P	"
58	1/15	" "	18.0	9.99	1.67	2.19	17.		.6	6	-.02	347P 358P	"
59	1/19	Brewster	3.0	.52	.85	2.06	.44		.6	3	0	1031A 1035A	"
60	1/20	"	3.0	.56	.95	2.05	.55		.6	3	0	310P 315P	"
61	2/1	Brewster-Pettis	102.0	122.1	4.96	3.42	606.		.6	11	+.05	600A 620A	"
62	2/1	" "	94.0	102.2	4.53	3.23	463.		.6	10	-.06	720A 740A	"
63	2/1	Brewster	3.0	.50	.82	2.03	.41		.6	3	-.02	120P 123P	"
64	2/9	"	32.0	12.56	1.72	2.27	22.		.6	7	0	950A 1000A	"
65	2/9	Brewster-Pettis	95.0	84.60	4.21	3.06	356.		.6	10	-.09	300P 320P	"
66	2/11	" "	98.0	110.6	4.92	3.25	544.		.6	10	+.10	255P 310P	"
67	2/11	" "	68.0	51.04	2.45	2.61	125.		.6	7	-.02	620P 640P	"
68	2/27	" "	63.0	36.20	2.89	2.64	104.		.6	7	+.28	1230P 1242P	"
69	2/27	" "	60.0	36.95	2.42	2.61	89.		.6	7	-.02	245P 300P	"
70	2/27	Brewster	18.0	8.22	2.04	2.22	17.		.6	5	-.01	448P 455P	"
71	2/28	Brewster-Pettis	110.0	273.9	7.78	4.25	2130.		.6	10	+.30	940A 957A	"
72	2/28	" "	56.0	36.70	2.62	2.58	96.		.6	6	-.03	330P 345P	"
73	3/1	" "	110.0	369.8	8.38	5.20	3100.		.6	11	+.20	100A 130A	"
74	3/1	" "	28.0	22.24	2.44	2.37	54.		.6	7	-.02	1230P 1240P	"
75	3/2	" "	110.0	416.6	8.46	5.26	3530.		.6	11	+.08	715A 730A	"
76	3/2	" "	110.0	448.7	8.87	5.55	3980.		.6	11	-.10	1100A 1115A	"
77	3/2	" "	110.0	476.1	8.83	5.50	4200.		.6	11	0	345P 410P	"
78	3/2	Brewster-Pettis	110.0	280.1	7.19	3.93	2010		.6	11	-.14	1010P 1030P	FC 8
79	3/3	" "	114.0	175.0	5.34	3.05	934.		.6	12	-.10	830A 855A	"
80	3/3	" "	62.0	62.92	3.84	2.26	242.		.6	7	-.01	430P 440P	"
81	3/7	" "	21.0	10.02	2.75	1.95	28.		.6	7	0	1120A 1130A	"
82	3/10	Brewster	34.0	23.80	3.04	2.12	72.		.6	9	0	325P 340P	"
83	3/12	Brewster-Pettis	70.0	77.00	4.57	2.76	352.		.6	8	-.03	615A 627A	"
84	3/15	Brewster	24.0	21.00	3.51	2.11	74.		.6	7	0	230P 240P	"
85	3/17	"	31.0	29.60	2.43	2.03	72.		.6	8	0	400P 415P	"
86	3/24	"	34.0	27.10	2.87	2.06	78.		.6	9	0	110P 125P	"
87	3/31	"	5.0	1.80	.80	1.66	1.4		.6	5	0	145P 152P	"
88	4/7	"	1.5	.24	.79	1.56	.19		.6	3	0	1210P 1214P	"
89	4/14	"	4.0	1.05	1.17	1.66	1.2		.6	4	0	1210P 1216P	"
90	4/21	"	1.0	.14	.57	1.55	.08		.6	2	0	1055A 1100A	"
91	5/5	"	4.0	1.06	1.21	1.68	1.3		.6	4	0	215P 222P	"
92	5/18	"	1.5	.25	.52	1.60	.13		.6	3	0	955A 1000A	"
93	6/16	"	4.0	1.00	1.37	1.74	1.4		.6	4	0	730A 736A	"
94	7/20	"	1.0	.24	.58	1.60	.14		.6	2	0	730A 735A	"
95	7/28	"	4.0	.91	1.37	1.73	1.2		.6	4	0	715A 720A	"
96	8/11	"	4.0	1.08	1.15	1.72	1.2		.6	4	0	655A 700A	"
97	8/18	"	3.0	.81	1.19	1.67	.95		.6	3	0	732A 740A	"
98	8/25	"	5.0	1.04	.90	1.66	.95		.6	5	0	742A 747A	"



F. C. Dist. Form 52 150 8-35

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. F47R

Daily discharge, in second-feet of WALNUT CREEK at Covina Blvd., for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	5	0	0	1.8	0	0	0	0	0	0	0
2	0	3.2	0	0	0.4	0	5	0	0	0	0	0
3	0	1.7	0	0	0	0	0	0	0	0	0	0
4	0	2.9	0	0.5	0.2	0	0	0	0	0	0	0
5	0	1.5	0	1.1	0.2	0	0	0	0	0	0	0
6	0	2.6	0	31	611	0	0	0	0	0	0	0
7	0	1.8	0	+	40	0	0	0	0	0	0	0
8	0	0.9	0	0	6.5	0	0	0	0	0	0	0
9	0	3.4	0	0	5	0	0	0	0	0	0	0
10	0	0.6	0	0.1	1.8	0	0	0	0	0	0	0
11	0	+	0	0.3	1.6	0.9	0	0	0	0	0	0
12	0	0.3	0	4.8	1.1	7.5	0	0	0	0	0	0
13	0	0.3	0	1.1	107	34	0	0	0	0	0	0
14	0	0.1	0	0.1	457	0.3	0	0	0	0	0	0
15	0	0.2	4.9	0	13	155	0	0	0	0	0	0
16	0	1.3	0.2	0	5.5	5.1	0	0	0	0	0	0
17	0	1.8	0	0	5.5	5.5	3.8	0	0	0	0	0
18	0	0.7	1.0	0	5.5	4.7	1.2	0	0	0	0	0
19	0	0.3	0	0	5.5	5	1.4	0	0	0	0	0
20	0	0	0	0	5	2.8	0.9	0	0	0	0	0
21	0	0	0	0	0.7	1.9	0.6	0	0	0	0	0
22	0	0	0	0	0.3	57	0	0	0	0	0	0
23	0	0	0	0	0.3	0.7	0	0	0	0	0	0
24	0	0	0	0	0.7	8.5	0	0	0	0	0	0
25	0	0	1.0	0	3.4	5.5	0	0	0	0	0	0
26	0	0	0.2	0	1.8	0	0	0	0	0	0	0
27	0	0	1.9	0	0	0	0	0	0	0	0	0
28	0	0	3.4	0	0	0	0	0	0	0	0	0
29	0.8	0	0	1.8		0	0	0	0	0	0	0
30	0.7		1.62	1.3		0	0	0	0	0	0	0
31	3.0		2.12	2.6		0		0		0		
	4.5	28.6	405.7	66.3	1311.4	340.3	12.9	0	0	0	0	0
Mean	.15	.95	13.0	2.14	46.8	11.0	.43	0	0	0	0	0
Acre-Feet	8.9	57	801	132	2600	675	26	0	0	0	0	0

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

Year or Period Mean 5.94 Acre-Feet 4300

F. C. Dist. Form 52 150 8-35

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

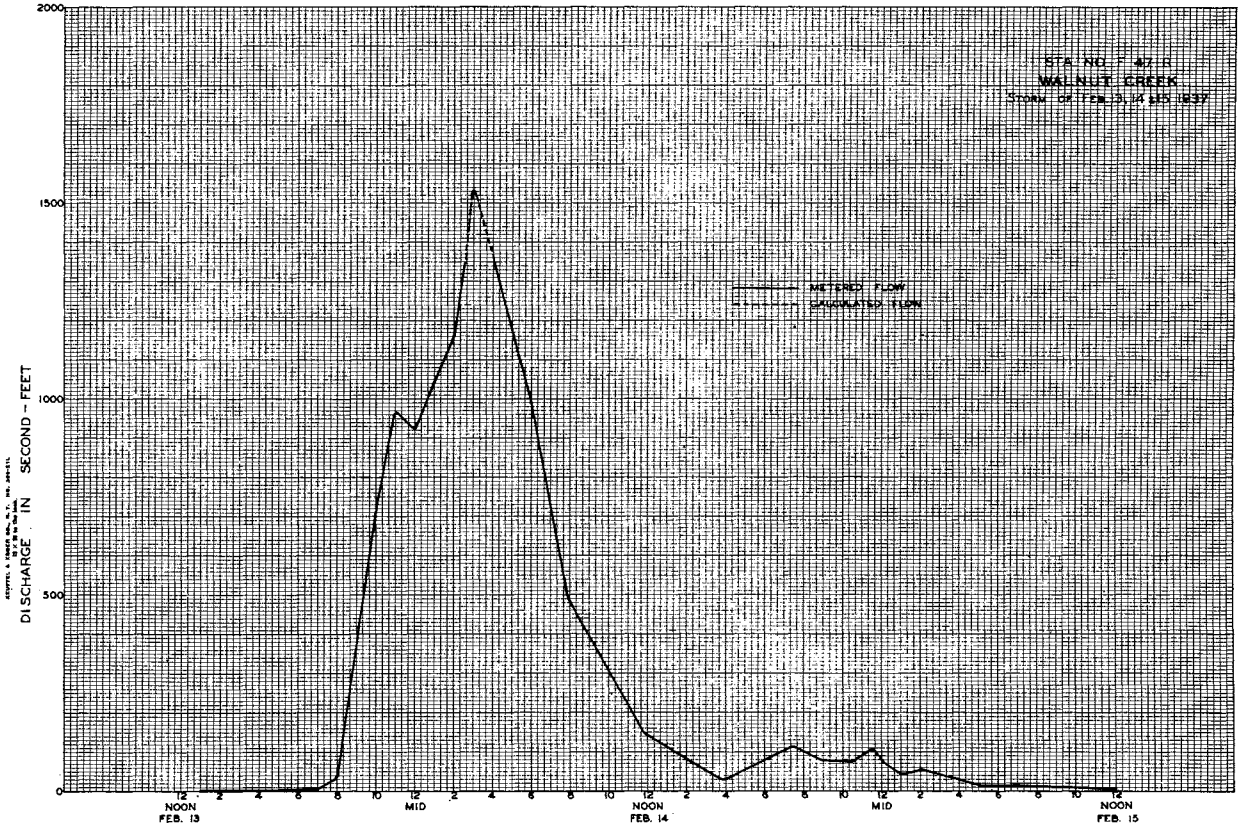
Sta. No. F47R

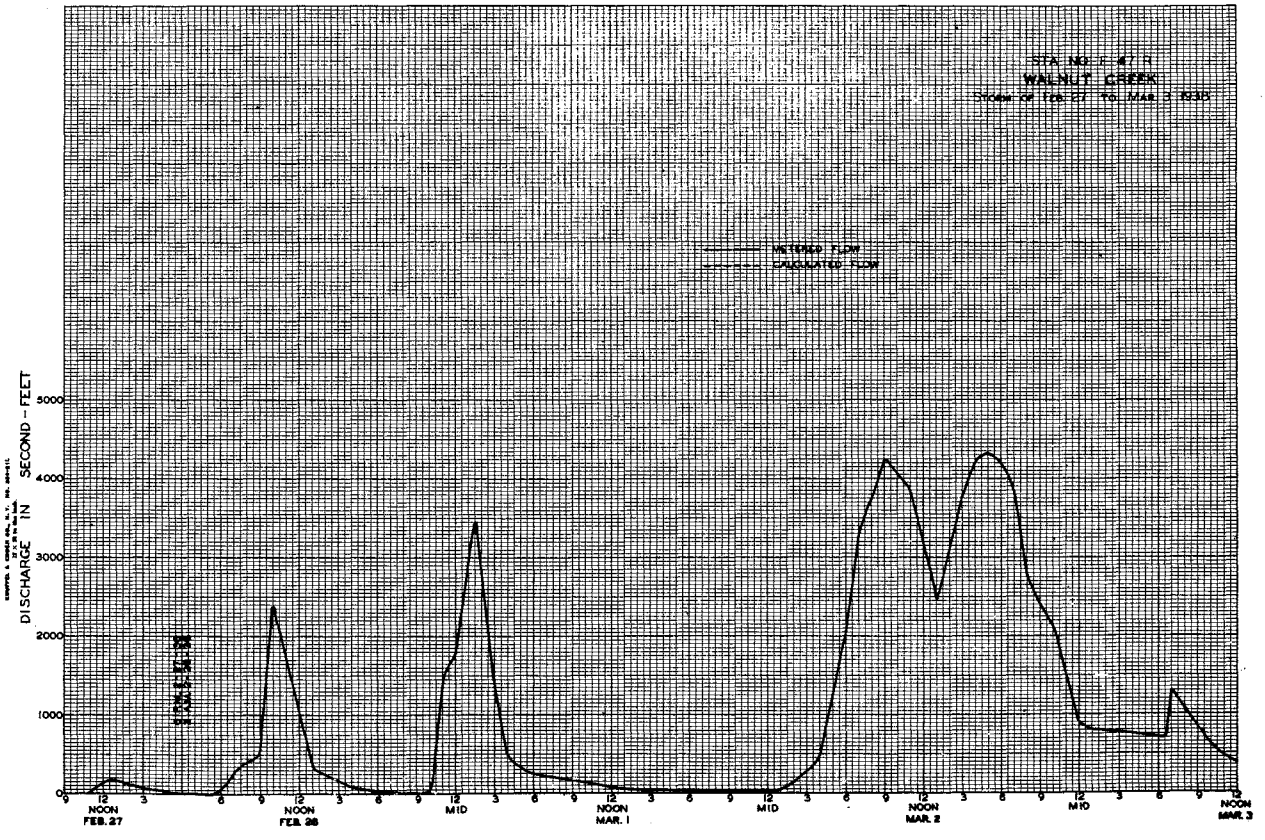
Daily discharge, in second-feet of WALNUT CREEK at Covina Blvd., for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	93	443	0.4	0.8	0	0	0.6	0
2	0	0	0	0	0	2580	+	0.1	+	0	0.2	0
3	0	0	0	0	5.5	517	0.2	+	0.2	0.1	0.3	+
4	0	0	0	0	1.2	253	0.2	+	0.1	0.3	0.3	0.1
5	0	0	0	0	0	117	0	0.6	0	0.6	0.2	+
6	0	0	0	0	0	123	0.2	0.2	0.1	1.1	0.2	0
7	0	0	0	0	0	45	0.8	0.2	+	0.6	0	0
8	0	0	0	0	0	124	0.8	0.3	+	0.9	0	0
9	0	0	0	0	70	110	0.2	+	+	0.4	0.3	0
10	0	0	0	0	0	89	0.2		+		0.3	0
11	0	0	2.0	0	85	36	0	0	0.2	0	0.2	0
12	0	0	0.3	0	35	94	2.8	0	0.4	0	0.4	0
13	0	0	0	0	0	35	2.8	0	0.2	0	0.2	0
14	0	0	0	0	0	99	2.4	0	0.1	0.2	0.3	0
15	0	0	0	4.2	0	89	2.4	0.4	0.1	0.3	0.4	0
16	0	0	0	0	0	103	1.2	0.7	0.3	0.6	0.1	0
17	0	0	0	1.0	0	89	2.8	0.7	1.7	0.8	0.3	0
18	0	0	0	0.6	0	45	1.1	0.4	1.6	0.9	0.3	0
19	0	0	0	0.8	0	64	0.6	0.4	1.1	0.6	0.2	0
20	0	0	0	1.1	0	86	1.1	1.4	0.4	0.3	0.1	0
21	0	0	0	2.0	0	69	1.4	1.9	0.2	0.2	0	0
22	0	0	0	1.7	0	64	2.8	1.4	+	0.3	+	0
23	0	0	1.5	0.8	0	86	2.8	0.7	+	+	0	0
24	0	0	0	0.2	0	64	0	+	0.2	+	0.3	0
25	0	0	0	1.1	0	33	0.6	0	0.4	0.2	0.6	0
26	0	0	0.1	0.5	0	20	0	0	0.6	+	0.5	0
27	0	0	0	0.1	20	17	0.1	0	0.5	+	0.1	0
28	0	0	0	2.8	406	3.6	0	+	+	0.2	+	0
29	0	0	0	1.4		0.8	+	+	+	0.6	0	0
30	0	0	0	0.7		0.4	0.9	0.2	0	0.7	0	0
31	0		0	0		0.4		0.2		0.4		
	0	0	21.9	56.8	715.7	5499.2	28.8	10.6	8.4	10.3	6.4	0.1
Mean	0	0	.71	1.83	25.6	177	.96	.34	.28	.33	.21	+
Acre-Feet	0	0	43	113	1420	10910	57	21	17	20	13	.20

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

Year or Period Mean 17.4 Acre-Feet 12610


STA NO. F 47 R
WALNUT CREEK
Storm of Feb. 13, 14 and 15, 1937
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
2000
1500
1000
500
0
12 NOON FEB. 13
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON FEB. 14
2
4
6
8
10
12 MID
2
4
6
8
10
12 NOON FEB. 15


STA NO. F 47 R
WALNUT CREEK
Storm of Feb. 27 to Mar. 3 1938
METERED FLOW
CALCULATED FLOW
DISCHARGE IN SECOND-FEET
5000
4000
3000
2000
1000
0
9
12 NOON FEB. 27
3
6
9
12 NOON FEB. 28
3
6
9
12 MID
3
6
9
12 NOON MAR. 1
3
6
9
12 MID
3
6
9
12 NOON MAR. 2
3
6
9
12 MID
3
6
9
12 NOON MAR. 3

THE FOLLOWING RECORDS ARE FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES BRANCH

STATION U1R

ARROYO SECO near Pasadena, California

LOCATION:

Water-stage recorder, lat. 34°15'20", 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 approximately 1,400 feet.

DRAINAGE AREA:

16.4 square miles.

RECORDS AVAILABLE:

December, 1910 to September, 1938.

AVERAGE DISCHARGE:

24 years (1913-15, 1916-38), 9.65 second-feet.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 640 second-feet February 6.
Minimum 0.1 second-foot October 1-16.
1937-1938
Maximum 8620 second-feet March 2, based on slope-area determination.
Minimum 0.6 second-foot October 28-29.
1910-1938
Maximum, that of March 2, 1938.
Minimum, practically dry for several months most years.

REMARKS:

1936-1937
Records fair. Discharge, October 1 to December 26, January 2-7, computed on basis of 41 discharge measurements, partial gage height records, and records for stations on nearby streams.
1937-1938
Records fair. Discharge, December 9-19, determined by interpolating between discharge measurements. Discharge, March 3 to April 28, determined by comparing with inflow to Devils Gate Flood Control Dam about 2 miles downstream.

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.

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 1 R

DISCHARGE MEASUREMENTS OF ARROYO SECO

NEAR Pasadena, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH-OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
923	10/8	Lindsay	0.5	0.04	0.50	2.17	0.02		.6	1		1113A 1115A	FC 28
924	10/10	R. Stanley Lord				2.05	.035		3" Venturi flume			945A 950A	
925	10/20	"				3.00	1.0		.6	7		1240P 1245P	1215
926	10/22	Lindsay	2.4	.25	2.00	2.92	.50		.6			122P 130P	FC 28
927	10/29	"	2.9	.22	1.32		.29		.6			1210P 1218P	"
928	11/5	"	4.5	.49		3.14	.83					1056A 1103A	"
929	11/12	Lindsay and Patterson	2.9	.28	2.00	3.16	.58		.6	4		1005A 1012A	"
930	11/16	R. Stanley Lord					.55		.6	7		240P 245P	1215
931	11/25	Lindsay	2.5	.36	1.94		.70		.6			1204P 1208P	FC 28
932	12/10	"	3.0	.55	1.73		.95		.6	4		1013A 1018A	FC 28
932A	12/15	R. Stanley Lord					15.		.6	14		205P 225P	1215
933	12/17	Lindsay	8.0	1.83	3.92		7.2		.6	8		200P 210P	FC 28
934	12/23	"	5.2	1.2	1.85		2.3		.6			230P 240P	"
935	12/30	R. Stanley Lord	16.	4.4		3.68	19.		.6	16		1000A 1015A	1215
936	12/31	"	23.	18.		3.92	126.		.6	22		955A 1015A	"
937	1/7	"	15.	5.1	3.95	3.13	21.		.6	9		435P 445P	"
938	1/12	Lindsay and McArthur	15.	4.3	3.19	3.09	14.		.6	7		1035A 1045A	FC 28
939	1/13	Cole	14.5	3.8	2.42	3.00	9.2		.6	7		130P 140P	FC 7
940	1/19	H. C. McCreery	12.5	4.1		2.92	9.1		.6	19		1005A 1025A	1232
941	1/20	Lindsay	12.	3.9	2.11	2.86	8.2		.6	7		1127A 1135A	FC 28
942	1/27	H. C. McCreery	8.6	3.8		2.83	6.2		.6	15		1105A 1120A	1232
943	1/28	Lindsay	10.9	3.2	1.97	2.82	6.4		.6	8		1105A 1113A	FC 28
944	2/1	H. C. McCreery	16.5	6.4		3.08	23.		.6	17		1105A 1120A	1232
945	2/4	Lindsay	16.5	5.0	2.90	2.98	15.		.6	9		952A 1002A	FC 28
946	2/6	H. C. McCreery				3.94	254.					215P	1232
947	2/8	"	20.5	16.		3.26	93.		.6	21		845A 905A	"
948	2/10	"	20.	11.		3.06	51.		.6	20		330P 350P	"
949	2/11	Cole	18.5	8.6	3.30	2.99	29.		.6	7		830A 843A	FC 7
950	2/16	H. C. McCreery	20.7	19.6		3.25	97.		.6	22		955A 1015A	1232
951	2/18	Cole	21.5	18.	3.19	3.15	58.		.6	8		805A 825A	FC 36

F.C.D. FORM 104 1M 8-57

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 1 R

DISCHARGE MEASUREMENTS OF ARROYO SECO

AT OR NEAR Pasadena, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METER NO.	MEAS. REG. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												900A	
952	2/23	H. C. McCreery	19.5	14.		3.01	37.		.6	20		920A	1232
												420P	
953	2/25	Cole-Brewster	29.8	19.	2.88	3.10	55.		.6	8		435P	FC 36
												1045A	
954	3/1	H. C. McCreery	20.5	14.		2.97	30.		.6	20		1105A	1232
												1145A	
955	3/4	Lindsay	17.5	12.1	2.12	2.90	27.		.6	10		1200N	FC 28
												945A	
956	3/10	H. C. McCreery	20.8	11.		2.86	22.		.6	20		1005A	1232
												1125A	
957	3/11	Cole	19.7	12.05	1.51	2.86	18.		.6	9		1140A	FC 36
												1005A	
958	3/15	H. C. McCreery	21.	19.		3.09	61.		.6	21		1025A	1232
												750A	
959	3/18	Cole	21.2	22.5	3.94	3.20	88.		.6	8		810A	FC 1
												925A	
960	3/22	R. Stanley Lord	20.	19.		3.17	76.		.6	19		945A	1215
												814A	
961	3/25	Cole	20.7	20.7	3.12	3.18	64.		.6			835A	FC 36
												940A	
962	3/31	H. C. McCreery	20.	17.		3.04	48.		.6	20		1000A	29529
												1128A	
962A	4/1	Cole	20.3	17.3	2.48	3.04	43.		.6	11		1144A	FC 36
												955A	
963	4/6	H. C. McCreery	20.	14.5		2.98	36.		.6	20		1015A	1232
												1115A	
964	4/8	Cole	20.	15.	1.74	2.95	26.		.6	9		1135A	FC 36
												430P	
965	4/12	H. C. McCreery	20.	13.	2.08	2.91	27.		.6	20		450P	1232
						2.90						1125A	
966	4/15	Cole	20.	14.	1.63	2.88	22.		.6	11		1143A	FC 36
												915A	
967	4/19	H. C. McCreery	19.5	12.	1.86	2.86	22.		.6	19		935A	1232
												1115A	
968	4/22	Cole	19.9	12.	1.36	2.83	17.		.6	9		1127A	FC 36
						2.81						1025A	
969	4/28	Lindsay	16.	9.7	1.44	2.79	14.		.6	8		1033A	FC 28
												950A	
970	5/3	H. C. McCreery	16.	8.5	1.53	2.76	13.		.6	16		1005A	1232
												1140A	
971	5/6	Cole	19.6	10.37	1.31	2.74	14.		.6	12		1155A	FC 36
												1025A	
972	5/10	H. C. McCreery	16.4	8.4	1.43	2.74	12.		.6	16		1040A	1232
												1125A	
973	5/13	Lindsay	12.7	7.55	1.40	2.70	11.		.6	8		1135A	FC 28
												1120A	
974	5/17	H. C. McCreery	16.	7.7	1.43	2.69	11.		.6	15		1135A	1232
												1024A	
975	5/20	Cole	13.5	7.8	1.19	2.69	9.3		.6	8		1038A	FC 36
												1050A	
976	5/24	H. C. McCreery	16.1	7.1	1.35	2.69	9.6		.6	23		1110A	1232
												903A	
977	5/27	Lindsay	12.8	7.00	1.39	2.69	9.7		.6	8		913A	FC 28
												930A	
978	5/31	H. C. McCreery	15.7	6.8	1.38	2.68	9.4		.5	23		950A	1232
												1002A	
979	6/3	Lindsay	12.0	6.37	1.26	2.64	8.4		.6	10		1012A	FC 28
												1020A	
980	6/7	H. C. McCreery	12.5	7.0	1.13	2.66	7.9		.6	20		1040A	1232
												800A	
981	6/10	Lindsay	12.0	6.35	1.06	2.65	6.7		.6	10		815A	FC 28
												415P	
982	6/15	H. C. McCreery	13.	5.5	.93	2.60	5.1		.6	12		425P	1232
												1155A	
983	6/17	Lindsay	12.0	5.87	.97	2.62	5.7		.6	9		1206P	FC 28
												1000A	
984	6/21	H. C. McCreery	Two Channels			2.56	5.1		.6	20		1020A	1232
		Lindsay and										1025A	
985	6/24	Thompson	10.3	4.9	.90	2.55	4.5		.6	9		1037A	FC 28
												1205P	
986	6/29	H. C. McCreery	7.0	3.8	1.13	2.52	4.3		.6	14		1215P	1232
												926A	
987	7/1	Lindsay	9.7	3.9	.88	2.49	3.4		.5	7		935A	FC 28
												957A	
988	7/8	Lindsay	11.5	4.2	.67	2.45	2.8		.6	7		1007A	"
												1235P	
989	7/15	"	3.5	2.1	1.08	2.45	2.3		.6	6		1245P	"
												1208P	
990	7/22	"	3.9	2.2	.94	2.42	2.1		.6	6		1215P	"
												1035A	
991	7/29	"	3.4	1.9	.69	2.40	1.3		.6	6		1045A	"
													1215
992	8/2	R. Stanley Lord	7.	2.6	.62	2.42	1.6						
												925A	
993	8/5	Lindsay	3.5	1.8		2.37	1.1		.6	6		930A	FC 28
												1020A	
994	8/12	"	3.5	1.8	.64	2.36	1.2		.6	6		1028A	"
												1020A	
995	8/18	"	3.5	1.8	.57	2.36	1.0		.6	6		1028A	"
													1215
996	8/24	R. Stanley Lord				2.37	.97					1200N	
												1125A	
997	8/25	Lindsay	3.5	1.8	.52	2.35	.96		.6	6		1132A	FC 28
												1014A	
998	9/1	Brewster	4.0	1.5	.67	2.35	1.0		.6	4		1025A	FC 8
												1052A	
999	9/10	"	5.0	1.7	.46	2.31	.80		.6	5		1044A	"
												1103A	
1000	9/16	Lindsay	3.4	1.5	.31	2.29	.45		.6	6		1110A	FC 28
1001	9/21	R. Stanley Lord				2.32	.66					340P	29567
												1242P	
1002	9/23	Lindsay	3.4	2.0	.43	2.34	.83		.6	6		1250P	FC 28
												1002A	
1003	9/30	"	3.4	2.4	.45	2.35	1.1		.6	6		1009A	"

F.C.D. FORM 104 1M 8-57

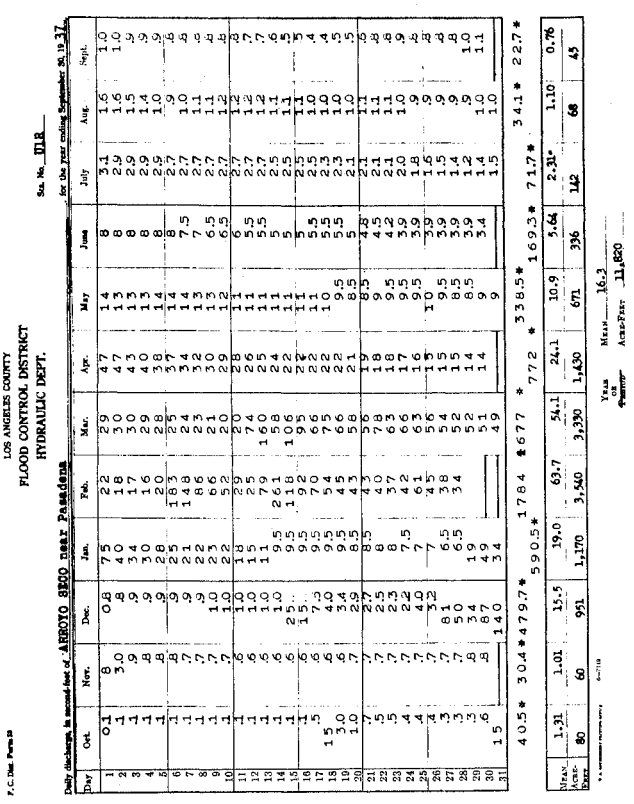
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 1 R

DISCHARGE MEASUREMENTS OF ARROYO SECO

AT OR NEAR Pasadena, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METER NO.	MEAS. REG. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1003A	10/7	Lindsay	3.4	1.99	0.45	2.34	0.90		.6	6		353P 400P	FC 28
1004	10/13	R. Stanley Lord				2.34	.64					845A	1215
1005	10/14	Lindsay	3.4	2.00	.50	2.38	1.0		.6	6		1048A 1055A	FC 28
1006	10/21	Haig-Lindsay	3.4	1.59	0.45	2.34	.71		.6	6		328P 338P	"
1007	10/27	R. Stanley Lord	5.	1.8	.35	2.34	1.0		.6	10		1215P	29529
1008	10/28	Lindsay	3.4	1.9		2.37	.74		.6	6		1028P 1036P	FC 28
1009	11/4	"	3.9	2.3	0.46	2.40	1.1		.6	7		1232P 1243P	"
1010	11/10	"	3.5	2.2	0.54	2.39	1.2		.6	6		1008A 1018A	"
1011	11/27	R. Stanley Lord	8.	2.0	.47	2.41	1.3		.6			1105A 1115A	1215
1012	12/2	Lindsay	3.5	2.1	.64	2.41	1.4		.6	6		1232P 1240P	FC 28
1013	12/12	R. Stanley Lord	15.	6.2	2.17	2.70	13.		.6	14		915A	1215
1014	12/16	Lindsay	12.	2.1	.94	2.44	2.0		.6	7		1251P 101P	FC 28
1015	12/20	R. Stanley Lord	4.0	1.4	1.07	2.39	1.5					140P	29529
1016	12/23	Lindsay-Ingram	12.0	4.09	1.21	2.58	5.0		.6	7		920A 930A	FC 28
1017	12/28	R. Stanley Lord	8.6	4.0	1.38	2.54	5.5		.6	9		1050A	29529
1018	12/30	Lindsay	11.0	3.1	1.12	2.49	3.5		.6	7		1115A 1123A	FC 28
1019	1/6	"	10.3	2.7		2.46	2.6		.6	6		1117A 1125A	"
1020	1/15	R. Stanley Lord	17.	14.	2.26	2.92	31.		.6	15		1130A 1140A	29526
1021	1/20	Lindsay	10.0	4.6	1.26	2.57	5.7		.6	7		957A 1007A	FC 28
1022	2/1	R. Stanley Lord	17.5	14.	2.86	3.00	40.					1020A 1045A	29529
1023	2/3	Lindsay-Ingram	15.0	8.67	2.56		22.		.6			1030A 1040A	FC 28
1024	2/4	R. Stanley Lord	18.	18.	6.50	3.40	117.					400A 415A	1215
1025	2/15	"	16.5	11.	3.09	2.90	34.		.6	14		1010A 1030A	1215
1026	2/16	Lindsay	15.5	7.63	2.80	2.84	21.		.6	8		340P 350P	FC 28
1027	2/24	Lindsay	12.0	5.28	1.94		10.		.6	6		100P 108P	FC 28
1028	2/28	R. Stanley Lord	17.	32.	9.4	4.20	301.					1020A 1040A	1215
1029	3/1	"	26.	24.5	9.3	4.47	228.		.6	10		400P 420P	"
1030	3/7	"	35.5	22.	7.54		166.					225P 245P	"
1031	3/14	"	40.	20.	7.2		147.			14			"
1032	3/28	"	28.	10.	6.1	7.18	64.		.6	14		1255P 110P	"
1033	4/16	"	11.	7.9	3.1	4.30	25.		.6	10		325P	"
1034	4/28	A. Wilson	12.	8.0	2.85	4.62	23.		.6	13		415 500	29567
1035	5/2	"	12.2	7.7	2.8	4.59	21.		.6	12		245P 330P	"
1036	5/9	"	11.5	6.7	2.9	4.56	20.		.6	12		915A 940A	"
1037	5/16	"	11.7	6.6	2.68	4.55	18.		.6	11		130P 200P	"
1038	5/23	"	9.5	5.9	2.3	4.49	14.		.6	9		1005A 1017A	"
1039	6/6	"	10.1	5.5	1.67	4.45	9.3		.6	10		1207P 1224P	
1040	6/14	"	9.2	4.7	2.0	4.45	9.4		.6	9		935A 947A	"
1041	6/20	"	12.8	5.4	1.59	4.45	8.6		.6	2		901A 917A	"
1042	6/27	"	11.	5.0	1.4	4.40	7.2		.6	10		1012A 1026A	"
1043	7/1	"	9.7	4.3	1.7	4.40	7.5		.6	9		920A 930A	"
1044	7/11	"	9.5	3.9	1.5	4.40	5.8		.6	8		812A 825A	"
1045	7/26	Wilson-Tucker	8.6	3.9	1.2	4.37	4.6		.6	8		220P 235P	"
1046	8/2	Samuel Tucker	7.5	3.1	1.21	4.30	3.8		.6	7		1041A 1053A	"
1047	8/8	" "	8.7	3.9	0.88	4.34	3.4		.6	7		948A 1000A	29567
1048	8/16	" "	8.8	3.7	0.92	4.33	3.4		.6	7		105P 118P	"
1049	8/23	" "	8.5	3.1	0.86	4.28	2.7		.6	7		1028A 1040A	"
1050	8/30	" "	7.9	2.7	0.93	4.27	2.5		.6	7		1130A 1144A	"
1051	9/6	Samuel Tucker	8.0	2.9	0.93	4.26	2.7		.6	7		1125A 1138A	29567
1052	9/12	" "	7.7	2.6	0.67	4.24	1.7		.6	7		212P 232P	"
1053	9/19	" "	8.0	2.8	0.83	4.28	2.3		.6	7		1006A 1024A	"
1053A	9/21	Lindsay	5.5	1.2	1.37	4.25	1.7		.6	5		1140A 1146A	FC 28
1054	9/27	Samuel Tucker	7.8	2.6	0.68	4.24	1.8		.6	7		1242P 1255P	29567



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U 1 R

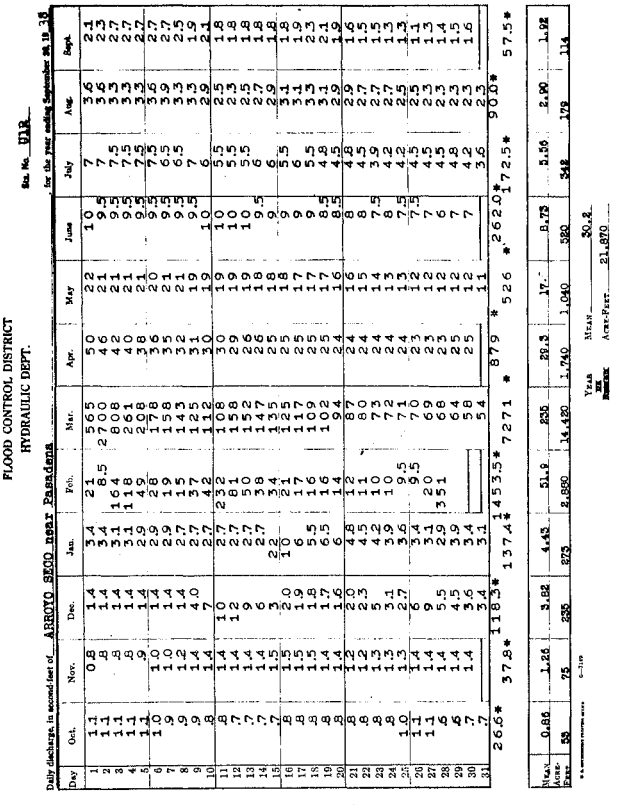
Daily discharge, in second-feet of ARROYO SECO near Pasadena for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	8	0.8	75	22	29	47	14	8	3.1	1.6	1.0
2	0.1	3.0	.8	40	18	30	47	13	8	2.9	1.6	1.0
3	0.1	.9	.8	34	17	30	43	13	8	2.9	1.5	.9
4	0.1	.8	.9	30	16	29	40	13	8	2.9	1.4	.9
5	0.1	.8	.9	28	20	28	39	14	9.5	2.7	1.3	.9
6	0.1	.8	.9	25	183	25	37	14	7.5	2.7	1.0	.8
7	0.1	.7	.9	21	146	24	34	13	7.5	2.7	1.1	.8
8	0.1	.7	.9	22	66	21	32	13	6.5	2.7	1.1	.8
9	0.1	.7	1.0	22	52	20	30	13	6.5	2.7	1.2	.8
10	0.1	.7	1.0	22	29	20	29	12	6	2.7	1.2	.8
11	0.1	.6	1.0	18	25	20	28	11	6	2.7	1.2	.7
12	0.1	.6	1.0	15	74	74	26	11	5.5	2.7	1.2	.7
13	0.1	.6	1.0	11	79	160	25	11	5.5	2.7	1.1	.6
14	0.1	.6	1.0	9.5	261	58	24	11	5	2.5	1.1	.5
15	0.1	.6	2.5	9.5	118	106	22	11	5	2.5	1.1	.5
16	.5	.6	15	9.5	92	95	22	11	5.5	2.5	1.1	.5
17	15	.6	7.0	9.5	70	75	22	11	5.5	2.5	1.0	.5
18	5.0	.6	4.0	9.5	54	66	22	9.5	5.5	2.3	1.0	.5
19	1.0	.6	3.4	9.5	45	55	21	8.5	5.5	2.1	1.0	.5
20		.7	2.9	8.5	43	56	19	8.5	4.8	2.1	1.1	.5
21		.7	2.5	8.5	40	78	18	9.5	4.5	2.1	1.1	.8
22		.5	2.3	8.0	37	63	18	9.5	4.2	2.1	1.1	.8
23		.4	2.2	7.5	42	66	17	9.5	3.9	2.0	1.0	.8
24		.4	4.0	7.5	61	63	16	9.5	3.9	1.8	.9	.8
25		.4	3.2	7	45	56	15	10	3.9	1.6	.9	.8
26		.7	.7	6.5	38	54	15	9.5	3.9	1.5	.9	.8
27		.3	.7	6.5	34	52	15	8.5	3.9	1.4	.9	.8
28		.3	.8	6	34	52	14	8.5	3.9	1.2	.9	1.0
29		.6	.8	19		51	14	9	3.4	1.4	1.0	1.1
30		1.5	.8	49		49				1.5		
31			1.4	34								
	405.5*	30.4*	479.7*	590.5*	1784 *	677 *	772 *	338.5*	169.3*	71.7*	34.1*	22.7*

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Mean	13.1	1.01	15.5	19.0	63.7	54.1	24.1	10.9	5.64	2.31*	1.10	0.76
Acre-Feet	80	60	951	1,170	3,540	3,330	1,430	671	336	142	68	45

Year Mean 16.3
Acre-Feet 11,820

F.C. Dist. Form 19



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U 1 R

Daily discharge, in second-feet of ARROYO SECO near Pasadena for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	0.8	1.4	3.4	21	565	50	22	10	7	3.6	2.1
2	1.1	.8	1.4	3.1	8.5	270	46	21	9.5	7.5	3.5	2.3
3	1.1	.8	1.4	3.1	164	80	42	21	9.5	7.5	3.3	2.7
4	1.1	.9	1.4	3.1	148	208	38	21	9.5	7.5	3.3	2.7
5	1.1	1.0	1.4	2.9	28	208	36	20	9.5	7.5	3.5	2.7
6	1.0	1.0	1.4	2.9	19	158	35	21	9.5	6.5	3.9	2.7
7	.9	1.0	1.4	2.7	15	143	32	21	9.5	6.5	3.3	2.5
8	.9	1.4	1.4	2.7	37	125	31	21	9.5	7	3.3	1.9
9	.8	1.4	1.4	2.7	42	111	30	19	10	6	2.9	2.1
10	.8	1.4	4.0	2.7	232	108	30	19	10	5.5	2.5	1.8
11	.7	1.4	1.0	2.7	81	158	29	19	10	5.5	2.3	1.8
12	.7	1.4	.9	2.7	50	152	26	19	10	5.5	2.5	1.8
13	.7	1.4	.6	2.7	38	147	26	18	9.5	6	2.7	1.8
14	.7	1.4	.6	2.7	34	135	25	18	9	5.5	2.9	1.8
15	.7	1.5	3.0	2.2	21	125	25	18	9	5.5	3.1	1.8
16	.8	1.5	1.9	1.0	17	117	25	17	9	6.5	3.1	1.9
17	.8	1.5	1.8	6.5	16	109	25	17	8.5	5.8	3.1	2.1
18	.8	1.4	1.7	6.5	16	102	25	16	8.5	4.5	2.9	2.1
19	.8	1.4	1.6	6.5	14	96	25	16	8.5	4.5	2.9	2.1
20	.8	1.2	2.0	4.8	12	87	24	16	8	4.8	2.9	1.6
21	.8	.8	2.3	4.5	11	80	24	15	8	4.5	2.7	1.5
22	.8	.8	5.1	4.2	10	73	24	14	7.5	3.9	2.7	1.5
23	.8	.8	3.1	3.6	9.5	72	24	13	7.5	4.2	2.7	1.3
24	.8	.8	2.7	3.6	9.5	70	24	13	7.5	4.2	2.5	1.3
25	.8	1.0	6	3.4	9.5	70	24	13	7.5	4.5	2.3	1.1
26	.8	1.1	5.5	3.1	20	68	23	12	7	4.5	2.3	1.3
27	.8	1.1	4.5	2.9	351	69	23	12	6	4.5	2.3	1.4
28	.8	1.5	3.6	3.9		68	23	12	7	4.8	2.3	1.5
29	.8	1.5	3.4	3.4		64	25	12	7	4.2	2.3	1.6
30	.7	1.4	3.4	3.1		58		11		3.6	2.3	
31	.7					54						
	26.6*	37.8*	118.3*	137.4*	1453.5*	7271 *	879 *	526 *	262.0*	172.5*	90.1*	57.5*

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Mean	0.86	1.26	3.82	4.43	51.9	235	29.3	17.	8.73	5.56	2.90	1.92
Acre-Feet	53	75	235	273	2,880	14,430	1,740	1,040	520	342	178	114

Year Mean 30.2
Acre-Feet 21,870

F.C. Dist. Form 19

STATION U9R

DALTON CREEK near Glendora, Calif.

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 Company's dam a quarter of a mile above mouth and 2-1/2 miles northeast of Glendora. Altitude approximately 1,150 feet.

DRAINAGE AREA:

7.5 square miles.

RECORDS AVAILABLE:

December 1919 to September 1938.

AVERAGE DISCHARGE:

17 years (1920-37), 1.05 second-feet.
18 years (1920-38), 1.28 second-feet.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 42 second-feet February 6.
Minimum no flow for parts of several months.
1937-1938
Maximum about 850 second-feet March 2.
Minimum no flow for parts of several months.
1919-1938
Maximum about 850 second-feet March 2, 1938.
Minimum no flow for several months each year.

REMARKS:

1936-1937
Records good. Discharge for April 28 to May 2, computed on basis of one discharge measurement and records for stations on nearby streams.
1937-1938
Records good. Discharge March 2-7 and March 23-28 determined from dam records of inflow and release.

Glendora Irrigation Company 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.

F.C.D. FORM 104 1M 8-37

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 37

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.	RESH-OS	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
385	12/28	Brewster	3.0	1.1	1.18	1.68	1.3		.6	3		948A 953A	FC 8
386	12/31	F. C. Ebert	9.	3.5	1.83	2.26	6.4			9		1120A 1140A	27214
387	1/1	"	.5	1.7	1.53	1.98	2.6		.6	8		930A 950A	"
388	1/7	Brewster	4.0	.91	1.15	1.66	1.0		.6	4		440P 446P	FC 8
389	1/8	R. Stanley Lord	4.0	.75	1.00	1.61	.75		.6	8		425P 435P	1215
390	1/12	Brewster	4.0	.94	1.04	1.63	1.0		.6	4		840A 848A	FC 8
391	1/14	"	4.0	.86	.92	1.57	.80		.6	4		405P 410P	FC 8
392	1/19	H. C. McCreery				1.51	.41			8		435P 445P	1232
393	1/21	Brewster	1.5	.40	1.30	1.49	.50		.6	3		410P 414P	FC 8

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 9 R

DISCHARGE MEASUREMENTS OF DALTON CREEK

XX NEAR Glendora, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	SECT-ION	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
394	1/25	H. C. McCreery				1.46						1232	
395	1/28	Brewster	1.5	.31	1.29	1.44	.40		.6	3		300P 304P	FC 8
396	2/3	H. C. McCreery				1.62	.7			7		235P 240P	1232
397	2/4	Brewster	3.0	.79	1.06	1.60	.85		.6	3		410P 415P	FC 8
398	2/6	F. C. Ebert	Two Channels			2.56	22.					140P 200P	27214
399	2/6	Brewster-Pattie	Two Channels			2.59	25.		.6	11		220P 235P	FC 8
400	2/7	F. C. Ebert	10.	5.2	2.50	2.32	13.		.6	9		1250P 105P	27214
401	2/9	"	5.5	2.5	2.20	2.26	5.5		.6	7		1210P 1225P	"
402	2/11	Brewster	4.0	1.9	1.66	2.20	3.2		.6	4		420P 426P	FC 8
403	2/14	Brewster-Pattie	Two Channels			2.37	18.		.6	9		1145A 1200N	"
404	2/16	H. C. McCreery				2.32	12.		.6	15		110P 125P	1232
405	2/18	Brewster	Two Channels			2.41	28.		.6	11		425P 440P	FC 8
406	2/20	McCreery and Lord				2.40	29.		.6	18		350P 310P	1232
407	2/23	H. C. McCreery				2.32	9.6		.6	15		245P 300P	"
408	2/24	Brewster	Two Channels			2.31	11.		.6	9		335P 350P	FC 8
409	2/25	Brewster	Two Channels			2.29	9.1		.6	9		315P 329P	FC 8
410	3/1	H. C. McCreery	Two Channels			2.26	6.4		.6			310P 330P	1232
411	3/4	Brewster	Two Channels			2.26	7.2		.6			400P 412P	FC 8
412	3/10	H. C. McCreery				2.24	4.5		.6	18		330P 350P	1232
413	3/11	Brewster	6.0	2.1	1.18	1.98	2.5		.6	6		425P 435P	FC 8
414	3/15	H. C. McCreery	Two Channels			2.20	3.2			16		320P 335P	1232
415	3/18		Two Channels			2.39	23.		.6	10		320P 335P	FC 8
416	3/22	F. C. Ebert	12.	6.2	2.58	2.34	15.		.6	12		1240P 100P	27214
417	3/25	Brewster	14.	9.2	2.76	2.40	25.		.6	7		358P 410P	FC 8
418	3/29	"	14.	8.9	2.94	2.40	26.		.6	7		808A 820A	"
419	4/1	"	14.	5.0	1.48	2.25	7.4		.6	7		405P 420A	"
420	4/1	H. C. McCreery				2.25	6.3		.6	13		445P 500P	1232
421	4/3	F. C. Ebert	Two Channels			2.10	3.6					410P 420P	27214
422	4/5	Brewster	6.0	3.3	.98	2.06	3.2		.6	6		830A 840A	FC 8
423	4/6	H. C. McCreery	Two Channels			2.03	2.9		.6	14		205P 220P	1232
424	4/8	Brewster	6.0	3.5	.89	1.99	3.1		.6	6		340P 352P	FC 8
425	4/12	Lord-Troxell				1.98	2.6					300P 310P	29529
426	4/15	Brewster	6.0	2.6	.97	1.93	2.5		.6	6		915A 927A	FC 8
427	4/19	H. C. McCreery				1.82	2.3			12		115P 125P	1232
428	4/22	Brewster	6.0	3.2	.64	1.81	2.1		.6	6		430P 440P	FC 8
429	4/29	"	4.0	1.1	.88	1.60	.95		.6	4		400P 406P	"
430	5/3	H. C. McCreery				1.55	.5			8		120P 130P	1232
431	5/3	"				1.55	.6	Venturi Flume				130P	
432	5/6	Brewster	4.0	1.0	.75	1.54	.75		.6	4		419P 425P	FC 8
433	5/20	Brewster	3.0	.81	.67	1.48	.55		.6	3		405P 411P	FC 8
434	5/21	H. C. McCreery				1.49	.4	Venturi Flume				310P	
435	6/2	R. Stanley Lord	3.6	1.2	1.08	1.69	1.3		.6	6		805A 810A	29529
436	6/3	Brewster	3.0	.72	.67	1.49	.48		.6	3		340P 346P	FC 8
437	6/14	H. C. McCreery				1.46	.3	Venturi Flume				120P	
438	6/17	Brewster	4.0	1.2	.95	1.66	1.2		.6	4		300P 307P	FC 8
439	6/21	H. C. McCreery				1.45	0.24	Venturi Flume				105P	
440	7/1	Brewster	3.0	0.56	0.61	1.49	0.34		.6	3		240P 245P	FC 8
441	7/15	"	3.0	.70	.66	1.47	.46		.6	3		246P 252P	"
442	7/24	R. Stanley Lord				1.38	.14	3" & 4" Venturi					
443	7/29	Brewster	1.0	.21	.48	1.35	.10		.6	2		150P	FC 8
444	8/9	R. Stanley Lord				1.37	.083	4" Flume				100P	
445	8/12	Brewster	.8	.17	.41	1.34	.07		.6	2		140P 144P	FC 8

F.C.D. FORM 104 1M 8-37

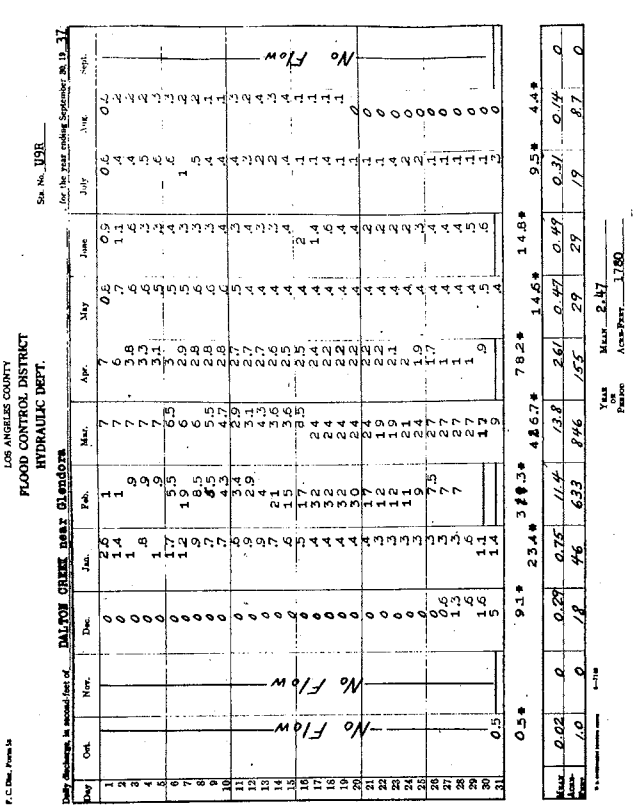
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

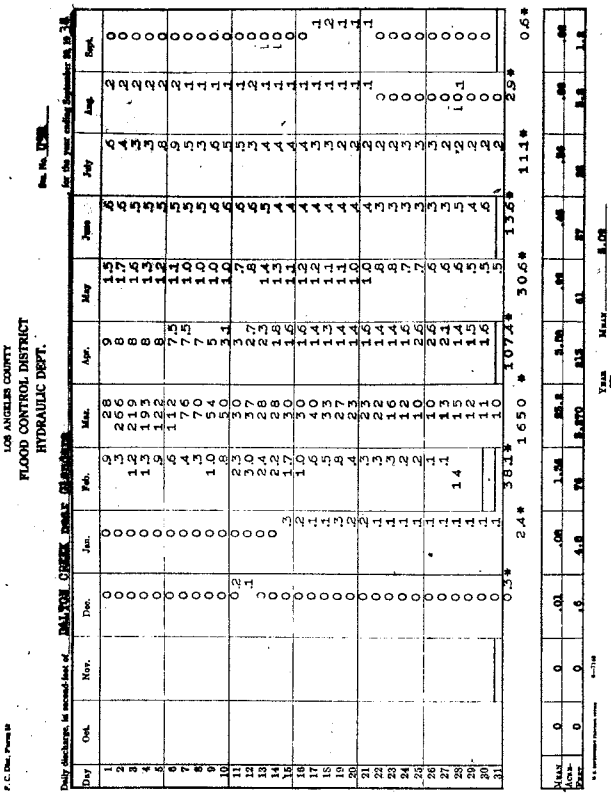
STATION NO. U 9 R

DISCHARGE MEASUREMENTS OF DALTON CREEK

XX NEAR Glendora, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	SECT-ION	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
446	1/15	F. C. Ebert	5.	.95	1.09	1.75	1.0		.6			100P 110P	27214
447	1/15	"	2.3	.50	0.92	1.56	.45		.6			440P 450P	
448	1/20	Brewster	2.0	.40	0.55	1.39	.20		.6			400P 404P	FC 8
449	2/3	Brewster	4.0	1.7	1.03	1.76	1.7		.6			340P 345P	"
450	2/4	F. C. Ebert	3.5	1.1	1.00	1.69	1.1		.6			1020A 1040A	27214
451	2/9	Brewster	5.0	1.5	1.13	1.79	1.7		.6			237P 242P	FC 8
452	2/10	"	4.0	.85	1.03	1.64	.90		.6			310P 315P	"
453	2/11	Lord-Ebert	4.5	1.1	1.00	1.70	1.1		.6			945A 955A	29529
454	2/11	" "	4.5	2.0	1.42	2.04	2.9		.6			115P 122P	"
456	2/11	" "	9.0	3.2	2.31	2.23	7.4		.6			144P 154P	"
455	2/11	" "	4.5	22.	1.77	2.09	3.9		.6			206P 212P	"
457	2/11	Lord-Ebert	6.5	3.4	1.95	1.99	6.6		.6			228P 237P	29529
458	2/12	F. C. Ebert	5.6	1.2	2.03	1.94	2.8		.6			1050A 1100A	27214
459	2/24	Brewster	2.0	.40	.45	1.39	.20		.6			250P 255P	FC 8
460	2/28	F. C. Ebert	10.5	4.8	3.96	2.32	19.		.6			1105A 1120A	27214
461	2/28	"	10.	3.2	2.79	2.18	8.9		.6			515P 530P	"
462	3/1	"	20.	8.3	3.13	2.41	26.		.6			1012A 1030A	"
463	3/3	"	45.	35.	5.31	2.42	186.		.6			1116A 1143A	"
464	3/7	"	19.5	17.	4.48	2.44	76.		.6			230P 315P	"
465	3/10	Brewster	18.	15.	3.35	2.49	51.		.6			438P 450P	FC 8
466	3/12	R. S. Lord	16.	11.	2.92	2.46	31.		.6			1250P 110P	1215
467	3/17	Brewster	16.	13.	3.06	2.46	39.		.6			145P 158P	FC 8
468	3/24	"	9.0	6.8	1.55	2.30	11.		.6			1145A 1155A	"
469	3/28	R. S. Lord	10.5	9.2	1.65	2.31	15.		.6			1020A 1030A	1215
470	3/31	Brewster	9.0	8.0	1.53	2.28	12.		.6			1230P 1240P	FC 8
471	4/7	"	8.0	4.4	1.93	2.26	8.4		.6			1042A 1054A	"
472	4/11	R. S. Lord	8.5	2.6	1.23	1.83	3.2		.6			140P	1215
473	4/14	Brewster	4.0	1.8	1.07	1.68	1.9		.6			1055A 1101A	FC 8
474	4/20	A. Wilson	5.0	1.7	.82	1.62	1.4		.6			1135A 1145A	1215
475	4/21	Brewster	4.0	1.7	.86	1.62	1.4		.6			955A 1003A	FC 8
476	4/27	A. Wilson	4.5	1.9	.91	1.66	1.7		.6			345P 400P	29567
477	4/28	Brewster	4.0	1.5	.75	1.57	1.1		.6			230P 237P	FC 8
478	5/5	A. Wilson	4.7	1.6	.64	1.54	1.0		.6			230P 245P	29567
479	5/5	Brewster	4.0	1.4	.69	1.54	1.0		.6			305P 311P	FC 8
480	5/12	A. Wilson	4.7	1.5	.47	1.50	0.70		Sur			105P 120P	29567
481	5/12	Brewster	4.0	1.5	.68	1.51	1.0		.6			346P 352P	FC 8
482	5/19	"	4.0	1.6	.75	1.54	1.2		.6			316P 322P	"
483	5/19	A. Wilson	5.0	1.5	.60	1.52	.85		.6				29567
484	5/26	Brewster	4.0	1.1	.46	1.45	.50		.6			245P 252P	FC 8
485	5/31	A. Wilson	4.8	1.4	.36	1.46	.50		.6			1225P 1233P	29567
486	6/2	Brewster	2.0	.60	.62	1.43	.35		.6			330P 336P	FC 8
487	6/16	"	2.0	.60	.50	1.41	.30		.6			300P 306P	"
488	6/28	A. Wilson	4.5	1.5	1.12	1.66	1.7		.6			1249P 1253P	29567
489	6/30	Brewster	2.0	.70	.93	1.50	.65		.6			340P 346P	FC 8
490	7/12	A. Wilson	3.0	.75	.56	1.46	.40		.6				29567
491	7/14	Brewster	2.0	.55	.57	1.42	.30		.6			330P 335P	FC 8
492	7/21	"	2.0	.55	.33	1.38	.20		.6			310P 315P	FC 8
493	7/25	Wilson-Tucker	2.8	.60	.31	1.36	.20		.6			1105A 1110A	29567
494	8/4	Brewster	1.0	.30	.40	1.34	.10		.6			313P 316P	FC 8
495	8/17	Tucker				1.33	.10		Vol			1145A	
496	8/18	Brewster	0.5	.10	.42	1.33	.05		.6			332P 335P	FC 8
497	8/31	Tucker				1.30	.03		Vol			130P	





STATION U2R

EATON CREEK near Pasadena, California

LOCATION:

Water-stage recorder, lat. 34°11'40", long. 118° 6'15", 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, 1938.

AVERAGE DISCHARGE:

20 years, 2.45 second-feet.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 305 second-feet December 27.
Minimum no flow for several months.
1937-1938
Maximum 2400 second-feet March 2.
Minimum no flow for several months.
1918-1938
Maximum 2400 second-feet March 2, 1938.
Minimum no flow for periods each year.

REMARKS:

1936-1937
Records good. Tables of daily and monthly discharge do not include water diverted above station by the City of Pasadena; record of diversion furnished by city. Monthly diversion, in acre-feet, from Eaton Creek by City of Pasadena, water year of 1936-37.

	1936-1937		1936-1937
October	18	April	233
November	42	May	218
December	98	June	200
January	227	July	110
February	200	August	65
March	198	September	42
		Total	1610

1937-1938
Records good except for the period February 16, to March 29, when the records are poor. Discharge for this period determined by comparison with inflow to Eaton Flood control dam and 41 discharge measurements. During the year 33 measurements were furnished by City of Pasadena. Water diverted above 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.

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 2 R

DISCHARGE MEASUREMENTS OF EATON CREEK

XX NEAR Pasadena, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	BETH-OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
202	10/19	R. Stanley Lord				1.56	1.9		.6	7		510P 515P	1215
203	10/20	"				1.44	.64		.6	6		1130A 1135A	"
204	10/22	Lindsay					.01					1235P	
205	12/15	R. Stanley Lord				1.85	11.		.6	9			1215
206	12/27	Cole	21.5	8.6	4.17	2.25	36.		.6	0		315P 325P	FC 36
207	12/30	R. Stanley Lord				1.78	9.0		.6	14		1050A 1105A	1215
208	12/31	"				2.34	59.		.6	13		835A 850A	"
209	12/31	Cole-Cole	13.4	7.1	4.03	2.18	29.		.6	8		300P 315P	FC 7
210	1/5	R. Stanley Lord				1.69	5.4		.6	9		1020A 1030A	1215
211	1/6		9.8	4.0	2.08	1.79	8.5		.6	7		1052A 1108A	FC 7
212	1/9	H. C. McCreery				1.52	1.0			10		225P 235P	1232
213	1/12	Lindsay and McArthur	5.7	2.0	1.26	1.61	2.6		.6	5		1115A 1121A	FC 28
214	1/13	Cole						No	flow			205P	
215	1/19	H. C. McCreery				1.56	1.3			11		1120A 1130A	1232
216	2/1	"				1.80	8.5		.6	18		200P 215P	"
217	2/4	Lindsay	6.7	1.9	1.93	1.66	3.7		.6	7		1137A 1043A	FC 28
218	2/6	H. C. McCreery				2.42	63.		.6	19		1017A 1035A	1232
219	2/6	"				2.44	68.		.6	19		1045A 1105A	"
220	2/6	Cole-Baustian	20.4	27.	6.31	3.16	169.		.6	6		510P 516P	FC 7
221	2/10	H. C. McCreery				1.98	18.		.6	20		215P 235P	1232
222	2/11	Cole	11.	7.4	1.80	1.94	13.		.6	6		910A 920A	FC 7
223	2/14	"	19.	20.	3.58	2.74	70.		.6	9		1248P 127P	FC 26
224	2/15	H. C. McCreery				2.41	57.		.6	26		1105A 1140A	1232
224A	2/15	Cole	17.1	16.52	3.36	2.40	56.		.6	10		115P 130P	FC 36
224B	2/15	Cole	17.1	16.8	3.00	2.40	51.			10		149P 210P	FC 36
225	2/15	"	16.7	15.9	2.76	2.38	44.		.6	10		515P 535P	"
226	2/17	H. C. McCreery				2.13	31.		.6	23		935A 955A	1232
227	2/18	Cole	12.5	11.	2.14	2.07	23.		.6	7		1020A 1038A	FC 36
228	2/20	H. C. McCreery				1.97	17.		.6	22		520P 540P	1232
229	2/25	Cole-Baustian	12.	9.4	2.03	2.00	19.		.6	7		500P 510P	FC 36
230	3/1	H. C. McCreery				1.92	14.		.6	20		1215P 1235P	1232
231	3/4	Lindsay	8.9	6.07	1.65	1.86	10.		.6	6		100P 110P	FC 28
232	3/10	H. C. McCreery				1.83	8.9		.6	21		1120A 1140A	1232
232A	3/11	Cole	10.0	4.08	0.82	1.68	3.4		.6	8		1000A 1015A	FC 36
232B	3/11	"	9.7	4.01	0.80	1.66	3.2		.6	8		415P 430P	"
233	3/12	"	12.5	9.58	1.96	2.00	19.		.6	7		315P 327P	"
234	3/15	H. C. McCreery				1.91	14.		.6	22		1125A 1145A	1232
235	3/16	Cole	14.1	9.98	2.82	2.16	28.		.6	7		326P 343P	FC 1
236	3/18	H. C. McCreery				2.04	23.		.6	13		900A 915A	1215
237	3/19	Cole	15.0	7.89	2.12	2.00	17.		.6	8		830A 845A	FC 1
238	3/22	R. Stanley Lord				2.10	25.		.6	12		135P 150P	1215
239	3/22	Cole-Baustian	14.4	9.24	2.54	2.08	23.		.6	7		243P 254P	FC 1
256	3/23	Cole	13.5	8.96	1.97	1.99	18.		.6	8		235P 245P	FC 36
257	3/23	"	13.1	8.82	2.11	1.99	19.		.6	8		440P 452P	"
240	3/25	Cole	13.6	9.83	2.14	2.05	21.		.6	7		920A 931A	FC 36
241	3/31	H. C. McCreery				1.93	15.		.6	20		1035A 1055A	29529
242	4/6	"				1.87	11.		.6	17		1053A 1110A	1232
243	4/8	Cole	13.4	8.4	1.54	1.92	13.		.6	8		937A 952A	FC 36
244	4/12	H. C. McCreery	12.5	6.0	1.18	1.79	7.1		.6	18		345P 400P	1232
245	4/15	Cole	11.3	5.0	1.27	1.78	6.3		.6	11		958A 1015A	FC 36
246	4/15	"	10.9	4.3	1.16	1.76	5.6		.6	10		325P 345P	"
247	4/19	H. C. McCreery	12.	5.2	1.10	1.73	5.7		.6	16		1000A 1015A	1232
248	4/22	Cole	9.9	4.2	1.01	1.72	4.3		.6	9		925A 940A	FC 36
249	4/28	Lindsay	9.0	3.59	1.00	1.67	3.5		.6	8		1107A 1119A	FC 28
250	5/1	H. C. McCreery	9.	3.2	.78	1.59	2.4		.6	14		1110A 1122A	1232
251	5/6	Cole	9.0	2.97	0.70	1.60	2.1		.6	7		920A 930A	FC 36
252	5/8	H. C. McCreery	8.5	3.2	0.59	1.58	1.9		.6	14		1100A 1115A	1232
253	5/13	Lindsay	9.0	4.35	1.06	1.71	4.6		.6	8		105P 115P	FC 28
254	5/17	H. C. McCreery	11.5	5.3	0.89	1.68	4.7		.6	17		1215P 1230P	1232
255	5/20	Cole	10.2	4.1	.92	1.70	3.8		.6	9		922A 934A	FC 36
258	5/24	H. C. McCreery					1.39	.2		8		1135A 1145A	1232
259	5/31	"	7.3	1.9	.26	1.48	.5			13		1018A 1028A	"

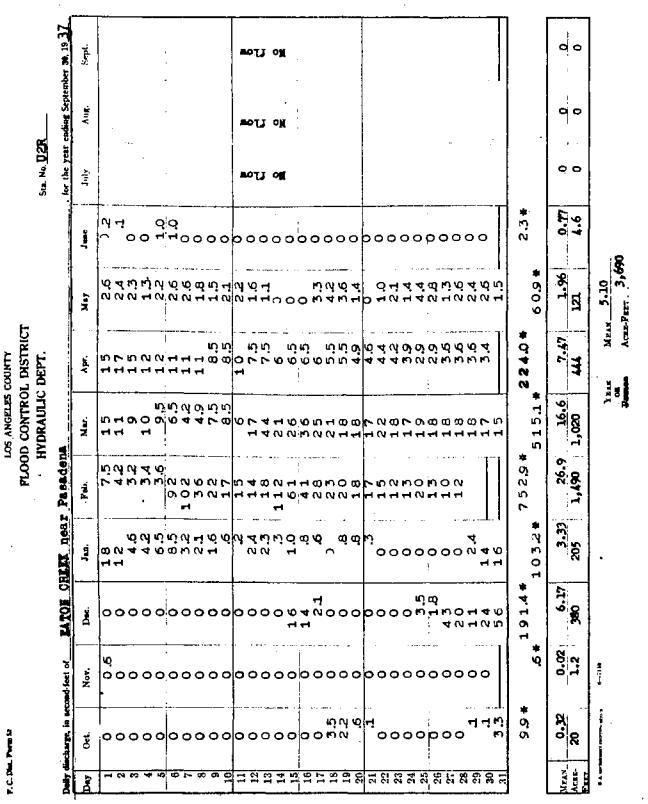
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 2 R

DISCHARGE MEASUREMENTS OF EATON CREEK

XX NEAR Pasadena, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	BETH-OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
260	12/11	Lindsay-Ingram	9.0	5.17	0.59	1.73	3.1		.6	5		345P 350P	FC 28
261	12/12	R. S. Lord	11.	5.0	1.12	1.68	5.6		.6			840A 900A	1215
262	12/23	Lindsay-Ingram	11.0	7.15	0.49	1.68	3.5		.6	6		850A 900A	FC 28
263	1/15	R. S. Lord	16.	9.6	3.02	2.14	29.		.6			1210P 1222P	29529
264	1/15	Hair-Baustian	13.	9.2	2.20	1.99	2.0		.6	8		115P 122P	FC 1
265	2/1	R. S. Lord	12.	5.5	2.00	1.83	11.		.6			1115A 1125A	29529
266	2/4	"	20.	18.	4.22	2.50	76.		.6			830A 855A	1215
267	2/4	Haig	16.	16.	3.83	2.40	59.		.6	10		123P 144P	FC 1
268	2/9	Lindsay-Ingram	11.5	6.16	2.40	1.98	15.		.6	6		454P 504P	FC 28
269	2/11	Lord-Ebert	18.	12.	5.42	2.61	65.		.6			535P 550P	29529
270	2/12	F. C. Ebert	16.	9.7	3.61	2.10	35.		.6			345P 400P	27214
271	2/15	R. S. Lord	10.	5.2	1.36	1.74	7.2		.6			130P	1215
272	2/16	Lindsay	9.7	4.44	1.02	1.69	4.5		.6	7		308P 320P	FC 28
273	3/1	R. S. Lord	21.	17.	8.83	3.50	144.		.6			200P 220P	1215
274	3/10	Lindsay-Ingram	16.0	10.29	3.31		34.		.6	8		230P	FC 28
275	3/14	R. S. Lord	19.	17.	3.90		68.		.6				1215
276	3/16	"	18.	15.	3.30		48.		.6				"
277	3/23	Lindsay	16.0	10.38	2.60	5.95	27.		.6	8		107P 115P	FC 28
278	3/28	R. S. Lord	16.	11.	2.17	5.88	24.		.6			330P 340P	1215
279	3/29	"	16.	11.	2.30	5.90	22.		.6			440P 455P	"
280	5/30	Lindsay	13.5	8.60	1.86	5.89	16.		.6	7		1232P 1242P	FC 28
281	4/7	Haig	9.0	5.2	2.09	5.73	11.		.6	9		1102A 1117A	FC 38
282	4/12	R. S. Lord	10.	6.0	1.48	5.67	8.9		.6			440P	1215
283	4/14	Haig	8.6	4.6	1.91	5.69	8.8		.6	10	0	1038A 1050A	FC 1
284	4/16	R. S. Lord	10.5	5.5	1.42	5.66	7.8		.6			1100A	1215
285	4/22	Haig	8.0	4.0	1.52	5.61	6.0		.6	8	0	910A 922A	FC 38
286	4/25	Wilson-Lord	10.5	4.8	.96	5.55	4.5		.6			845A 900A	1215
287	4/28	Lindsay	9.0	2.73	1.15	5.54	3.1		.6	7	0	357P 410P	FC 28
288	5/2	A. Wilson	9.7	5.1	2.30	5.71	12.		.6			755A 810A	29567
289	5/5	Lindsay	9.3	3.80	1.72	5.66	6.5		.6	7	0	412P 422P	FC 28
290	5/9	A. Wilson	9.0	5.0	1.64	5.66	8.2		.6			1020A 1045A	29567
291	5/12	Haig	9.5	4.28	1.63	5.65	7.0		.6	10	0	1010A 1018A	FC 38
292	5/16	A. Wilson	6.0	2.1	.78	5.42	1.7		.6			315P 325P	29567
293	5/19	Haig	6.7	2.19	.74	6.41	1.6		.6	5	0	954A 1000A	FC 38
294	5/23	A. Wilson	4.5	1.2	.46	5.32	0.6		.6			1130A 1140A	29567
295	5/26	Haig					No Flow					1015A	
296	6/30	A. Wilson	2.5	0.6	.69	5.34	0.4		.6			1055A 1102A	29567



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U7R

Daily discharge, in second-feet of RATON CREEK near Pasadena for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.6	0	18	7.5	15	15	2.6	2.2			
2	0	0	0	12	4.2	11	17	2.4	0.1			
3	0	0	0	4.6	3.2	9	15	2.3	0			
4	0	0	0	4.2	3.4	10	12	1.3	0			
5	0	0	0	6.5	3.6	9.5	12	2.2	1.0			
6	0	0	0	8.5	9.2	6.5	11	2.6	1.0			
7	0	0	0	3.2	10.2	4.2	11	2.6	0			
8	0	0	0	2.1	3.6	4.9	11	1.8	0			
9	0	0	0	1.6	2.2	7.5	8.5	1.5	0			
10	0	0	0	.2	1.5	8.5	8.5	2.1	0			
11	0	0	0	2.4	14	17	10	2.2	0			
12	0	0	0	2.3	18	44	7.5	1.6	0			
13	0	0	0	.3	112	21	7.5	1.1	0			
14	0	0	0	1.0	41	26	6.5	0	0			
15	0	0	16	1.8	36	6.5	6.5	0	0			
16	0	0	1.2	.6	28	21	5.5	3.3	0			
17	3.5	0	2.1	.3	23	20	5.5	4.2	0			
18	2.2	0	0	.8	20	18	5.5	3.6	0			
19	.6	0	0	.8	18	18	4.9	1.4	0			
20	.1	0	0	.3	17	17	4.6	0	0			
21	0	0	0	0	15	22	4.4	1.0	0			
22	0	0	0	0	12	18	4.2	2.1	0			
23	0	0	0	0	13	17	3.9	1.4	0			
24	0	0	0.5	0	20	19	2.9	4.4	0			
25	0	0	1.8	0	13	18	2.9	2.8	0			
26	0	0	4.5	0	13	18	3.6	1.5	0			
27	0	0	2.1	0	12	18	3.6	2.4	0			
28	0	.1	0	0		18	3.6	2.4	0			
29	.1	0	0	2.4		17	3.4	2.5	0			
30	3.3	0	2.4	14		15		1.5	0			
31			5.6	16								
	9.9*	.5*	19.4*	103.2*	75.9*	515.1*	224.0*	60.9*	2.3*			

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Max.	0.32	0.02	6.17	3.33	26.9	16.6	7.47	1.96	0.77	0	0	0
Acre-ft.	20	1.2	380	205	1,490	1,020	444	121	4.6	0	0	0

Year 1937 Mean 5.10
Acre-Feet 3,690

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U7R

Daily discharge, in second-feet of RATON CREEK near Pasadena for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	.2	9	142	13	5.5	.4			
2	0	0	0	.8	19	136	13	6	0			
3	0	0	0	0	16	118	9	3	0			
4	0	0	0	0	46	91	12	6	0			
5	0	0	0	0	20	82	11	7.5	0			
6	0	0	0	0	4.6	70	11	7.5	0			
7	0	0	0	0	0	63	11	8	0			
8	0	0	0	0	0	58	10	8	0			
9	0	0	0	0	0	50	8.5	7.5	1.1			
10	0	0	0	0	6.5	37	8.5	7.5	1.3			
11	1.1	0	.1	0	0	43	9	7.5	.4			
12	9	2.4	0	0	45	56	14	7.5	.3			
13	2.4	0	0	0	40	66	12	7.7	.2			
14	0	0	0	0	20	60	10	7.7	.1			
15	0	0	0	0	11.5	51	8.5	7.7	0			
16	0	0	0	1.3	7.5	45	8	5.5	0			
17	0	0	0	1.6	5	35	7	5.5	0			
18	0	0	0	.4	5	39	6	1.8	0			
19	0	0	0	.6	3	35	6	1.9	0			
20	0	0	0	0	3	35	7.5	2.2	0			
21	0	0	0	0	2	32	8	2.1	0			
22	0	0	0	0	2	28	7	1.3	0			
23	0	0	0	0	2	26	6	.6	0			
24	0	0	0	0	2	24	5.5	.6	0			
25	0	0	0	0	2	23	5	3.6	0			
26	0	0	0	0	2	24	4.5	0	0			
27	0	0	0	0	2	24	4.5	0	0			
28	0	0	0	0	2	23	4.5	.8	0			
29	0	0	0	0	2	22	3.5	.7	0			
30	0	0	0	0	0	18	4.5	.6	0			
31	0		2.4	0		17						
	17*	2.4*	2.7*	4.9*	179*	1448*	252.5*	125.3*	2.8*			

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Max.	0	0	.55	.56	17.2	29.0	8.48	4.04	.09	0	0	0
Acre-ft.	0	0	54	56	955	4,880	501	249	5.6	0	0	0

Year 38 Mean 9.16
Acre-Feet 6,640

STATION U7R

FISH CREEK near Duarte, Calif.

LOCATION:

Water-stage recorder, lat. 34° 10'00", 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 1938.

AVERAGE DISCHARGE:

21 years (1917-38) 4.24 second-feet.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 252 second-feet December 30.
Minimum 0.4 second-feet September 17.
1937-1938
Maximum 2100 second-feet March 2.
Minimum 1.0 second-feet September 22.
1916-1938
Maximum about 2180 second-feet April 4, 1925.
Minimum no flow during periods in 1919-21, 1924, 1929-30.

REMARKS:

1936-1937 - Records good. Discharge November 27 to December 9; January 1-7, 20-26 computed on basis of one discharge measurement and records of stations on nearby streams.
1937-1938 - Records good October 1 to January 11, poor January 12 to March 15, and fair March 16 to September 30.
Discharge January 12 to March 15 determined from hydrograph based on frequent measurements, comparison with adjacent streams and rainfall runoff studies.
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 meter measurements at various times.

F.C.D. FORM 104 1M 9-37

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, 19 37

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.	METH OD	MEAS. REC'S. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1077	10/2	Lindsay	6.4	2.3	1.48	2.90	3.4		.6	7		1016A 1026A	FC 28
1078	10/8	R. Stanley Lord	8.	3.2		2.88	3.4		.6	8		920A 930A	1215
1079	10/22	Lindsay	5.8	1.5	1.9	2.82	3.0		.6	6		303P 313P	FC 28
1080	10/28	R. Stanley Lord				2.86	3.1						1215
1081	11/6	Lindsay	6.5	2.0	1.38	2.85	2.7		.6	7		822A 829A	FC 28
1082	11/12	Lindsay and Patterson	6.4	1.9	1.48	2.84	2.8		.6	8		224P 233P	"
1083	11/25	Lindsay	7.5	2.3	1.18	2.84	2.7		.6	8		318P 328P	"
1084	12/10	"	6.5	1.8	1.61	2.85	2.8		.6	7		105P 115P	"
1085	12/15	R. Stanley Lord				3.10	13.		.6	10		1115A 1130A	1215
1086	12/17	Lindsay	11.5	4.2	1.34	2.91	5.6		.6	9		858A 913A	FC 28
1087	12/23	Lindsay	10.2	2.68	1.00	2.83	2.9		.6	8		1140A 1150A	"
1088	12/30	"	10.4	3.5	2.60	3.27	9.0		.6	8		1125A 1140A	"
1089	1/8	"	9.8	3.7	2.95	3.23	11.		.6	7		850A 900A	"
1090	1/9	R. Stanley Lord	12.7	3.9	2.31	3.19	9.0		.6	12		1110A 1125A	1215
1091	1/13	Lindsay	9.9	4.37	2.06	3.22	9.0		.6	8		102P 113P	FC 28
1092	1/19	H. C. McCreery				3.13	5.8		.6	20		115P 135P	1232
1093	1/21	Lindsay	9.8	3.4	1.55	3.11	5.2		.6	7		1005A 1015A	FC 28
1094	1/27	H. C. McCreery				3.09	4.9		.6	17		1130A 1145A	1232
1095	1/28	Lindsay	9.0	3.2	1.41	3.08	4.6		.6	7		313P 323P	FC 28
1096	2/3	H. C. McCreery	17.3	7.0		3.31	12.		.6	20		1240P 1255P	1232
1097	2/4	Lindsay	11.2	6.0	1.75	3.29	11.		.6	8		325P 340P	FC 28
1098	2/7	H. C. McCreery	21.	27.		4.24	100.		.6	22		1008A 1032A	1232
1099	2/11	"	17.3	11.		3.60	23.		.6	17		925A 940A	1232
1100	2/16	"	18.	22.		3.99	57.		.6	23		355P 420P	"
1101	2/19	Lindsay and McArthur	12.	15.	1.78	3.77	27.		.6	9		1035A 1045A	FC 28
1102	2/23	H. C. McCreery	17.	12.		3.60	20.		.6	17		1120A 1135A	1232
1103	2/25	Lindsay and McArthur	13.	14.	1.61	3.72	23.		.6	7		415P 425P	FC 28
1104	3/3	H. C. McCreery	14.7	8.5		3.50	14.		.6	16		1040A 1055A	1232
1105	3/4	Lindsay	15.5	8.0	1.57	3.46	13.		.6	8		517P 532P	FC 28
1106	3/10	H. C. McCreery	12.7	7.0		3.38	9.2		.6	18		1245P 105P	1232
1107	3/11	Lindsay	15.	6.9	1.32	3.36	9.1		.6	10		215P 225P	FC 28
1108	3/15	H. C. McCreery	16.3	10.		3.64	22.		.6	17		145P 200P	1232
1109	3/18	Lindsay	17.	15.	2.36	3.78	36.		.6	9		145P 200P	FC 28
1110	3/22	R. Stanley Lord	17.	16.		3.81	40.		.6	15		350P 405P	1215
1111	3/31	H. C. McCreery	18.	9.6		3.57	19.		.6	20		1145A 1205P	29529
1112	4/1	Lindsay	15.8	9.1	2.23	3.55	20.		.6	8		1138A 1148A	FC 28
1113	4/6	H. C. McCreery				3.46	15.		.6	16		1205P 1220P	1232
1114	4/12	"	15.	7.7	1.56	3.39	12.		.6	20		1045A 1105A	"
1115	4/15	Lindsay	14.5	6.21	1.75	3.36	11.		.6	8		1140A 1150A	FC 28
1116	4/19	H. C. McCreery	14.7	5.3	1.45	3.31	7.7		.6	15		400P 415P	1232
1117	4/26	"	14.	6.2	1.19	3.28	7.4		.6	17		1245P 100P	"
1118	4/29	Lindsay	14.0	4.90	1.43	3.28	7.		.6	8		150P 201P	FC 28
1119	5/3	H. C. McCreery	11.	4.9	1.20	3.22	5.9		.6	17		410P 425P	1232
1120	5/6	Lindsay	13.3	4.43	1.35	3.24	5.8		.6	8		1200N 1213P	FC 28
1121	5/10	H. C. McCreery	10.	5.2	1.15	3.24	6.0		.6	16			1232
1122	5/17	"	11.5	4.5	1.09	3.16	4.9		.6	17		155P 210P	"
1123	5/20	Lindsay	12.0	3.16	1.16	3.14	3.7		.6	6		220P 230P	FC 28
1124	5/24	H. C. McCreery	10.6	5.6	.98	3.20	4.9		.6	18		105P 120P	1232
1125	5/28	Lindsay	11.0	3.38	1.27	3.18	4.3		.6	7		928A 938A	FC 28
1126	6/2	H. C. McCreery	10.8	5.5	.75	3.14	4.1		.6	16		1015A 1025A	1232
1127	6/4	Lindsay	12.0	3.34	1.16	3.15	3.9		.6	6		820A 830A	FC 28
1128	6/7	H. C. McCreery	9.2	3.7	1.05	3.12	3.9		.6	16		150P 205P	1232
1129	6/10	Lindsay	11.5	3.11	1.07	3.13	3.3		.6	7		1108A 1118A	FC 28
1130	6/14	H. C. McCreery	9.7	3.3	1.09	3.11	3.6		.6	16		1125A 1140A	1232
1131	6/17	Lindsay	10.5	2.63	.98	3.08	2.6		.6	7		235P 243P	FC 28
1132	6/21	H. C. McCreery	11.	4.8	.60	3.06	2.9		.6	15		1155A 1220P	1232
1133	6/24	Lindsay	10.	2.2	.87	3.01	1.9		.6			133P 140P	FC 28
1134	6/29	H. C. McCreery	8.5	2.7	.85	3.03	2.3		.6	14		1020A 1030A	1232
1135	7/1	Lindsay	10.	2.2	.81	3.00	1.8		.6	5		1245P 1255P	FC 28
1136	7/8	"	9.0	1.7	.67	2.94	1.1		.6	6		345P 355P	"
1137	7/21	R. Stanley Lord	6.0	1.8	1.0	2.98	1.8		.6	6		150P 200P	1215
1138	7/22	Lindsay	9.5	1.8	.68	2.92	1.2		.6	7		219P 228P	FC 28
1139	7/29	"	2.7	.56	1.93	2.94	1.1		.6	5		1212P 1220P	"
1140	8/5	"	2.6	.69		2.92	.92		.6	5		1137A 1143A	"
1141	8/9	R. Stanley Lord	3.5	1.0	1.00	2.90	1.0		.6	7		1020A 1030A	1215
1142	8/12	Lindsay	2.9	.78	.98	2.91	.77		.6	5		1213P 1220P	FC 28
1143	8/18	"	2.8	.80	1.21	2.92	.97		.6	5		1147A 1157A	"
1144	8/21	R. Stanley Lord				2.92	1.0		.6			1000A	1215
1145	9/1	Brewster	2.5	1.2	.88	2.88	1.0		.6	5		140P 150P	FC 8
1146	9/10	Brewster	2.4	1.1	.74	2.83	.80		.6	3		250P 257P	FC 8
1147	9/14	R. Stanley Lord				2.85	.62		.6	6		750A	1215
1148	9/16	Lindsay	2.7	.68	.81	2.84	.55		.6	5		1247P 1255P	FC 28
1149	9/24	"	3.9	1.5	1.25	3.04	1.9		.6	6		657A 708A	"
1150	9/30	"	3.7	1.6	1.32	3.04	2.1		.6	7		1126A 1136A	"

F.C.D. FORM 104 1M 9-37

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, 19 38

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.	METH OD	MEAS. REC'S. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1151	10/1	R. S. Lord	9.3	3.9	.62	3.05	2.4		.6			1040A	1215
1152	10/7	R. Lindsay	3.8	1.5	1.32	3.02	2.0		.6			1055A 1105A	FC 28
1153	10/14	"	3.8	1.6	1.30	3.01	2.1		.6			819A 829A	"
1154	10/22	"	3.5	1.3	1.04	2.99	1.4		.6			923A 930A	"
1155	10/26	R. S. Lord	6.6	2.1	0.86	3.00	1.8		.6			1135A	29529
1156	10/28	R. Lindsay	3.5	1.4			1.6		.6			307P 314P	FC 28
1157	11/4	"	3.4	1.5	1.04	3.00	1.6		.6			312P 320P	"
1158	11/10	"	3.5	1.5	1.03	3.01	1.5		.6			212P 219P	"
1159	11/27	R. S. Lord	5.0	1.8	1.17	3.02	2.1		.6			850A 900A	29529
1160	12/2	R. Lindsay	3.6	1.7	0.89	3.02	1.5		.6			202P 210P	FC 28
1161	12/12	R. S. Lord	9.5	5.7	1.00	3.24	5.7		.6			1150A 1200N	1215
1162	12/16	R. Lindsay	3.9	1.6	1.01	3.00	1.6		.6			242P 252P	FC 28
1163	12/23	"				3.24	5.4		.6			1215P 1225P	"
1164	12/28	R. S. Lord	11.	6.9	0.61	3.12	4.2		.6			1155A	29529
1165	12/30	R. Lindsay	4.1	1.2	2.28	3.06	2.7		.6			204P 208P	FC 28
1166	1/6	"	4.0	1.6	1.24	3.02	2.0		.6			148P 154P	"
1167	1/11	R. S. Lord	3.4	1.4	0.57	3.00	2.2		.6				1215
1168	1/20	R. Lindsay	4.9	2.8	1.23	3.14	3.5		.6			215P 225P	FC 28
1169	1/26	R. S. Lord	4.7	2.6	1.08		2.8		.6			1115A	29529
1170	2/1	F. C. Ebert	10.	9.2	2.07	3.56	19.		.6			110P 130P	27214
1171	2/4	"	24.	13.	3.28		59.		.6			225P 250P	"
1172	2/13	"	15.7	8.8	2.84	2.60	25.		.6			1120A 1140A	"
1173	2/16	R. Lindsay	17.5	6.5	1.76	3.28	12.		.6			503P 515P	FC 28
1174	2/24	"	15.8	4.14	1.28	3.16	5.3		.6			308P 320P	"
1175	3/10	Lindsay-Ingram	17.5	7.15	4.86		35.		.6			1115A 1125A	FC 28
1176	3/14	R. S. Lord	20.	16.	4.30	4.80	67.		.6			1035A 1050A	1215
1177	3/15	Lindsay	12.5	13.	3.49		45.		.6			200P 215P	FC 28
1178	3/16	R. S. Lord	20.	16.	3.20	11.92	52.		.6			1135A 1150A	1215

P.C.D. Form No. 16 2-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 7 B

DISCHARGE MEASUREMENTS OF FISH CREEK

NEAR Duarte, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	NAME BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERMIT SHT.	NOTES	MEAS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
*												320P	
1179	3/17	Lindsay	11.0	11.06	3.48		39.		.6			330P	FC 28
*												1255P	
1180	3/22	"	10.5	8.99	2.98		27.		.6			105P	"
*												315P	
1181	3/24	"	9.5	7.43	3.01		22.		.6			323P	"
*												930A	
1182	3/31	"	9.0	6.47	2.70		17.		.6			940A	"
*												1055A	
1183	4/6	Haig-Lindsay	9.6	6.28	2.20		14.		.6			1105A	"
*												1035A	
1184	4/14	Lindsay-Ingram	9.5	5.40	1.91		10.		.6			1045A	"
*												312P	
1185	4/21	Haig	6.8	4.78	1.70		8.1		.6			322P	FC 38
		Lord and										1110A	
1186	4/25	A. Wilson	12.5	8.6	1.31	11.34	11.		.6			1103A	1215
*												135P	
1187	4/27	Lindsay	8.0	3.76	1.40		5.3		.6			145P	FC 28
												845A	
1188	5/4	A. Wilson	12.	5.5	1.61	11.27	8.8		.6			915A	29567
*												120P	
1189	5/4	Lindsay	7.7	3.25	1.33		4.3		.6			132P	FC 28
												930A	
1190	5/11	A. Wilson	7.3	14.	1.07	11.22	15.		.6			945A	29567
*												1240P	
1191	5/11	Haig	6.5	3.80	.87		3.3		.6			1249P	FC 38
*												1206P	
1192	5/18	"	7.0	3.54	1.02		3.6		.6			1215P	"
												230P	
1193	5/18	A. Wilson	10.	7.1	1.02	11.20	7.2		.6			245P	29567
												200P	
1194	5/24	Wilson-Lord	11.3	4.3	1.12	11.14	4.8		.6			215P	29567
*												1120A	
1195	5/25	Haig	5.3	2.09	.92		1.9		.6			1128A	FC 38
												1205P	
1196	6/1	A. Wilson	9.1	6.0	0.80	11.12	4.8		.6			1219P	29567
*												1230P	
1197	6/1	Haig	6.5	1.50	.82		1.2		.6			1238P	FC 38
												750A	
1198	6/7	A. Wilson	11.3	5.0	1.14	11.10	5.7		.6			805A	29567
												1155A	
1199	6/14	A. Wilson	11.5	4.6	1.10	11.10	5.1		.6			1212P	29567
*												400P	
1200	6/16	Lindsay	8.0	2.64	1.21		3.2		.6			410P	FC 28
												215P	
1201	6/25	A. Wilson	9.3	5.5	0.63	11.05	3.6		.6			233P	29567
*												140P	
1202	6/29	Lindsay	6.2	1.58	1.64	11.42	2.6		.6			148P	FC 28
												1250P	
1203	7/5	A. Wilson	5.8	2.4	1.64	11.35	3.9		.6			1257P	29567
*												300P	
1204	7/11	"	6.0	2.1	1.30	11.32	2.7		.6			316P	"
*												935A	
1205	7/13	Lindsay	9.5	3.26	1.69		5.5		.6			943A	FC 28
*												640A	
1206	7/16	"	9.0	2.82	1.59		4.5		.6			648A	"
*												805A	
1207	7/25	"	9.8	3.97	2.06		8.2		.6			813A	"
												935A	
1208	7/25	Wilson-Tucker	5.1	2.0	1.54	11.30	3.0		.6			945A	29567
*												815A	
1209	7/27	Lindsay	9.3	2.74	1.46		4.0		.6			823A	FC 28
*												815A	
1210	8/1	"	9.0	3.03	1.29		3.9		.6			825A	"
												935A	
1211	8/1	Tucker	5.5	1.9	1.16	11.25	2.2		.6			945A	29567
*												835A	
1212	8/5	Lindsay	9.0	2.85	1.40		4.0		.6			843A	FC 28
*												1027A	
1213	8/8	"	10.0	3.72	1.68		6.2		.6			1035A	"
												1146A	
1214	8/8	Tucker	5.8	1.8	1.43	11.27	2.5		.6			1156A	29567
												1102A	
1215	8/11	Lindsay	3.7	1.10	1.42	11.24	1.6		.6			1108A	FC 28
												955A	
1216	8/15	Tucker	5.7	1.8	1.28	11.24	2.3		.6			1010A	29567
1217	8/23	"	6.2	1.5	0.73	11.20	1.1		.6			1228P	"
												1147A	
1217A	8/24	Lindsay	3.8	1.03	1.26	11.20	1.3		.6			1154A	FC 28
												952A	
1218	8/29	Tucker	5.3	1.4	1.09	11.20	1.5		.6			1008A	29567
1219	9/6	"	5.7	2.0	0.63	11.20	1.3		.6			106P	"
												121P	
1219A	9/7	Brewster	4.0	1.17	1.09	11.18	1.3		.6			600P	
												606P	FC 8
1220	9/13	Tucker	5.5	1.8	0.59	11.19	1.1		.6			1040A	
												1100A	29567
1221	9/19	"	5.8	2.0	0.50	11.20	1.0		.6			1135A	
												1154A	"
1222	9/26	"	5.6	1.9	0.68	11.18	1.3		.6			1007A	
												1027A	"

* Measurements made near mouth of canyon below Duarte Diversion.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U7A

Daily discharge, in second-feet of FISH CREEK near Duarte for the year ending September 30, 19 36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.1	1.7	1.5	2.2	1.9	2.67	24	10	4.8	2.4	1.8	1.2
2	2.2	1.7	1.5	2.1	1.9	3.02	23	11	5.5	2.1	1.8	1.2
3	2.2	1.6	1.5	1.9	1.40	1.35	20	12	5.5	3.5	1.8	1.2
4	2.2	1.6	1.5	1.9	1.59	1.96	18	9.5	5.5	3.7	1.8	1.2
5	2.1	1.7	1.5	2.1	2.3	7.0	22	9	5.5	3.7	1.8	1.2
6	1.9	1.7	1.5	1.9	1.2	6.1	20	10	5.5	3.7	1.8	1.5
7	1.8	1.6	1.5	2.1	1.1	5.2	19	10	5.5	3.2	2.1	1.5
8	1.7	1.6	1.5	2.0	1.0	4.6	19	11	5.5	3.2	2.0	1.4
9	1.7	1.5	1.5	2.1	1.8	4.4	18	11	6	2.7	1.8	1.4
10	1.8	1.5	2.9	1.8	5.6	3.3	16	14	5.5	2.7	1.6	1.2
11	1.8	1.5	1.30	2.2	4.5	3.0	17	13	5.5	2.7	1.8	1.1
12	1.8	1.6	6.0	2.2	2.5	2.7	16	11	5.5	2.6	1.8	1.1
13	2.1	1.6	2.6	2.2	2.1	2.6	15	10	4.6	3.0	1.8	1.1
14	2.2	1.7	2.1	2.2	1.9	2.5	13	9	4.6	3.0	2.0	1.1
15	2.1	1.7	1.7	1.2	1.8	2.3	12	8	4.6	2.8	1.8	1.1
16	1.7	1.6	1.6	6.9	8.5	4.2	13	7.5	4.6	2.7	1.6	1.1
17	1.6	1.8	1.5	3.9	3.9	4.6	12	8	4.6	2.7	1.5	1.1
18	1.5	1.8	1.5	3.9	3.5	4.6	11	8	5	2.7	1.5	1.1
19	1.5	1.8	1.4	3.9	9.5	4.1	11	7.5	5	3.0	1.5	1.1
20	1.5	1.7	1.4	3.5	7.5	4.0	11	7.5	5	3.0	1.5	1.1
21	1.5	1.7	1.4	3.1	6.5	4.0	11	7.5	5	3.0	1.5	1.1
22	1.4	1.8	1.6	3.0	6.5	3.7	11	7.5	4.4	3.0	1.4	1.0
23	1.4	1.9	2.6	3.0	5.5	3.4	11	7.6	4.4	3.0	1.4	1.1
24	1.4	1.7	2.5	2.6	5.5	3.3	12	6	4.4	3.0	1.4	1.1
25	1.7	1.9	2.5	2.8	5.5	3.0	13	6	3.8	3.0	1.4	1.1
26	1.7	1.9	5.5	2.6	5.5	3.0	11	5.5	3.6	3.0	1.4	1.1
27	1.6	1.9	6.5	2.6	5.9	2.8	10	5.5	3.5	2.8	1.5	1.1
28	1.6	1.8	4.0	2.5	1.90	2.8	10	5.5	3.5	2.5	1.5	1.1
29	1.6	1.7	3.6	2.5		2.7	11	5.5	3.5	2.4	1.5	1.1
30	1.5	1.6	2.6	2.5		2.6		5.5	2.2	2.4	1.5	1.1
31	1.5		2.6	2.5		2.6		5.5		2.4	1.5	1.1
	55.7*	51.2*	87.4*	92.4*	76.75*	271.7*	455	261*	138.1*	89.1*	50.3*	35.3*

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Mean	1.80	1.71	2.82	2.98	2.74	8.77	15.2	8.42	4.60	2.87	1.62	1.18
Acre-Feet	110	102	173	183	152	538	908	518	274	177	100	70

* Estimated from rainfall

Year Mean 15.8
Acre-Feet 9,560

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U7A

Daily discharge, in second-feet of FISH CREEK near Duarte for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.9	3.4	2.8	2.2	1.7	1.4	19	6.5	3.8	1.6	1.2	0.8
2	3.7	3.0	2.8	1.4	1.4	1.4	19	6.0	3.8	1.6	1.1	.7
3	3.7	2.8	2.8	1.1	1.2	1.3	17	6.5	3.5	1.6	.9	.6
4	3.7	2.8	2.8	1.0	1.1	1.3	15	6.5	3.0	1.5	.8	.6
5	3.7	2.8	2.8	1.9	1.03	1.2	15	6	4.2	1.5	.8	.5
6	3.4	2.8	2.8	2.1	1.02	1.2	14	6	4.0	1.5	.8	.5
7	3.4	2.8	2.8	2.1	1.02	1.1	14	6	3.6	1.5	.8	.5
8	3.2	3.0	2.8	1.9	.98	1.0	13	6	3.8	1.5	.8	.5
9	3.2	3.0	2.8	8.5	.85	.95	12	6	3.6	1.5	.8	.5
10	3.2	3.0	2.8	8	7	9.5	12	5.5	3.4	1.5	.8	.5
11	3.2	3.0	2.8	8.5	23	21	11	5	3.2	1.5	.9	.5
12	3.2	3.0	2.8	8.5	20	46	11	4.8	3.1	1.5	.8	.5
13	3.2	3.0	3.0	7	33	27	11	4.6	2.9	1.5	.8	.5
14	2.8	3.2	3.0	7	142	87	36	4.6	2.9	1.5	.8	.5
15	3.0	3.2	3.0	6.5	59	56	36	4.6	2.9	1.5	.8	.5
16	3.0	3.2	3.0	6	47	36	105	4.6	2.9	1.5	.8	.4
17	3.0	3.0	3.0	5.5	37	31	9	4.4	2.8	1.5	.8	.5
18	3.0	3.0	3.0	6	27	30	8	4.4	2.6	1.5	.9	1.2
19	3.2	3.0	3.0	6	25	29	8	4.2	2.5	1.5	.9	1.9
20	3.2	3.0	3.0	5.5	23	29	8	4.2	2.4	1.5	.8	2.1
21	3.0	3.0	3.0	5	20	39	8	4.5	2.4	1.5	.8	2.2
22	3.0	3.0	3.0	5	20	33	7.5	5	2.2	1.3	.8	2.4
23	2.8	3.0	2.8	5	20	33	7.5	5	2.1	1.2	.8	2.1
24	2.8	3.0	2.8	4.8	23	31	7.5	5	2.1	1.2	.8	1.6
25	2.8	2.8	4.8	4.8	23	31	7.5	5	2.1	1.2	.8	1.7
26	2.6	2.8	3.7	4.8	19	29	7.5	4.8	1.9	1.0	.7	2.1
27	2.5	2.8	81	4.8	17	27	7.5	4.8	1.9	.9	.7	2.2
28	2.5	2.8	50	4.8	16	25	7	4.8	1.9	1.1	.7	2.4
29	3.2	2.8	14	8.5		23	7	4.8	1.8	1.3	.8	2.5
30	3.4	2.8	45	38		21		4.4	1.6	1.3	.8	
31	8.5		84	31		20						
	112.9*	88.6*	418.5*	303.2*	1054 *	750.0*	330.5*	159.5*	88.1*	44.4*	26.1*	34.3*

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Mean	3.64	2.95	13.5	9.78	37.6	24.2	11.0	5.15	2.94	1.43	0.84	1.14
Acre-Feet	224	176	830	601	2,090	1,490	656	316	175	88	52	68

Year Mean 9.34
Acre-Feet 6,770

STATION U12R

HAINES CREEK near Tujunga, Calif.

LOCATION:

Water-stage recorder and broad crested weir control, lat. 34° 15' 50", long. 118° 16' 15", in S.W. 1/4 N.W. 1/4 sec. 17, T. 2 N., R. 13 W., 800 feet above mouth of canyon, and 1-1/2 miles northeast of Tujunga. Altitude approximately 2,200 feet.

DRAINAGE AREA:

1.2 square miles.

RECORDS AVAILABLE:

February, 1917 to September, 1934 and October, 1935 to September, 1938.

AVERAGE DISCHARGE:

19 years, 0.11 second-foot.
20 years, 0.14 second-foot.

EXTREMES OF DISCHARGE:

1936-1937
Maximum about 40 second-feet December 27, from rating extended above 1.0 second-foot.
Minimum no flow for several months.

1937-1938
Maximum 265 second-feet March 2.
Minimum no flow for several months.

1917-1934, 1935-1938
Maximum stage 11.0 feet, January 1, 1934 (discharge not determined).
Minimum no flow for periods nearly every year.

REMARKS:

1936-1937
Records fair. Discharge for October 18, computed on basis of rainfall records and records of Arroyo Seco near Pasadena, California; that for June 1-21, computed on basis of two discharge measurements.

1937-1938
Record good except for flood period which is fair. Discharge March 5, 6, April 3-7, and July 8-16 determined by comparison with adjacent streams.

Station owned and operated by U.S.G.S. Water Resources Branch.

F.C.D. FORM 104 IN 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 12 R

DISCHARGE MEASUREMENTS OF HAINES CREEK

KK MEAN Tujunga, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	RETING	MEAS. SECC. NO.	S. HT. CHANGE TOTAL	BEGIN END	METER NO.
189	12/27	R. Stanley Lord				1.20	0.05						
190	2/1	H. C. McCreery				1.06	.01		Vol.			950A	
191	2/6	"				1.26	.03		Vol.			1205P	
192	2/10	"				1.19	.04		Vol.			430P	
193	2/15	"				1.24	.38		Vol.			850A	
194	3/1	"				1.24	.33		Vol.			925A	
195	3/15	"				1.25	.4					945A	1232
196	3/10	"				1.21	.3		Vol.			905A	
197	3/22	R. Stanley Lord				1.37	.80		.6			1130A	1215
198	3/22	"				1.38	.95		.6			1110A	"
199	3/22	"	Mean of two meas.			1.35	.71					1015A	"
200	3/31	H. C. McCreery				1.28	.5		Vol.			930A	
201	4/6	"				1.30	.32					850A	1232
202	4/12	R. Stanley Lord				1.23	.28					1055A	29529
203	4/21	H. C. McCreery				1.21	.253		Vol.			845A	
204	5/3	"				1.16	.148		Venturi Flume			940A	
205	5/24	"				1.08	.016		Vol.			800A	
206	6/7	"				1.05	.011		Vol.			900A	
207	6/21	"				1.05	.005		Vol.			900A	

F.C.D. FORM 104 IN 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 12 R

DISCHARGE MEASUREMENTS OF HAINES CREEK

KK MEAN Tujunga, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	RETING	MEAS. SECC. NO.	S. HT. CHANGE TOTAL	BEGIN END	METER NO.
208	1/15	R. S. Lord	1.2	.28	.86	1.18	.24		.6			1100A	
209	2/28	"					2.4		.6			905A	
210	3/7	"	3.5	1.3	2.46	1.66	3.2		.6			1145A 1150A	
211	3/28	"	3.0	.95	1.00	1.40	1.0		.6			225P 240P	
212	4/16	"	3.0	.60	1.00		.60		.6			950A	
213	5/2	A. Wilson	2.4	.65	1.06		.70		.6			115P 130P	
214	5/9	"	2.5	.50	1.60	1.30	.80		.6			800A 815A	
215	5/16	"	2.5	.49	1.43	1.30	.70		.6			930A 940A	
216	5/23	"	3.2	.70	.66	1.46	.48		.6			900A 910A	
217	6/6	"	3.0	.60	.54	1.49	.33		.6			1105A	
218	6/20	"	2.0	.35	1.17	1.26	.41		.6			800A	
219	7/6	"	2.5	.42	.88	1.24	.37		.6				
220	8/2	Tucker	3.3	.40	.35	1.20	.15		.6			1210P 1220P	
221	8/16	"	2.9	.40	.32	1.21	.14		.6			1130A 1135A	
222	8/30	"				1.14	.05		Vol			130P	

F.C. Dec. Form 1a

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

HAINES CREEK near Tujunga

Sta. No. U12R

Daily discharge, in second-feet of ... for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.03	0.01	0.35	0.64	0.45	0.01	MOLJ OK	MOLJ OK	MOLJ OK
2	0	0	0	.03	.01	.32	.69	.15	.01			
3	0	0	0	.03	.01	.32	.69	.13	.01			
4	0	0	0	.03	.01	.35	.64	.13	.01			
5	0	0	0	.02	.01	.35	.60	.11	.01			
6	0	0	0	.02	.42	.29	.57	.11	.01			
7	0	0	0	.03	.35	.29	.53	.06	.01			
8	0	0	0	.03	.05	.29	.53	.06	.01			
9	0	0	0	.03	.03	.29	.46	.05	.01			
10	0	0	0	.04	.04	.26	.39	.05	.01			
11	0	0	0	.04	.06	.26	.32	.05	.01			
12	0	0	0	.04	.40	.38	.32	.05	.01			
13	0	0	0	.05	1.46	2.26	.32	.05	.01			
14	0	0	0	.05	.39	1.64	.35	.05	.01			
15	0	0	.59	.05	.35	1.91	.32	.05	.01			
16	0	0	.01	.05	.35	.80	.32	.05	.01			
17	0	0	0	.05	.39	.70	.29	.05	.01			
18	0	0	0	.05	.39	.70	.29	.05	.01			
19	0	0	0	.05	.39	.70	.26	.04	.01			
20	0	0	0	.04	.39	.70	.29	.04	.01			
21	.50	0	0	.04	.39	.70	.26	.04	0			
22	0	0	0	.04	.39	.90	.26	.04	0			
23	0	0	0	.04	.41	.80	.24	.03	0			
24	0	0	.25	.04	1.40	.90	.24	.02	0			
25	0	0	.05	.04	.64	.70	.21	.01	0			
26	0	0	4.64	.04	.46	.70	.21	.01	0			
27	0	0	.23	.04	.39	.70	.19	.01	0			
28	0	0	.01	.04		.80	.17	.01	0			
29	0	0	1.68	.20		.70	.17	.01	0			
30	0	0	.58	.06		.63	.17	.01	0			
31	0		0									
	.50 *	0	7.44 *	1.38 *	10.21 *	20.22 *	11.13 *	1.71 *	.21 *			
	0.016	0	0.240	0.045	0.365	0.652	0.371	0.552	0.007	0	0	0
	.99	0	14.8	2.74	20.3	40.1	22.1	3.39	.42	0	0	0

Mean 0.145
Acre-Feet 105

Year ... Mean ... Acre-Feet

Mean Cubic Feet

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U12R

Daily discharge, in second-feet of HAINES CREEK near Tujunga for the year ending September 30, 19 36

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1				0	*.27	8	.70	.70	.39	.35	.17	0.04
2				0	.61	70	1.00	.70	.35	.35	.15	.04
3				0	1.40	30	1.00	.70	.35	.35	.21	.04
4				0	.13	12	.95	.70	.35	.35	.21	.05
5				0	0	6.5	.80	.80	.32	.35	.17	.04
6				0	0	4.3	.90	.70	.32	.35	.17	.05
7				0	0	3.4	.78	.70	.35	.32	.17	.05
8				0	0	2.1	.78	.69	.35	.32	.19	.04
9				0	0	1.8	.83	.69	.35	.32	.17	.04
10				0	.29	1.6	.78	.69	.35	.32	.15	.04
11				0	.35	2.0	1.00	.64	.35	.29	.13	.04
12				.01	4.00	3.3	1.00	.64	.35	.29	.15	.04
13				.02	.80	2.4	.78	.60	.35	.29	.15	.04
14				.02	.15	2.2	.64	.60	.35	.29	.15	.04
15				.02	.04	2.0	.60	.64	.35	.29	.13	.04
16				.02	.01	1.8	.60	.60	.35	.29	.13	.04
17				.02	0	1.7	.60	.60	.35	.29	.13	.04
18				.02	0	1.6	.60	.57	.35	.29	.11	.04
19				.02	0	1.6	.64	.53	.35	.29	.09	.04
20				.02	0	1.6	.64	.53	.35	.32	.08	.05
21				.02	0	1.5	.64	.49	.35	.32	.06	.05
22				.03	0	1.4	.64	.49	.35	.32	.08	.05
23				.03	0	1.2	.69	.46	.32	.29	.06	.05
24				.03	0	1.1	.69	.42	.32	.26	.06	.05
25				.03	0	1.0	.69	.42	.35	.29	.06	.05
26				.03	.11	1.0	.69	.42	.35	.24	.06	.05
27				.03	5.50	1.0	.69	.42	.35	.21	.06	.05
28				.03		1.0	.69	.39	.35	.19	.06	.05
29				.03		.9	.69	.39	.35	.17	.04	.05
30				.03				.39				
31				.58								
	*	*	*	*	* 13.06	* 175.2	* 22.96	* 18.12	* 10.42	* 9.21	* 3.83	* 1.36
	0	0	0	.019	.466	5.65	.755	.595	.347	.297	.124	.045
	0	0	0	1.15	25.9	348	45.5	35.9	20.7	18.3	7.60	2.70

Mean ... Acre-Feet
Year ... Mean ... Acre-Feet

STATION U3R

LITTLE SANTA ANITA CREEK near Sierra Madre, Calif.

LOCATION:

Water-stage recorder, lat. 34°11'15", long. 118°02'35", near center of N.W. 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, 1938.

AVERAGE DISCHARGE:

21 years (1916-25, 1926-36), 0.986 second-foot.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 100 second-feet December 27.
Minimum less than 0.1 second-foot at times during October.
1937-1938
Maximum 536 second-feet March 2.
Minimum 0.1 second-foot October 9-13 and 22.
1916-1938
Maximum 536 second-feet March 2, 1938.
Minimum dry during periods in 1919, 1924 and 1925

REMARKS:

1936-1937
Records fair. Discharge January 4 to February 11, computed on basis of two discharge measurements and records for Santa Anita Creek near Sierra Madre.
1937-1938
Records fair. Discharge determined for period November 25 to December 10, by interpolating between measurements. For period March 1-18, record obtained by comparison with inflow to flood control reservoir, about 1-1/2 miles below station.

No diversions above station. The station is owned and operated by the U.S.G.S. Water Resources Branch.

F.C.D. FORM 104 IM 8-37

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, 19 37

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.	METER	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
562	10/9	R. Stanley Lord				0.48	0.03		3" Venturi			730	
563	12/4	"				.61	.76		.6	5		1140A 1148A	1215
564	12/30	"				1.06	1.9			9			"
565	1/9	H. C. McCreery				.98	1.3			10		1145A 1155A	1232
566	1/25	"				.86	.7			7		1035A 1045A	"
567	2/3	"				1.07	2.0			10		1025A 1035P	"
568	2/11	"				1.26	5.9		.6	10		315P 325P	"
569	2/17	"	Two Channels			1.45	11.		.6			1140A 1155A	"
570	2/24	"	Two Channels			1.25	4.0		.6			940A 950A	"
571	3/3	"				1.20	3.4		.6	14		905A 915A	"
572	3/13	"				1.36	7.6		.6	15		955A 1010A	"
573	4/3	"				1.26	4.4		.6	11		1010A 1020A	"
574	4/12	"	5.9	3.0	1.20	1.20	3.6		.6	11		915A 925A	"
575	5/1	"	5.6	2.3	.96	1.09	2.2		.6	13		835A 845A	"
576	5/20	"	4.7	1.6	1.06	.98	1.7		.6	11		915A 925A	"
577	5/31	"	4.4	1.6	.94	.96	1.5		.6	11		1145A 1155A	"
578	6/21	"	4.5	1.0	.80	.22	.8			9		430P 440P	"
579	7/21	R. Stanley Lord				.75	.55		4" Plume			915A	
580	8/21	"				.70	.36		4" Plume			735	

F.C.D. FORM 104 IM 8-37

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, 19 38

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.	METER	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
581	10/1	R. S. Lord	2.5	0.43	0.51	0.67	0.22		.6	5		840A	1215
582	10/27	"	1.9	.36	.51	.64	.18					930A	29529
583	12/8	"	2.0	.42	4.75	.65	.2					830A	1215
584	12/11	"	3.7	.97	.49	.74	.48					930A 940A	"
585	1/15	"	4.	1.6	1.06	1.00	1.7		.6	8		215P 230P	29529
586	2/4	"	8.8	5.2	1.73	1.41	9.0		.6	9		1025A 1035A	"
587	2/4	"	7.4	4.7	1.72		8.1		.6	8		1045A 1055A	"
588	2/28	"	18.3	14.9	4.97	2.24	.74		.6	14		210P 240P	121
589	3/11	"	6.	39.	3.46		135.						"
590	3/19	"	9.	7.0	1.78	1.36	12.		.6	9		240P 250P	"
591	4/8	"	6.5	4.7	1.28	1.00	6.0					1105A	"
592	4/28	A. Wilson	6.5	5.0	.52	.93	2.6		.6	12			2956
593	5/12	"	7.9	5.5	.51	.87	2.8		.6	15		925A 950A	"
594	5/26	"	4.3	4.1	.56	.84	2.3		.6	10		835A 850A	"
595	6/8	"	6.9	4.8	.46	.84	2.2		.6	9			"
596	6/26	"	6.0	3.6	.5	.78	1.8		.6	5		1200N 1207P	"
597	7/13	"	2.5	.79	1.0	.76	.80		.6	5			"
598	7/27	Samuel Tucker	4.1	1.8	.32	.74	.6		.6	4		1215P 1225P	"
599	8/9	"	3.9	1.1	.79	.72	.9		.6	4		1123A 1133A	"
600	8/24	"	3.2	1.0	.48	.69	.5		.6			1043A 1051A	"
601	9/7	"	2.4	.5	.73	.69	.38		.6			1105A 1115A	"
602	9/20	"	2.0	.3	.78	.68	.24		.6			1055A 1105A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U3R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK near Sierra Madre for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1		3.2	0.1	4.0	2.5	3.6	4.9	2.2	1.4	0.7	0.5	3.2
2		2.2	1.1	2.1	2.2	3.4	4.7	2.1	1.3	0.7	0.5	2.2
3		2.2	1.1	2.2	2.7	3.4	4.2	2.0	1.3	0.7	0.4	2.2
4		2.1	2.2	2.2	1.8	3.3	4.0	2.0	1.3	0.7	0.4	2.2
5		2.1	2.2	2.5	1.2	3.2	4.0	2.0	1.3	0.7	0.4	2.2
6		2.1	2.2	2.2	1.1	3.1	4.0	2.0	1.3	0.7	0.4	2.2
7		2.1	2.2	2.2	1.1	3.0	3.8	2.0	1.3	0.7	0.4	2.2
8		2.1	2.2	2.2	1.1	2.8	3.6	1.9	1.2	0.6	0.4	2.2
9		2.1	2.2	2.1	1.1	2.7	3.6	1.7	1.2	0.6	0.4	2.2
10		2.1	2.2	2.1	1.1	2.6	3.5	1.7	1.1	0.6	0.4	2.2
11		2.1	2.2	2.1	1.1	2.5	3.5	1.7	1.1	0.6	0.4	2.2
12		2.1	2.2	2.1	1.1	2.5	3.4	1.7	1.1	0.6	0.4	2.2
13		2.1	2.2	2.1	1.1	2.4	3.3	1.7	1.1	0.6	0.4	2.2
14		2.1	2.2	2.1	1.1	2.4	3.3	1.6	1.1	0.6	0.4	2.2
15		2.1	2.2	2.1	1.1	2.4	3.3	1.6	1.1	0.6	0.4	2.2
16		2.1	2.2	2.1	1.1	2.3	3.2	1.6	1.0	0.6	0.4	2.2
17		2.1	2.2	2.1	1.1	2.3	3.2	1.6	1.0	0.6	0.4	2.2
18		2.1	2.2	2.1	1.1	2.3	3.2	1.6	1.0	0.6	0.4	2.2
19		2.1	2.2	2.1	1.1	2.3	3.2	1.5	1.0	0.6	0.4	2.2
20		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
21		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
22		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
23		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
24		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
25		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
26		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
27		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
28		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
29		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
30		2.1	2.2	2.1	1.1	2.3	3.1	1.5	1.0	0.6	0.4	2.2
31		2.1		2.1		2.3	3.1		1.0	0.6		2.2
	3.34	3.6*	3.6*	3.61*	5.06*	2.053*	1.566*	1.003*	5.29*	3.10*	1.83*	1.00*	6.0*

MEAN	0.108	0.12	1.16	1.63	7.35	5.09	3.34	1.72	1.03	0.59	0.32	0.20
Acre-Feet	6.6	7.1	72	100	407	311	199	105	61	36	20	12

Note.-- Discharge less than 0.1 sec.ft. on days for which no discharge is given.

Year 1937 MEAN 1.85
Acre-Feet 1,340

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U3R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK near Sierra Madre for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.2	0.4	1.7	57	10	26	23	16	0.6	0.4
2	0.2	0.2	0.2	4.4	1.4	182	10	26	23	15	0.7	4.4
3	0.2	0.2	0.2	4.4	5.5	100	10	26	23	15	0.7	4.4
4	0.2	0.2	0.2	3.3	8.6	41	10	26	23	15	0.7	4.4
5	0.2	0.2	0.2	3.3	3.6	26	7.5	26	23	15	0.8	4.4
6	0.2	0.2	0.2	3.3	2.6	23	6	26	23	14	0.8	4.4
7	0.2	0.2	0.2	3.3	2.6	18	6	26	23	14	0.8	4.4
8	0.2	0.2	0.2	3.3	2.6	16	6	26	22	14	0.8	4.4
9	0.2	0.2	0.2	3.3	2.6	14	6	26	22	14	0.8	4.4
10	0.2	0.2	0.3	3.3	2.6	14	6	26	22	14	0.8	4.4
11	0.2	0.2	2.5	3.3	5.5	16	6	27	22	13	0.7	3.3
12	0.2	0.2	8.5	3.3	6.7	32	6	27	22	13	0.7	3.3
13	0.2	0.2	5.4	3.3	5.5	30	5.5	27	22	13	0.7	3.3
14	0.2	0.2	4.4	3.3	4.0	16	5.5	26	22	13	0.7	3.3
15	0.2	0.2	3.3	1.4	3.2	25	4.7	26	21	13	0.7	3.3
16	0.2	0.2	3.3	3.7	3.1	18	4.2	26	21	13	0.7	3.3
17	0.2	0.2	3.3	3.7	2.7	16	3.9	26	21	13	0.7	3.3
18	0.2	0.2	3.3	3.7	2.5	14	3.6	26	21	13	0.7	3.3
19	0.2	0.2	3.3	3.7	2.4	13	3.4	26	21	13	0.7	3.3
20	0.2	0.2	3.3	3.7	2.4	12	3.3	26	21	13	0.7	3.3
21	0.2	0.2	3.7	3.5	1.6	12	3.3	26	20	13	0.7	3.3
22	0.2	0.2	3.5	3.5	1.5	12	3.3	25	20	13	0.7	3.3
23	0.2	0.2	4.7	3.5	1.4	11	3.3	25	19	13	0.7	3.3
24	0.2	0.2	7.9	3.5	1.3	10	3.3	25	19	13	0.7	3.3
25	0.2	0.2	6.6	3.5	1.2	10	3.3	25	18	13	0.7	3.3
26	0.2	0.2	5.5	3.5	1.2	10	2.7	25	18	13	0.7	3.3
27	0.2	0.2	5.4	3.5	1.2	10	2.6	25	18	13	0.7	3.3
28	0.2	0.2	4.7	3.5	1.2	10	2.6	25	18	13	0.7	3.3
29	0.2	0.2	4.4	3.5	1.2	10	2.6	25	18	13	0.7	3.3
30	0.2	0.2	4.4	3.5	1.2	10	2.6	25	17	13	0.7	3.3
31	0.2		4.4	3.5	1.2	10		25	17	13	0.7	
	5.6*	6.0*	141*	15.7*	122.7*	813*	158.1*	782*	618*	269*	182*	98*

MEAN	0.18	0.20	4.55	5.31	4.38	26.2	5.27	2.52	2.06	.87	.59	.33
Acre-Feet	11	12	28	31	243	1,610	314	155	123	53	36	19

Year 1938 MEAN 3.64
Acre-Feet 2,640

STATION U14R

ROCK CREEK near Valyermo, California

LOCATION:

Water-stage recorder, lat. 34° 25' 10", long. 117° 50' 25", in N.E. 1/4 sec. 20, T. 4 N., R. 9 W., 1-3/4 miles southeast of Valyermo. Altitude approximately 4,050 feet.

DRAINAGE AREA:

23.0 square miles.

RECORDS AVAILABLE:

January, 1923 to September 30, 1937 and, at temporary station 600 feet downstream, from May 4, 1938 to September 30, 1938.

AVERAGE DISCHARGE:

14 years, 12.5 second-feet.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 620 second-feet February 6.
Minimum 2.0 second-feet October 15.
1937-1938
Maximum not determined.
Minimum not determined.
1923-1937
Maximum 620 second-feet February 6, 1937
Minimum 1.2 second-feet August 22, 1925.

REMARKS:

1936-1937
Records good. No Diversions.
Results of nine discharge measurements furnished by Los Angeles County Flood Control District.
1937-1938
Station completely destroyed in flood of March 2. A temporary station, 600' downstream, from former site (temporary station below mouth of Punchbowl Creek) placed in operation May 4.
Records for May 4 to September 30, from temporary 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 meter measurements at various times.

F.C.D. FORM 304 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 14 R

DISCHARGE MEASUREMENTS OF ROCK CREEK

NEAR Valyermo, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH-OD	MEAS. MEAS. NO.	G. HT. CHANGE TOTAL	GAGE HEIGHT TIME	METER NO.
												330P	
380	10/3	Luce	9.5	3.2	0.90	0.84	2.8		.6	8		340P	FC 13
												1036A	
381	10/14	K. F. Schumacher	9.0	4.1	.54	.83	2.2		.6	8		1041A	914
												1145A	
382	10/23	Kenneth R. Melin	6.5	1.9	1.26	.84	2.4		.6	12		1155A	1278
												930A	
383	11/12	K. F. Schumacher	7.5	2.6	1.54	.92	4.0		.6	8		936A	914
												127P	
384	12/28	Luce	11.5	8.1	1.48	1.10	12.		.6	10		138P	FC 13
												340P	
385	1/9	Kenneth R. Melin	11.	5.9	1.15	1.06	6.8		.6	10		350P	1278
												310P	
386	1/22	"	11.	5.8	1.38	1.08	8.0		.6	10		320P	"
												315P	
387	1/29	Luce	10.9	6.6	1.32	1.04	8.7		.6	11		325P	FC 13
												415P	
388	2/12	Kenneth R. Melin	14.	12.	2.58	1.56	31.		.6	11		425P	1278
												230P	
389	2/18	"	19.	17.	3.41	1.90	58.			16		245P	"
												440P	
389A	2/26	Luce	29.3	31.02	1.78	1.42	55.		.6	12		455P	FC 85
												1030A	
390	3/2	Kenneth R. Melin	16.	14.	2.50	1.70	35.		.6	14		1040A	1278
391	3/17	"	22.	30.	4.33	2.26	130.		.6	11		235P	
												250P	"
392	3/27	Melin-Ebert	18.	17.	2.77	1.83	47.		.6	16		900A	
												915A	"
393	4/8	Luce-Paul	18.7	18.	2.90	1.85	52.		.6			404P	
												415P	FC 13
394	4/9	Kenneth R. Melin	19.	18.	3.44	1.86	62.		.6	16		500P	
												512P	1278
395	4/24	"	19.	19.	2.89	1.91	55.		.6	15		1230P	
												1240P	"
396	5/13	"	20.	24.	3.83	2.08	92.		.6	10		535P	
												550P	"
397	5/29	"	18.5	18.	3.33	1.87	60.		.6	17		245P	
												300P	"
398	6/11	"	18.	15.	2.46	1.71	37.		.6	16		430P	
												445P	"
												500P	
398A	6/25	Luce	14.5	12.24	2.70	1.56	33.		.6	12		515P	FC 13
												345P	
399	6/28	Kenneth R. Melin	13.	11.	2.64	1.56	29.		.6	12		355P	1278
												1045A	
400	7/17	"	12.	9.2	2.28	1.44	21.		.6	11		1055A	"
												310P	
401	7/17	Luce	12.9	9.4	2.20	1.40	21.		.6	12		340P	FC 13

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 14 R

DISCHARGE MEASUREMENTS OF ROCK CREEK

DURING THE YEAR ENDING SEPTEMBER 30, 19 37

MEAN Valyermo, Calif.

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECT. SQ. FT.	MEAN VEL. FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	GAGE READING	GAGE NO.	MEAN G. HT.	G. HT. CORR. TOTAL	SHEET NO.	WATER NO.
402	8/3	Kenneth R. Melin	11.1	7.4	1.89	1.32	14.		.6	11		315P 320SP	1278
403	8/14	Luce	10.8	7.5	1.94	1.32	15.		.6	9		1015A 1030A	FC 13
404	8/19	Kenneth R. Melin	15.	7.3	1.78	1.28	13.		.6	12		1110A 1110A	1278
405	9/1	"	11.3	6.4	1.56	1.23	10.		.6	10		215P 215P	"
406	9/14	"	11.5	7.6	1.84	1.30	14.		.6	11		150P 205P	"
407	9/17	Luce	10.8	7.37	1.77	1.28	13.		.6	8		500P 515P	FC 32

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 14 R

DISCHARGE MEASUREMENTS OF ROCK CREEK

DURING THE YEAR ENDING SEPTEMBER 30, 19 38

MEAN Valyermo, Calif.

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECT. SQ. FT.	MEAN VEL. FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	GAGE READING	GAGE NO.	MEAN G. HT.	G. HT. CORR. TOTAL	SHEET NO.	WATER NO.
406	10/1	Luce	10.7	6.56	1.40	1.20	8.9	.6	8	0		515P 525P	FC 30
409	10/5	Kenneth R. Melin	11.	5.9	1.51	1.21	8.9	.6	10			1255P 105P	1278
410	10/21	Luce-Wood	10.2	5.91	1.15	1.16	6.8	.6	8	0		1213P 1225P	FC 32
411	10/26	Kenneth R. Melin	9.8	5.0	1.16	1.14	5.8	.6	9			215P 225P	1278
412	11/11	Luce	10.0	5.51	1.18	1.18	6.5	.6	9	+.01		235P 140P	FC 39
413	11/24	Kenneth R. Melin	10.8	5.6	1.09	1.18	6.1	.6	10			150P 1145A	1278
414	12/15	"	11.2	6.6	1.35	1.23	8.9	.6	10			1200N 400P	"
415	12/17	Luce	10.5	5.94	1.26	1.22	7.5	.6	9	0		425P 950A	FC 39
416	1/4	Kenneth R. Melin	8.3	5.3	1.40	1.19	7.4	.6	8			1000A 400P	1278
417	1/22	Luce	10.6	7.34	1.30	1.18	9.5	.6	9	0		1100A 410P	FC 39
418	1/22	"	10.6	7.01	1.26	1.18	8.8	.6	9	0		425P 255P	"
419	1/25	Kenneth R. Melin	10.	6.0	1.23	1.15	7.4	.6	10			305P 340P	1278
420	2/1	Luce-Skelly	10.9	8.84	1.59	1.32	14.	.6	10	0		350P 350P	FC 39
421	2/1	" "	11.0	9.08	1.62	1.32	15.	.6	9	0		400P 400P	"
422	2/5	Kenneth R. Melin	11.	10.	2.20	1.44	22.	.6	11			1105A 1110A	1278
423	2/15	"	11.3	10.	2.50	1.47	25.	.6	11			935A 945A	"
424	2/26	Luce-Luce	11.2	9.33	2.02	1.42	19.	.6	10	+.01		1000A 1010A	FC 39
425	2/26	" "	11.2	9.42	2.02	1.41	19.	.6	10	0		1010A 1020A	"
426	4/28	Ebert-Melin	20.	20.	4.30		86.	.6	10			900A 920A	1236
427	5/4	Kenneth R. Melin	13.	14.	4.58	1.48	64.	.6	12			115P 130P	"
428	5/24	" "	14.	14.	3.89	1.44	46.	.6	13	0		440P 445P	"
429	6/7	" "	14.	12.	4.25	1.41	51.	.6	13	0		300P 315P	"
430	7/1	" "	15.	13.	2.41	1.26	31.	.6	14			1140A 1150A	"
431	7/15	Luce	15.0	10.86	2.16	1.22	23.	.6	8	0		710A 720A	FC 39
432	7/30	Lang	9.	6.8	2.73	1.18	18.	.6	10	0		230P 245P	1150
433	8/4	"	10.5	6.6	2.36	1.10	15.	.6	10	0		250P 300P	"
434	8/12	Luce	13.5	8.8	2.06	1.08	18.	.6	8	0		635P 650P	FC 31
435	8/18	Lang	9.0	5.7	2.39	1.07	14.	.6	9	0		335P 345P	1150
436	9/1	" "	9.0	5.5	2.34	1.04	13.	.6	9	0		210P 220P	"
437	9/15	" "	9.0	5.0	2.00	1.00	10.	.6	10	0		255P 305P	"
438	9/23	Luce	9.4	6.4	1.61	1.00	10.	.6	8	0		345P 355P	FC 39
439	9/29	Lang	9.0	5.1	1.84	1.00	9.4	.6	9	0		1035A 1050A	1150

F. C. Dist. Form 56

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U148

Daily discharge, in second-feet of ROCK CREEK near Valyermo for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	2.9	3.4	8	8	35	54	49	55	29	16	11
2	2.6	2.9	3.4	7	7.5	35	55	51	54	28	16	11
3	2.8	3.0	3.4	7	7.5	37	55	55	47	27	16	11
4	2.6	3.4	3.4	7	8	37	55	61	47	27	15	11
5	2.6	3.4	3.5	7	11	37	55	65	42	26	15	11
6	2.4	3.5	3.5	8	2 36	38	55	64	45	25	15	11
7	2.4	3.5	3.5	7	2 32	39	55	64	44	25	15	11
8	2.4	3.5	3.5	7	58	40	55	62	43	24	15	11
9	2.3	3.7	3.5	7	39	41	55	62	43	24	15	10
10	2.3	3.7	3.7	6.5	34	42	55	67	39	24	15	10
11	2.3	3.9	3.7	7	34	43	59	67	39	24	15	10
12	2.3	3.9	3.9	7.5	3 20	84	59	78	38	22	15	10
13	2.3	3.9	3.9	7.5	3 03	115	56	78	38	22	15	13
14	2.2	3.9	4.1	7.5	3 03	75	70	93	37	22	14	15
15	2.2	3.7	16	7.5	1 84	97	90	103	36	22	14	14
16	2.6	3.7	40	8	1 02	2 72	96	96	35	22	14	14
17	2.9	3.7	18	8	1 72	1 40	81	96	34	22	13	13
18	2.6	3.9	10	8	5 55	1 00	67	94	34	22	13	13
19	2.6	3.9	8.5	8	5 55	81	64	92	33	22	13	12
20	2.6	3.9	8	7.5	5 51	69	62	88	32	21	13	12
21	2.6	3.9	7.5	7	49	62	69	85	32	20	13	12
22	2.6	3.9	7	7.5	46	62	75	83	32	20	13	12
23	2.4	3.7	6.5	7.5	44	54	69	79	31	20	12	11
24	2.4	3.7	6.5	7	44	51	61	77	31	19	12	11
25	2.4	3.5	7	7	44	49	58	75	31	18	12	11
26	2.4	3.5	6.5	7	41	47	61	77	30	18	12	11
27	2.4	3.5	9.5	7	39	47	59	79	30	18	12	11
28	2.6	3.4	8.5	7	37	47	54	67	30	17	11	10
29	2.5	3.4	8	7.5		49	51	63	32	17	11	10
30	2.6	3.4	8	8		49	50	61	59	16	11	
31	2.9		11	8		50		59		16	11	
	77.5 *	107.5 *	236.9 *	228.5 *	1997 *	2024 *	1869 *	2294 *	1127 *	682 *	424 *	344 *
Mean	2.51	3.59	7.64	7.37	71.3	65.3	62.3	74.0	37.6	22.0	13.7	11.5
Acre-Feet	155	213	470	453	3,960	4,010	3,710	4,550	2,240	1,350	841	682

Year or Period MEAN 31.3
ACRE-FEET 22,630

F.C.D. Dist. Form 56

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U148

Daily discharge, in second-feet of ROCK CREEK near Valyermo for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									49	31	18	13
2									52	30	17	13
3									52	30	17	13
4								63	52	29	17	12
5								62	50	27	17	12
6								60	53	26	18	12
7								58	53	25	18	12
8								57	50	24	18	12
9								56	49	23	18	11
10								56	46	22	18	11
11								56	46	22	19	11
12								54	45	22	19	10
13								56	44	21	18	10
14								56	42	19	17	10
15								56	41	19	16	11
16								54	39	19	16	11
17								49	39	19	15	11
18								47	38	19	14	11
19								50	38	19	14	11
20								54	36	19	14	12
21								53	35	19	14	11
22								53	33	19	14	11
23								49	32	19	14	11
24								49	31	18	13	11
25								50	30	19	13	10
26								50	30	18	13	10
27								54	30	18	13	9.5
28								52	31	18	14	9
29								53	31	19	14	9.5
30								50	31	19	13	9.5
31								52		19	13	
								1509 *	1228 *	668 *	486 *	331.5 *
Mean								55.9	40.9	21.5	15.7	11.0
Acre-Feet								3,990	2,440	1,580	964	658

Year or Period MEAN
ACRE-FEET 8,370

STATION USR

ROGERS CREEK near Azusa, California

LOCATION:

Water-stage recorder, lat. 34°09' 55", long. 117° 54' 20", in N.W. 1/4 N.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.

AVERAGE DISCHARGE:

20 years, 2.66 second-feet.
21 years, 3.05 second-feet.

DRAINAGE AREA:

6.4 square miles.

RECORDS AVAILABLE:

October, 1917 to September, 1938. May, 1916 to June, 1917, discharge measurements only.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 190 second-feet December 31.
Minimum no flow for part of year.
1937-1938
Maximum about 2070 second-feet March 2.
Minimum no flow for part of year.
1917-1938
Maximum about 2600 second-feet April 7, 1926.
Minimum no flow for several months each year.

REMARKS:

1936-1937
Records good. Discharge May 31, June 1, and June 29 to July 10, computed on basis of two discharge measurements and records for stations on nearby streams.
1937-1938
Record good except March 2-14, which is poor. Discharge March 2-12, determined from rainfall-runoff studies and by comparison with adjacent streams.

Station owned and operated by the U.S.C.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 6 R

DISCHARGE MEASUREMENTS OF ROGERS CREEK

XX NEAR Azusa, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	BEIN-GS	MEAS. SECT. NO.	S. HT. CHANGE TOTAL	BEGIN END	METER NO.
727	11/5	Lindsay				2.06	0.01		Est.			235P	
728	11/25	"	0.5	0.06	0.83	2.12	.05		.6	1		907A 908A	FC 28
729	12/15	Linden-Anderson	10.	2.7	1.15	2.56	3.2			6		1050A 1100A	
730	12/15	" "	13.5	5.5	2.11	2.83	12.			7		340P 400P	
731	12/16	Lindsay and McArthur	10.1	3.1	1.54	2.69	4.9		.6	8		217P 235P	FC 28
732	12/23	Lindsay	4.2	.67	.69	2.26	.46		.6	5		846A 856A	"
733	12/30	"	9.8	2.8	1.46	2.68	4.2		.6	7		923A 933A	"
734	12/31	F. C. Ebert	18.	11.		3.33	41.		.6	9		300P 320P	27214
735	1/1	"	14.	6.1	2.46	2.95	15.		.6	13		100P 120P	"
736	1/3	Lindsay	11.	3.5	1.84	2.76	6.5		.6	9		330P	FC 28
737	1/6	Lindsay and McArthur	13.8	4.9	2.11	2.86	10.		.6	12		305P 320P	"
738	1/9	R. Stanley Lord	12.	3.7	1.65	2.74	6.1		.6	11		935A 945A	1215
739	1/13	Lindsay	10.5	3.4	1.58	2.74	5.4		.6	8		152P 202P	FC 28
740	1/19	H. C. McCreery				2.59	3.1		.6	10		245P 255P	1232
741	1/21	Lindsay	10	2.0	1.07	2.52	2.2		.6	7		120P 130P	FC 28
742	1/27	H. C. McCreery				2.50	2.4			16		120P	1232
743	1/29	Lindsay	12.	3.8	1.76	2.74	6.6		.6	7		1105A 1115A	FC 28
744	2/3	H. C. McCreery				2.82	9.5		.6	12		140P 155P	1232
745	2/4	Lindsay	11.4	3.8	1.86	2.79	7.0		.6	7		407P 415P	FC 28
746	2/6	F. C. Ebert	24.	18.	4.32	3.86	78.		.6			1220P 1240P	27214
747	2/7	"	25.	22.	3.55	3.84	78.		.6	13		1025A 1055A	"
748	2/11	Lindsay	15.7	9.2	2.29	3.10	21.		.6	9		815A 830A	FC 28
749	2/14	Lindsay and McArthur	29.	31.	3.84	4.24	119.		.6	10		1200N 1210P	"
750	2/16	H. C. McCreery	23.5	15.	3.73	3.58	56.		.6	23		245P 305P	1232
751	2/19	Lindsay and McArthur	18.5	12.	2.80	3.28	33.		.6	10		730A 740A	FC 28
752	2/23	H. C. McCreery				3.05	19.		.6	15		155P 210P	1232
753	2/25	Lindsay and McArthur	17.5	9.3	2.76	3.21	27.		.6	9		135P 145P	FC 28
754	3/3	H. C. McCreery				2.95	13.		.6	14		110P 112P	1232
755	3/5	Lindsay	13.0	5.70	1.91	2.94	12.		.6	7		712A 722A	FC 28
756	3/10	H. C. McCreery				2.85	9.0		.5	13		430P 440P	1232
757	3/11	Lindsay	13.5	5.09	1.67	2.84	8.5		.6	8		313P 323P	FC 28
758	3/13	H. C. McCreery				3.50	51.		.6	17		1210P 1230P	1232
759	3/15	"				3.13	23.		.6	16		240P 255P	"
760	3/18	Lindsay	19.0	14.10	2.78	3.39	39.		.6	10		1022A 1037A	FC 28
761	3/22	F. C. Ebert	16.3	13.	2.92	3.36	38.		.6	12		1100A 1120A	27214
762	3/25	Lindsay	13.5	11.	2.91	3.26	30.		.6	11		322P 333P	FC 21
763	3/31	H. C. McCreery				3.11	20.		.6	13		210P 220P	29529
764	4/1	Lindsay	10.7	8.2	2.47	3.08	20.		.6	9		100P 110P	FC 28
765	4/6	H. C. McCreery				3.00	15.		.6	12		400P 412P	1232
766	4/8	Lindsay	13.5	6.9	2.17	2.95	13.		.6	7		208P 216P	FC 28
767	4/12	H. C. McCreery	11.9	6.3		2.91	12.		.6	12		1245P 1255P	1232
768	4/15	Lindsay	14.	5.4	1.80	2.87	9.7		.6	8		1245P 1258P	FC 28
769	4/19	H. C. McCreery	12.	5.9	1.46	2.81	8.6		.6	12		310P 320P	1232
770	4/22	Lindsay	12.5	4.4	1.42	2.79	6.2		.6	7		205P 217P	FC 28
771	4/26	H. C. McCreery	11.7	5.1	1.27	2.75	6.5		.6	12		150P 200P	1232
772	4/29	Lindsay	12.	3.9	1.46	2.75	5.7		.6	6		317P 327P	FC 28
773	5/3	H. C. McCreery	10.3	4.2	1.10	2.65	4.6			12		335P 350P	1232
774	5/6	Lindsay	12.0	3.37	1.27	2.70	4.3		.6	7		137P 145P	FC 28
775	5/17	H. C. McCreery	11.	3.6	0.92	2.56	3.3			11		335P 345P	1232
776	5/20	Lindsay	9.7	2.26	0.99	2.56	2.4		.6	7		303P 313P	FC 28
777	5/27	"	10.5	2.64	1.10	2.56	2.9		.6	6		220P 230P	"
778	6/2	H. C. McCreery	11.	2.3	1.09	2.54	2.5			11		935A 945A	1232
779	6/3	Lindsay	9.8	2.2	1.02	2.49	2.2		.6	6		348P 358P	FC 28
780	6/10	"	9.0	1.8	0.93	2.50	1.7		.6	7		210P 215P	"
781	6/14	H. C. McCreery	10.	2.1	1.10	2.48	2.3			10		325P 335P	1232
782	6/18	Lindsay	9.5	2.2	0.85	2.48	1.9		.6	7		822A 832A	FC 28
783	6/21	F. C. McCreery	10.	1.8	.78	2.39	1.4			10		255P 305P	1232
784	6/24	Lindsay and Thompson	8.8	1.2	.67	2.37	.8		.6	6		401P 407P	FC 28
785	7/1	Lindsay	8.0	.89	.65	2.28	.6		.6	5		158P 207P	"
786	7/8	"	8.2	.90	.56	2.26	.5		.6	5		135P 142P	"
787	7/15	"	7.5	.70	.36	2.21	.25		.6	5		503P 510P	"
788	7/21	R. Stanley Lord				2.22	.29		4" Flume			250P	
789	7/22	Lindsay	2.1	.18	.72	2.20	.13		.6	3		338P 342P	FC 28
790	8/2	R. Stanley Lord				2.18	.16		4" Flume			1230P	
791	8/9	"				2.14	.08		3" Flume			1030A	

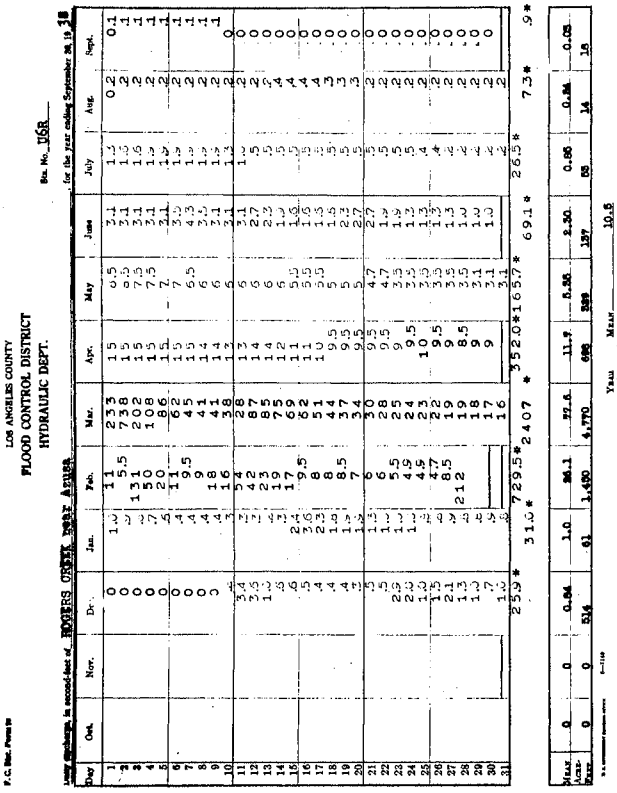
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

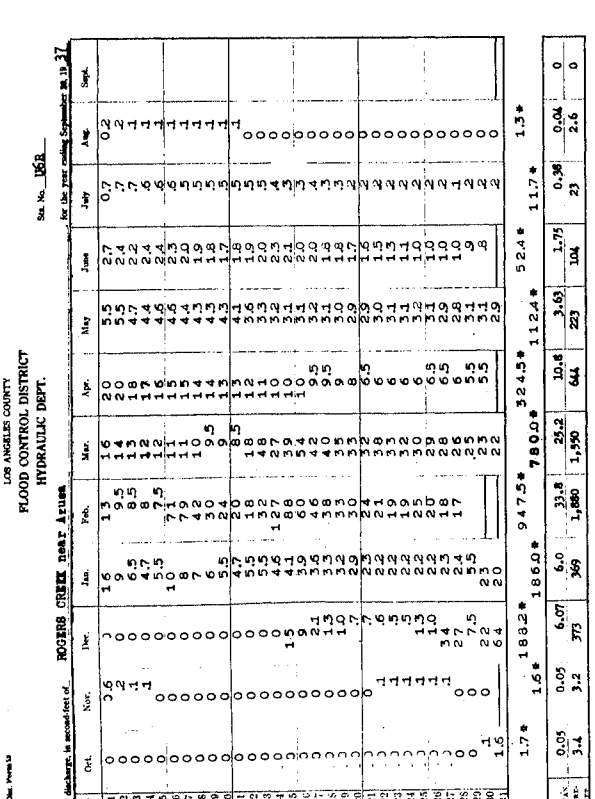
STATION NO. U 6 R

DISCHARGE MEASUREMENTS OF ROGERS CREEK

XX NEAR Azusa, 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.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERCENT DIFF.	METH. OF	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												407P	
792	12/16	Lindsay	2.7	.45	1.04	2.30	.45	.6				412P	FC 28
793	12/20	R. S. Lord	5.0	1.3	.27	2.23	.35	.6				1120A	29529
794	12/23	Lindsay-Ingram	10.0	4.2	.94	2.64	4.0	.6				200P 205P	FC 28
795	12/30	Lindsay and Thompson	3.3	.55	1.43	2.36	.80	.6				315P 320P	"
796	12/31	R. S. Lord		1.8	5.83	2.33	1.1	.6				300P	29529
797	1/6	Lindsay	2.3	.30	1.28	2.27	.40	.6				308P 313P	FC 28
798	1/13	"	2.0	.25	1.04	2.23	.25	.6				235P 240P	"
799	1/15	F. C. Ebert	11.4	8.3	1.14	2.97	13.	.6				400P 420P	27214
800	1/16	"	10.	4.0	.82	2.58	3.3	.6				1245P 100P	"
801	1/20	Lindsay	8.5	2.5	.64	2.45	1.6	.6				302P 309P	FC 28
802	1/26	R. S. Lord	6.0	1.7	.43	2.30	.75	.6				100P	29529
803	2/1	F. C. Ebert	11.7	9.4	1.91	3.08	18.	.6				1100A 1115A	27214
804	2/3	"	28.5	42.	3.29	4.13	138.	.6				330P 345P	"
805	2/3	"	29.5	36.	3.70		133.	.6				350P 405P	"
806	2/3	"	29.	36.	3.71	4.10	127.	.6				420P 435P	"
807	2/4	"	17.5	11.	4.09	3.46	45.	.6				1130A 1145A	"
808	2/5	"	13.	6.2	2.74	3.00	17.	.6				1210P 1230P	"
809	2/11	Lord-Ebert	12.	5.8	3.80	3.13	22.	.6				1125A 1150A	29529
810	2/11	" "	20.	17.	5.71	3.94	97.	.6				325P 345P	"
811	2/12	F. C. Ebert	18.	7.9	4.95	3.32	39.	.6				1150A 1215P	27214
812	2/13	"	14.	6.7	3.28	3.08	22.	.6				1200N 1220P	"
813	2/14	"	13.5	5.0	3.40	2.99	17.	.6				230P 250P	"
814	2/17	Lindsay				2.78	7.7	.6				502P 512P	FC 28
815	2/24	"	9.0	2.68	1.01	2.65	4.9	.6				508P 514P	"
816	2/28	F. C. Ebert	Two	Channels		5.25	319.	.6				120P 155P	27214
816A	3/10	Lindsay-Ingram	34.0	7.8	6.47		50.	.6	8			940A 950A	FC 28
817	3/11	R. S. Lord	22.	15.	6.53		98.	.6				1100A 1115A	1215
818	3/15	"	17.	2.2	3.22	5.73	70.	.6				1130A 1140A	1215
819	3/17	Lindsay	17.5	10.4	4.08		42.	.6				350P 400P	FC 28
820	3/22	"	11.2	10.2	2.99	5.49	30.	.6				1050A 1100A	"
821	3/24	"	10.0	7.7	3.20		25.	.6				350P 400P	"
821A	3/31	Lindsay	10.5	7.8	2.12	5.38	16.	.6				1120A 1130A	FC 28
822	4/6	"	9.6	5.4	2.74	5.32	15.	.6				143P 156P	"
823	4/14	Lindsay-Ingram	8.0	4.4	2.15		9.5	.6				915A 925A	"
824	4/20	Haig	7.2	5.2	1.93		9.9	.6				355P 405P	FC 38
825	4/27	Lindsay	7.0	3.6	1.95	5.22	7.0	.6				340P 350P	FC 28
826	4/27	A. Wilson	6.2	5.6	1.78	5.22	10.	.6				415P 500P	29567
827	5/4	Lindsay	9.5	5.0	1.24	5.20	6.2	.6				915A 927A	FC 28
828	5/4	A. Wilson	7.4	4.3	1.77	5.19	7.8	.6				300P 350P	29567
832	5/11	Haig	6.5	3.0	1.81		5.4	.6	7			310P 310P	FC 38
829	5/12	A. Wilson	10.	4.0	1.38	5.16	5.8	.6				235P 300P	29567
830	5/18	"	8.3	3.3	1.35	5.15	4.4	.6				820A 830A	"
831	5/18	Haig	7.0	3.11	1.56	5.15	4.9	.6				245P 252P	FC 38
833	5/25	A. Wilson	9.7	4.7	.82	5.11	3.9	.6				1127A 1137A	29567
834	5/25	Haig	7.0	1.79	1.44	5.10	2.6	.6				215P 232P	FC 38
835	6/1	A. Wilson	8.0	2.3	1.33	5.08	3.1	.6				850A 900A	29567
836	6/1	Haig	5.0	1.6	1.34		2.1	.6				255P 303P	FC 38
837	6/7	A. Wilson	7.5	2.6	1.63	5.08	4.2	.6				907A 916A	29567
838	6/16	Lindsay	6.5	1.3	1.2	5.05	1.6	.6				447P 455P	FC 28
839	6/21	A. Wilson	7.0	2.3	1.15	5.07	2.6	.6				1023A 1033A	29567
840	6/29	Lindsay	5.7	1.0	0.96	5.05	1.0	.6				355P 402P	FC 28
841	7/4	A. Wilson	7.0	2.0	1.09	5.06	2.2	.6				1140A 1149A	29567
842	7/22	Wilson-Tucker	5.2	1.2	0.50	5.02	0.6	.6				200P 205P	"
843	8/1	Tucker	4.1	0.7	0.40	5.00	0.3	.6				310P 320P	"
844	8/15	"	4.6	1.1	0.35	5.03	0.4	.6				140P 151P	"
845	8/29	Tucker	4.5	0.8	0.23	5.00	0.2	.6				148P 158P	29567





Year Mean 7.14 Acre-Feet 5,180

Year Mean 10.6 Acre-Feet 8,040

STATION U15R

SAN ANTONIO CREEK near Claremont, Calif.

LOCATION:

Water-stage record and concrete control, lat. 34° 12' 50"? long. 117° 40' 00", 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 Company'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 1938.

AVERAGE DISCHARGE:

20 years (1917-37), 7.80 second-feet. Average combined discharge of creek and canal, 20 years (1917-37), 21.0 second-feet.
Twenty-one years (1917-38), 10.1 second-feet. Average combined discharge, creek and canal, 21 years (1917-38), 22.9 second-feet.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 175 second-feet February 14.
Minimum 0.3 second-foot October 1, 2, and 5-16.
1937-1938
Maximum 17800 second-feet March 2, based on rainfall-runoff study.
Minimum 0.7 second-foot at various times.
1917-1938
Maximum 17800 second-feet March 2, 1938 based on rainfall-runoff study.
Minimum less than 0.1 second-foot on several days during October, 1934.

REMARKS:

1936-1937
Records good. Discharge for October 29 to November 11, July 6-11, July 14 to August 8, August 17-26 computed on basis of records for stations on adjacent streams.
1937-1938
Records good, except for the period March 2-29 which is poor. Discharge for the maximum 24 hours based on a rainfall-runoff study. The remainder of the period March 2-29 obtained from retention curves and comparison with adjacent stations.

See record for Southern California Edison Company's canal near Claremont, which diverts water above station. Station owned and operated by the U.S.G.S. Water Resources Branch.

F.C.D. FORM 104 IN 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 15 R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

AT OR NEAR Claremont, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	RETS-ON	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
675	10/7	Lord-Ebert				3.09	0.37		.6	5		935A 940A	1215
676	10/8	K. F. Schumacher	2.2	0.46	0.80	3.08	.37		.6	4		930A 935A	914
677	10/19	Kenneth R. Melin	2.1	.60	1.17	3.17	.70		.6	4		950A 955A	1278
678	10/22	Melin-Ebert	Mean	of two	meas.	3.10	.62					1135A 1150A	1278
679	10/30	Kenneth R. Melin	1.4	.35	1.40		.49					1055A 1100A	"
680	11/27	K. F. Schumacher	2.2	.50	1.30	3.43	.65		.6	4		1036A 1040A	914
681	12/15	Kenneth R. Melin	7.0	2.4	1.79	3.73	4.3		.6	6		425P 431P	1278
682	1/1	F. C. Ebert	7.	2.4	1.62	3.70	3.9		.6	9		1115A 1130A	27214
683	1/2	Kenneth R. Melin	5.0	1.4	1.78	3.65	2.5		.6	8		245P 255P	1278
684	1/7	Melin-McCreery	3.5	1.2	1.42	3.60	1.7					1230P 1240P	"
685	1/14	H. C. McCreery				3.56	1.4			11		458P 508P	1232
686	1/21	"				3.55	1.3			12		1120A 1135A	"
687	1/28	"				3.53	1.1			11		1225P 1235P	"
688	2/4	"				3.58	1.7			8		955A 1005A	"
689	2/7	"				4.60	93.		.6	16		1150A 1208P	1232
690	2/12	"				4.39	49.		.6	17		1250P 110P	"
691	2/19	"	25.	27.	4.27	4.79	115.		.6	23		105P 135P	"
692	2/26	"	24.5	22.	3.91	4.67	86.		.6	23		1010A 1040A	"
693	3/6	McCreery-Lord	23.1	17.	3.29	4.47	56.		.6	22		940A 1000A	"
694	3/12	H. C. McCreery	25.	20.	4.20	4.73	84.		.6	24		955A 1020A	"
695	3/16	"	26.5	25.3	4.80	4.77	120.		.6	24		1010A 1040A	"
696	3/24	"	25.	23.	3.91	4.74	90.		.6	24		1235P 155P	"
697	4/1	"	24.	20.	3.60	4.50	72.		.6	23		225P 245P	"
698	4/8	"	24.	21.	3.65	4.56	77.		.6	23		905A 930A	"
699	4/15	H. C. McCreery	24.4	23.	3.74	4.70	86.		.6	23		910A 930A	1232
700	4/22	"	24.	23.	3.70	4.65	85.		.6	23		910A 930A	"
701	4/29	"	23.5	18.	3.44	4.50	62.		.6	23		950A 1015A	"
702	5/11	H. C. McCreery	24.	19.	2.74	4.45	52.		.6	23		825A 850A	"
703	5/21	"	23.	17.	2.88	4.40	49.		.6	22		1230P 1250P	"
704	6/2	R. Stanley Lord	22.	16.	2.25	4.22	36.		.6	12		935A 950A	29529
705	6/15	H. C. McCreery	12.	5.3	2.83	4.02	15.		.6	20		135P 155P	1232
706	6/25	"	11.	6.4		3.89	9.3		.6	23		150P 210P	"
707	7/3	Kenneth R. Melin	16.5	7.6	1.27	3.79	9.7		.6	14		1010A 1020A	1278
708	7/12	"	15.	5.6	.98	3.58	5.5		.6	13		1130A 1140A	"
709	7/26	"	4.7	2.0	.70	3.51	1.4		.6	9		1240P 1250P	"
710	8/5	"	4.0	1.5	.80	3.36	1.2		.6	8		1030A 1040A	"
711	8/16	"	4.5	1.2	.83	3.50	1.0		.6	7		1025A 1035A	"
712	8/27	"	3.8	1.1	.77	3.46	.85		.6	7		250P 300P	"
713	9/7	"	3.0	1.1	.82	3.46	.90		.6	6		1120A 1130A	"
714	9/17	"	3.0	1.0	.95	3.44	.95		.6	7		1000A 1010A	"
715	9/28	"	2.9	1.0	.85	3.43	.85		.6	6		1235P 1240P	"

F.C.D. FORM 104 IN 8-37

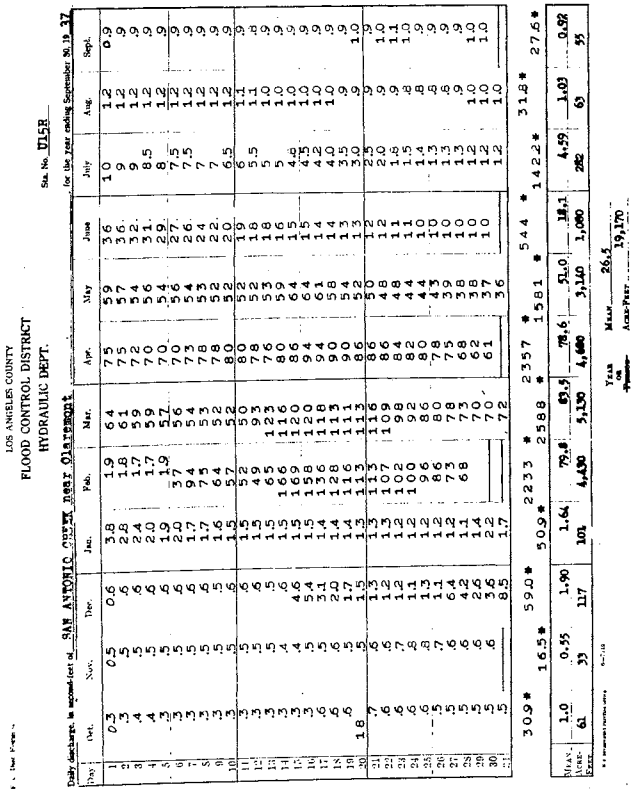
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 15 R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

AT OR NEAR Claremont, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	RETS-ON	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
716	10/8	K. R. Melin	2.9	.95	.79	3.45	.75		.6			1050A 1100A	1278
717	10/19	"	3.0	.95	.74	3.43	.70		.6			1130A 1135A	"
718	10/27	"	3.0	.90	.83	3.43	.75		.6			1025A 1030A	"
719	11/12	"	3.5	1.2	.83	3.45	1.0		.6			1105A 1115A	"
720	11/23	"	2.5	.60	1.25	3.43	.75		.6			225P 230P	"
721	12/6	"	1.9	.75	1.00	3.43	.75		.6			1030A 1035A	"
722	12/13	"	4.0	1.7	.65	3.51	1.1		.6			120P 130P	"
723	12/27	K. R. Melin	3.0	.85	1.41	3.52	1.2		.6			1220P 1225P	1278
724	1/6	"	Mean	of two		3.46	.75		.6			1030A 1045A	"
725	1/17	"	5.5	1.9	1.16	3.57	2.2		.6			1220P 1230P	"
726	1/27	"	4.7	1.4	.79	3.48	1.1		.6			1030A 1040A	"
727	2/2	"	4.7	2.1	1.24	3.60	2.6		.6			1125A 1135A	"
728	2/9	"	6.7	2.0	1.55	3.66	3.1		.6			1015A 1025A	"
729	2/21	"	5.0	2.3	1.39	3.68	3.2		.6			1105A 1115A	1215
730	3/30	R. S. Lord	24.	28.7	4.6		133.		.6				"
731	4/21	Lord-Ebert	24.	34.	2.77		94.		.6				P2721
732	5/6	K. R. Melin	19.	22.	2.91	8.55	64.		.6			215P 230P	1236
733	5/17	Wilson-Melin	23.	28.	2.85	8.55	81.		.6			1125A 1145A	29567
734	5/31	A. Wilson	19.2	20.	2.80	8.44	57.		.6			935A 1007A	"
735	6/17	"	19.	19.	2.57	8.31	48.		.6			1007A 1030A	"
736	6/28	"	24.5	18.	2.00	8.27	38.		.6			925A 944A	"
737	7/12	"	21.2	17.	2.20	8.20	36.		.6			1050A 1117A	"
738	7/25	Wilson-Tucker	23.3	16.	1.32	8.15	30.		.6			1248P 100P	"
739	8/10	Tucker	20.	14.	1.62	8.08	22.		.6			1050A 1115A	29567
740	8/24	"	20.	13.	1.50	8.03	20.		.6			343P 406P	"
741	9/7	"	20.	12.	1.50	8.00	18.		.6			405P 429P	"
742	9/21	"	20.	12.	1.30	7.97	18.		.6			1045A 1112A	"



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

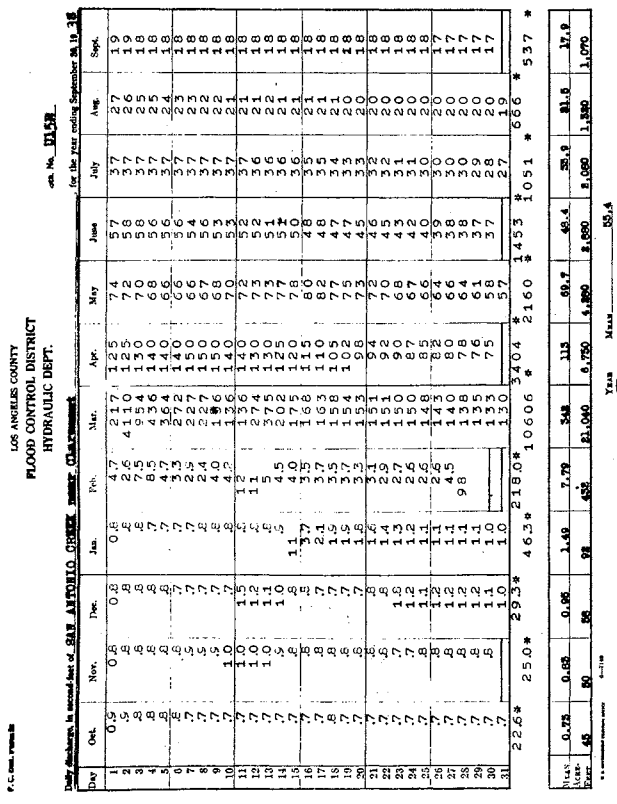
Sta. No. U15R

Daily discharge, in second-feet of SAN ANTONIO CREEK near Claremont for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.5	0.6	3.8	1.9	64	75	59	36	10	12	9.9
2	3.4	5.5	5.6	2.8	1.8	61	75	57	36	9	12	9.9
3	4.4	5.5	5.6	2.4	1.7	59	72	54	32	9	12	9.9
4	3	5.5	5.6	2.0	1.7	59	70	56	31	8.5	12	9.9
5	3	5.5	5.6	1.9	1.9	57	70	54	29	8	12	9.9
6	3	5.5	5.6	1.9	37	56	70	54	27	7.5	12	9.9
7	3	5.5	5.6	1.7	94	54	73	54	26	7.5	12	9.9
8	3	5.5	5.6	1.7	75	53	78	53	24	7	12	9.9
9	3	5.5	5.6	1.6	64	53	80	52	22	6.5	12	9.9
10	3	5.5	5.6	1.5	57	52	80	52	20	6.5	11	9.9
11	3	5.5	5.6	1.5	52	50	78	52	19	5.5	11	9.8
12	3	5.5	5.6	1.5	49	93	76	53	18	5	11	9.9
13	3	5.5	5.5	1.5	65	126	80	64	16	4.8	10	9.9
14	3	5.4	4.5	1.5	166	116	86	64	15	4.5	10	9.9
15	3	5.5	4.6	1.5	168	120	94	61	14	4.2	10	9.9
16	3	5.5	5.4	1.4	136	128	94	58	14	4.0	9.9	9.9
17	3	5.5	5.6	2.0	128	115	90	54	13	3.5	9.9	9.9
18	3	5.5	5.6	1.7	116	111	90	52	13	3.0	9.9	10
19	3	5.5	5.5	1.4	113	113	86	50	12	2.5	9.9	10
20	3	5.5	5.5	1.3	113	116	86	48	12	2.0	9.9	10
21	3	5.5	5.6	1.3	107	109	84	48	11	1.6	9.8	10
22	3	5.5	5.6	1.2	100	92	82	44	11	1.5	9.9	10
23	3	5.5	5.6	1.2	96	86	80	44	10	1.4	9.9	10
24	3	5.5	5.6	1.2	96	80	78	43	10	1.3	9.9	10
25	3	5.5	5.6	1.2	73	78	78	40	10	1.3	9.9	10
26	3	5.5	5.7	1.1	68	75	78	38	10	1.3	9.9	10
27	3	5.5	6.4	1.1	73	73	78	38	10	1.3	9.9	10
28	3	5.5	4.2	1.1	68	70	62	37	10	1.2	10	10
29	3	5.5	2.6	1.1	73	70	61	36	10	1.2	10	10
30	3	5.5	2.6	2.2	68	72						
31	3		8.5	1.7								
	309*	165*	590*	509*	2233 *	2588 *	2357 *	1581 *	544 *	142.2*	31.8*	27.6*
Mean	1.0	0.55	1.90	1.64	79.8	83.5	78.6	51.0	18.1	4.59	1.03	0.92
Acre-Feet	61	33	117	101	4,430	5,130	4,660	3,140	1,080	282	63	55

Year 19 Mean 26.5 Acre-Feet 19,170

F.C. Dist. Form 5a



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U15R

Daily discharge, in second-feet of SAN ANTONIO CREEK near Claremont for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	0.8	0.8	0.8	4.7	217	125	74	57	37	27	19
2	9.9	8	8	8	2.6	4110	125	72	58	37	26	19
3	8	8	8	7	8.5	954	130	70	58	37	25	18
4	8	8	8	7	7.5	436	140	68	56	37	24	18
5	8	8	8	7	4.3	264	140	66	56	37	23	18
6	7.7	8	7.7	7	2.3	227	140	67	54	37	23	18
7	7.7	8	7.7	7	2.4	187	150	68	56	37	22	18
8	7.7	8	7.7	8	4.0	156	150	68	53	37	22	18
9	7.7	8	7.7	8	4.0	136	150	70	53	37	21	18
10	7.7	8	7.7	8	4.0	136	140	72	52	37	21	18
11	7.7	10	7.5	8	12	136	140	72	52	37	21	18
12	7.7	10	7.2	8	11	274	130	73	51	37	21	18
13	7.7	10	7.1	8	5	375	125	73	51	37	21	18
14	7.7	10	7.1	8	4.5	202	125	77	52	36	21	18
15	7.7	9	7.1	8	4.0	175	120	78	50	36	21	18
16	7.7	8	7.1	8	3.5	168	115	80	48	35	21	18
17	7.8	8	7.1	8	3.7	163	110	82	48	35	21	18
18	7.7	8	7.1	8	3.5	158	110	77	47	34	21	18
19	7.7	8	7.1	8	3.5	155	105	75	47	33	20	18
20	7.7	8	7.1	8	3.5	154	102	73	45	33	20	18
21	7.7	8	7.1	8	3.1	153	98	73	45	33	20	18
22	7.7	8	7.1	8	2.9	151	92	70	46	32	20	18
23	7.7	8	7.1	8	2.7	150	90	68	43	31	20	18
24	7.7	8	7.1	8	2.5	150	87	67	42	31	20	18
25	7.7	8	7.1	8	2.5	148	85	66	40	30	20	18
26	7.7	8	7.1	8	2.5	143	82	64	39	30	20	17
27	7.7	8	7.1	8	4.5	140	80	66	38	30	20	17
28	7.7	8	7.1	8	9.8	138	78	64	38	30	20	17
29	7.7	8	7.1	8		135	76	61	38	29	20	17
30	7.7	8	7.1	8		133	75	58	37	28	20	17
31	7.7		7.1	8		130		57		27		
	226*	250*	293*	463*	218.0*	10606 *	3404 *	2160 *	1453 *	1051 *	666 *	537 *
Mean	0.75	0.83	0.95	1.49	7.79	348	113	69.7	48.4	33.9	21.5	17.9
Acre-Feet	45	50	58	92	430	21,040	6,750	4,290	2,880	2,080	1,320	1,070

Year 38 Mean 55.4 Acre-Feet 40,100

F.C. Dist. Form 5a

STATION U10R

SAN DIMAS CREEK near San Dimas, Calif.

LOCATION:

Water-stage recorder, lat. 34° 08' 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 approximately 1,245 feet.

DRAINAGE AREA:

18.3 square miles.

RECORDS AVAILABLE:

December, 1916 to September, 1938.
April to September, 1916, discharge measurements only.

AVERAGE DISCHARGE:

20 years (1917-37), 3.73 second-feet.
21 years (1917-38), 4.43 second-feet.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 127 second-feet February 7.
Minimum less than 0.1 second-foot during October and November.
1937-1938
Maximum 4250 second-feet March 2.
Minimum 0.1 second-foot January 23-25.
1916-1938
Maximum 4250 second-feet March 2, 1938.
Minimum no flow for several months nearly every year.

REMARKS:

1936-1937
Records good. Discharge February 6-9 and July 11-24 computed on basis of records of release from flood control reservoir and records for stations on nearby streams.

1937-1938
Records good. Discharge December 31 to January 3, January 6-15, 22-24, February 18-27, March 2-9 and 20-27 determined from releases from flood-control reservoir.

Flood control dam above gage regulates flow. San Dimas Water Company 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.

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 10 R

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

XX NEAR San Dimas, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	RETING	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
923	10/22	Brewster	0.5	0.08	1.00	0.06	0.08		.6	1		416P 419P	FC 8
924	10/29	"	.5	.09	.56		.05		.6	1		510P 512P	"
925	11/5	"	.5	.07	.57	.06	.04		.6	1		526P 528P	"
926	11/12	"	.5	.07	.57	.07	.04		.6	1		430P 432P	"
927	11/19	"	.5	.07	.57	.07	.04		.6	1		402P 404P	"
928	11/25	"	.5	.07	.43	.07	.03		.6	1		355P 357P	"
928A	12/2	R. Stanley Lord				.08	.13	3" Flume					
929	12/3	Brewster	.5	.08	.50	.07	.04		.6	1		400P 402P	FC 8
930	12/10	"	.5	.08	.50	.07	.04		.6	1		327P 329P	"
931	12/15	R. Stanley Lord				.17	.40						1215
932	12/17	Brewster	1.0	.18	.61	.10	.11		.6	2		430P 433P	FC 8
933	12/23	"	1.0	.16	.62	.09	.10		.6	2		402P 405P	"
934	12/31	F.C. Ebert	25.	28.		2.05	94.		.6	10		1230P 100P	27214
935	1/1	"	17.6	13.	3.16	1.77	41.		.6			1010A 1030A	"
936	1/8	Brewster	3.0	.96	1.17	.24	1.		.6	3		1040A 1045A	FC 8
937	1/9	R. Stanley Lord	3.	.9	1.00	.24	.9		.6	6		855A 905A	1215
938	1/14	H. C. McCreery				.20	.8			11		1120A 1130A	1232
939	1/15	Brewster	3.0	.93	.87	.19	.80		.6	3		1010A 1015A	FC 8
940	1/21	H. C. McCreery				.16	.44			7		955A 1000A	1232
941	1/22	Brewster	3.0	.85	.77	.16	.50		.6	3		1015A 1019A	FC 8
942	1/25	H. C. McCreery				.15	.44			7		424P 430P	1232
943	1/29	Brewster	3.0	.79	1.29	.24	1.0		.6	3		820A 825A	FC 8
944	2/3	H. C. McCreery				.21	.8			9		445P 455P	1232
945	2/5	Brewster	2.0	.68	1.28	.20	.85		.6	4		1010A 1016A	FC 8

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 10 R

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

NEAR San Dimas, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	GAGE NO.	MEAS. NOS.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
946	2/6	F. C. Ebert	16.	12.	2.50	1.73	30.		.6	10		240P 300P	27214
947	2/9	"	19.	22.		1.97	66.		.6	10		110P 130P	"
948	2/11	Brewster	14.	19.	1.65	1.72	30.		.6	7		520P 532P	FC 8
949	2/15	H. C. McCreery				2.07	101.		.6	18		450P 505P	1232
950	2/19	Brewster	16.	19.	1.93	1.77	36.		.6	8		1000A 1012A	FC 8
951	2/23	H. C. McCreery				.40	1.8		.6	11		500P 510P	1232
952	2/25	Brewster	9.0	5.0	.80	.55	4.0		.6	5		440P 447P	FC 8
953	3/1	H. C. McCreery				1.60	20.		.6	16		400P 415P	1232
954	3/4	Brewster	5.0	2.8	.71	.34	2.0		.6	5		530P 542P	FC 8
956	3/10	H. C. McCreery				.26	1.6		.6	9		145P 200P	1232
957	3/11	Brewster	5.0	3.0	.51	.24	1.6		.6	5		520P 528P	FC 8
958	3/15	H. C. McCreery				.50	3.0		.6	11		400P 410P	1232
959	3/19	Brewster	18.	28.	3.55	2.11	100.		.6	9		857A 909A	FC 8
960	3/22	F. C. Ebert	16.5	21.	2.15	1.88	45.	.28	.6 .8	10		140P 210P	27214
961	3/26	Brewster	9.0	5.6	.78	.62	4.0		.6	5		1020A 1030A	FC 8
962	4/1	H. C. McCreery	Two Channels			.49	2.7					340P 350P	1232
963	4/1	Brewster	9.0	5.0	.67	.48	3.3		.6	5		550P 600P	FC 8
955	4/6	H. C. McCreery				.40	26.		.6	10		125P 135P	1232
964	4/8	Brewster	16.	25.	2.49	1.90	57.		.6	8		515P 530P	FC 8
965	4/12	H. C. McCreery	11.	4.4	.59	.44	2.6		.6	11		240P 250P	1232
966	4/15	Brewster	5.0	2.3	.80	.35	1.8		.6	5		310P 320P	FC 8
967	4/19	H. C. McCreery	5.5	20.	.70	.34	1.4		.6	11		1215P 1225P	1232
968	4/23	Brewster	4.0	2.0	.82	.33	1.7		.6	4		925A 931A	FC 8
969	4/29	"	4.0	2.1	1.04	.36	2.1		.6			520P 527P	"
970	5/3	H. C. McCreery	5.5	2.1	.43	.29	.9		.6	8		1200N 1205P	1232
971	5/6	Brewster	9.0	5.7	.96	.69	5.5		.6	6		545P 557P	FC 8
972	5/20	"	9.0	5.4	.73	.51	3.9		.6	5		455P 505P	"
973	5/21	H. C. McCreery	12.5	5.2	.88	.67	4.6		.6	12		150P 200P	1232
974	6/2	R. Stanley Lord	11.4	8.1	.69	.79	5.6		.6	11		845A 855A	29529
975	6/3	Brewster	8.0	6.2	.95	.78	6.		.6	5		420P 431P	FC 8
976	6/15	H. C. McCreery	8.7	5.3	1.06	.78	5.6		.6	17		240P 255P	1232
977	6/17	Brewster	9.5	7.6	0.82	0.82	6.3		.6	5		345P 354P	FC 8
978	6/25	H. C. McCreery	9.5	6.6	1.08	.88	7.1		.6	19		245P 305P	1232
979	7/8	Brewster	10.	7.9	.91	.84	7.2		.6	5		345P 355P	FC 8
980	7/22	"	10.0	7.52	.90	.78	6.8		.6	5		225P 234P	"
981	8/5	"	9.5	7.0	.85	.73	5.9		.6	5		345P 357P	"
982	8/19	"	11.	5.5	1.00	.75	5.5		.6	8		340P 350P	"
983	8/24	R. Stanley Lord				.73	5.1					210P	1215
984	9/2	Brewster	10.5	7.8	.86	.72	5.2		.6	6		436P 448P	FC 8
985	9/16	"	10.0	7.0	.83	.80	5.8		.6	5		328P 340P	"
986	9/30	"	9.0	6.5	.90	.77	5.8		.6	6		408P 420P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

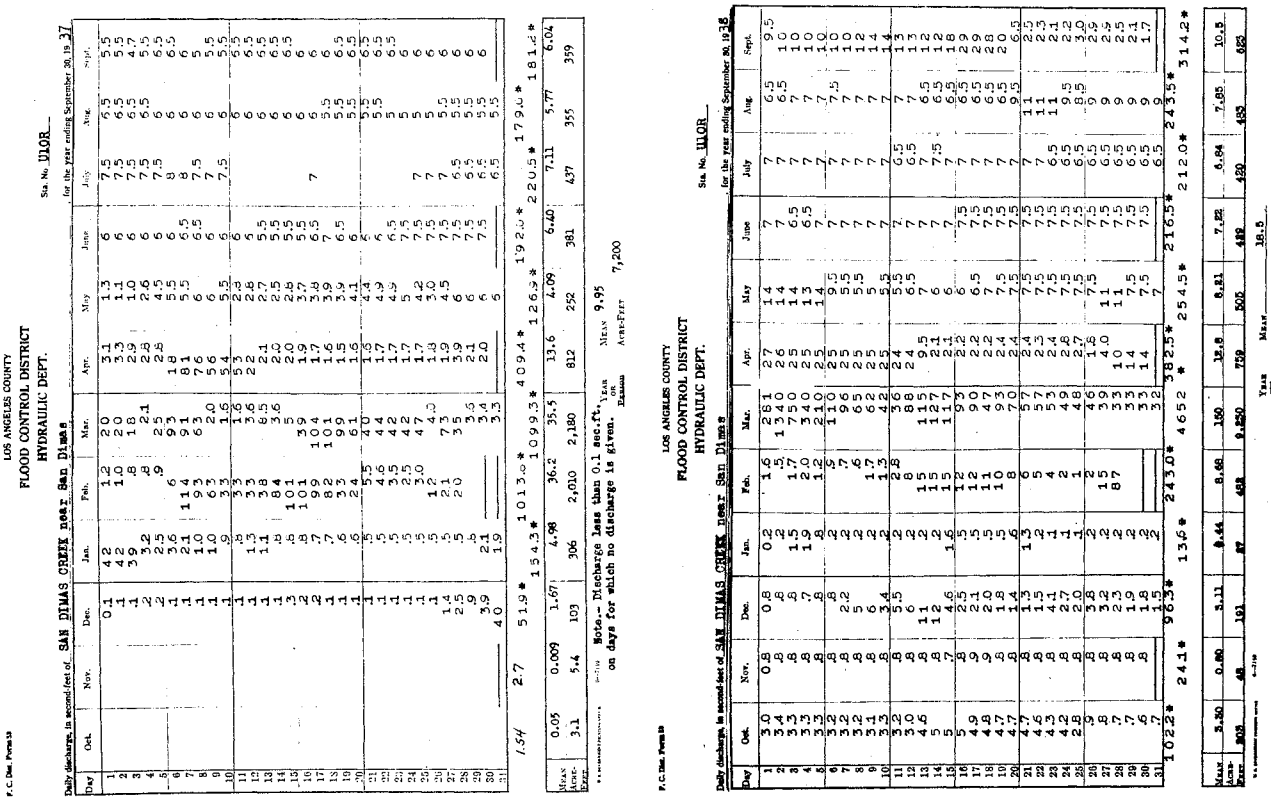
STATION NO. U 10 R

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

NEAR San Dimas, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	GAGE NO.	MEAS. NOS.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
987	10/1	R. S. Lord	10.	5.4	0.43	0.44	2.3		.6			1200N 1215P	1215
987A	10/14	Brewster	8.5	5.7	0.83	0.72	4.7		.6			400P 410P	FC 8
988	10/22	Lord-Ebert	11.	8.2	0.52	0.64	4.3		.6			345P	1215
988A	10/28	Brewster	2.0	0.95	0.46	0.20	0.45		.6			350P 357P	FC 8
988B	11/10	"	2.0	1.1	0.74	0.25	0.80		.6			500P 507P	"

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.	GAGE NO.	MEAS. NOS.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
989	11/13	R. S. Lord	2.0	1.1	0.76	0.26	0.85		.6			935A	29529
989A	11/24	Brewster	2.0	1.2	0.66	0.25	0.80		.6			410P 418P	FC 8
989B	12/9	"	8.0	5.5	0.94	0.78	5.2		.6			310P 320P	"
990	12/20	R. S. Lord	9.0	4.8	0.35	0.33	1.7		.6			855A 910A	29529
990A	12/23	Brewster	9.0	5.7	0.76	0.62	4.3		.6			405P 415P	FC 8
990B	1/6	"	1.5	0.55	0.37	0.12	0.20		.6			435P 440P	"
991	1/15	F. C. Ebert	10.5	3.5	2.14	0.83	7.5		.6			1115A 1135A	27214
992	1/15	"	8.5	2.1	2.48	0.70	5.2		.6			1145A 1200N	"
992A	1/20	Brewster	2.0	0.45	0.75	0.13	0.35		.6			427P 432P	FC 8
993	1/26	R. S. Lord	2.0	0.40	0.47	0.10	0.20		.6			240P	29529
993A	2/3	Brewster	5.0	2.5	0.63	0.34	1.6		.6			240P 247P	FC 8
993B	2/10	"	5.0	1.9	0.62	0.29	1.2		.6			340P 346P	"
994	2/11	Lord-Ebert	5.0	1.7	0.65	0.28	1.1		.6			900A 915A	29529
995	2/12	F. C. Ebert	6.8	2.8	0.93	0.57	2.6		.6			1000A 1015A	27214
995A	2/17	Brewster	12.	7.6	1.45	1.21	11.		.6			325P 335P	FC 8
996	2/28	F. C. Ebert	22.5	29.	4.61	2.13	134.		.6			1220P 1245P	27214
997	3/1	"	25.	34.	7.42	2.47	252.		.6			1130A 1200N	
997A	3/10	Brewster	24.	20.	1.77	1.60	36.		.6			530P 545P	FC 8
998	3/12	R. S. Lord	28.	38.	3.29	1.80	126.		.6			150P 210P	1215
998A	3/17	Brewster	28.	34.	2.94	1.75	100.		.6			1102A 1121A	FC 8
998B	3/24	"	22.	23.	2.12	1.73	49.		.6			1030A 1050A	"
999	3/28	R. S. Lord	16.	19.	1.80	1.60	34.		.6			910A 925A	1215
999A	3/31	Brewster	22.	20.	1.55	1.60	31.		.6			1135A 1155A	FC 8
999B	4/7	"	20.	18.	1.43	1.53	25.		.6			1005A 1020A	"
1000	4/12	R. S. Lord	15.	17.	1.48	1.53	25.		.6			1000A	1215
1000A	4/14	Brewster	8.0	3.7	0.53	0.66	2.0		.6			1025A 1031A	FC 8
1001	4/20	A. Wilson	9.3	5.4	0.47	0.42	2.5		.6			125P 150P	1215
1001A	4/21	Brewster	8.0	3.8	0.56	0.42	2.1		.6			915A 922A	FC 8
1002	4/27	A. Wilson	8.0	4.9	0.34	0.31	1.4		.6			210P 300P	29567
1002A	4/28	Brewster	14.	7.2	1.02	0.86	7.3		.6			330P 342P	FC 8
1003	5/5	A. Wilson	12.7	11.	1.30	1.30	14.		.6			100P 140P	29567
1003A	5/6	Brewster	20.	13.	1.09	1.33	14.		.6			950A 1005A	FC 8
1004	5/12	A. Wilson	11.	8.1	0.68	0.77	5.5		.6			1200N 1210P	29567
1004A	5/12	Brewster	14.	8.0	0.95	0.95	7.6		.6			517P 530P	FC 8
1005	5/19	A. Wilson	11.6	8.0	0.88	0.91	7.4		.6			830A 850A	29567
1005A	5/19	Brewster	14.	7.7	0.95	0.92	7.3		.6			430P 440P	FC 8
1006	5/26	A. Wilson	12.	8.5	0.89	0.92	7.6		.6			1038A 1053A	29567
1006A	5/26	Brewster	14.	8.2	0.88	0.91	7.2		.6			420P 432P	FC 8
1007	6/2	A. Wilson	11.8	9.5	0.71	0.88	6.7		.6			418P 452P	29567
1008	6/7	"	13.	9.9	0.65	0.87	6.8		.6			1220P 1236P	"
1008A	6/9	Brewster	9.0	8.9	0.81	0.89	7.2		.6			533P 544P	FC 8
1009	6/21	A. Wilson	13.	11.	0.52	0.89	5.9		.6			1130A 1146A	29567
1009A	6/23	Brewster	14.	10.	0.73	0.88	7.4		.6			525P 535P	FC 8
1010	7/5	A. Wilson	12.5	11.	0.60	0.85	6.9		.6			902A 921A	29567
1010A	7/7	Brewster	11.	8.4	0.85	0.84	7.1		.6			330P 340P	FC 8
1011	7/22	Wilson-Tucker	13.2	11.	0.60	0.88	6.8		.6			915A 930A	29567
1011A	7/28	Brewster	14.	9.4	0.67	0.87	6.3		.6			330P 345P	FC 8
1012	8/3	Tucker	12.8	11.	0.64	0.86	6.8		.6			1030A 1050A	29567
1012A	8/11	Brewster	14.	11.	0.61	0.85	6.6		.6			320P 332P	FC 8
1013	8/17	Tucker	12.5	9.9	0.65	0.86	6.4		.6			1155A 1220P	29567
1013A	8/25	Brewster	16.	10.	0.89	1.10	9.1		.6			345P 400P	FC 8
1014	8/31	Tucker	13.2	12.	0.73	1.15	8.8		.6			219P 241P	29567
1014A	9/8	Brewster	18.	13.	1.09	1.33	14.		.6			430P 445P	FC 8
1015	9/14	Tucker	14.	13.	0.90	1.29	12.		.6			1049A 1112A	29567
1016	9/15	Lindsay	16.3	17.4	1.70	1.56	29.		.6			306P 318P	FC 28
1017	9/22	"	7.5	1.35	1.44	1.49	2.8		.6			235P 243P	"
1019	9/28	Tucker	4.1	1.9	1.37	0.55	2.6		.6			1139A 1204P	29567
1020	9/29	Brewster	3.0	1.4	1.33	0.46	1.8		.6			450P 456P	FC 8



LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U10R

Daily discharge, in second-feet of SAN DIMAS CREEK near San Dimas for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0.1	42	12	20	31	13	6	7.5	7.5	5.5
2			1	42	10	20	33	11	6	7.5	6.5	5.5
3			1	39	8	18	29	10	6	7.5	6.5	4.7
4			1	3.2	8	2.1	28	26	6	7.5	6.5	5.5
5			2	2.5	9		25	45	6	7.5	6	5.5
6			2	3.6	6		18	55	6.5	8	6	6.5
7			1	2.1	114	91	61	55	6.5	7.5	6	6
8			1	1.0	93	63	76	6	6	7.5	6	5.5
9			1	1.0	63	2.0	54	6	6	7.5	6	5.5
10			1	.9	33	1.6	53	5.4	6		6	5.5
11			1	1.5	33	3.6	53	28	6	7.5	6	6.5
12			1	1.1	38	6.5	2.1	2.7	5.5	7.5	6	6.5
13			1	1.1	84	3.6	2.0	2.5	5.5	7.5	6	6.5
14			1	.8	101	5.9	2.0	2.3	5.5	7.5	6	6.5
15			1	.8	101	3.9	1.9	3.7	5.5	7	6	6
16			3	3.2	99	104	1.7	6.5	7	7	5.5	6.5
17			2	.7	82	101	1.6	3.9	7	7	5.5	6.5
18			1	1.1	33	99	1.5	3.9	6.5	7	5.5	6.5
19			1	1.1	24	61	1.6	4.1	6	7	5.5	6.5
20			1	.6	24	40	1.6	4.4	6	7	5.5	6.5
21			1	.5	5.5	4.6	1.6	4.9	6.5	7	5.5	6.5
22			1	.5	4.6	4.2	1.7	4.9	6.5	7	5.5	6.5
23			1	.5	3.5	4.2	1.7	5.2	7.5	7	5.5	6.5
24			1	.5	2.0	4.2	1.7	5.2	7.5	7	5.5	6
25			1	.5	2.0	4.0	1.8	5.2	7.5	7	5.5	6
26			1.4	.5	2.1	7.3	1.9	4.5	7.5	7	5.5	6
27			2.5	.5	2.0	3.5	3.9	6	7.5	6.5	5.5	6
28			2.9	.5		3.5	2.1	6	7.5	6.5	5.5	6
29			3.9	2.1		3.4	2.0	6	7.5	6.5	5.5	
30			4.0	1.9		3.3		6		6.5	5.5	
31								5				
	1.54	2.7	51.9*	1543.3*	1013.0*	1099.3*	4094*	1263*	1920*	2205*	1790*	1814*
Mean	0.05	0.009	1.67	4.98	36.2	35.5	13.6	4.09	6.40	7.11	5.77	6.04
Max.	3.1	5.4	103	306	2,010	2,180	812	252	381	437	355	359
Acre-Feet												

Note.— Discharge less than 0.1 sec.ft. on days for which no discharge is given.

Year Mean 9.95
Acre-Feet 7,200

P.C. Dec. Form 13

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U10R

Daily discharge, in second-feet of SAN DIMAS CREEK near San Dimas for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	0.8	0.8	0.2	1.6	261	27	14	7	7	6.5	9.5
2	3.4	.8	.8	.2	1.5	1340	26	14	7	7	6.5	10
3	3.3	.8	.8	1.5	1.7	750	25	14	6.5	7	7	10
4	3.3	.8	.7	1.9	2.0	340	25	13	6.5	7	7	10
5	3.3	.8	.8	.8	1.2	210	25	14	7	7	7	10
6	3.2	.8	.8	.2	.5	110	25	9.5	7	7	7.5	10
7	3.2	.8	.8	.2	.7	96	25	5.5	7	7	7	10
8	3.1	.8	.8	.2	.6	65	25	5.5	7	7	7	12
9	3.1	.8	.8	.2	1.7	62	25	5.5	7	7	7	14
10	3.2	.8	.8	.2	1.3	42	25	5.5	7	7	7	14
11	3.2	.8	.8	.2	2.8	36	24	5.5	7	6.5	7	13
12	3.0	.8	.8	.2	2	195	24.5	6.5	7	6.5	7.5	13
13	4.5	.8	.8	.2	1.5	127	24	7	7	6.5	6.5	12
14	5	.8	.8	.2	1.5	117	21	6	7	7.5	6.5	12
15	5	.8	.8	.2	1.5	95	22	6	7.5	7	6.5	12
16	5	.8	.9	.2	1.5	90	22	6.5	7.5	7	6.5	29
17	4.9	.9	.9	.2	1.5	47	22	7.5	7.5	7	6.5	28
18	4.7	.8	.8	.2	1.5	93	24	7.5	7.5	7	6.5	20
19	4.7	.8	.8	.2	1.5	70	24	7.5	7.5	7	6.5	6.5
20	4.7	.8	.8	.2	1.5	57	24	7.5	7.5	7	11	2.5
21	4.5	.8	.8	.2	1.3	53	23	7.5	7.5	7.5	11	2.3
22	4.3	.8	.8	.2	1.1	53	24	7.5	7.5	7.5	11	2.1
23	4.2	.8	.8	.2	1.1	48	24	7.5	7.5	7.5	9.5	2.2
24	2.9	.8	.8	.2	1	48	27	7.5	7.5	6.5	8.5	3.0
25		.8	.8	.2	1	46	18	7.5	7.5	6.5	9	2.9
26		.8	.8	.2	2	39	10	11	7.5	6.5	9	2.5
27		.8	.8	.2	15	33	10	11	7.5	6.5	9	2.5
28		.8	.8	.2	87	33	14	7.5	7.5	6.5	9	2.1
29		.8	.8	.2		33	14	7.5	7.5	6.5	9	1.7
30		.8	.8	.2		33	14	7	7.5	6.5	9	
31						32						
	102.2*	24.1*	26.3*	13.6*	243.0*	4652*	382.5*	254.5*	216.5*	212.0*	243.5*	314.2*
Mean	3.30	0.80	5.11	0.44	8.68	150	12.8	8.21	7.22	6.84	7.85	10.5
Max.	5.5	.8	101	.2	87	1,340	752	505	418	430	483	683
Acre-Feet	203	48										

Year Mean 38.5
Acre-Feet 13,400

P.C. Dec. Form 13

STATION U8R

SAN GABRIEL RIVER near Azusa, California

LOCATION:

1936-1937
Water-stage recorder, lat. 34° 09' 30" long. 117° 54' 05", 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.
1937-1938
Water-stage recorder, lat. 34° 10' 25", long. 117° 52' 50" in sec. 13, T. 1 N., R. 10 W., 3/4 mile below Morris Dam and 3-1/2 miles northeast of Azusa. Prior to October 1, 1937 station was located about 2 miles downstream.

DRAINAGE AREA:

1936-1937
214 square miles
1937-1938
211 square miles

RECORDS AVAILABLE:

1894 to September, 1938.

AVERAGE DISCHARGE:

41 years (1896-1937), 106 second-feet.
Average combined discharge of river and diversions, corrected for storage and evaporation in Morris Reservoir, 42 years (1895-1937), 154 second-feet.
Forty-two years (1896-1938), 115 second-feet.
Average combined discharge of river and diversions, corrected for storage and evaporation in Morris Reservoir and San Gabriel River Flood Control Reservoirs Nos. 1 and 2, 43 years (1895-1938), 161 second-feet.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 1950 second-feet February 20.
Minimum no flow for long periods.
1937-1938
Maximum 65700 second-feet March 2, from spillway rating curve.
Minimum 0.1 second-foot November 3-17.
1894-1938
Maximum 65700 second-feet March 2, 1938 from spillway rating curve.
Minimum no flow for several months each year, 1894-1937.

REMARKS:

1936-1937
Records good. During the year, flow was completely regulated by releases from Morris Reservoir of Pasadena Water Department (capacity 38692 acre-feet). Azusa Canal (formerly Southern California Edison Company's power canal) diverts above high water line of Morris Reservoir at point about 5 miles above station.
The following table gives the combined discharge (converted to acre-feet) of river and canal, adjusted for storage and evaporation in Morris Reservoir and releases from San Gabriel No. 2 Flood Control Reservoir, furnished by City of Pasadena, and is comparable to combined discharge of San Gabriel River and Southern California Edison Company's power canal as published for 1894-1933 in the Water Supply Papers of the U. S. Geological Survey, Water Resources Branch:

Month	Acre-feet
October	1195
November	1462
December	10949
January	11574
February	55512
March	58082
April	35557
May	21278
June	10941
July	6045
August	3413
September	2338
Water year 1936-37	218344

1937-1938
Records good. Flow for storm period, March 2-5, was very materially reduced by storage in Flood Control Reservoirs, No. 2 (capacity, 10,800 acre-feet), No. 1 (capacity, 48,500 acre-feet) of Los Angeles County Flood Control District, and Morris Reservoir (capacity 38692 acre-feet prior to March 2, 1938 and 37175 acre-feet subsequent to March 2, 1938) of Pasadena Water Department. During most of the year flow at the station was completely regulated, except for period March 2-5, by releases from Morris Reservoir of Pasadena Water Department. Azusa canal (formerly power canal of Southern California Edison Company) diverts above high-water line of Morris Reservoir at point about 3 miles above station. The following table of combined monthly discharge (converted to acre-feet) of river and diversions, corrected for storage and evaporation

STATION USE (cont'd)

in Morris Reservoir and San Gabriel River Flood Control Reservoirs Nos. 1 and 2, furnished by City of Pasadena, is comparable to combined discharge of San Gabriel River and Southern California Edison Company's canal as published for 1894-1933 in the Water Supply Papers of the U.S. Geological Survey, Water Resources Branch:

Month	Acre-feet
October	2152
November	2116
December	4136
January	5658
February	35290
March	220382
April	35553
May	19841
June	11616
July	7509
August	5407
September	3642
Water year 1937-38	353302

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. U S R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

NEAR Azusa, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 1937

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.	METH-OD	MEAS. MEAS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1139	12/23	Lindsay	72.	63.	1.48	3.14	93.		.6	16		733A 758A	FC 28
1140	12/30	"	76.	78.	1.88	3.37	147.		.6	13		1000A 1020A	"
1141	1/2	"	103.5	120.	2.68	3.88	320.		.6	18		435P 505P	"
1142	1/6	Lindsay and McArthur	80.5	85.	2.08	3.51	177.		.6	15		330P 348P	"
1143	1/8	Lindsay	101.	114.	2.42	3.79	276.		.6	17		932P 958P	"
1144	1/9	R. Stanley Lord	92.	103.		3.78	289		.6	21		1010A 1040A	1215
1145	1/13	Lindsay	102.	112.	2.39	3.78	268.		.6	18		218P 248P	FC 28
1146	1/14	H. C. McCreery	100.	105.		3.78	292.	.2%	.6 .8	24		950A 1025A	1232
1147	1/19	"				3.03	78.	.2%	.6 .8	20		335P 400P	"
1148	1/21	Lindsay	70.5	57.	1.29	3.03	74.		.6	14		150P 218P	FC 28
1149	1/27	H. C. McCreery				3.03	72.		.6	21		255P 255P	1232
1150	2/1	"				3.06	77.		.6	23		410P 430P	"
1151	2/4	Lindsay	74.	74.	1.69	3.31	126.		.6	16		425P 445P	FC 28
1152	2/7	F. C. Ebert	67.	56.	1.55	3.15	87.	.2%	.6 .8	17		1120A 1200N	27214
1153	2/11	Lindsay	74.5	97.	2.49	3.68	241.		.6	16		845A 915A	FC 28
1154	2/17	H. C. McCreery	96.	139.	3.27	4.17	455.	.2%	.6 .8	22		147P 228P	1232
1155	2/19	Lindsay and McArthur	143.	258.	5.44	5.42	1400.		.6	17		840A 915A	FC 28
1156	2/20	McCreery-Lord	150.	276.	6.05	5.60	1670.		.6	19		1150A 1230P	1232
1157	2/21	Lord-McCreery	148.	253.	5.89	5.66	1490.		.6	26		845A 930A	"
1158	2/21	McCreery-Lord	149.	253.	5.45	5.68	1380.		.6	26		945A 1035A	"
1159	2/22	" "	146.	262.	5.72	5.73	1500.		.6	26		930A 1015A	"
1160	2/22	Lord-McCreery	146.	262.	5.84	5.74	1530.		.6	26		1020A 1110A	"
1161	2/23	H. C. McCreery	138.	168.	3.56	4.72	598.		.6	29		1240P 110P	"
1162	2/25	Lindsay and McArthur	126.	163.	4.09	4.81	666.		.6	14		215P 245P	
1163	2/26	H. C. McCreery	140.	205.	4.09	5.00	838.		.6	26		415P 450P	1232
1164	3/3	"	140.	179.	3.53	4.82	631.		.6	26		1145A 1230P	"
1165	3/5	Lindsay	128.	170.	3.51	4.76	595.		.6	15		750A 820A	FC 28
1166	3/5	Cooper-DeVore	98.7	179.	3.15	4.76	563.		.6	18		347P 411P	FC 11
1167	3/5	" "	98.7	177.	3.08	4.70	545.		.6	17		430P 459P	"
1168	3/11	Lindsay	130.	164.	3.35	4.69	548.		.6	14		420P 445P	FC 28
1169	3/12	H. C. McCreery	79.	56.		3.54	84.		.6	22		315P 335P	1232
1170	3/13	"	104.	169.		4.68	549.	.2%	.5 .8	24		100P 135P	"
1171	3/17	R. Stanley Lord	145.	266.		5.87	1560.		.6	27		320P 420P	1215
1172	3/18	Lindsay	140.	274.	5.95	5.86	1630.		.6	15		840A 935A	FC 28
1173	3/18	Cooper-DeVore				5.48	1120.		.6	15		230P 310P	FC 11
1174	3/20	R. Stanley Lord	127.	174.		4.90	631.			27		925A 1005A	1215
1175	3/25	Lindsay	135.	193.	4.73	5.14	914.		.6	15		145P 245P	FC 21
1176	3/31	H. C. McCreery	136.	160.	3.34	4.72	534.		.6	27		105P 135P	29529
1177	4/1	Lindsay	130.	174.	3.52	4.86	614.		.6	17		155P 230P	FC 28
1178	4/1	Brown-DeVore	100.	195.	3.21	4.85	626.		.6	20		250P 321P	FC 10
1179	4/6	H. C. McCreery	135.	177.	3.60	4.93	638.		.6	27		255P 325P	1232
1180	4/8	Lindsay	126.	175.	3.90	5.04	684.		.6	14		300P 325P	FC 28
1181	4/12	H. C. McCreery				3.57	94.		.6	22		1150A 1210P	1232
1182	4/15	Lindsay	63.	53.	1.53	3.60	82.		.6	12		135P 150P	FC 28
1183	4/19	H. C. McCreery	98.	168.	3.09	4.68	517.	.2%	.6 .8	20		220P 250P	1232
1184	4/26	"	131.	149.	3.21	4.83 3.43	478.		.6	28		230P 300P	"
1185	5/3	"	131.	123.	2.80	3.17	345.		.6	26		235P 305P	"
1186	5/6	Lindsay	97.	107.	3.26	3.19	350.		.6	14		215P 245P	FC 28
1187	5/10	H. C. McCreary	130.	117.	2.73	3.14	319.		.6	25		305P 330P	1232
1188	5/13	Lindsay	84.	88.	3.22	3.10	284.		.6	13		430P 500P	FC 28
1189	5/17	H. C. McCreery	130.	122.	2.75	3.17	335.		.6	23		255P 320P	1232
1190	5/20	Lindsay	80.	105.	3.40	3.23	357		.6	11		330P 350P	FC 28
1191	5/24	H. C. McCreery	120.	101.	2.59	2.97	262.		.6	23		200P 225P	1232
1192	5/27	Lindsay	79.	92.	2.79	2.97	258.		.6	11		240P 300P	FC 28
1193	6/2	H. C. McCreery	Three Channels			2.72	176.					830A 910A	1232
1194	6/4	Lindsay	55.	65.1	2.26	2.59	147.		.6	12		730A 755A	FC 28
1195	6/7	H. C. McCreery	Two Channels			3.29	356.					1235P 100P	1232
1196	6/10	Lindsay	49.	38.4	1.76	2.17	68.		.6	10		130P 145P	FC 28
1197	6/14	H. C. McCreery	Two Channels			2.32	99.					225P 305P	1232
1198	6/18	Lindsay	46.5	48.9	1.98	2.28	92.		.6	12		850A 905A	FC 28
1199	6/21	H. C. McCreery				2.11	68.		.6	30		205P 230P	1232
1200	6/24	Lindsay-Thompson	10.7	15.1	3.47	1.99	52.		.6	7		333P 345P	FC 28
1201	6/29	H. C. McCreery	Two Channels			1.88	35.		.6	26		910A 935A	1232
1202	7/1	Lindsay	10.2	11.	2.14	1.77	24.		.6	6		130P 145P	FC 28
1203	7/8	"	8.5	5.3	1.00	1.42	5.3		.6	6		222P 230P	"
1204	7/15	"	8.2	4.9	0.95	1.39	4.6		.6	6		440P 450P	"
1205	7/22	"	8.0	4.8	.87	1.38	4.2		.6	6		315P 325P	"
1206	7/29	"	8.0	3.0	1.34	1.36	4.1		.6	6		207P 217P	"
1207	8/2	R. Stanley Lord	18.	7.4	.65	1.35	4.8		.6	14		1220P 1225P	1215
1208	8/5	Lindsay	7.5	2.6	1.56	1.33	4.1		.6	6		225P 235P	FC 28
1209	8/9	R. Stanley Lord	8.	4.1	1.20	1.34	4.9		.6	12		1210P 1225P	1215
1210	8/12	Lindsay	8.0	2.9	1.20	1.34	3.5		.6	7		220P 230P	FC 28
1211	8/18	Lindsay	7.5	2.7	1.13	1.32	3.0		.6	7		205P 215P	FC 28
1212	8/21	R. Stanley Lord				1.31	3.5					1155A 1225P	1215
1213	8/25	Lindsay	9.5	7.1	2.03	1.63	14.		.6	6		310P 320P	FC 28
1214	9/1	Brewster	10.0	11.	2.32	1.74	25.		.6	5		243P 255P	FC 8
1215	9/3	R. Stanley Lord	(At new station)			1.85	41.					350P 410P	29567
1216	9/10	Brewster	12.0	16.	2.25	1.90	36.		.6	7		340P 352P	FC 8
1217	9/14	R. Stanley Lord				1.93	44.					845A 1225P	1215
1218	9/16	Lindsay	10.0	12.	3.36	1.92	41.		.6	9		147P 200P	FC 28
1219	9/23	"	9.7	11.	2.48	1.84	30.		.6	8		338P 348P	"
1220	9/30	"	Two Channels				0.80		.6	7		205P 213P	"

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 8 R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

NEAR Azusa, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 1938

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.	RETS. OR	MEAS. REGS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1221	10/2	R. S. Lord					0.5		.6				1215
1222	10/2	"	10.8	3.4	0.68	1.20	2.3		.6			1255P 110P	"
*	10/5	Willets-Doane	5.1	2.05	0.73	1.16	1.5		.6		0	410P 420P	
*	10/5	"	5.4	1.92	0.76	1.16	1.5		.6		0	425P 435P	
1223	10/25	R. S. Lord	7.0	7.4	0.02	0.04	0.2		.6				1215
1224	11/13	"	1.3	0.43	0.21	0.05	0.1		.6				29529
1225	12/20	"	15.7	8.2	6.46	0.73	53.		.6			957A 1000A	1215
1226	12/20	"	17.	16.	2.32	0.73	37.		.6			1030A 1045A	"
1227	12/31	"	19.	15.	2.38	0.73	36.		.6			150P	"
*	1/25	Willets-Doane	42.	42.1	1.28	1.02	54.		.6		0	145P 230P	
*	1/25	"	41.	41.9	1.37	1.02	57.		.6		0	235P 330P	
1228	1/26	R. S. Lord	35.	26.	2.38	1.02	62.		.6			1155A 1220P	29529
*	2/1	Willets	8.6	3.51	1.03	1.24	3.6		.6		-.01	120P 135P	
*	2/1	"	8.6	3.45	1.09	1.23	3.8		.6		-.01	135P 150P	
*	2/8	"	8.8	3.28	1.07	1.22	3.5		.6		0	1200N 1215P	
1229	2/11	Lord-Ebert	36.	35.	2.76	1.21	97.		.6			1040A 1110A	29529
*	2/15	Willets	39.	33.99	2.86	2.20	89.		.6		0	1130A 1210P	
1230	2/26	R. S. Lord	60.	102.	3.48		357.		.5			1055A 1110A	1215
1231	2/26	"	60.	104.	3.2	2.22	333.		.6			1115A 1130A	"
*	3/1	Willets	45.0	52.32	3.48	1.67	179.		.6		-.04	1110A 1140A	
1232	5/11	Wilson-Willets	30.	82.	1.02	8.86	90.		.6			1220P 1245P	29567
1233	5/18	"	69.	123.	1.19	9.23	139.		.6			1110A 1136A	
1234	6/7	A. Wilson	30.	35.	0.80		29.		.6			1055A 1115A	29567
*	6/8	Doane	57.0	60.40	0.53		32.		.6			1012A 1100A	
1235	6/15	A. Wilson	31.	44.	1.60		71.		.6			835A 855A	29567
*	6/15	Doane	68.0	84.84	0.89		76.		.6			1055A 1121A	
1236	6/21	A. Wilson	34.5	49.	1.60		77.		.6			806A 835A	29567
*	6/22	Willets	61.0	85.21	0.78	6.96	68.		.6			935A 1000A	
1237	6/27	A. Wilson	33.	43.	1.40		58.		.6			1145A 1210P	29567
1238	7/5	"	30.	41.	1.63		68.		.6			1002A 1025A	"
*	7/6	Willets	34.0	27.16	2.45		67.		.6			154P 220P	
1239	7/11	A. Wilson	33.0	50.	1.90		94.		.6			1144A 1209P	29567
1240	7/12	"	40.	76.	2.70	9.50	203.		.6			857A 914A	"
1241	8/8	Tucker	110.	209.	1.90	9.93	396.		.6			200P 300P	"
1242	8/15	"	100.	191.	1.58	9.80	302.		.6			1140A 1230P	"
1243	8/23	"	95.	176.	1.35	9.67	239.		.6			250P 345P	"
1244	8/29	"	40.	69.	2.81	9.43	194.		.6			1205P 1252P	"
1245	9/16	"	30.	40.	1.60		64.		.6			135P 215P	"
1246	9/19	"	29.6	42.	2.00	9.90	83.		.6			200P 240P	"

* Measurements made by Pasadena Water Department.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U8R

Daily discharge, in second-feet of SAN GABRIEL RIVER near Azusa for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0			80	678		569	360	192	23	4.5	24
2	0			180	630	475	632	331	158	18	4.8	27
3	0			150	632		759	339	145	14	4.8	30
4	0			185	630	491	852	339	150	12	4.5	32
5	0			235	643	576	768	329	150	10	4.5	32
6	0			156	128	545	597	347	312	8	4.8	32
7	0			282	99	537	625	343	254	6	4.8	33
8	0			282	94	26	560	327	254	5.5	5.1	34
9	0			282	243		511	315	230	5.5	4.8	35
10	0			282	255	157	532	303	200	5	4.8	36
11	0			266	290	543	530	300	190	5	3.8	38
12	0			200	244	376	385	295	100	5	3.6	43
13	0			200	110	83	66	295	98	5	3.8	44
14	0			282	242	1020	87	307	87	4.8	3.6	38
15	0			183	480	1550	246	307	84	4.8	3.4	35
16	10			73	652	1550	549	323	82	4.5	3.2	40
17	57			73	1200	1310	537	307	85	4.5	2.9	38
18	89			73	1600	1770	513	311	70	4.5	3.2	33
19	91			73	1770	1770	511	339	66	4.3	3.2	33
20	87			73	1450	1597	511	360	68	4.1	3.4	32
21	93			73	1070	1550	485	254	64	4.1	3.2	31
22	93			73	567	1470	485	251	58	4.1	3.2	30
23	95			73	438	1300	455	261	43	4.1	8	26
24	93			73	716	730	430	261	37	41	15	26
25	93			73	812	576	480	254	35	38	20	26
26	107			75	740	583	475	240	39	38	23	25
27	130			76		516	391	240	32	38	20	18
28	130			80		531	368	231	29	43	19	4.1
29	95			80		537		213		45	20	1.0
30												
31												
	1356 *			4721 *	14732 *	21910 *	14322 *	9282 *	3471 *	199.8 *	2341 *	917.1 *
Mean	43.7			152	526	707	477	299	116	6.45	75.5	30.6
Acre-Feet	2,690			9,360	29,220	43,460	28,410	18,410	6,880	396	464	1,820

Year Mean 195
2000 Acre-Feet 141,100

F.C. Dec. Form 1d

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U8R

Daily discharge, in second-feet of SAN GABRIEL RIVER near Azusa for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.5	1.4	1.1	36	3.3	2730	1330	860	205	40	353	246
2	2.4	1.4	1.1	36	3.3	1230	1330	8	8	52	353	256
3	2.4	1.4	1.1	46	5.5	2160	1280	99	27	61	344	261
4	1.6	1.4	1.1	53	7	8620	1640	59	27	61	340	261
5	1.4	1.4	1.1	53	5.5	4220	2410	88	27	63	329	260
6	1.3	1.3	1.1	53	5.5	3300	2620	89	27	63	327	195
7	1.3	1.3	1.1	53	4.2	2500	3440	89	29	61	420	74
8	1.1	1.3	1.1	54	25	3440	2320	89	29	62	347	78
9	1.1	1.3	1.1	54	22	4470	2210	89	29	62	325	80
10	1.0	1.3	1.1	54	89	2220	1190	90	50	117	298	69
11	1.0	1.2	1.1	57	92	1550	1462	90	60	202	298	69
12	1.0	1.2	1.1	58	89	2690	418	66	55	209	299	70
13	1.0	1.2	1.1	43	89	2690	414	90	72	211	299	93
14	1.0	1.2	1.1	88	88	2980	414	90	75	180	299	112
15	1.0	1.2	1.1	65	88	1720	382	55	74	62	299	92
16	1.0	1.2	1.1	38	88	1440	392	68	75	62	299	84
17	1.0	1.2	1.1	14	88	1760	395	134	78	80	282	84
18	1.0	1.2	1.1	60	88	1550	397	133	80	61	274	84
19	1.0	1.2	1.1	60	89	1420	400	130	85	47	274	84
20	1.0	1.2	1.1	70	92	1420	400	125	86	44	274	83
21	1.0	1.2	1.1	86	94	5000	403	123	86	355	274	83
22	1.0	1.2	1.1	82	98	5000	406	120	45	376	274	85
23	1.0	1.2	1.1	79	99	13600	345	10	48	376	263	73
24	1.0	1.2	1.1	73	170	13600	396	10	48	382	252	73
25	1.0	1.2	1.1	60	341	13600	13	10	61	378	212	73
26	2	2	2	57	308	13600	13	10	61	371	183	73
27	2	2	2	59	180	1210	12.5	10	44	363	181	72
28	2	2	2	66	86	1210	9.5	16	38	360	182	72
29	2	2	2	63		1310	9	10	50	365	180	72
30	2	2	2	57		1310	8.5	30	63	353	213	
31	2		2	35		790		40				
	25.3 *	5.4 *	72.9 *	1635 *	1843 *	99075 *	25832 *	901 *	1521 *	5832 *	8835 *	3376 *
Mean	.82	.18	2.35	52.7	65.8	3,196	861	29.1	50.7	188	285	113
Acre-Feet	50	11	1,450	3,240	4,050	196,600	51,160	1,790	3,080	11,570	17,560	6,700

Year Mean 415
2000 Acre-Feet 300,800

STATION U4R

SANTA ANITA CREEK near Sierra Madre, California

LOCATION:

Water-stage recorder, lat. 34° 11' 30", long. 118° 01' 00", in S.W. 1/4 N.E. 1/4 sec. 10, T. 1 N., R. 11 W., at head of Hermits Falls, 1-1/2 miles upstream from Flood Control Dam and 4 miles northeast of Sierra Madre.
Altitude approximately 1,400 feet.

DRAINAGE AREA:

10.5 square miles.

RECORDS AVAILABLE:

July, 1915 to September, 1938.

AVERAGE DISCHARGE:

21 years, 4.84 second-feet.
22 years, 5.59 second-feet.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 570 second-feet December 27.
Minimum 0.2 second-foot October 7-15.
1937-1938
Maximum about 5200 second-feet March 2.
Minimum 1.3 second-feet October 24 to November 2.
1916-1938
Maximum about 5200 second-feet March 2, 1938.
Minimum practically dry August 18 to September 14, 1929.

REMARKS:

1936-1937
Records good. Discharge July 21 to August 8, August 13 to September 8, computed on basis of records for Little Santa Anita Creek near Sierra Madre, California.

1937-1938
Records fair. Discharge, October 1 to February 1, determined by comparing with Arroyo Seco and Little Santa Anita Creek. Discharge, February 2 to March 17, determined by comparison with inflow to Santa Anita Flood Control Reservoir about 1-1/2 miles below station.

No diversions above station. Station owned and operated by the U.S.G.S. Water Resources Branch.

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 4 R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

XX NEAR Sierra Madre, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
692	10/9	R. Stanley Lord				0.69	0.23	Flume 3"				845A	
693	10/29	"				.94	.48		.6	6		400P 405P	1215
694	12/16	"				1.83	21.		.6	14		940A 1000A	"
695	12/31	"				2.39	58.		.6	19		305P 325P	"
696	1/8	"	12.	6.8	2.06	1.55	14.		.6	6		150P 200P	"
697	1/27	H. C. McCreery				1.30	6.2		.6	10		425P 435P	1232
698	2/10	"				2.20	42.		.6	19		945A 1005A	"
699	2/17	"				2.57	58.	.6 .25	.6	20		435P 500P	"
700	2/24	"				1.99	30.		.6	22		305P 330P	"
701	3/3	"				1.82	22.		.6	21		400P 420P	"
702	3/18	"				2.31	48.		.6	23		1105A 1130A	1215
703	3/31	"				2.05	34.		.6	20		345P 400P	29529
704	4/10	"	19.3	16.	1.44	1.86 1.74	23.		.6	20		1200N 1220P	1232
705	4/21	"	15.8	11.	1.45	1.52	16.	.6 .25	.6	16		1225P 1240P	"
706	4/21	"	15.8	14.	1.29	1.52	18.0		.6	16		305P 320P	"
707	5/8	"	15.2	11.	1.27	1.40	14.		.6	16		920A 935A	"
708	5/17	"	15.	9.3	1.03	1.28	9.6					445P 500P	"
709	5/31	"	15.5	9.3	1.01	1.27	9.9		.6	24		105P 125P	"
710	6/14	"	Two Channels			1.20	6.7		.6	14		920A 940A	"
711	6/25	"	Two Channels			1.07	4.0			19		425P 440P	"
712	7/9	F. C. Ebert	9	2.8	1.00	1.04	2.9		.6			1230P 100P	2721
713	9/9	R. Stanley Lord	5.9	2.1	1.19	.97	2.5					815A 830A	1215
714	9/9	"				.89	1.5					815A	"

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 4 R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

XX NEAR Sierra Madre, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
715	10/2	R. Stanley Lord	5.7	2.0	1.00	0.91	2.0		.6	11		710A	1215
716	10/27	"	6.1	1.5	1.00	0.85	1.5		.6	8		335P 350P	"
717	11/24	"	5.9	1.8	0.89	0.91	1.6		.6	11		925A	"
718	12/20	"	6.2	5.3	1.00	0.98	5.3		.6	7		505P	"
719	1/26	"	7.5	2.5	1.27	1.06	3.5		.6	8		930A	29529
720	2/1	"	20.	12.	1.42	1.49	17.		.6	11		155P 230P	"
721	2/4	"	30.5	22.	2.01	2.56	45.		.6	19		145P 220P	"
722	2/14	F. C. Ebert	21.	16.	1.75	1.82	28.		.6	22		1110A 1140A	27214
723	2/1	Stanley Lord	80.	43.	7.65	4.70	329.		.6	11		950A 1010A	1215
724	3/1	"	30.	45.	6.60	4.63	294.		.6	11		1010A 1145A	"
725	3/18	"	18.	26.	3.2	1.89	82.		.6	10		335P 350P	"
726	3/29	"	20.	17.	1.89	1.90	48.		.6	17		955A 1015A	"
727	4/19	Lord-Wilson	17.	12.7	1.54	1.20	20.		.6	10		410P "	"
728	5/5	A. Wilson	15.5	12.5	1.55	1.00	17.		.6	11		930A 1000A	29527
729	5/19	"	15.9	13.2	0.80	0.87	13.		.6	17		1135A 1200N	"
730	6/2	"	15.7	15.8	0.81	0.98	13.		.6	14		125P 140P	"
731	6/18	"	16.9	15.7	0.50	0.79	7.9		.6	14		850A 920A	"
732	6/29	"	16.7	14.9	0.48	0.75	6.9		.6	14		945A 1022A	"
733	7/14	"	16.0	11.6	0.4	0.65	4.5		.6	8			"
734	7/26	Wilson-Tucker	14.3	12.0	0.33	0.69	4.0		.6	11		1035A 1105A	"
735	8/9	Tucker	12.4	8.2	0.45	0.58	3.9		.6	6		155P 205P	"
736	8/24	"	14.3	6.9	0.39	0.52	2.7		.6	8		1250P 105P	"
737	9/7	"	12.3	6.4	0.36	0.54	2.3		.6	8		117P 135P	"
738	9/20	"	11.5	6.5	0.29	0.52	1.9		.6	10		106P 135P	"

F.C. Dist. Form 54

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U4R

Daily discharge, in second-feet, of SANTA ANITA CREEK near Sierra Madre for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	2.0	1.0	3.6	2.4	2.6	3.4	1.5	9	3.4	2.3	1.4
2	4	1.4	1.0	2.4	2.1	2.5	3.3	1.4	8.5	3.4	2.3	1.3
3	4.5	1.2	1.0	1.9	1.9	2.3	3.2	1.4	8.5	3.2	2.2	1.3
4	4.4	1.1	1.1	1.6	1.7	2.2	3.0	1.4	8.5	3.1	2.2	1.2
5	4.3	1.1	1.1	2.1	1.8	2.0	2.7	1.4	8.5	3.2	2.1	1.2
6	4.2	1.1	1.1	1.7	1.7	1.9	2.6	1.4	7.5	3.1	2.1	1.2
7	4.2	1.1	1.1	1.4	1.6	1.9	2.5	1.3	7.5	3.0	2.1	1.2
8	4.2	1.0	1.1	1.2	1.6	1.9	2.4	1.3	7.5	2.9	2.0	1.2
9	4.2	1.0	1.1	1.2	1.4	1.8	2.3	1.2	7	3.0	2.0	1.2
10	4.2	.9	1.1	1.1	1.3	1.8	2.2	1.2	7	3.0	1.9	1.2
11	4.2	.9	1.1	1.1	1.3	1.8	2.1	1.1	6.5	3.1	1.9	1.2
12	4.2	.9	1.1	1.2	1.2	1.7	2.1	1.1	6.5	3.1	1.9	1.2
13	4.2	.9	1.0	1.1	1.2	1.7	2.0	1.1	6.5	3.1	1.9	1.3
14	4.2	.9	.9	1.1	1.1	1.6	1.9	1.1	6	3.1	1.9	1.3
15	4.2	.9	.9	1.1	1.1	1.5	1.9	1.1	6	3.0	1.8	1.3
16	4.2	.9	.9	1.0	1.1	1.5	1.8	1.0	6	2.9	1.8	1.3
17	4.2	.9	.9	.9	1.0	1.5	1.8	1.0	6	2.9	1.7	1.4
18	4.2	.9	.9	.9	1.0	1.4	1.7	1.0	5.5	2.7	1.7	1.5
19	4.2	.9	.9	.9	1.0	1.4	1.7	1.0	5.5	2.6	1.7	1.5
20	4.2	.9	.9	.9	1.0	1.4	1.7	1.0	5	2.6	1.6	1.6
21	4.2	.9	.9	.8	.9	1.4	1.7	1.0	5	2.6	1.6	1.6
22	4.2	.9	.9	7.5	.9	1.4	1.7	1.1	5.9	2.6	1.6	1.6
23	4.2	.9	.9	7.5	.9	1.4	1.7	1.1	4.6	2.5	1.6	1.6
24	4.2	.9	.9	6.5	.9	1.4	1.6	1.1	4.4	2.5	1.5	1.6
25	4.2	.9	.9	6.5	.9	1.4	1.6	1.1	4.4	2.4	1.5	1.6
26	4.2	.9	.9	6.5	.9	1.4	1.6	1.1	4.1	2.4	1.5	1.6
27	4.2	.9	.9	6.5	.9	1.4	1.6	1.0	3.9	2.4	1.5	1.6
28	4.2	.9	.9	6.5	.9	1.4	1.6	1.0	3.8	2.4	1.5	1.6
29	4.2	.9	1.0	11	.9	1.4	1.5	1.0	3.5	2.3	1.4	2.0
30	4.2	.9	.7	3.4	.9	1.3	1.5	1.0		2.3	1.4	2.1
31	4.2		6.5	3.2		1.3		1.0		2.3		
Total	308*	30.7*	501.8*	427.5*	1480 *	1106 *	640 *	361 *	186.5*	81.1 *	56.5*	43.0*
Mean	9.94	1.02	16.2	13.8	52.9	35.7	21.3	11.6	6.23	2.84	1.83	1.43
Max.	61	61	995	848	2,940	2,190	1,270	716	371	175	113	85

Years: 13.6
Mean Acre-Feet: 9,820

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U4R

Daily discharge, in second-feet of SANTA ANITA CREEK near Sierra Madre for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	13	15	26	17	433	36	21	9.5	6	2.7	2.5
2	20	14	15	24	8	1580	34	20	9	6	2.7	2.3
3	20	14	15	23	43	511	33	19	9	6	2.7	2.5
4	19	14	15	22	63	230	33	18	8.5	6	2.7	2.5
5	19	14	15	20	31	160	33	17	8.5	5.5	2.7	2.3
6	18	14	15	19	19	107	31	17	8.5	6	2.7	2.3
7	18	14	15	18	14	90	30	16	9	5	2.7	2.3
8	18	14	15	18	12	79	28	16	9	4.9	3.0	2.3
9	18	14	15	18	21	72	26	15	9.5	4.9	2.7	2.3
10	17	14	15	18	24	68	25	15	9.5	4.6	2.5	2.3
11	17	14	15	18	50	138	25	15	9.5	4.6	2.5	2.3
12	17	14	15	18	60	122	27	15	9.5	4.6	2.5	2.3
13	17	15	15	18	42	105	27	14	9.5	4.6	2.5	2.1
14	16	15	15	18	28	94	24	14	9.5	4.3	2.3	1.7
15	16	15	15	19	25	88	23	15	9.5	4.3	1.9	1.7
16	15	15	15	19	19	84	22	14	8	4.0	1.9	1.7
17	15	15	15	18	17	82	21	14	7.5	3.7	2.1	1.9
18	15	15	15	8	16	79	20	14	7.5	4.0	2.1	1.9
19	14	15	15	5	14	77	20	14	7.5	4.0	2.3	1.7
20	14	15	16	5	12	73	22	13	7.5	4.0	2.4	1.7
21	14	16	23	4	10	67	22	12	7.5	4.0	2.3	1.7
22	14	16	23	38	9.5	62	21	12	7.5	4.0	2.3	1.7
23	14	16	24	37	8.5	57	20	12	7.5	4.2	2.3	1.7
24	13	16	43	36	8.5	54	24	11	6.5	3.7	2.5	1.9
25	13	16	32	34	7.5	52	22	11	6.5	3.5	2.7	1.9
26	13	15	27	32	7.5	48	20	10	6	3.5	2.7	1.9
27	13	15	6	31	17	45	19	10	6	3.2	2.5	1.7
28	13	15	41	30	334	44	19	10	6	3.2	2.5	1.7
29	13	15	35	31		42	20	10	6.5	3.2	2.5	1.7
30	13	15	30	31		40	22	10	6.5	3.0	2.5	1.8
31	13		29	30		37		9.5		3.0	2.5	
	495*	444*	1059*	1114*	936*	4875 *	748 *	4335*	2365*	1357*	770*	603*
Mean	1.60	1.48	3.42	3.59	33.4	157	24.9	14.0	7.88	4.38	2.48	2.01
Mean, Corr.	98	88	210	221	1,860	9,670	1,480	860	469	269	153	120

Mean 21.4
Acre-Feet 15,500

F.C. Dec. Form 3-

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 5 R

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

XX NEAR Monrovia, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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	GAGE SECT. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
361	10/17	Lindsay	0.9	0.28	1.96	0.98	0.55		.6	1		412P 413P	FC 28
362	11/9	R. Stanley Lord				1.31	.14		3" Flume			335P	
363	11/19	Lindsay	.7	.09	.89	1.29	.08		.6	1		1221P 1234P	FC 28
364	11/25	"	.7	.09	1.11	1.28	.10		.6	1		1022A 1024A	"
365	11/27	R. Stanley Lord				1.28	.16		3" Flume			500P	
366	12/15	Lindsay and McArthur	4.8	2.6	1.50	1.91	3.9		.6	5		510P	FC 28
367	12/17	Lindsay	.65	.09	5.22	1.46	.48		Fl			1010A 1011A	
368	12/29	"	1.3	.26	6.31	1.71	1.6		.6	2		950A	FC 28
369	12/31	F. C. Ebert	16.	6.6	3.33	2.64	22.		.6	16		945A 1005A	27214
370	12/31	R. Stanley Lord				2.58	15.		.6	12		425P 435P	1215
371	1/6	Lindsay and McArthur	1.0	.22	3.05	1.60	.65		.6	3		1203P 1206P	FC 28
372	1/8	R. Stanley Lord				1.51	1.2		.6	4		330P 335P	1215
373	1/12	Lindsay and McArthur	1.3	.40	3.50	1.72	1.4		.6	2		108P 112P	FC 28
374	1/19	H. C. McCreery				1.76	2.0			2		1215P 1220P	1232
375	1/20	Lindsay	1.4	.45	3.74	1.76	1.7		.6	2		315P 322P	FC 28
376	1/25	H. C. McCreery				1.30	.2					1230P	
377	2/1	"				2.13	6.7		.6	19		305P 320P	1232
378	2/4	Lindsay	4.0	1.2	1.66	1.74	1.9		.6	6		250P 258P	FC 28
379	2/6	Lindsay and McArthur	13.	5.0	2.39	2.44	12.		.6			1035A 1045A	"
380	2/6	H. C. McCreery				3.05	59.						1232
381	2/7	F. C. Ebert	15.3	11.	3.64	2.95	40.		.6	16		905A 930A	27214
382	2/10	H. C. McCreery				2.38	11.		.6	12		1215P 1225P	1232
383	2/15	"				2.83	27.		.6	24		1235P 1255P	1232
384	2/16	Lindsay and McArthur	16.5	9.6	2.72	2.80	26.		.6	9		210P 220P	FC 28
385	2/18	Cole	7.5	5.48	.44	1.98	2.4		.6	5		315P 330P	FC 36
386	2/24	H. C. McCreery				1.58	1.1		.6	10		1150A 1200N	1232
387	2/26	Cole	Two Channels			1.60	1.3		.6			246P 300P	FC 36
388	3/1	H. C. McCreery				1.51	0.65			6		220P	1232
389	3/4	Lindsay				2.00	4.3		.6			445P 454P	
390	3/10	H. C. McCreery				1.55	.65			10		520P 530P	1232
391	3/11	Lindsay				1.56	.69		Est				
392	3/13	Lindsay and McArthur	17.5	9.5	2.66	2.81	25.		.6	9		726A 735A	FC 28
393	3/15	H. C. McCreery				2.73	19.		.6	16		1250P 105P	1232
394	3/18	Cole	17.0	11.1	1.15	2.54	13.		.6	9		245A 258A	FC 1
395	3/22	R. Stanley Lord				2.29	8.9		.6	14		230P 245P	1215
396	3/22	"				2.28	4.5		.6			250P 255P	"
397	3/25	Cole	16.4	10.6	1.18	2.49	12.		.6			247P 300P	FC 36
398	4/3	H. C. McCreery				2.16	6.5			13		1200N 1215P	1232
399	4/8	Lindsay	13.5	5.22	1.64	2.37	8.6		.6	8		825A 835A	FC 28
400	4/10	H. C. McCreery				1.90	4.6		.6	9		1030A 1040A	1232
401	4/19	"				1.74	2.3		.6	9		1120A 1125A	1232
402	5/3	"				1.26	.03					1105A	
403	5/17	"	3.5	.80	1.25	1.60	1.0			8		115P 120P	1232
404	5/20	Lindsay				1.24	.01		Est			155P	
405	6/2	H. C. McCreery				1.36	.26					1115A	
406	6/10	Lindsay	3.0	.63	.98	1.54	.62		.6	4		1033A 1040A	FC 28
407	6/14	H. C. McCreery				1.24	.01					405P	
408	7/21	R. Stanley Lord				1.22	.026		3" Venturi				

STATION U5R

CAWPIT CREEK near Monrovia, California

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, 0.2 mile upstream.

RECORDS AVAILABLE:

November, 1916 to September, 1938.

AVERAGE DISCHARGE:

20 years (1917-37) 1.01 second-feet.
21 years (1917-38) 1.27 second-feet.

EXTREMES OF DISCHARGE:

1936-1937
Maximum 230 second-feet February 6.
Minimum no flow for several months.
1937-1938
Maximum 1800 second-feet March 2, estimated from record of inflow at flood control dam.
Minimum no flow for several months.
1916-1938
Maximum about 2000 second-feet April 7, 1926, estimated from flow of Rogers Creek.
Minimum no flow for several months each year.

REMARKS:

1936-1937
Records good.
1937-1938
Records fair. Discharge February 12 to April 10 determined from hydrograph based on 6 measurements and records of inflow and release from flood-control dam above gage. Discharge April 13-15, 24, May 6-27, June 9, July 2 and July 28, August 1, based on frequent measurements and record of Monrovia Pipe Line.

F.C.D. FORM 104 IN 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. U 5 R

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

NEAR Monrovia, Calif. DURING THE YEAR ENDING SEPTEMBER 30, 1938

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.	METH-OD	MEAS. MEAS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
409	12/12	R. S. Lord	4.1	1.0	.94	1.53	.95		.6			1115A 1120A	1215
410	1/15	"	3.9	.95	.93	1.52	.90		.6			340P 225P	29529
411	2/1	F. C. Ebert	3.8	.95	.84	1.55	.80		.6			240P 340P	27214
412	2/4	"	4.5	2.8	6.07	2.62	17.		.6			355P 450P	"
413	2/11	Lord and Ebert	15.	7.4	4.46	2.84	33.		.6			505P 440P	29529
413A	2/11	Lindsay-Ingram	15.	8.7	2.84	2.84	25.		.6	9		452P 450P	FC 28
414	2/12	F. C. Ebert	13.	5.5	2.00	2.44	11.		.6			510P 1015A	27214
415	2/13	"	11.2	5.2	2.11	2.40	11.		.6			1035A 1015A	"
415A	2/16	Lindsay	9.2	3.5	1.42	2.04	5.0		.6			1025A 455P	FC 28
415B	2/27	Lindsay-Ingram	11.0	5.96	1.75	2.41	10.		.6	8		505P 320P	"
416	2/28	F. C. Ebert	Mean	of 2	meas.	3.44	89.		.6			350P 1108A	27214
416A	3/1	Haig-Baustian	15.2	11.	8.67	3.50	95.		.6	10	-.09	1131A 1205P	FC 38
417	3/14	R. S. Lord	12.	13.	2.40		30.		.6			1215P 1230P	1215
418	3/31	"	10.	8.0	1.60		13.		.6			1245P 330P	"
419	4/12	"	11.	7.0	1.43	2.28	10.		.6			110P 125P	"
420	4/16	"	11.	6.4	1.40	2.20	9.0		.6			930A 1030A	"
421	4/25	Wilson-Lord	11.	7.8	.90	2.10	7.1		.6			1230P 100P	29567
422	5/2	A. Wilson	11.	7.0	.95	2.06	6.8		.6			410P 420P	"
423	5/9	"	11.	7.0	.70	2.05	4.2		.6			325P 335P	"
424	5/17	"	10.	5.4	.75	2.06	4.0		.6			200P 210P	"
425	5/24	"	9.5	4.7	.55	2.00	2.7		.6				"
426	6/6	"	8.7	2.6	.42	1.79	1.1		.6				"
427	6/20	"	3.6	1.4	.50	1.86	.70		.6				"
428	7/5	"	4.5	1.2	.70	1.96	.85		.6			320P 330P	"
429	7/28	Wilson-Tucker	4.3	2.1	.34	1.91	.70		.6			225P 234P	29567
430	8/2	S. Tucker	4.1	.80	.50	1.84	.40		.6			334P 345P	"
431	8/16	"	4.0	.70	.30	1.84	.40		.6			1000A 1012A	"
432	8/30	"	3.5	.40	.65	1.84	.26		.6			1230P 1245P	"
433	9/12	"	2.6	.30	.50	1.80	.14		.6			1100A 1130A	"
434	9/27	"				1.81	.14		Vol				

F.C. Dist. Form 18

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U5R

Daily discharge in second-feet of SAWPIT CREEK near Monrovia, for the year ending September 30, 1937

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	1.4	0	8.5	6.5	6	1.0	1	0.2	0		
2	0	3	0	6.5	6.5	5.5	4.8	1	3	0		
3	0	3	0	5.5	4.5	4.9	7	1	3			
4	0	2.2	0	4.6	2.2	3.7	6.5	1	1			
5	0	2	0	4.5	2.1	2.0	5.5	1	2	1.0		
6		1.1		1.8	1.4		4.5	1	1.6	9		
7	0	1	0	.7	4.4	1.4	7.5	1	1.2	9		
8	0	1	0	.6	4.4	2.1	6.5	1	1.2	9		
9	0	1	0	.3	2.0	1.7	3.9	1	1.2	9		
10	0	1	0	1.5	1.2	1.0	4.1	1	1.2	9		
11	0	1	1	1.5	1.1	1.0	3.5	1	1.3	9		No Flow
12	0	1	1	1.4	8	1.7	3.5	1	1.7	9		
13	0	1	1	1.2	3.5	1.4	3.5	1	1.8	9		
14	0	1	1	1.0	3.2	1.4	3.5	1	1.8	9		
15	0	1	1	.9	7.0	1.5	6.5	1	1.3	9		
16	1	1	1	.8	3.2	1.9	6.5	1	1.2	9		
17	1.6	1	1	1.6	2.7	1.7	6.6	1	1.2	9		
18	2	1	1	1.5	2.4	1.3	6.6	1	1.2	9		
19	1.0	1	1	4.5	1.8	1.0	6.6	1	1.2	9		
20	0	1	1	1.9	2.0	1.0	2.6	1	1.5	9		
21	0	1	1	1.8	9	9.4	2.6	1	1.4	7		
22	0	1	1	1.5	7	9	2.5	1	1.0	0		
23	0	1	1	1.3	3	9.5	2.5	1	1.1	0		
24	0	1	1	1.1	1.1	12	1.7	1	1.1	0		
25	0	1	1	1.1	1.1	13	1.3	1	1.1	0		
26	0	1	1	1.1	1.1	11	1.3	1	1.1	0		
27	0	1	1	1.1	1.1	11	1.5	1	1.1	0		
28	0	1	1	1.1	1.1	11	1.4	1	1.1	0		
29	0	1	1	1.1	1.1	8.5	2	1	1.1	0		
30	0	1	1	1.1	1.1	3.6	4	1	1.1	0		
31	2		1	1.1		1.0	3			0		
	2.9*	3.9*	47.2*	60.5*	406.7*	2369*	921*	192*	7.2*	4.3*		
Mean	0.09	0.13	1.52	1.95	14.5	7.64	3.07	0.62	0.26	0.14	0	0
Acre-Feet	5.8	7.7	94	120	807	470	183	36	15	8.5	0	0

Year Mean 2.42
Acre-Feet 1,750

F.C. Dist. Form 18

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. U5R

Daily discharge in second-feet of SAWPIT CREEK near Monrovia, for the year ending September 30, 1938

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	1.5	114	13	7.5	1.1	0.2	0.5	0.7
2	0	0	0	0	1.5	450	13	6.5	1.1	0.2	.5	.7
3	0	0	0	0	1.1	235	13	6.5	1.1	0.2	.5	.7
4	0	0	0	0	1.9	192	13	6.5	1.1	0.2	.5	.7
5	0	0	0	0	1.5	92	12	6	1.1	0.2	.5	.7
6		0		0	1.5	76	12	5	1.1	0.2	.5	.7
7	0	0	0	0	1.8	37	12	4.5	1.2	0.2	.5	.7
8	0	0	0	0	1.5	25	12	4.2	1.2	0.2	.5	.7
9	0	0	0	0	1.5	24	11	4.2	1.2	0.2	.5	.7
10	0	0	0	0	1.5	22	11	4.2	1.2	0.2	.5	.7
11	0	0	1.6	0	1.4	41	10	4.1	1.1	0.2	.5	.7
12	0	0	1.3	0	1.1	34	10	4.1	1.1	0.2	.5	.7
13	0	0	0	0	1.5	30	10	4.1	1.0	0.2	.5	.7
14	0	0	0	0	1.7	26	10	4.0	1.0	0.2	.5	.7
15	0	0	0	.7	1.5	24	9	4.0	1.0	0.2	.5	.7
16	0	0	0	.3	1.2	22	9	4.0	1.0	0.2	.5	.7
17	0	0	0	.2	1.2	20	9	3.7	1.0	0.2	.5	.7
18	0	0	0	.2	1.2	19	9	3.4	1.0	0.2	.5	.7
19	0	0	0	.2	1.2	19	9	3.2	1.0	0.2	.5	.7
20	0	0	0	.2	1.0	19	9	3.2	1.0	0.2	.5	.7
21	0	0	0	0	.5	16	8.5	3.0	1.0	0.2	.5	.7
22	0	0	0	.4	.5	18	8.5	2.1	1.0	0.2	.5	.7
23	0	0	0	.3	.5	14	7.5	2.1	1.0	0.2	.5	.7
24	0	0	0	.2	.7	13	7	2.7	1.0	0.2	.5	.7
25	0	0	0	.2	.6	13	6	2.7	1.0	0.2	.5	.7
26	0	0	0	.2	.7	13	6	2.7	1.0	0.2	.5	.7
27	0	0	0	.2	.7	13	6	1.6	1.0	0.2	.5	.7
28	0	0	0	.2	1.0	13	6	1.4	1.1	0.2	.5	.7
29	0	0	0	.1	8.9	14	6	1.4	1.1	0.2	.5	.7
30	0	0	0	0		14	7	1.4	1.1	0.2	.5	.7
31			0	0		13		1.1		0.2	.5	.7
	0*	.2*	3.5*	3.6*	24.1*	1666*	288*	119.4*	27.3*	7.3*	22.5*	12.3*
Mean	0	0.01	0.11	0.12	0.82	53.7	9.60	3.85	0.91	0.24	0.73	0.40
Acre-Feet	0	.4	7	7	490	3,300	571	237	54	15	45	24

Year Mean 6.56
Acre-Feet 4,760

1.6
9.5

RISING WATER AT WHITTIER NARROWS

This is a computed discharge determined weekly, except when there is bank runoff 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, Cate ditch below sluice gate.

D = the measured, or estimated, discharge from the Cate 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.

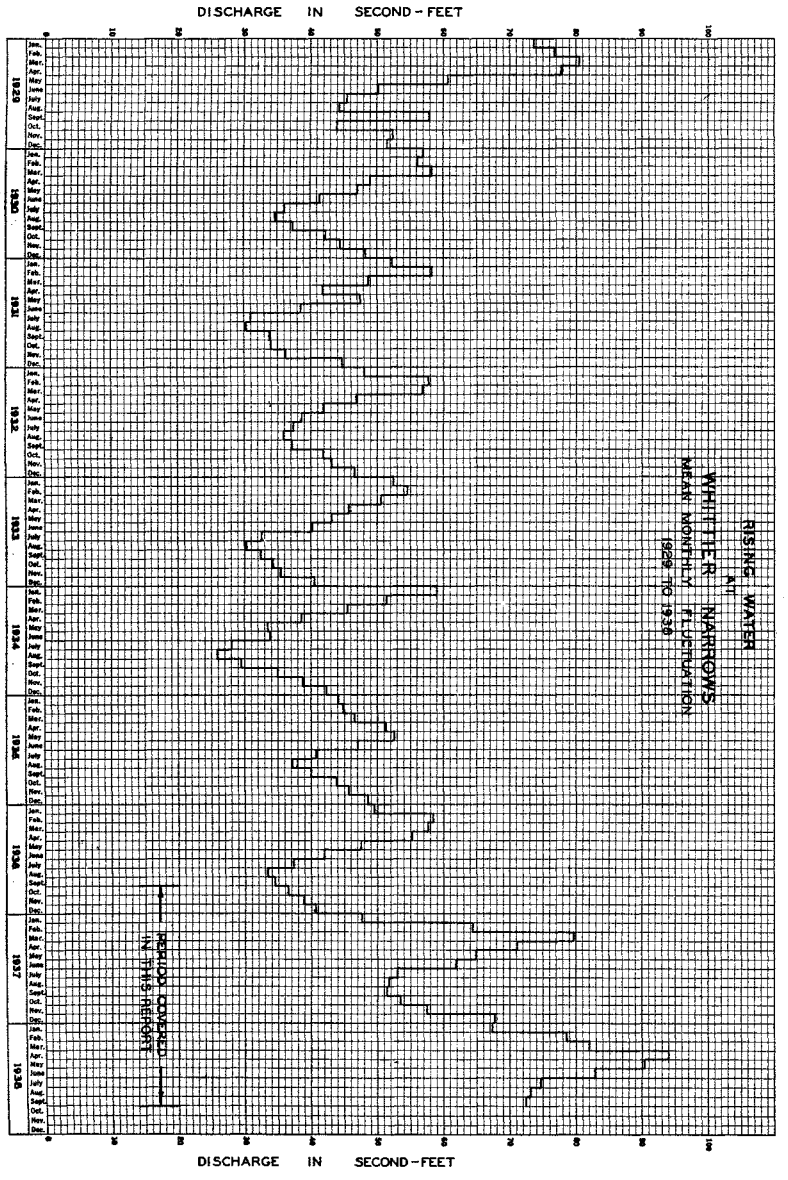
H = the measured discharge of San Gabriel River at Durfee Road Crossing.

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 runoff, straight line variation in flow between measurements has been assumed. Included herewith is the graph showing the mean monthly rising water since January, 1929.

KEUFFEL & ESSER CO., N. Y. NO. 350-3001.
Ten Years by Months.



F. C. Dist. Form 53 150 5-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. ——

Daily discharge, in second-feet of RISING WATER AT WHITTIER NARROWS, for the year ending September 30, 19 37

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	37						86			59		
2									63			53
3			36									
4					52	81						
5		41									52	
6								64				
7	33						77			57		
8									65			52
9			37									
10					62	75						
11		39						69			52	
12							68					
13	37									51		
14												49
15			44						63			
16		39						64			51	
17				49								
18	36		43				65			51		
19									58			51
20		37										
21								63			52	
22	40			49			65			49		54
23												
24												
25												
26												
27												
28												
29												
30												
31												
	1130	1166	1262	1478	1803	2471	2133	2013	1857	1643	1603	1542
Mean	36.5	38.9	40.7	47.7	64.4	79.7	71.1	64.9	61.9	53.0	51.7	51.4
Acre-Feet	2240	2310	2500	2930	3580	4900	4230	3990	3680	3260	3180	3060

Remarks: Weekly determinations - Storm periods omitted

Year or Period: Mean 55.1; Acre-Feet 39860

F. C. Dist. Form 53 150 5-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPT.

Sta. No. ——

Daily discharge, in second-feet of RISING WATER AT WHITTIER NARROWS, for the year ending September 30, 19 38

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2			56						86			71
3												
4		59									74	
5								100				
6				67								
7	54									78		
8									83			77
9		57	60		80							
10												
11											71	
12				65				83				
13	53									77		
14												74
15			67						82			
16		58			87						73	
17								89				
18				69						70		
19	52											
20		57	83		74				83			67
21											76	
22								89		71		
23	54			66			99					
24									80			73
25			70									
26												
27												
28												
29												
30												
31												
	1657	1724	2103	2085	2200	2541	2819	2798	2486	2316	2268	2173
Mean	53.5	57.5	67.8	67.3	78.6	82.0	94.0	90.3	82.9	74.7	73.2	72.4
Acre-Feet	3290	3420	4170	4140	4360	5040	5590	5550	4930	4590	4500	4310

Remarks: Weekly determinations - Storm periods omitted

Year or Period: Mean 74.4; Acre-Feet 53890

MEASUREMENTS TAKEN AT STAFF GAGE STATIONS

F. C. D. FORM 104 1M 9-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 116 S

DISCHARGE MEASUREMENTS OF ARROYO DITCH

~~XXX~~ below headgate DURING THE YEAR ENDING SEPTEMBER 30, 1937 1938

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	10/1	Brewster	5.0	2.46	1.15	0.89	2.8		.6	5	0	1205P 1211P	FC 8
2	10/8	"	4.0	2.46	1.25	0.89	3.1		.6	4	0	1140A 1146A	"
3	10/15	"	5.0	2.86	1.00	0.91	2.9		.6	5	0	1115A 1121A	"
4	10/22	"	4.0	2.93	1.30	0.92	3.8		.6	4	0	1120A 1126A	"
5	10/29	"	4.0	2.75	1.23	0.90	3.4		.6	4	0	1145A 1152A	"
6	11/5	"	5.0	2.51	1.16	0.89	2.9		.6	5	0	1140A 1146A	"
7	11/12	"	5.0	3.09	1.46	0.92	4.5		.6	5	0	1131A 1138A	"
8	11/19	"	6.0	3.43	1.45	0.94	5.0		.6	6	0	1127A 1135A	"
9	11/25	"	6.0	3.84	1.91	1.10	7.3		.6	6	0	1155A 1202P	"
10	12/3	"	6.0	3.73	1.77	1.09	6.6		.6	6	0	1128A 1135A	"
11	12/10	"	6.0	4.65	1.90	1.16	8.8		.6	6	0	1150A 1158A	"
12	12/17	"					0					1131A	
13	12/23	"					0					1148A	
14	1/7	"					0					1225P	
15	1/14	"					0					1205P	
16	1/21	"					0					1155A	
17	1/28	"					0					1120A	
18	2/4	"					0					1230P	
19	2/11	"					0					1245P	
20	2/18	"					0					1205P	
21	2/25	"					0					1205P	
22	3/4	"					0					1230P	
23	3/11	"					0					1230P	
24	3/18	"					0					1130A	
25	3/25						0					1240P	
26	4/1						0					100P	
27	4/8						0					1230P	
28	4/14	Brewster					0					230P	
29	4/22	"	7.0	5.57	1.25	-	7.0		.6	4	-	130P 140P	FC 8
30	4/29	"	7.0	6.47	1.55	-	10.		.6	4	-	1255P 105P	"
31	5/6	"	7.0	11.60	1.39	-	16.		.6	4	-	110P 118P	"
32	5/13	"	7.0	10.99	1.91	-	21.		.6	4	-	135P 142P	"
33	5/20	"	7.0	11.19	1.95	-	22.		.6	4	-	1230P 1237P	"
34	5/27	"	7.2	8.42	1.86	-	16.		.6	4	-	1240P 1247P	"
35	6/3	"	7.0	7.26	2.29	1.06	17.		.6	4	0	1230P 1238P	"
36	6/10	"	7.5	7.64	1.92	1.04	15.		.6	4	0	1210P 1218P	"
37	6/17	"	7.5	7.51	1.86	1.03	14.		.6	4	0	1212P 1219P	"
38	6/24	"	7.5	6.49	1.61	0.91	10.		.6	4	0	1230P 1237P	"
39	7/1	"	7.5	6.15	1.66	0.88	10.		.6	4	0	1125A 1132A	"
40	7/8	"	7.5	5.30	1.33	0.78	7.1		.6	4	0	1145A 1152A	"
41	7/15	"	7.5	5.68	1.51	0.78	8.6		.6	4	0	1136A 1144A	"
42	7/22	"	7.5	5.26	1.41	0.79	7.4		.6	4	0	1140A 1148A	"
43	7/29	"	7.5	5.34	1.44	0.73	7.7		.6	4	0	1110A 1118A	"
44	8/5	"	7.5	6.00	1.34	0.84	8.0		.6	4	0	1100A 1108A	"
45	8/12	"	7.5	5.39	1.32	0.73	7.1		.6	4	0	1135A 1144A	"
46	8/19	Lindsay	7.6	6.40	1.16	0.71	6.3		.6	6	0	1136A 1145A	FC 28
47	8/26	"	7.5	4.99	1.12	0.77	5.6		.6	5	0	1125A 1135A	"
48	9/2	Brewster	7.5	4.55	1.30	0.68	5.9		.6	4	0	1211P 1216P	FC 8
49	9/8	Brewster	7.5	4.57	1.24	0.63	5.7		.6	4	0	1140A 1146A	FC 8
50	9/16	"	7.5	4.01	1.14	0.56	4.6		.6	4	0	1140A 1146A	"
51	9/23	"	7.5	3.85	0.98	0.51	3.8		.6	4	0	1143A 1150A	"
52	9/30	"	7.5	5.36	1.40	0.71	7.5		.6	4	0	1145A 1155A	"
					1937-38								
53	10/7	"	7.5	5.55	1.37	0.76	7.6		.6	4	0	1145A 1152A	"
54	10/14	"	7.5	5.06	1.20	0.70	6.1		.6	4	0	1146A 1154A	"
55	10/21	"	7.5	5.37	1.28	0.76	6.9		.6	4	0	1148A 1156A	"
56	10/28	"	7.5	5.91	1.42	0.82	8.4		.6	4	0	1203P 1210P	"
57	11/4	"	7.5	6.05	1.50	0.84	9.1		.6	4	0	1205P 1215P	"
58	11/10	"	7.5	6.31	1.68	0.86	11.		.6	4	0	1215P 1223P	"
59	11/18	"	7.5	6.45	1.69	0.88	11.		.6	4	0	1218P 1227P	"
60	11/24	"	7.5	6.77	1.88	0.91	13.		.6	4	0	1210P 1218P	"
61	12/2	"	7.5	7.23	1.62	0.97	12.		.6	4	0	1210P 1217P	"
62	12/9	"	7.5	7.09	1.77	0.97	13.		.6	4	0	1140A 1148A	"
63	12/16	"					0					1155A	
64	12/23	"					0					1105A	
65	12/30	"					0					1150A	
66	1/6	"					0					1150A	
67	1/13	"					0					1150A	
68	1/20	"					0					1215P	
69	1/27	"					0					1220P	
70	2/3	"					0					1015A	
71	2/10	"					0					1250P	
72	2/17	"					0					1230P	
73	2/24	Brewster					0					1203P	
74	4/28	"					0					1225P	
75	5/5	"	7.5	5.43	1.76	0.76	9.5		.6	4	0	1245P 1252P	FC 8
76	5/12	"	7.5	6.03	1.88	0.82	11.		.6	4	0	1235P 1242P	"
77	5/19	"	7.5	7.70	2.61	1.06	20.		.6	4	0	1155A 1202P	"
78	5/26	"	7.5	17.16	1.49	2.29	26.		.6	4	0	1205P 1215P	"
79	6/2	"	7.5	16.43	1.57	2.29	26.		.6	4	0	1230P 1238P	"
80	6/9	"	7.5	15.70	1.53	2.06	24.		.6	4	0	1240P 1247P	"
81	6/16	"	7.5	10.48	1.94	1.42	20.		.6	4	0	1225P 1235P	"
82	6/23	"	7.5	16.43	1.36	2.25	22.		.6	4	0	1156A 1205P	"
83	6/30	"	7.5	7.99	2.65	1.16	21.		.6	4	0	1148A 1158A	"
84	7/7	"	7.5	16.06	1.36	2.17	22.		.6	4	0	1210P 1218P	"
85	7/13	Lindsay	7.5	6.12	1.61	0.82	9.8		.6	6	0	1221P 1229P	FC 28
86	7/14	Brewster	7.5	8.89	1.47	1.26	13.		.6	4	0	1155A 1203P	FC 8
87	7/15	Lindsay	7.2	9.51	1.53	1.34	15.		.6	6	0	905A 915A	FC 28
88	7/20	Brewster	7.5	8.64	1.33	1.16	12.		.6	4	0	1206P 1216P	FC 8
89	7/22	Lindsay	7.1	14.72	1.19	2.10	18.		.6	6	0	1045A 1053A	FC 28
90	7/25	"	7.2	11.64	1.58	1.64	18.		.6	6	0	1145A 1155A	"
91	7/27	"	7.2	10.67	1.73	1.50	18.		.6	6	0	1043A 1053A	"
92	7/28	Brewster	7.5	14.03	1.54	1.88	22.		.6	4	0	1150A 1158A	FC 8
93	7/29	Lindsay	7.2	16.52	1.29	2.04	21.		.6	6	0	1140A 1150A	FC 28
94	8/1	"	7.2	15.71	1.15	2.23	18.		.6	6	0	1110A 1120A	"
95	8/3	"	7.2	10.05	1.83	1.40	18.		.6	6	0	1055A 1103A	"
96	8/4	Brewster	7.5	3.26	0.93	0.47	2.7		.6	4	0	1146A 1153A	FC 8
97	8/5	Lindsay	7.2	10.76	1.86	1.52	20.		.6	6	0	1125A 1136A	FC 28
98	8/8	"	7.2	10.20	1.75	1.42	18.		.6	6	-	135P 145P	"
99	8/11	Brewster	7.5	10.63	1.79	1.49	19.		.6	4	0	1148A 1156A	FC 8
100	8/12	Lindsay	7.2	10.03	1.68	1.40	17.		.6	6	0	1125A 1135A	FC 28

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
101	8/15	"	7.2	9.69	1.84	1.36	18.		.6	6	0	1055A 1105A	"
102	8/18	Brewster	7.5	10.87	1.93	1.47	21.		.6	4	0	1220P 1227P	FC 8
103	8/19	Lindsay	7.2	9.52	1.70	1.34	16.		.6	6	0	1225P 1235P	FC 28
104	8/22	"	7.2	7.78	1.48	1.09	12.		.6	6	0	1035P 1045P	"
105	8/25	Brewster	7.5	10.07	1.71	1.35	17.		.6	4	0	1203P 1211P	FC 8
106	8/31	"	7.5	7.87	2.57	1.05	20.		.6	4	0	515P 522P	"
107	9/1	"	7.5	7.96	2.41	1.05	19.		.6	4	0	1250P 100P	"
108	9/8	"	7.5	7.88	2.11	1.05	17.		.6	4	0	1158A 1208P	"
109	9/22	Lindsay	7.2	11.30	1.63	1.58	18.		.6	6	0	1100A 1108A	FC 28
110	9/29	Brewster	7.5	13.58	1.32	1.80	18.		.6	4	0	1115A 1123A	FC 8

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 166 S

DISCHARGE MEASUREMENTS OF BALLONA CREEK

AT Jacob St., Culver City DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/1	Prickett	7.0	3.38	1.13	-	3.8		.6	5	-	835A 845A	FC 22
2	10/8	"	9.0	3.62	1.16	-	4.2		.6	5	-	845A 855A	"
3	10/15	"	10.5	5.41	1.15	-	6.2		.6	6	-	830A 840A	"
4	10/22	"	7.0	4.32	1.24	-	5.4		.6	4	-	855A 905A	"
5	10/29	"	9.5	4.38	1.07	-	5.2		.6	5	-	840A 850A	"
6	11/5	"	10.5	6.17	1.31	-	8.1		.6	5	-	1150A 1200N	"
7	11/12	"	8.5	5.19	1.26	-	6.5		.6	4	-	210P 220P	"
8	11/19	"	8.5	3.62	1.26	-	4.6		.6	4	-	1210P 1220P	"
9	11/27	"	9.5	5.90	1.19	-	7.0		.6	5	-	1015A 1025A	"
10	12/3	"	9.0	4.16	1.18	-	4.9		.6	5	-	905A 915A	"
11	12/10	"	8.0	4.06	1.12	-	4.6		.6	5	-	825A 835A	"
12	12/17	Prickett-Hunt	6.5	6.86	1.39	-	9.5		.6	6	-	1230P 1240P	"
13	12/23	Prickett	6.5	5.33	1.35	-	7.2		.6	5	-	930A 940A	"
14	3/11	"	12.0	7.94	1.29	-	10.		.6	5	-	910A 920A	"
15	3/18	"	14.0	9.04	1.22	-	11.		.6	6	-	800A 810A	"
16	4/15	"	10.0	4.32	1.20	-	5.2		.6	4	-	755A 805A	FC 22
17	5/20	"	10.0	6.12	1.08	-	6.6		.6	5	-	805A 815A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 87 S

DISCHARGE MEASUREMENTS OF BANTA DITCH

AT head of pipe line DURING THE YEAR ENDING SEPTEMBER 30, 19 37 1938

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	10/1	Brewster	4.5	3.29	2.14	0.73	7.0		.6	4	0	125P 131P	FC 8
2	10/8	"	4.5	3.83	1.95	0.86	7.5		.6	4	0	116P 122P	"
3	10/15	"	4.5	4.10	2.12	0.92	8.7		.6	4	0	130P 136P	"
4	10/22	"	4.5	0.77	1.31	0.17	1.0		.6	4	0	134P 140P	"
5	10/29	"	4.5	3.47	2.76	0.77	9.6		.6	4	0	140P 146P	"
6	11/5	"	4.5	2.75	3.01	0.61	8.3		.6	4	0	130P 136P	"
7	11/12	"	4.5	3.20	2.92	0.69	9.3		.6	4	0	110P 116P	"
8	11/19	"	4.5	7.79	1.10	1.71	8.6		.6	4	0	110P 116P	"
9	11/25	"	4.5	3.38	2.73	0.75	9.2		.6	4	0	120P 126P	"
10	12/3	"	4.5	3.65	2.64	0.81	9.6		.6	4	0	125P 131P	"
11	12/10	"	4.5	3.74	2.86	0.81	11.		.6	4	0	120P 126P	"
12	12/17	"	4.5	2.93	3.17	0.63	9.3		.6	4	0	1244P 1250P	"
13	12/23	"	4.5	2.75	3.23	0.61	8.9		.6	4	0	132P 138P	"
14	1/7	"					0					155P	
15	1/14	"					0					130P	
16	1/21	"					0					1240P	
17	1/28	"					0					1240P	
18	2/4	"					0					130P	
19	2/11	"					0					140P	
20	2/18	"					0					1230P	
21	2/25	"					0					1240P	
22	3/4	"					0					100P	
23	3/11	"					0					115P	

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
24	3/18	Brewster					0					1230P	
25	3/25	"					0					130P	
26	4/1	"					0					130P	
27	4/8	"					0					100P	
28	4/14	"					0					300P	
29	4/29	"	4.5	1.47	3.13	0.34	4.6		.6	4	0	145P 152P	FC 8
30	5/6	"	4.5	4.35	3.64	0.97	16.		.6	4	0	200P 208P	"
31	5/13	"	4.5	2.84	2.65	0.63	7.5		.6	4	0	205P 212P	"
32	5/20	"	4.5	4.57	3.70	1.01	17.		.6	4	0	135P 142P	"
33	5/27	"	4.5	4.46	2.94	1.00	13.		.6	4	0	136P 142P	"
34	6/3	"	4.5	4.64	3.03	1.03	14.		.6	4	0	120P 126P	"
35	6/10	"	4.5	4.64	3.78	1.03	17.		.6	4	0	100P 106P	"
36	6/17	"	4.5	4.64	3.80	1.04	18.		.6	4	0	1250P 1257P	"
37	6/24	"	4.5	7.88	2.23	1.75	18.		.6	4	0	130P 137P	"
38	7/1	"	4.5	5.81	2.76	1.29	16.		.6	4	0	1220P 1227P	"
39	7/8	"	4.5	5.09	3.27	1.13	17.		.6	4	0	1252P 1259P	"
40	7/15	"	4.5	5.90	2.41	1.31	14.		.6	4	0	1240P 1247P	"
41	7/22	"	4.5	4.10	3.17	0.91	13.		.6	4	0	1230P 1237P	"
42	7/29	"	4.5	5.99	2.13	1.33	13.		.6	4	0	1148A 1156A	"
43	8/5	"	4.5	4.91	3.05	1.09	15.		.6	4	0	1210P 1218P	"
44	8/12	"	12.0	13.74	1.06	1.10	14.		.6	6	0	1210P 1275P	"
45	8/19	Lindsay	8.4	10.14	1.19	0.99	12.		.6	6	0	1158A 1205P	FC 28
46	8/26	"	9.2	9.83	1.26	0.96	12.		.6	6	0	1145A 1155A	"
47	9/2	Brewster	9.0	10.47	1.31	1.08	14.		.6	5	0	100P 110P	FC 8
48	9/8	Brewster	10.0	12.66	1.20	1.12	15.		.6	5	0	1235P 1243P	FC 8
49	9/16	"					0					1228P	
50	9/23	"	9.0	10.16	1.26	0.99	13.		.6	5	0	1240P 1250P	FC 8
51	9/30	"	9.0	10.80	1.27	1.01	14.		.6	5	0	1230P 1240P	"
					1937-38								
52	10/7	Brewster	9.0	9.96	1.31	0.98	13.		.6	5	0	1220P 1230P	FC 8
53	10/14	"	9.0	9.81	1.28	0.96	13.		.6	5	0	1258P 106P	"
54	10/21	"	7.5	9.53	1.30	0.94	12.		.6	4	0	1240P 1252P	"
55	10/28	"	9.0	10.10	1.23	0.96	12.		.6	5	0	1248P 1257P	"
56	11/4	"	8.0	10.18	1.31	1.02	13.		.6	4	0	100P 108P	"
57	11/10	"	10.0	14.40	1.00	1.40	14.		.6	5	0	140P 150P	"
58	11/18	"	9.0	12.04	1.49	1.18	18.		.6	5	0	110P 119P	"
59	11/24	"	9.0	13.42	1.49	1.22	20.		.6	5	0	100P 110P	"
60	12/2	"	9.0	12.27	1.43	1.12	18.		.6	5	0	120P 128P	"
61	12/9	"	9.0	10.85	1.31	1.02	14.		.6	5	0	1230P 1238P	"
62	12/16	"	9.0	12.21	1.47	1.12	18.		.6	5	0	105P 112P	"
63	12/23	"					0					1100A	"
64	12/30	"					0					1230P	"
65	1/6	"					0					1220P	
66	1/13	"					0					1220P	
67	1/20	"					0					1245P	
68	1/27	"					0					100P	
69	2/3	"					0					1030A	
70	2/10	"					0					100P	
71	2/17	Brewster					0					120P	
72	2/24	"					0					100P	
73	4/28	"					0					1240P	
74	5/5	"					0					110P	
75	5/12	"					0					110P	
76	5/19	"	10.0	13.00	1.17	1.02	15.		.6	5	0	1220P 1230P	FC 8
77	5/26	"	9.5	14.07	1.37	1.24	19.		.6	5	0	1230P 1240P	"
78	6/2	"	11.0	16.27	1.18	1.76	19.		.6	6	0	1250P 100P	"
79	6/9	"	16.0	24.38	1.00	2.14	24.		.6	6	0	100P 110P	"
80	6/16	"	15.0	21.90	0.98	1.82	22.		.6	5	0	1245P 1255P	"
81	6/23	"	13.0	22.48	0.99	0.98	22.		.6	7	0	1240P 1252P	"
82	6/30	"	8.0	8.52	2.61	1.30	22.		.6	5	0	1236P 1248P	"
83	7/7	"	12.0	14.36	1.15	1.13	17.		.6	6	0	1230P 1240P	"
84	7/14	"	9.0	10.71	1.39	1.02	15.		.6	5	0	1230P 1240P	"
85	7/20	"	9.0	12.02	1.47	1.46	18.		.6	5	0	100P 118P	"
86	7/28	"	9.0	12.57	1.42	1.42	18.		.6	5	0	1220P 1230P	"
87	8/4	"	10.0	11.00	1.46	1.02	16.		.6	5	0	1230P 1245P	"

F. C. D. FORM 104 1M 8-36

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 87 S

DISCHARGE MEASUREMENTS OF BANTA DITCH

AT head of pipe line DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
88	8/11	"	13.0	11.25	1.33	1.08	15.		.6	7	0	1220P 1232P	"
89	8/18	"	13.0	14.05	1.23	1.30	17.		.6	6	0	110P 122P	"
90	8/25	"	13.0	14.00	1.17	1.02	16.		.6	7	0	1224P 1236P	"
91	9/1	"	13.0	15.37	1.24	1.26	19.		.6	7	0	230P 240P	"
92	9/8	"	14.0	16.92	1.09	0.98	18.		.6	7	0	130P 140P	"
93	9/15	Lindsay	10.0	19.50	1.10	1.97	21.		.6	6	0	1226P 1236P	FC 28
94	9/22	"	11.0	14.62	1.45	1.30	21.		.6	7	0	1180A 1150A	"
95	9/29	Brewster	14.0	15.62	1.14	1.32	18.		.6	7	0	1240A 1252A	FC 8

F. C. D. FORM 104 1M 8-36

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 143 S

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK

300 ft. above Pallette Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	10/3	Luce	5.5	2.87	0.85	-	2.4		.6	5	-	135P 145P	FC 13
2	12/28	Luce-Paul	17.5	10.42	1.87	-	19.		.6	11	-	210P 215P	"
3	1/29	Luce	12.5	5.12	1.50	-	7.7		.6	11	-	415P 425P	"
4	4/8	Luce-Paul	18.0	18.70	3.16	-	59.		.6	10	-	500P 509P	"
5	5/28	Luce	20.5	18.50	3.12	-	58.		.6	12	-	320P 330P	"
6	6/25	"	17.5	12.51	2.11	-	26.		.6	11	-	420P 430P	"
7	7/17	"	15.7	9.98	1.29	-	13.		.6	9	-	420P 430P	"
8	8/14	"	13.5	8.95	0.93	-	8.3		.6	11	-	1050A 1105A	"
9	9/17	"	14.0	9.76	0.69	-	6.8		.6	8	-	535P 547P	FC 39
					1937-38								
10	10/1	Luce	16.0	10.78	0.58	2.34	6.2		.6	8	-	435P 445P	FC 39
11	10/21	Luce-Wood	12.5	9.39	0.84	2.38	7.8		.6	8	+.01	1150A 1200N	"
12	11/11	Luce	12.8	9.89	0.80	2.40	7.9		.6	8	0	400P 415P	"
13	12/17	"	14.5	11.53	0.93	2.50	11.		.6	9	0	440P 505P	"
14	1/22	"	17.5	8.01	1.48	2.40	12.		.6	12	0	430P 445P	"
15	1/22	"	17.5	8.09	1.53	2.40	12.		.6	11	0	445P 500P	"
16	2/1	Luce-Skelly	17.5	12.27	1.79	2.32	22.		.6	10	+.01	420P 430P	"
17	2/1	" "	17.5	12.81	2.07	2.35	26.		.6	11	0	430P 440P	"
18	2/26	Luce-Luce	16.5	10.76	1.66	1.96	18.		.6	12	0	1120A 1135A	"
19	2/26	" "	16.7	10.46	1.81	1.96	19.		.6	11	0	1135A 1150A	"
20	7/15	Luce	15.5	11.06	2.18	-	24.		.6	9	-	730A 745A	"
21	8/12	"	15.5	8.37	1.97	-	17.		.6	7	-	330P 345P	"
22	9/23	"	12.0	5.42	1.64	-	8.9		.6	8	-	230P 245P	"

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 183 S

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK

Palmdale-Victorville Road DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT CHANGE TOTAL	BEGIN END	METER NO.
1	4/8	Luce-Paul	Two Channels			1.77	49.		.6	17	0	550P 604P	FC 13
2	5/28	Luce	20.9	15.31	2.94	-	45.		.6	11	-	500P 510P	"
3	6/25	"	7.5	0.44	0.96	-	4.2		.6	8	-	605P 615P	"
4	7/17	"	4.0	0.65	0.51	-	0.33		.6	5	-	500P 505P	"
					1937-38								
5	12/17	Luce	8.5	3.68	1.53	-	5.2		.6	7	-	545P 600P	FC 39
6	1/22	"	9.9	4.55	1.16	-	5.3		.6	7	-	545P 555P	"
7	2/1	Luce-Skelly	12.6	6.95	1.52	2.57	11.		.6	9	0	500P 510P	"
8	2/1	" "	12.5	6.73	1.55	2.57	10.		.6	8	0	510P 520P	"
9	2/26	Luce-Luce	8.5	3.09	1.44	0.47	4.4		.6	8	0	1220P 1230P	"

F. C. D. FORM 104 1M 8-36

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 84 S

DISCHARGE MEASUREMENTS OF CATE DITCH

below sluice gate DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	10/1	Brewster	5.0	5.05	0.69	1.54	3.5		.6	5	0	1035A 1042A	FC 8
2	10/8	"	5.0	4.90	0.65	1.50	3.2		.6	5	0	1020A 1026A	"
3	10/15	"	3.0	0.66	0.67	0.78	0.44		.6	3	0	1000A 1005A	"
4	10/22	"	3.0	1.46	0.39	0.96	0.55		.6	3	0	1000A 1005A	"
5	10/29	"	5.0	5.15	0.65	1.56	3.3		.6	5	0	1030A 1037A	"
6	11/5	"	3.0	1.29	0.40	0.78	0.50		.6	3	0	1030A 1035A	"
7	11/12	"	3.0	1.62	0.56	0.99	0.90		.6	3	0	1025A 1030A	"
8	11/19	"	5.0	5.39	0.65	1.61	3.5		.6	5	0	1029A 1030A	"
9	11/26	"	5.0	5.71	0.57	1.63	3.3		.6	5	0	1038A 1045A	"
10	12/3	"	4.0	4.93	0.64	1.71	3.2		.6	4	0	1025A 1031A	"
11	12/10	"	6.0	9.69	0.80	2.18	7.8		.6	6	0	1019A 1030A	"
12	12/17	"	1.0	0.15	0.87	0.68	0.13		.6	2	0	1024A 1027A	"
13	12/23	"	1.0	0.13	0.54	0.66	0.07		.6	2	0	1040A 1043A	"
14	1/7	"	1.0	0.13	0.54	0.81	0.07		.6	2	0	1110A 1113A	"
15	1/14	"	0.5	0.09	0.78	0.80	0.07		.6	1	0	1050A 1052A	"
16	1/21	"	0.5	0.07	0.86	0.80	0.06		.6	1	0	1107A 1109A	"
17	1/28	"	0.5	0.08	0.75	0.81	0.06		.6	1	0	1027A 1029A	"
18	2/4	"	0.5	0.06	1.17	0.80	0.07		.6	1	0	1040A 1042A	"
19	2/11	"	0.5	0.07	1.00	0.81	0.07		.6	1	0	1110A 1112A	"
20	2/18	"	0.5	0.08	1.00	0.82	0.08		.6	1	0	1110A 1112A	"
21	2/25	"	0.5	0.06	1.00	0.82	0.06		.6	1	0	1025A 1027A	"
22	3/4	"					0						1055A
23	3/11	"					0						1058A
24	3/18	Brewster					0						1000A
25	3/25	"					0						1115A
26	4/1	"					0						1050A
27	4/8	"					0						1040A
28	4/14	"	3.0	1.32	1.00	1.10	1.3		.6	3	0	1250P 1256P	FC 6
29	4/22	"	3.0	1.35	0.93	1.10	1.3		.6	3	0	1135A 1141A	"
30	4/29	"	7.0	7.31	1.20	2.02	8.8		.6	4	0	1115A 1125A	"
31	5/6	"	8.0	8.52	1.05	1.96	8.9		.6	5	0	1130A 1140A	"
32	5/13	"	7.0	11.50	1.33	2.72	15.		.6	4	0	1145A 1155A	"
33	5/20	"	7.0	7.48	1.24	2.11	9.3		.6	4	0	1157A 1205A	"
34	5/27	"	7.0	7.16	0.98	1.85	7.0		.6	4	0	1037A 1044A	"
35	6/3	"	6.0	5.76	0.90	1.78	5.2		.6	4	0	1110A 1117A	"
36	6/10	"	7.0	6.65	0.86	1.79	5.7		.6	4	0	1045A 1053A	"
37	6/17	"	7.0	5.48	0.92	1.67	5.0		.6	5	0	1050A 1058A	"
38	6/24	"	7.0	3.30	0.84	1.32	2.8		.6	4	0	1057A 1104A	"
39	7/1	"	8.0	5.18	0.89	1.60	4.6		.6	4	0	1027A 1034A	"
40	7/8	"	7.0	5.91	0.77	1.71	4.5		.6	4	0	1030A 1038A	"
41	7/15	"	7.0	6.41	0.74	1.80	4.8		.6	4	0	1032A 1040A	"
42	7/22	"	7.0	5.18	0.80	1.66	4.1		.6	4	0	1030A 1038A	"
43	7/29	"	7.0	9.45	0.76	2.22	7.2		.6	5	0	1000A 1010A	"
44	8/5	"	6.5	8.45	0.81	2.18	6.8		.6	4	0	1000A 1008A	"
45	8/12	"	6.5	4.78	0.83	1.68	4.0		.6	4	0	1025A 1034A	"
46	8/19	Lindsay	7.1	4.56	0.82	1.63	3.7		.6	7	0	1030A 1040A	FC 28
47	8/26	"	7.6	5.80	0.76	1.76	4.5		.6	6	0	1025A 1033A	"
48	9/2	Brewster	6.0	4.13	0.99	1.68	4.1		.6	4	0	1057A 1104A	FC 8
49	9/8	"	6.0	3.69	0.99	1.60	3.7		.6	4	0	1030A 1037A	"
50	9/16	"	6.0	4.08	0.87	1.54	3.5		.6	4	0	1038A 1047A	"
51	9/23	"	6.0	4.40	0.79	1.60	3.5		.6	4	0	1044A 1042A	"
52	9/30	"	6.0	5.38	0.83	1.76	4.4		.6	4	0	1030A 1039A	"
					1937-38								
53	10/7	Brewster	6.5	5.53	0.85	1.72	4.7		.6	4	0	1032A 1041A	FC 8
54	10/14	"	6.5	5.53	0.86	1.78	4.8		.6	4	0	1047A 1054A	"
55	10/21	"	6.5	5.39	0.81	1.80	4.4		.6	4	0	1030A 1038A	"
56	10/28	"	6.5	6.05	0.80	1.90	4.9		.6	4	0	1035A 1042A	"

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												1050A	
57	11/4	"	6.0	3.46	0.80	1.50	2.8		.6	4	0	1058A	"
												1115A	
58	11/10	"	6.5	6.05	0.85	1.90	5.2		.6	4	0	1123A	"
												1100A	
59	11/18	"	0.5	0.12	0.25	1.02	0.03		.6	1	0	1102A	"
												1055A	
60	11/24	"	6.5	3.53	0.78	1.60	2.7		.6	4	0	1103A	"
												1100A	
61	12/2	"	6.0	2.47	0.66	1.34	1.6		.6	4	0	1106A	"
												1030A	
62	12/9	"	8.0	7.70	0.74	2.08	5.7		.6	5	0	1038A	"
												1040A	
63	12/16	"	0.5	0.12	0.25	0.98	0.03		.6	1	0	1042A	"
												1048A	
64	12/23	"	0.5	0.16	0.25	0.92	0.04		.6	1	0	1050A	"
												1050A	
65	12/30	"	0.5	0.11	0.27	0.91	0.03		.6	1	0	1052A	"
												1040A	
66	1/6	"	0.5	0.13	0.31	0.93	0.04		.6	1	0	1043A	"
												1050A	
67	1/13	"	1.0	0.12	0.33	0.94	0.04		.6	2	0	1052A	"
68	1/20	"					0					1120A	
69	1/27	"					0					1030A	
70	2/3	"					0					950A	
71	2/10	Brewster					0					1140A	
72	2/17	"					0					1117A	
73	2/24	"					0					1053A	
74	4/28	"					0					1055A	
												1105A	
75	5/5	"	8.0	5.58	1.13	1.74	6.3		.6	5	0	1115A	FC 8
												1055A	
76	5/12	"	8.0	7.95	1.18	2.15	9.4		.6	5	0	1102A	"
												1045A	
77	5/19	"	8.0	9.52	1.19	2.36	11.		.6	5	0	1052A	"
												1100A	
78	5/26	"	9.0	12.94	1.23	2.80	16.		.6	6	0	1110A	"
												1100A	
79	6/2	"	9.0	12.38	1.21	2.68	15.		.6	6	0	1110A	"
												1105A	
80	6/9	"	8.0	5.79	1.03	1.86	5.9		.6	5	0	1115A	"
												1110A	
81	6/16	"	8.0	10.15	0.93	2.38	9.4		.6	5	0	1120A	"
												1055A	
82	6/23	"	8.0	8.70	1.28	2.38	11.		.6	5	0	1105A	"
												1100A	
83	6/30	"	8.0	7.25	1.46	2.40	11.		.6	5	0	1110A	"
												1052A	
84	7/7	"	9.0	12.69	1.06	2.74	13.		.6	6	0	1105A	"
												1050A	
85	7/14	"	9.0	11.79	1.09	2.48	13.		.6	6	0	1100A	"
												1055A	
86	7/20	"	9.0	13.09	1.04	2.70	14.		.6	6	0	1105A	"
												1050A	
87	7/28	"	8.0	5.80	1.07	2.06	6.2		.6	5	0	1058A	"
												1040A	
88	8/4	"	8.0	7.86	1.22	2.38	9.6		.6	5	0	1048A	"
												1045A	
89	8/11	"	8.0	6.31	1.00	2.12	6.3		.6	5	0	1055A	"
												1113A	
90	8/18	"	9.0	6.38	1.16	2.20	7.4		.6	6	0	1121A	"
												1055A	
91	8/25	"	8.0	5.75	1.15	2.18	6.6		.6	5	0	1102A	"
												1145A	
92	9/1	"	9.0	4.83	1.20	2.14	5.8		-	6	0	1155A	"
												1100A	
93	9/8	"	9.0	4.50	1.09	2.10	4.9		.6	6	0	1106A	"
												1040A	
94	9/15	Lindsay	10.0	8.79	1.25	2.46	11.		.6	6	0	1048A	FC 28
												1000A	
95	9/22	Lindsay	10.0	6.22	1.20	2.30	7.5		.6	6		1009A	FC 28
												1000A	
96	9/29	Brewster	9.0	7.40	1.15	2.30	8.5		.6	6	0	1010A	FC 8

F. C. D. FORM 104 IM 8-38

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 37 1938

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
				1936-37									
1	11/13	Luce	1.0	0.05	0.28	-	0.01		.6	2	-	1230P 1235P	FC 13
2	12/23	"	1.4	0.08	0.63	-	0.05		.6	2	-	300P 302P	"
3	3/4	Luce - Paul	12.0	4.57	3.07	4.22	14.		.6	7	-	433P 440P	"
4	4/23	Luce	12.2	5.53	2.84	4.00	16.		.6	8	0	1130A 1140A	"
5	9/16	Luce	1.7	0.14	0.29	3.54	0.04		.6	3	0	800P 805P	FC 39
				1937-38									
6	12/30	Luce	8.0	1.93	1.62	3.86	3.1		.6	7	+.01	1125A 1135A	FC 39
7	1/12	"	7.1	1.46	1.19	3.77	1.7		.6	7	0	155P 200P	"
8	2/4	Luce - Skelly	22.5	20.66	4.53	4.92	94.		.6	8	0	415P 425P	"
9	2/4	" "	22.5	20.14	4.73	4.92	95.		.6	8	0	430P 445P	"
10	2/12	Luce - VanBuren	22.8	19.29	3.94	4.80	76.		.6	8	0	400P 410P	"
11	7/14	Luce	4.0	1.61	1.89	-	3.0		.6	5	-	240P 250P	"
12	8/11	"	3.5	0.59	0.92	-	0.55		.6	5	-	905A 910A	"

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 37

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												1053A	
1	10/1	Bollinger	12.5	11.04	1.39	1.00	15.		.6	8	0	1105A	FC 6
												228P	
2	10/8	"	14.5	12.48	1.38	1.00	17.		.6	8	0	238P	"
												1258P	
3	10/15	"	18.5	13.20	1.23	1.05	16.		.6	8	0	108P	"
												1108A	
4	10/22	"	14.5	10.27	1.49	1.06	15.		.6	9	0	1120A	"
												828A	
5	10/29	"	17.0	10.87	1.59	1.03	17.		.6	8	0	838A	"
												1055A	
6	11/5	"	17.3	9.87	1.63	1.12	16.		.6	9	0	1105A	"
												1024A	
7	11/12	"	16.5	9.79	1.67	1.08	16.		.6	8	0	1034A	"
												1120A	
8	11/19	"	22.0	13.85	1.32	1.10	18.		.6	8	0	1130A	"
												1027A	
9	11/25	"	20.0	16.17	1.50	1.29	24.		.6	9	0	1037A	"
												214P	
10	12/3	"	17.5	12.42	1.60	1.18	20.		.6	9	0	224P	"
												255P	
11	12/10	"	19.0	13.26	1.53	1.27	20.		.6	9	0	307P	"
												1045A	
12	12/23	"	27.0	14.75	1.55	1.20	23.		.6	10	0	1057A	"
												207P	
13	1/21	"	38.0	14.37	1.60	-	23.		.6	10	-	219P	"
												300P	
14	1/28	"	37.0	16.99	1.60	-	27.		.6	12	-	315P	"
												1006A	
15	2/5	"	31.0	16.24	1.54	-	27.		.6	15	-	1026A	"
												943A	
16	3/11	"	37.0	19.71	1.89	-	37.		.6	15	-	958A	"
												142P	
17	4/1	"	37.0	24.57	1.77	-	43.		.6	15	-	157P	"
												407P	
18	4/8	"	33.0	19.31	1.67	-	32.		.6	16	-	423P	"
												320P	
19	4/15	"	29.0	18.65	1.75	-	32.		.6	13	-	335P	"
												1038A	
20	4/22	"	34.0	17.55	1.50	-	26.		.6	14	-	1050A	"
												1001A	
21	4/29	"	32.5	18.06	1.34	-	24.		.6	13	-	1016A	"
												940A	
22	5/6	"	31.5	18.23	1.58	-	29.		.6	13	-	955A	"
												933A	
23	5/20	"	31.0	17.75	1.46	-	26.		.6	12	-	948A	"
												1015A	
24	6/3	"	29.0	15.96	1.54	-	24.		.6	12	-	1027A	"
												140P	
25	6/17	Bollinger	30.5	16.36	1.61	-	26.		.6	14	-	155P	FC 6
												210P	
26	7/6	"	32.5	16.48	1.37	-	23.		.6	12	-	222P	"
												245P	
27	7/15	"	35.0	17.66	1.32	-	23.		.6	13	-	300P	"
												940A	
28	7/29	"	33.0	18.17	1.22	-	22.		.6	12	-	952A	"
												220P	
29	8/12	Luce	11.0	10.43	1.91	-	20.		.6	12	-	240P	FC 13
												933A	
30	8/26	Bollinger	28.5	14.44	1.43	-	21.		.6	12	-	946A	FC 6
												1000A	
31	9/8	"	30.5	15.99	1.43	-	22.		.6	11	-	1010A	"
												950A	
32	9/23	"	12.3	13.42	1.94	-	27.		.6	8	+	1000A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 196 S

DISCHARGE MEASUREMENTS OF PACOIMA CREEK

at Maclay Ave. DURING THE YEAR ENDING SEPTEMBER 30, 19 37 1938

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	2/1	Luce - Paul	11.2	7.24	2.11	3.36	15.		.6	9	+.01	1130A 1136A	FC 13
2	2/17	Luce	40.5	35.19	3.89	4.43	137.		.6	11	0	453P 512P	"
3	2/25	Luce - Paul	41.0	30.51	3.18	4.02	97.		.6	13	0	213P 222P	"
4	3/3	Paul	24.7	21.92	3.79	3.92	83.		.6	10	0	1150A 1200N	"
5	3/19	Luce	41.5	31.00	3.11	4.03	96.		.6	12	0	1250P 100P	"
6	3/23	Luce - Paul	41.0	28.79	2.94	3.98	85.		.6	13	0	205P 216P	"
7	3/25	Paul	40.5	27.24	3.42	3.96	93.		.6	14	0	250P 310P	"
8	5/5	Luce	1.5	0.27	0.48	-	0.13		.6	3	0	425P 430P	"
9	8/26	"	12.0	10.59	6.01	3.0	6.4		.6	8	0	250P 300P	"
					1937-38								
10	11/12	Luce	8.5	5.46	1.76	3.01	9.6		.6	9	0	245P 255P	FC 39
11	11/24	"					0					1130A	
12	2/24	"	14.0	9.48	1.23	3.21	12.		.6	8	0	150P 200P	FC 39
13	2/24	"	14.0	9.56	1.24	3.21	12.		.6	8	0	200P 215P	"
14	6/8	"	11.0	8.19	1.46	-	12.		.6	6	-	755A 805A	"
15	7/7	"	6.6	4.56	1.06	-	4.8		.6	7	-	205P 210P	"
16	7/14	"	3.0	1.19	0.67	-	0.8		.6	5	-	1110A 1120A	"

F.C.D. FORM 104 1M 8-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 197 S

DISCHARGE MEASUREMENTS OF PACOIMA WASH

AT ~~MOUTH~~ Arleta St. headworks DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	2/7	Luce - Paul	14.1	6.84	2.46	8.92	17.		.6	10	0	330P 337P	FC 13
2	2/9	" "	15.0	11.48	3.51	9.04	40.		.6	9	0	825A 835A	"
3	2/17	Luce	16.5	14.56	4.43	9.02	64.		.6	9	0	900A 910A	"
4	2/17	"	16.0	7.27	2.00	-	15.		.6	9	0	1000A 1010A	"
5	2/17	"	25.4	21.43	5.00	9.22	107.		.6	10	0	600P 615P	"
6	2/25	Luce - Paul	23.5	16.80	4.22	-	71.		.6	10	-	250P 306P	"
7	2/26	Paul	21.0	15.55	3.79	-	59.		.6	12	-	1030A 1050A	"
8	3/1	"	18.0	15.54	3.35	-	52.		.6	13	-	925A 930A	"
9	3/19	Luce - Miller	21.0	19.81	3.54	-	70.		.6	11	-	250P 300P	"
10	3/23	Luce - Paul	21.0	19.50	3.26	-	64.		.6	10	-	250P 300P	"
11	3/25	Paul	20.5	18.28	3.92	-	72.		.6	11	-	325P 345P	"
12	3/30	"	25.5	20.09	3.74	-	75.		.6	14	-	1240P 1255P	"
13	3/31	"	23.5	19.97	3.55	-	71.		.6	12	-	920A 930A	"
14	3/31	"	23.5	20.17	3.90	-	79.		.6	8	-	300P 308P	"
15	4/1	Luce - Paul	28.5	21.25	3.41	-	73.		.6	13	-	1245P 1258P	"
					1937-38								
16	3/31	Luce					Est. 0.20					430P	
17	4/8	Luce - Skelly	18.3	18.26	2.58	1.25	47.		.6	12	0	905A 915A	FC 39
18	5/5	Luce	6.5	1.89	0.44	"	0.85		.6	5	-	1010A 1020A	"
19	6/16	"	5.0	3.56	1.16	-	4.1		.6	6	-	1200N 1210P	"
20	6/23	Luce - Miller	4.5	2.67	0.86	-	2.3		.6	5	-	430P 433P	"
21	6/30	Luce	3.4	1.02	2.09	-	2.1		.6	5	-	1210P 1215P	FC 13

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 121 S

DISCHARGE MEASUREMENTS OF PALLETTE CREEK

~~AT~~ 1 mi. above Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	10/3	Luce	3.8	0.67	0.89		0.6		.6	5		1100A 1105A	FC 13
2	5/28	"	6.6	2.56	1.65		4.2		.6	7		1020A 1030A	"
3	6/26	"	4.8	1.74	1.84		3.2		.6	6		245P 255P	FC 10
4	7/17	"	8.2	2.26	1.03		2.1		.6	10		1115A 1125A	FC 13
5	8/14	"	6.0	1.50	0.99		1.5		.6	6		940A 950A	"
6	9/17	"	5.8	1.38	0.94		1.3		.6	6		400P 410P	FC 39
					1937-38								
7	10/1	Luce	5.8	1.50	1.01		1.5		.6	6		330P 335P	FC 39
8	10/21	Luce - Wood	5.6	1.36	1.03		1.4		.6	6		1134A 1140A	"
9	11/11	Luce	5.8	1.53	0.88		1.4		.6	7		215P 220P	"
10	12/17	"	4.5	1.27	1.00		1.3		.6	9		515P 525P	"
11	1/22	"	3.2	0.86	1.22		1.0		.6	5		415P 420P	"
12	2/26	Luce - Luce	3.3	0.78	0.96		0.75		.6	5		915A 920A	"
13	2/26	" "	3.2	0.59	1.39		0.80		.6	6		920A 925A	"
14	4/30	" "	8.8	3.04	2.34		7.1		.6	10		410P 420P	"
15	7/15	Luce	5.0	1.77	1.58		2.8		.6	6		850A 900A	"
16	8/12	"	3.1	0.91	1.31		1.2		.6	5		350P 400P	"
17	9/23	"	4.5	1.13	1.64		1.8		.6	5		130P 135P	"

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 122 S

DISCHARGE MEASUREMENTS OF PALLETTE CREEK

AT ~~MOUTH~~ Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	12/28	Luce - Paul					Est. 0.01					215P	
2	1/28	Luce	2.0	0.13	0.85		0.11		.6	3		400P 405P	FC 13
3	4/8	Luce - Paul	5.6	1.14	1.14		1.3		.6	6		512P 516P	"
4	5/28	Luce	4.0	1.24	2.05		2.6		.6	5		230P 235P	"
5	6/25	"	5.0	1.50	1.37		2.0		.6	6		410P 415P	"
6	7/17	"	3.2	0.86	1.36		1.2		.6	5		435P 440P	"
7	8/14	"	3.0	0.82	1.07		0.90		.6	6		1110A 1115A	"
8	9/17	"	2.7	0.60	0.82		0.49		.6	5		435P 440P	FC 39
					1937-38								
9	10/1	Luce	3.4	0.95	1.24		1.2		.6	5		455P 500P	FC 39
10	11/11	"	3.2	0.53	1.04		0.55		.6	5		420P 425P	"
11	12/17	"	3.5	0.83	1.13		0.95		.6	5		440P 445P	"
12	1/22	"	4.0	0.68	0.81		0.55		.6	5		500P 505P	"
13	2/26	Luce - Luce	3.2	0.54	1.09		0.60		.6	5		940A 945A	"
14	4/30		5.5	2.44	2.69		6.6		.6	6		425P 430P	"
15	7/15	Luce	6.5	1.83	1.41		2.6		.6	6		805A 810A	"
16	9/23	"	4.4	1.00	1.27		1.3			5		200P 205P	"

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 238 S

DISCHARGE MEASUREMENTS OF RUSTIC CANYON STORM DRAIN

~~AT~~ 100 ft. above Channel Road DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	10/1	Prickett	1.5	0.20	0.70	-	0.14		surf.	3	-	355P 400P	FC 22
2	10/8	"	1.5	0.16	0.56	-	0.09	Float	3		-	130P 135P	
3	10/22	"	1.5	0.24	0.71	-	0.17		surf.	3		115P 120P	FC 22
4	11/5	"	1.5	0.20	0.70	-	0.14		surf.	3		505P 510P	"
5	11/19	"	1.3	0.14	0.64	-	0.09	Float	3			455P 500P	
6	12/3	"	1.5	0.17	0.59	-	0.10	Float	3			320P 325P	
7	12/17	Prickett - Hunt	2.5	0.52	0.60	-	0.31		surf.	4		305P 310P	FC 22
8	1/21	Prickett	2.5	0.81	1.57	-	1.3		.6	3		315P 320P	"
9	2/4	"	2.5	0.54	1.17	-	0.65		.6	3		250P 255P	"
10	2/18	"	4.5	1.87	1.87	-	3.5		.6	4		650P 700P	"
11	2/25	Prickett - Haig	6.0	2.29	2.84	-	6.5		.6	5		100P 105P	"
12	3/4	Haig - Prickett	4.0	1.55	1.38	-	2.2		.6	4		430P 435P	"
13	3/12	Prickett - Haig	6.0	2.00	1.48	-	3.0		.6	6		250P 255P	"
14	3/18	Prickett	6.5	2.74	1.70	-	4.7		.6	5		400P 408P	"
15	3/25	"	8.5	4.40	2.25	-	9.9		.6	4		305P 310P	"
16	4/1	"	4.0	1.36	1.52	-	2.1		.6	4		1100A 1105A	"
17	4/8	"	3.5	1.36	2.07	-	2.8		.6	3		1215P 1220P	"
18	5/20	"	3.5	1.50	1.48	-	2.2		.6	3		125P 130P	"
					1937-38								
19	10/14	Prickett	3.0	1.08	1.66	-	1.8		.6	3		515P 520P	FC 22
20	11/18	"	1.5	0.36	1.22	-	0.44		.6	3		230P 235P	"
21	12/2	"	2.0	0.65	1.28	-	0.80		.6	4		130P 135P	"
22	12/16	"	2.0	0.60	1.28	-	0.75		.6	4		510P 515P	"

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
23	12/30	Prickett	2.0	0.53	1.30	-	0.70		.6	4	-	415P 420P	FC 22
24	1/7	"	2.0	0.46	1.26	-	0.60		.6	4		1235P 1240P	"
25	1/13	"	2.5	0.39	1.00	-	0.40		.6	4		435P 440P	"
26	1/20	Prickett-Bailey	2.3	0.45	1.20	-	0.55		.6	4		220P 225P	"
27	1/28	Prickett	2.0	0.36	0.78	-	0.28		surf	4		130P 134P	FC 21
28	2/16	"	5.0	2.62	1.79	-	4.7		.6	3		300P 308P	FC 22
29	3/11	Prickett-Kilen	17.0	7.80	6.22	-	49.		.6	4		1030P 1038P	"
30	9/15	Haig - Moon					Est. 0.50					230P	

F. C. D. FORM 104 IR 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 91 S

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

~~at~~ above San Dimas Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	1/8	Brewster	9.0	3.10	2.79	1.79	8.7		.6	5	0	950A 1000A	FC 8
2	1/15	"	8.0	3.36	1.62	1.72	5.4		.6	4	0	945A 951A	"
3	1/22	"	8.0	2.64	1.24	1.65	3.3		.6	4	0	930A 936A	"
4	1/29	"	9.0	3.88	1.94	1.79	7.5		.6	5	0	755A 802A	"
5	2/5	"	11.0	3.06	2.54	1.80	7.8		.6	6	0	930A 938A	"
6	2/11	"	16.0	7.52	2.08	1.98	16.		.6	8	0	553P 605P	"
7	2/19	"	17.0	14.18	2.38	2.06	34.		.6	9	0	940A 955A	"
8	2/25	"	17.0	13.04	2.32	2.02	30.		.6	9	0	420P 432P	"
9	3/4	"	16.0	8.94	1.34	1.76	12.		.6	8	0	505P 517P	"
10	3/11	"	15.0	7.23	1.31	1.70	9.5		.6	6	0	540P 549P	"
11	3/18	"	16.0	13.44	2.96	2.06	40.		.6	8	0	450P 502P	"
12	3/25	"	16.0	14.54	2.80	2.00	41.		.6	8	0	505P 520P	"
13	4/1	"	14.0	11.14	2.20	1.86	24.		.6	7	0	520P 532P	"
14	4/8	"	14.0	9.66	1.82	1.74	18.		.6	7	0	445P 457P	"
15	4/15	"	14.0	8.82	1.58	1.69	14.		.6	7	0	220P 235P	"
16	4/23	"	14.0	8.62	1.29	1.67	11.		.6	7	0	905A 920A	"
17	4/29	"	14.0	8.18	1.19	1.65	9.7		.6	7	0	500P 512P	"
18	5/6	"	14.0	7.42	1.08	1.62	8.0		.6	7	0	520P 535P	"

F. C. D. FORM 104 IR 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 76 S

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

~~at~~ above Bear Cr. DURING THE YEAR ENDING SEPTEMBER 30, 19 37 1938

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	10/1	Reber-DeVore	2.7	0.61	0.57	1.16	0.35		.6	5	0	928A 933A	FC 32
2	10/8	Reber	3.0	0.71	0.62	1.15	0.44		.6	6	0	703A 707A	FC 33
3	10/15	"	3.0	0.76	0.55	1.14	0.42		.6	6	0	717A 724A	"
4	10/22	"	3.6	1.24	1.75	1.23	2.2		.6	6	0	1020A 1026A	"
5	10/29	"	3.7	1.00	1.16	1.20	1.2		.6	6	0	941A 948A	"
6	11/5	"	11.3	9.23	1.21	1.49	11.		.6	12	0	1013A 1034A	"
7	11/11	Reber-DeVore	4.6	1.65	1.96	1.29	3.2		.6	8	0	358P 408P	FC 11
8	11/19	Reber	4.5	1.32	0.99	1.25	1.3		.6	8	0	936A 951A	FC 33
9	11/25	"	4.8	1.65	1.22	1.26	2.0		.6	9	0	942A 954A	"
10	12/3	"	4.5	1.60	1.25	1.27	2.0		.6	9	0	1025A 1038A	"
11	12/10	"	6.3	2.55	1.95	1.33	5.0		.6	7	0	958A 1006A	"
12	12/13	"	26.5	12.32	0.96	1.52	12.		.6	11	0	918A 937A	"
13	12/16	Cooper-Reber	39.0	34.8	2.90	2.19	101.		.6	9	-.01	840A 850A	"
14	12/16	Reber-Naugle	44.0	36.95	2.28	2.18	84.		.6	10	0	1115A 1130A	"
15	12/17	Reber	45.0	31.33	2.91	2.22	91.		.6	9	0	1026A 1041A	"
16	12/28	"	44.5	45.64	2.78	2.35	127.		.6	10	-.01	955A 1013A	"
17	12/30	"	43.0	22.77	1.80	1.90	41.		.6	10	0	1016A 1035A	"
18	1/7	"	43.5	26.26	1.90	2.14	50.		.6	11	0	940A 957A	"
19	1/14	"	Two channels				2.00	38.	.6	19	0	953A 1000A	"
20	1/20	DeVore-Bartlett	27.7	15.36	1.86	1.93	29.		.6	15	0	211P 231P	FC 11
21	1/28	DeVore-Brown	17.2	13.49	2.08	1.92	28.		.6	14	0	213P 231P	FC 32
22	2/2	Brown	41.6	22.31	2.11	2.01	47.		.6	15	0	250P 320P	FC 11
23	2/4	Cooper-Brown	43.8	19.59	2.14	2.00	42.		.6	17	0	1055A 1116A	"
24	2/11	Brown	42.7	40.25	2.70	2.30	109.		.6	13	0	310P 330P	FC 29
25	2/17	Brown	44.0	59.02	3.28	2.70	194.		.6	15	0	302P 330P	FC 29
26	2/23	"	44.0	51.71	3.02	2.58	156.		.6	14	0	304P 329P	"
27	2/25	"	44.2	55.84	3.04	2.64	168.		.6	13	0	155P 214P	FC 10
28	3/2	"	48.4	46.38	3.01	2.54	139.		.6	11	0	219P 236P	"
29	3/3	Brown-DeVore	46.5	47.31	2.99	2.53	142.		.6	13	-.01	455P 515P	FC 11
30	3/7	Brown	46.2	43.55	2.80	2.49	122.		.6	12	0	357P 415P	FC 10
31	3/10	"	46.0	42.66	2.92	2.48	125.		.6	13	0	227P 247P	"
32	3/18	"	50.5	57.31	3.30	2.65	189.		.6	12	0	1255P 118P	"
33	3/22	Brown-Hall	51.5	64.91	3.34	2.76	216.		.6	12	0	214P 230P	"
34	3/25	" "	50.5	62.59	3.24	2.68	202.		.6	12	0	200P 216P	"
35	3/31	" "	44.6	63.07	3.09	2.62	195.		.6	12	0	234P 249P	"
36	4/4	Brown	44.5	60.24	2.92	2.56	176.		.6	13	0	345P 400P	"
37	4/7	Brown-Hall	44.3	57.56	2.82	2.52	163.		.6	13	0	207P 224P	"
38	4/11	Brown	43.0	53.49	2.57	2.42	138.		.6	13	0	237P 300P	"
39	4/14	"	43.2	51.37	2.52	2.38	130.		.6	13	0	248P 315P	"
40	4/15	Brown-Green	43.0	51.49	2.54	2.38	131.		.6	13	0	349P 409P	"
41	4/20	Brown	48.0	47.98	2.59	2.36	123.		.6	14	0	410P 429P	FC 11
42	4/21	Brown-Green	48.5	47.24	2.65	2.36	125.		.6	14	0	255P 315P	FC 10
43	4/25	Brown	48.0	47.21	2.56	2.36	121.		.6	13	0	2133P 2356P	"
44	4/29	Brown-Green	48.5	46.82	2.49	2.35	117.		.6	15	0	309P 330P	"
45	5/2	Brown	48.0	46.40	2.39	2.34	111.		.6	13	0	252P 308P	"
46	5/4	Brown-Green	48.0	45.76	2.40	2.33	110.		.6	14	0	317P 338P	"
47	5/6	" "	48.0	46.20	2.43	2.33	112.		.6	14	0	228P 252P	"
48	5/9	Brown	48.0	46.05	2.53	2.32	117.		.6	13	0	208P 228P	"
49	5/13	Brown-Green	48.0	44.37	2.29	2.28	102.		.6	14	0	229P 246P	FC 10
50	5/16	Brown	47.5	43.83	2.31	2.27	101.		.6	12	0	139P 158P	"
51	5/20	Brown-Green	47.5	43.21	2.21	2.24	95.		.6	14	0	220P 238P	"
52	5/23	Brown	47.5	44.42	2.23	2.26	99.		.6	14	0	306P 327P	"
53	5/27	Brown-Green	47.0	41.50	2.16	2.22	90.		.6	14	0	1248P 111P	"
54	6/1	" "	43.0	42.27	1.99	2.14	84.		.6	15	0	355P 415P	"
55	6/3	" "	43.0	41.24	1.87	2.11	77.		.6	14	0	148P 205P	"
56	6/6	Brown	53.0	77.49	3.62	2.98	281.		.6	14	0	1225P 1254P	"
57	6/8	Brown-Green	53.0	73.12	3.85	2.95	282.		.6	15	0	145P 205P	"
58	6/10	" "	33.0	36.31	1.00	1.66	36.		.6	12	0	140P 157P	"
59	6/13	Brown	33.0	36.48	0.94	1.64	34.		.6	12	0	1948P 105P	"
60	6/17	"	32.8	35.3	0.83	1.58	29.		.6	12	0	1247P 104P	"
61	6/20	"	33.0	35.46	0.79	1.56	28.		.6	12	0	1255P 113P	"
62	6/24	"	33.2	38.98	0.66	1.64	26.		.6	12	0	142P 159P	"
63	6/30	"	33.5	39.36	0.62	1.63	25.		.6	13	0	242P 304P	"
64	7/6	"	33.2	37.05	0.64	1.59	24.		.6	12	0	318P 336P	"
65	7/8	"	33.1	37.22	0.63	1.58	23.		.6	12	0	1235P 1253P	"
66	7/11	"	33.2	37.27	0.62	1.58	23.		.6	12	0	1211P 1229P	"
67	7/14	"	33.3	38.15	0.59	1.55	22.		.6	12	0	147P 206P	"
68	7/18	"	33.2	37.19	0.54	1.54	20.		.6	12	0	1255P 113P	"
69	7/22	Brown-DeVore	33.1	37.11	0.56	1.53	21.		.6	12	0	1209P 1223P	"
70	7/29	" "	31.0	32.36	0.43	1.44	14.		.6	11	0	1203P 1218P	"
71	8/1	Brown	33.6	37.87	0.70	1.61	26.		.6	12	0	114P 130P	"
72	8/5	"	31.2	32.19	0.42	1.45	13.		.6	11	-.12	1254P 109P	"
73	8/8	Brown	33.6	38.84	0.73	1.64	28.		.6	12	0	106P 124P	FC 10
74	8/12	"	33.6	38.40	0.67	1.60	26.		.6	12	0	143P 159P	"
75	8/15	"	33.8	39.57	0.74	1.63	29.		.6	12	0	152P 210P	"
76	8/17	"	12.3	13.18	1.93	1.60	26.		.6	12	0	242P 258P	"
77	8/19	"	12.6	15.11	2.31	1.68	35.		.6	12	0	1202P 1220P	"
78	8/23	"	12.2	12.45	1.64	1.53	20.		.3	13	0	305P 321P	"
79	8/26	"	11.8	11.25	1.47	1.49	17.		.6	12	0	1240P 1255P	"
80	8/29	"	12.1	12.16	1.62	1.52	20.		.6	12	0	1158A 1218P	"
81	9/2	"	11.5	7.96	0.55	1.26	4.4		.6	11	0	318P 335P	"
82	9/5	"	11.2	7.57	0.39	1.21	2.9		.6	11	0	251P 248P	"
83	9/8	"	11.3	7.47	0.40	1.21	3.0		.6	11	0	1246P 108P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 76 S

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - W. FORK

at above Bear Cr. DURING THE YEAR ENDING SEPTEMBER 30, 19 37

" " " " 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERCENT DIF.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
84	9/12	Brown-Penrod	11.2	7.34	0.35	1.20	2.6		.6	10	0	1227P 1240P	"
85	9/16	Brown	11.1	7.20	0.33	1.20	2.4		.6	10	0	143P 158P	"
86	9/23	"	11.6	7.37	0.44	1.22	3.2		.6	11	0	1156A 1212P	"
87	9/30	"	11.6	7.61	0.43	1.23	3.3		.6	11	0	1232P 1248P	"
					1937-38								
88	10/3	Brown	11.7	8.08	0.51	1.25	4.1		.6	12	0	108P 124P	FC 10
89	10/7	"	11.6	8.11	0.47	1.24	3.8		.6	12	0	1209P 1224P	"
90	10/10	"	11.7	7.92	0.44	1.23	3.5		.6	11	0	1200N 1215P	"
91	10/14	"	11.4	8.19	0.62	1.27	4.3		.6	11	0	1240P 1256P	"
92	10/17	"	11.5	7.96	0.46	1.25	3.7		.6	11	0	1220P 1235P	"
93	10/21	"	11.4	7.86	0.43	1.24	3.4		.6	11	0	1221P 1238P	"
94	10/28	"	11.5	8.00	0.44	1.26	3.5		.6	10	0	122P 138P	"
95	11/4	"	11.5	8.45	0.47	1.29	4.0		.6	11	0	100P 115P	"
96	11/10	"	11.5	8.92	0.60	1.34	5.3		.6	11	0	1226P 1241P	"
97	11/18	"	11.6	9.57	0.67	1.38	6.4		.6	11	0	1055A 1110A	"
98	11/24	"	11.7	9.20	0.64	1.38	5.9		.6	11	0	1120A 1135A	"
99	12/2	"	11.7	9.31	0.59	1.38	5.5		.6	11	0	1212P 1227P	"
100	12/9	"	10.8	9.37	0.60	1.41	5.6		.6	11	0	1156A 1210P	"
101	12/12	"	11.8	11.7	1.13	1.41	13.		.6	13	0	1210P 1228P	"
102	12/15	"	11.7	11.80	1.12	1.40	13.		.6	13	0	1234P 1252P	"
103	12/23	"	12.3	14.16	1.67	1.58	24.		.6	13	-.04	1250P 107P	"
104	12/28	"	11.7	11.29	1.02	1.37	11.		.6	13	0	225P 242P	"
105	12/30	"	11.7	10.82	0.89	1.30	9.7		.6	13	0	1047A 1104A	"
106	1/6	"	14.9	14.79	0.48	1.27	7.2		.6	13	0	1221P 1242P	"
107	1/13	"	14.4	5.89	1.22	1.25	7.2		.6	10	0	1137A 1151A	"
108	1/16	"	17.7	11.38	1.89	1.50	21.		.6	10	-.01	137P 150P	FC 11
109	1/20	Brown-DeVore	16.8	8.37	1.57	1.36	13.		.6	10	0	137P 149P	FC 18
110	1/27	Brown	13.9	7.41	1.43	1.30	11.		.6	13	0	1216P 1233P	"
111	2/1	"	23.3	18.74	2.27	1.76	43.		.6	13	-.04	437P 456P	"
112	2/3	Brown	65.0	86.36	3.08	2.92	266.		.6	13	+.04	435P 455P	FC 18
113	2/5	"	43.0	36.34	1.72	1.99	62.		.6	13	0	1253P 112P	"
114	2/10	"	44.0	40.67	1.71	2.02	70.		.6	14	0	1247P 106P	"
115	2/12	Brown-Penrod	42.8	50.59	3.01	2.45	152.		.6	14	0	223P 238P	"
116	2/17	Brown	36.0	25.83	2.25	1.98	58.		.6	13	0	127P 144P	"
117	2/24	"	29.1	28.82	1.30	1.82	38.		.6	15	0	335P 356P	"
118	3/11	Brown-Ash	49.0	35.97	3.85	-	139.		.6	14	-	1240P 1255P	FC 29
119	3/23	" "	75.0	82.62	4.06	-	335.		.6	16	-	252P 309P	-
120	4/24	Brown	36.0	29.46	1.18	-	35.		.6	12	-	1131A 1147A	FC 29
121	5/4	"	37.0	22.16	1.35	-	30		.6	13	-	224P 240P	"
122	5/12	"	36.5	22.05	1.27	-	28		.6	12	-	1050A 1109A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 233 S

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

at NEAR Roberts Relay Station DURING THE YEAR ENDING SEPTEMBER 30, 19 38

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERCENT DIF.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1	10/26	Brown - Cooper	46.5	46.52	0.65	6.09	30.		.6	14	-	800A 820A	FC 11
2	10/27	Cooper	46.5	46.10	0.74	6.09	34.		.6	14	0	808A 828A	"
3	10/28	Brown - Cooper	46.5	45.95	0.71	6.08	33.		.6	14	0	810A 830A	"
4	10/29	" "	46.5	46.4	0.68	6.09	31.		.6	14	-	815A 835A	"
5	10/30	DeVore-Brown	46.5	46.16	0.72	6.10	33.		.6	14	-	1014A 1033A	"
6	10/31	Brown - Cooper	46.5	46.75	0.69	6.11	32.		.6	14	-	825A 845A	"
7	11/1	Brown - Cooper	46.5	47.62	0.76	6.14	36.		.6	14	-	930A 950A	"
8	11/2	Brown - DeVore	46.5	47.14	0.77	6.13	36.		.6	14	-	1021A 1041A	FC 10
9	11/3	Brown	46.5	47.13	0.77	6.12	36.		.6	14	-	851A 912A	"
10	11/4	Brown - Cooper	46.5	46.97	0.76	6.11	36.		.6	14	-	855A 915A	FC 11
11	11/5	Cooper- DeVore	46.5	47.63	0.73	6.12	35.		.6	14	-	946A 1005A	"
12	11/6	DeVore	46.5	47.19	0.80	6.14	38.		.6	14	-	1126A 1140A	FC 32
13	11/7	Brown	46.5	48.29	0.82	6.16	40.		.6	14	-	743A 805A	FC 10
14	11/8	Cooper	46.5	48.40	0.83	6.15	40.		.6	14	-	925A 945A	FC 29
15	11/9	Brown	46.6	48.35	0.84	6.16	40.		.6	14	-	835A 856A	FC 10
16	11/10	Brown - Cooper	46.6	48.16	0.80	6.15	39.		.6	14	-	908A 928A	"
17	11/11	" "	46.5	48.01	0.82	6.16	39.		.6	14	-	928A 948A	FC 29
18	11/12	Cooper- DeVore	46.6	48.04	0.85	6.17	41.		.6	14	-	1057A 1109A	FC 10
19	11/13	DeVore- DeVore	46.6	48.04	0.88	6.18	42.		.6	14	-	1026A 1046A	FC 32
20	11/14	Brown	46.6	48.61	0.84	6.18	41.		.6	14	-	804A 827A	FC 10
21	11/15	"	46.6	48.81	0.83	6.19	41.		.6	14	-	802A 821A	"
22	11/16	Brown - Cooper	46.6	48.83	0.81	6.18	40.		.6	14	-	904A 924A	"
23	11/17	Brown	46.6	48.67	0.83	6.18	40.		.6	14	-	904A 924A	"
24	11/18	Cooper	46.7	48.62	0.84	6.18	41.		.6	14	0	850A 910A	FC 29
25	11/19	Brown - Cooper	46.6	48.64	0.81	6.18	39.		.6	14	-	934A 954A	FC 10
26	11/20	DeVore- DeVore	38.0	35.61	1.02	6.16	36.		.6	14	-	1110A 1130A	FC 32
27	11/21	Brown	37.7	36.90	0.97	6.16	36.		.6	14	0	1006A 1027A	FC 10
28	11/22	Cooper	46.6	48.02	0.79	6.15	38.		.6	14	-	952A 1016A	FC 29
29	11/22	"	37.9	35.32	1.00	6.15	35.		.6	12	0	1028A 1050A	"
30	11/23	"	46.6	48.26	0.81	6.14	39.		.6	14	0	842A 904A	"
31	11/24	"	46.6	47.92	0.78	6.14	37.		.6	14	0	840A 902A	"
32	11/25	"	46.6	48.48	0.73	6.16	36.		.6	14	0	1000A 1022A	"
33	11/26	Brown	46.6	48.28	0.77	6.15	37.		.6	14	0	829A 850A	FC 11
34	11/27	DeVore- Brown	46.6	47.46	0.83	6.14	40.		.6	14	-	1041A 1059A	FC 32
35	11/28	Brown	46.6	47.90	0.79	6.14	38.		.6	14	-	955A 1015A	FC 10
36	11/29	Cooper	46.6	48.32	0.74	6.14	36.		.6	14	-	920A 940A	FC 11
37	11/30	"	46.6	48.12	0.78	6.14	38.		.6	14	0	820A 840A	"
38	12/1	"	46.6	47.46	0.82	6.14	39.		.6	14	-	836A 856A	"
39	12/2	"	46.6	48.14	0.83	6.14	40.		.6	14	0	836A 856A	"
40	12/3	"	46.7	48.40	0.81	6.15	39.		.6	14	0	920A 942A	"
41	12/4	DeVore	46.6	47.57	0.80	6.14	38.		.6	14	0	1027A 1048A	FC 32
42	12/5	Brown	46.6	48.32	0.79	6.14	38.		.6	14	-	1014A 1034A	FC 10
43	12/6	Cooper	46.6	47.98	0.80	6.14	38.		.6	14	0	934A 956A	FC 11
44	12/7	"	46.6	48.10	0.80	6.14	38.		.6	14	0	836A 856A	"
45	12/8	"	46.6	48.22	0.83	6.14	40.		.6	14	0	830A 850A	"
46	12/9	"	46.6	48.24	0.83	6.15	40.		.6	14	0	1210P 1230P	"
47	12/10	"	46.8	50.92	0.97	6.26	49.		.6	14	0	850A 910A	"
48	12/11	Brown- Cooper	47.0	51.66	0.95	6.27	49.		.6	14	0	925A 945A	"
49	12/11	DeVore	46.8	52.06	1.02	6.31	53.		.6	14	+.02	1114A 1137A	FC 32
50	12/12	Brown- Cooper	47.5	65.66	1.72	6.78	113.		.6	14	0	210P 230P	FC 10
51	12/13	Cooper	47.5	63.90	1.59	6.74	102.		.6	14	0	950A 1010A	FC 11
52	12/13	Brown	47.2	57.52	1.34	6.52	77.		.6	14	0	250P 310P	FC 10
53	12/14	Cooper	47.3	58.50	1.35	6.54	79.		.6	14	-.01	900A 925A	FC 11
54	12/15	Cooper	47.1	54.54	1.20	6.40	65.		.6	14	-.01	820A 840A	"
55	12/16	"	47.1	53.25	1.11	6.35	59.		.6	14	0	930A 950A	"
56	12/17	"	46.9	51.80	1.07	6.32	56.		.6	14	0	1000A 1020A	"
57	12/18	DeVore	46.9	50.51	1.06	6.31	54.		.6	14	0	1117A 1141A	FC 32
58	12/19	Brown-Penrod	46.6	50.86	0.98	6.29	50.		.6	14	0	1034A 1052A	FC 10
59	12/20	Cooper	46.9	49.06	0.93	6.22	46.		.6	14	0	1020A 1040A	FC 11
60	12/21	"	46.9	49.59	0.97	6.24	48.		.6	14	0	930A 950A	"
61	12/22	Brown- DeVore	46.5	49.54	0.98	6.25	48.		.6	14	0	1012A 1030A	FC 10
62	12/23	Cooper	48.0	71.94	1.97	6.88	142.		.6	14	0	1050A 1115A	FC 11
63	12/23	Brown	47.3	65.81	1.70	6.75	112.		.6	14	0	255P 314P	FC 10
64	12/24	Cooper	47.3	55.69	1.26	6.50	70.		.6	14	0	730A 750A	FC 11
65	12/25	"	46.5	52.90	1.12	6.38	59.		.6	14	0	1040A 1100A	"
66	12/26	Brown	46.8	54.94	1.23	6.46	67.		.6	14	0	1012A 1035A	FC 10
67	12/27	"	47.5	65.38	1.66	6.76	108.		.6	15	-.01	1045A 1106A	"
68	12/28	Brown - Cooper	46.9	60.13	1.40	6.62	84.		.6	14	+.01	950A 1010A	FC 11

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 86 S

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

~~XXX~~ below Sandifer Ditch DURING THE YEAR ENDING SEPTEMBER 30, 19 37
" " " " 1938

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	10/1	Brewster	7.0	9.08	1.07	7.24	9.7		.6	7	0	1112A 1124A	FC 8
2	10/8	"	7.0	7.81	1.24	7.18	8.9		.6	7	0	1100A 1110A	"
3	10/15	"	7.0	9.36	0.97	7.22	9.1		.6	7	0	1035A 1047A	"
4	10/22	"	Two channels			7.58	13.		.6	13	0	1030A 1048A	"
5	10/29	"	"	"		7.56	13.		.6	9	0	1115A 1130A	"
6	11/5	"	"	"		6.64	12.		.6	11	0	1100A 1115A	"
7	11/12	"	"	"		6.65	13.		.6	8	0	1102A 1114A	"
8	11/19	"	"	"		6.64	12.		.6	9	0	1058A 1113A	"
9	11/26	"	"	"		6.59	11.		.6	9	0	1110A 1122A	"
10	12/3	"	"	"		6.61	12.		.6	10	0	1102A 1117A	"
11	12/10	"	"	"		6.60	12.		.6	9	0	1112A 1127A	"
12	12/17	"	"	"		6.80	18.		.6	10	0	1102A 1117A	"
13	12/23	"	"	"		6.81	19.		.6	10	0	1111A 1125A	"
14	1/7	"	51.0	46.69	1.49	-	70.		.6	7	-	1130A 1145A	"
15	1/14	"	26.0	28.28	2.21	-	62.		.6	7	-	1135A 1145A	"
16	1/21	"	22.0	17.00	1.79	-	31.		.6	7	-	1125A 1137A	"
17	1/28	"	23.0	17.76	1.63	-	29.		.6	8	-	1040A 1050A	"
18	2/4	"	24.0	20.64	1.59	-	33.		.6	8	-	1110A 1125A	"
19	2/11	"	66.0	42.32	1.76	-	74.		.6	9	-	1125A 1140A	"
20	2/25	"	68.0	39.88	1.71	-	68.		.6	9	-	1035A 1050A	"
21	3/4	"	78.0	42.44	1.44	-	61.		.6	10	-	1110A 1125A	"
22	3/11	"	Two channels				77.		.6	15	-	1117A 1130A	"
23	3/25	-	80.0	129.0	2.94	-	379.		.6	8	-	1130A 1152A	"
24	4/1	Brewster	108.0	35.60	1.86		66.		.6	11	-	1105A 1130A	"
25	4/8	Brewster	128.0	66.58	1.89	-	126.		.6	13	-	1050A 1110A	FC 8
26	4/14	"	Two channels			-	42.		.6	13	-	110P 135P	"
27	4/22	"	"	"		-	90.		.6	13	-	1150A 1215P	"
28	4/29	"	65.0	30.55	1.86	-	57.		.6	11	-	1135A 1155A	"
29	5/6	"	74.0	26.22	1.47	-	39.		.6	10	-	1202P 1217P	"
30	5/13	"	Two channels				34.		.6	12		1220P 1240P	"
31	5/20	"	"	"			23.		.6	10		1138A 1156A	"
32	5/27	"	"	"			20.		.6	10		1141A 1156A	"
33	6/3	"	"	"			17.		.6	10		1142A 1152A	"
34	6/10	"	"	"		7.20	20.		.6	9		1120A 1137A	"
35	6/17	"	"	"		7.22	22.		.6	9		1132A 1148A	"
36	6/24	"	"	"		7.20	20.		.6	9		1142A 1153A	"
37	7/1	"	"	"		7.11	18.		.6	7		1100A 1112A	"
38	7/8	"	10.0	10.62	1.95	7.18	21.		.6	5		1122A 1131A	"
39	7/15	"	Two channels			7.10	17.		.6	8		1107A 1122A	"
40	7/22	"	10.0	9.16	1.75	7.08	16.		.6	5		1105A 1115A	"
41	7/29	"	9.0	8.40	1.92	7.08	16.		.6	5		1040A 1050A	"
42	8/5	"	9.0	9.66	1.89	7.12	18.		.6	5		1040A 1050A	"
43	8/12	"	9.0	9.84	1.84	7.14	18.		.6	5		1105A 1115A	"
44	8/19	Lindsay	10.3	10.47	1.71	7.13	18.		.6	7		1105A 1115A	FC 28
45	8/26	"	10.7	10.12	1.64	7.11	17.		.6	7		1100A 1108A	"
46	9/2	Brewster	9.0	10.28	1.83	7.10	19.		.6	6		1135A 1147A	FC 8
47	9/8	"	13.0	12.05	1.58	7.13	19.		.6	7		1108A 1120A	"
48	9/16	"	10.0	7.82	1.88	6.58	9.3		.6	5		1115A 1124A	"
49	9/23	Brewster	8.0	8.75	1.72	7.08	15.		.6	5	0	1112A 1123A	FC 8
50	9/30	"	10.0	7.90	2.04	7.02	16.		.6	5	0	1108A 1118A	"
					1937-38								
51	10/7	Brewster	10.0	7.86	1.98	7.00	16.		.6	5	0	1107A 1118A	FC 8
52	10/14	"	11.0	8.36	1.76	6.99	15.		.6	6	0	1122A 1133A	"
53	10/21	"	10.0	7.88	1.81	7.00	14.		.6	5	0	1122A 1134A	"
54	10/28	"	10.0	7.82	1.99	7.01	15.		.6	5	0	1125A 1135A	"
55	11/4	"	10.5	8.40	1.80	7.08	15.		.6	5	0	1130A 1140A	"
56	11/10	"	11.0	8.63	1.96	7.10	17.		.6	6	0	1145A 1157A	"
57	11/18	"	12.0	10.24	2.04	7.14	21.		.6	6	0	1145A 1157A	"
58	11/24	"	12.0	10.36	2.11	7.18	22.		.6	6	0	1145A 1156A	"
59	12/2	"	12.0	9.60	1.96	7.10	19.		.6	6	0	1135A 1145A	"
60	12/9	"	8.0	9.34	1.81	7.01	17.		.6	4	0	1112A 1120A	"
61	12/16	"	Two channels			7.24	36.		.6	11	0	1112A 1130A	"
62	12/23	"	"	"		7.38	58.		.6	12	0	1250P 110P	"
63	12/30	"	"	"		7.18	43.		.6	10	0	1112A 1128A	"
64	1/6	"	"	"		7.14	41.		.6	12	0	1105A 1125A	"
65	1/13	"	"	"		7.10	39.		.6	11	0	1115A 1135A	"
66	1/20	"	"	"		6.72	42.		.6	12	0	1137A 1156A	"
67	1/27	"	"	"		6.71	40.		.6	11	0	1049A 1110A	"
68	2/3	"	36.0	23.56	2.55	6.40	60.		.6	9	0	945A 1000A	"
69	2/10	"	44.0	29.64	3.00	-	89.		.6	8	-	1155A 1210P	"
70	2/17	"	31.0	31.36	2.69	-	84.		.6	9	-	1130A 1145A	"
71	2/24	"	30.0	25.41	2.15	-	55.		.6	9	-	1112A 1124A	"
72	4/28	Brewster	72.0	36.96	1.73	-	64.		.6	10	-	1105A 1120A	FC 8
73	5/5	"	88.0	37.52	1.57	-	59.		.6	12	-	1205P 1225P	"
74	5/12	"	66.0	27.62	1.50	-	41.		.6	10	-	1130A 1145A	"
75	5/19	"	Two channels				24.		.6	11	-	1120A 1135A	"
76	5/26	"	22.0	16.64	1.30	-	22.		.6	6	-	1135A 1147A	"
77	6/2	"	34.0	19.90	1.25	-	25.		.6	8	-	1140A 1150A	"
78	6/9	"	32.0	22.08	1.36	-	30.		.6	9	-	1150A 1202P	"
79	6/16	"	31.0	21.93	1.31	-	29.		.6	8	-	1150A 1202P	"
80	6/23	"	22.0	19.36	1.43	-	28.		.6	6	-	1130A 1142A	"
81	6/30	"	24.0	18.96	1.23	-	23.		.6	7	-	1135A 1147A	"
82	7/7	"	20.0	15.68	1.18	-	18.		.6	6	-	1125A 1140A	"
83	7/14	"	16.0	12.98	1.26	-	16.		.6	5	-	1130A 1140A	"
84	7/20	"	21.0	13.74	1.45	-	20.		.6	6	-	1135A 1147A	"
85	7/28	"	Two channels			-	19.		.6	9	-	1125A 1140A	"
86	8/4	"	"	"		-	18.		.6	8	-	1115A 1130A	"
87	8/11	"	"	"		-	19.		.6	10	-	1125A 1140A	"
88	8/18	"	"	"		-	18.		.6	10	-	1150A 1205P	"
89	8/25	"	"	"		-	20.		.6	10	-	1135A 1155A	"
90	9/1	"	"	"		-	22.		.6	11	-	1220P 1236P	"
91	9/8	"	"	"		-	21.		.6	10	-	1140A 1155A	"
92	9/15	Lindsay	27.0	16.84	1.33	-	22.		.6	9	-	1138A 1150A	FC 28
93	9/22	"	25.0	16.35	1.39	-	23.		.6	9	-	1032A 1045A	"
94	9/29	Brewster	Two channels			-	20.		.6	11	-	1045A 1105A	FC 8

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 137 B-S

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

~~XXX~~ 8 miles W. of Castaic Junction DURING THE YEAR ENDING SEPTEMBER 30, 19 37
" " " " 1938

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.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
1	10/9	Luce	10.2	7.18	1.79	-	13.		.6	9	-	1030A 1040A	FC 13
2	11/13	"	13.5	9.29	1.93	-	18.		.6	8	-	1140A 1155A	"
3	12/23	"	13.6	10.19	1.91	-	19.		.6	9	-	500P 510P	"
4	3/4	Luce-Paul	18.6	13.71	2.24	-	31.		.6	9	-	345P 400P	"
5	4/23	Luce	26.5	24.17	1.24	-	30.		.6	11	-	1020A 1030A	"
6	9/16	"	13.0	12.01	0.90	-	11.		.6	8	-	945A 1000A	FC 39
					1937-38								
7	12/30	Luce	18.5	10.75	2.10	-	23.		.6	10	-	1210P 1220P	FC 39
8	1/12	"	18.0	11.16	2.09	-	23.		.6	10	-	105P 115P	"
9	7/14	"	40.5	9.90	1.52	-	15.		.6	12	-	110P 130P	"
10	8/11	"	24.0	6.53	1.69	-	12.		.6	9	-	1120A 1130A	"

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 55 S

DISCHARGE MEASUREMENTS OF SANTA MONICA CANYON

150 ft. below E. Rustic Road DURING THE YEAR ENDING SEPTEMBER 30, 19 37 1938

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.	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	BEGIN	END	METER NO.
				1936-37										
1	10/1	Prickett					Est. 0.15						410P	
2	10/8	"					Est. 0.10						140P	
3	10/22	"					Est. 0.15						125P	
4	11/5	"	2.0	0.27	0.63	-	0.17		Surf	4	-	515P	520P	FC 22
5	11/19	"	1.5	0.15	0.53	-	0.08	Float		3		510P	515P	
6	12/3	"	2.0	0.30	0.60	-	0.18	Float		4		325P	330P	
7	12/17	"					Est. 0.35						315P	
8	1/21	"	3.0	0.72	1.18	-	0.85		.6	3	-	300P	305P	FC 22
9	2/4	"	3.0	0.63	1.05	-	0.65		.6	3	-	310P	315P	"
10	2/18	"	6.3	2.76	1.57	-	4.3		.6	5	-	705P	715P	"
11	2/25	Prickett-Haig	8.5	3.36	3.18	2.35	11.		.6	7	+.06	105P	108P	"
12	3/4	Haig-Prickett	8.0	1.44	0.98	-	1.4		.6	7	-	440P	445P	"
13	3/12	Prickett-Haig	6.6	1.83	1.51	2.10	2.8		.6	6	0	255P	302P	"
14	3/18	Prickett	7.8	3.73	1.58	-	5.9		.6	5	-	412P	420P	"
15	3/25	"	12.0	5.12	1.84	-	9.4		.6	5	-	250P	255P	"
16	4/1	"	4.5	1.52	1.46	-	2.2		.6	4	-	1120A	1125A	"
17	4/8	"	4.3	1.48	1.58	-	2.4		.6	4	-	1205P	1210P	"
18	5/20	"	5.0	1.79	1.32	-	2.4		.6	5	-	140P	145P	"
				1937-38										
19	10/14	Prickett	5.5	1.90	1.69	-	3.2		.6	4	-	500P	510P	FC 22
20	11/18	"	3.0	0.60	1.00	-	0.60		.6	4	-	220P	225P	"
21	12/2	"	2.5	0.89	1.30	-	1.2		.6	3	-	120P	125P	"
22	12/16	"	3.5	1.07	1.16	-	1.2		.6	3	-	455P	500P	"
23	12/30	Prickett	3.5	1.06	1.11	-	1.2		.6	3	-	405P	410P	FC 22
24	1/7	"	3.3	0.74	1.15	-	0.85		.6	3	-	1245P	1250P	"
25	1/13	"	3.3	0.70	1.07	-	0.75		.6	3	-	425P	430P	"
26	1/20	Prickett-Bailey	3.5	0.83	1.04	-	0.85		.6	3	-	210P	215P	"
27	1/28	Prickett	2.5	0.48	0.69	-	0.33		surf.	3	-	138P	145P	FC 21
28	2/16	"	6.0	3.08	1.81	-	5.5		.6	4	-	245P	253P	FC 22
29	3/8	Prickett-Kilen	17.0	8.60	4.77	-	41.	Float		4	-	905A	912A	
30	3/10	Prickett	11.0	4.45	1.75	5.5	7.8		.6	5	0	550P	556P	FC 22
31	3/11	Prickett-Kilen	24.0	11.05	7.95	-	88.		.6	5	-	1015P	1022P	"
32	3/11	Prickett	41.0	24.90	4.58	5.88	114.		.6	8	-.05	1042P	1052P	"
33	3/12	Prickett-Kilen	Two Channels			-	106.		.6	7	-	615A	625A	"
34	3/12	" "	23.5	11.05	4.92	-	54.		.6	9	-	310P	320P	"
35	3/13	" "	36.0	22.05	7.08	-	163.		.6	11	-	612A	623A	"
36	3/17	Prickett	10.0	5.43	3.96	-	22.		.6	5	-	315P	325P	"
37	3/24	"	9.0	5.05	4.12	-	21.		.6	5	-	315P	324P	"
38	3/31	"	5.0	2.35	2.74	-	6.4		.6	4	-	320P	330P	"
39	4/7	"	6.5	2.68	2.09	-	5.6		.6	5	-	345P	354P	"
40	4/14	"	7.0	2.66	2.01	-	5.4		.6	4	-	310P	318P	"
41	4/21	"	5.0	2.05	1.80	-	3.7		.6	4	-	410P	415P	"
42	4/28	"	6.0	2.39	2.27	-	5.4		.6	4	-	230P	236P	"
43	5/5	"	7.0	2.41	1.74	-	4.2		.6	4	-	300P	308P	"
44	5/12	"	8.0	2.76	1.60	-	4.4		.6	5	-	440P	448P	"
45	5/19	"	7.0	2.81	1.61	-	4.5		.6	4	-	310P	320P	"
46	5/26	"	8.0	2.64	1.30	-	3.4		.6	4	-	410P	420P	"
47	9/15	Haig-Moon					Est. 1.2						232P	

F. C. D. FORM 104 1M 9-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 85 S

DISCHARGE MEASUREMENTS OF STANDIFER DITCH

below headgate DURING THE YEAR ENDING SEPTEMBER 30, 19 37 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	TIME PERIOD MI.	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	BEGIN	END	METER NO.
				1936-37										
1	10/1	Brewster	6.0	5.92	1.75	3.40	10.		.6	6	0	1058A	1106A	FC 8
2	10/8	"	6.0	5.48	1.64	3.35	9.0		.6	6	0	1045A	1055A	"
3	10/15	"	6.0	6.11	1.71	3.52	10.		.6	6	0	1020A	1030A	"
4	10/22	"	6.0	4.20	1.46	3.18	6.1		.6	6	0	1015A	1025A	"
5	10/29	"	6.0	5.09	1.70	3.41	9.5		.6	6	0	1102A	1110A	"
6	11/5	"	6.0	5.81	1.69	3.46	9.8		.6	6	0	1045A	1055A	"
7	11/12	"	6.0	5.60	1.66	3.43	9.3		.6	6	0	1045A	1055A	"
8	11/19	"	6.0	5.79	1.69	3.45	9.8		.6	6	0	1042A	1054A	"
9	11/25	"	6.0	5.17	1.62	3.33	8.4		.6	6	0	1056A	1105A	"
10	12/3	"	6.0	5.09	1.60	3.32	8.1		.6	6	0	1045A	1055A	"
11	12/10	"	6.0	5.37	1.64	3.38	8.8		.6	6	0	1057A	1107A	"
12	12/17	"	6.0	4.21	1.38	3.16	5.8		.6	6	0	1045A	1055A	"
13	12/23	"	6.0	3.97	1.37	3.13	5.5		.6	6	0	1058A	1106A	"
14	1/14	"					0						1150A	
15	1/21	"					0						1120A	
16	1/28	"					0						1055A	
17	2/4	"					0						1130A	
18	2/11	"					0						1150A	
19	2/18	"					0						1130A	
20	2/25	"					0						1100A	
21	3/4	"					0						1105A	
22	3/11	"					0						1145A	
23	3/18	"					0						1015A	
24	3/25	Brewster					0						1125A	
25	4/1	"					0						1100A	
26	4/8	"					0						1120A	
27	4/14	"					0						102P	
28	4/22	"					0						1220P	
29	4/29	"					0						1205P	
30	5/6	"	6.0	3.69	1.73	3.08	6.4		.6	4	0	1145A	1152A	FC 8
31	5/13	"	6.0	4.28	1.81	3.20	7.7		.6	4	0	1203P	1214P	"
32	5/20	"	6.0	5.93	2.02	3.50	12.		.6	4	0	1128A	1135A	"
33	5/27	"	6.0	6.31	2.13	3.60	13.		.6	4	0	1130A	1137A	"
34	6/3	"	7.0	6.66	2.10	3.80	18.		.6	4	0	1130A	1137A	"
35	6/10	"	7.0	7.74	1.90	3.71	15.		.6	5	0	1105A	1113A	"
36	6/17	"	7.0	9.69	1.47	3.96	14.		.6	4	0	1115A	1125A	"
37	6/24	"	7.0	7.39	1.95	3.78	14.		.6	4	0	1129A	1137A	"
38	7/1	"	7.0	7.49	1.78	3.76	13.		.6	4	0	1045A	1055A	"
39	7/8	"	7.0	7.14	1.64	3.62	12.		.6	4	0	1110A	1118A	"
40	7/15	"	8.0	10.38	1.01	3.64	10.		.6	4	0	1055A	1103A	"
41	7/22	"	7.0	6.75	1.73	3.60	12.		.6	4	0	1050A	1058A	"
42	7/29	"	7.0	6.62	1.60	3.62	11.		.6	4	0	1025A	1034A	"
43	8/5	"	7.0	6.69	1.67	3.66	11.		.6	4	0	1025A	1033A	"
44	8/12	"	7.0	6.87	1.57	3.67	11.		.6	4	0	1050A	1100A	"
45	8/19	Lindsay	7.4	6.48	1.73	3.59	11.		.6	7	0	1053A	1103A	FC 21
46	8/26	"	7.0	5.84	2.00	3.57	12.		.6	6	0	1050A	1057A	"
47	9/2	Brewster	7.0	6.81	1.64	3.65	11.		.6	4	0	1050A	1100A	FC 8
48	9/8	Brewster	7.0	6.15	1.76	3.56	11.		.6	4	0	1055A	1103A	FC 8

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Percent Diff.	METH OD	MEAS. RECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												1102A	
49	9/16	"	8.0	10.06	1.78	3.91	18.		.6	4	0	1112A	"
												1100A	
50	9/23	"	7.0	6.72	1.81	3.64	12.		.6	4	0	1107A	"
												1055A	
51	9/30	"	7.0	6.79	1.91	3.67	13.		.6	4	0	1103A	"
					1937-38								
												1050A	
52	10/7	Brewster	7.0	6.77	1.94	3.65	13.		.6	4	0	1058A	FC 8
												1108A	
53	10/14	"	7.0	7.05	1.86	3.71	13.		.6	4	0	1117A	"
												1107A	
54	10/21	"	7.0	7.33	1.78	3.72	13.		.6	4	0	1116A	"
												1110A	
55	10/28	"	7.0	7.75	1.86	3.81	14.		.6	4	0	1118A	"
												1110A	
56	11/4	"	6.0	8.20	2.33	3.91	19.		.6	4	0	1121A	"
												1130A	
57	11/10	"	7.0	7.27	1.83	3.74	13.		.6	4	0	1139A	"
												1125A	
58	11/18	"	7.0	8.12	1.84	3.86	15.		.6	4	0	1133A	"
												1130A	
59	11/24	"	7.0	5.83	1.63	3.51	9.5		.6	4	0	1140A	"
												1120A	
60	12/2	"	7.0	7.68	1.82	3.76	14.		.6	4	0	1128A	"
												1050A	
61	12/9	"	7.0	8.00	1.94	3.82	16.		.6	4	0	1058A	"
												1100A	
62	12/16	"	6.0	4.14	1.51	3.18	6.3		.6	4	0	1107A	"
												1240P	
63	12/23	"	4.0	1.35	0.72	2.88	0.95		.6	4	0	1246P	"
												1100A	
64	12/30	"	3.0	0.82	0.72	2.80	0.60		.6	3	0	1105A	"
												1051A	
65	1/6	"	3.0	0.93	0.60	2.78	0.55		.6	3	0	1056A	"
												1105A	
66	1/13	"	3.0	0.89	0.60	2.77	0.55		.6	3	0	1110A	"
												1130A	
67	1/20	"	2.0	0.24	0.17	2.62	0.04		.6	2	0	1132A	"
												1040A	
68	1/27	"	1.0	0.12	0.33	2.61	0.04		.6	2	0	1042A	"
69	2/3	"					0					940A	
70	2/10	"					0						
												1150A	
71	2/17	Brewster					0					1125A	
72	2/24	"					0					1107A	
73	4/28	"					0					1125A	
74	5/5	"					0					1235P	
												1120A	
75	5/12	"	5.0	3.14	0.89	2.75	2.8		.6	4	0	1126A	FC 8
												1105A	
76	5/19	"	8.0	12.30	1.72	3.95	21.		.6	5	0	1113A	"
												1120A	
77	5/26	"	8.0	13.03	1.67	3.90	22.		.6	5	0	1130A	"
												1125A	
78	6/2	"	8.0	10.19	1.47	3.74	15.		.6	5	0	1135A	"
												1137A	
79	6/9	"	8.0	12.38	1.63	3.92	20.		.6	4	0	1143A	"
												1136A	
80	6/16	"	8.0	10.50	1.38	3.63	14.		.6	5	0	1145A	"
												1115A	
81	6/23	"	8.0	11.09	1.42	3.88	16.		.6	5	0	1125A	"
												1120A	
82	6/30	"	8.0	11.32	1.49	3.94	17.		.6	4	0	1130A	"
												1107A	
83	7/7	"	7.0	9.99	1.70	3.84	17.		.6	4	0	1118A	"
												1117A	
84	7/14	"	8.0	11.20	1.73	3.92	19.		.6	4	0	1125A	"
												1120A	
85	7/20	"	8.0	9.32	1.41	3.74	13.		.6	5	0	1130A	"
												1110A	
86	7/28	"	8.0	10.74	1.49	3.72	16.		.6	5	0	1118A	"
												1100A	
87	8/4	"	8.0	10.30	1.64	3.79	17.		.6	5	0	1110A	"
												1112A	
88	8/11	"	8.0	11.86	1.54	3.88	18.		-	5	0	1120A	"
												1136A	
89	8/18	"	8.0	12.39	1.33	3.92	16.		.6	5	0	1145A	"
												1118A	
90	8/25	"	8.0	11.39	1.68	3.88	19.		.6	5	0	1127A	"
												1205P	
91	9/1	"	7.0	8.81	1.63	3.74	14.		.6	5	0	1215P	"
												1125A	
92	9/8	"	8.0	10.95	1.63	3.88	18.		.6	6	0	1135A	"
												1125A	
93	9/15	Lindsay	7.9	9.86	1.74	-	17.		.6	6	-	1133A	FC 28
												1022A	
94	9/22	"	7.7	9.57	1.61	-	15.		.6	6	-	1029A	"
												1025A	
95	9/29	Brewster	8.0	10.60	1.57	3.94	17.		.6	5	0	1035A	FC 8

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 32 S

DISCHARGE MEASUREMENTS OF THOMPSON CREEK

1/4 mi. below Thompson Creek Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 37 / 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Percent Diff.	METH OD	MEAS. RECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
												300P	
1	2/14	Brewster-Pettis	8.0	2.52	1.26	1.90	3.2		.6	4	0	306P	FC 8
												850A	
2	2/26	Brewster	3.0	0.63	0.75	1.53	0.45		.6	3	0	855A	"
												1040A	
3	3/13	Brewster-Pettis	8.0	2.22	1.23	1.85	2.7		.6	4	0	1046A	"
												1100A	
4	3/13	" "	3.0	0.84	0.86	0.36	0.70		.6	3	0	1105A	"
												402P	
5	3/16	Brewster	3.0	0.72	1.01	1.62	0.75		.6	3	0	407P	"
												755A	
6	3/19	"	3.0	0.77	1.30	1.71	1.0		.6	3	0	800A	"
												1151A	
7	3/22	Brewster-Pettis	3.0	0.74	1.40	1.69	1.0		.6	3	0	1155A	"
												935A	
8	3/26	Brewster	3.0	0.64	1.03	1.56	0.65		.6	3	0	940A	"
												730A	
9	4/2	"	3.0	0.53	0.98	1.52	0.50		.6	3	0	736A	"
												805A	
10	4/9	"	3.0	0.62	0.95	1.54	0.60		.6	3	0	810A	"
												130P	
11	4/15	"	3.0	0.60	0.68	1.53	0.41		.6	3	0	135P	"
												758A	
12	4/23	"	3.0	0.60	0.80	1.60	0.48		.6	3	0	802A	"
												840A	
13	4/30	"	3.0	0.45	0.87	1.58	0.39		.6	3	0	844A	"
												820A	
14	5/7	"	3.0	0.47	0.62	1.57	0.29		.6	3	0	825A	"
					1937-38								
												640P	
15	3/10	Brewster	14.0	11.80	2.66	2.23	31.		.6	7	0	650P	FC 8
												1245P	
16	3/12	Brewster-Pettis	12.0	4.80	0.91	1.90	4.4		.6	6	0	1255P	"
												935A	
17	3/17	Brewster	12.0	7.56	1.56	2.10	12.		.6	6	0	945A	"
												900A	
18	3/24	"	4.0	1.07	1.04	1.60	1.1		.6	4	0	905A	"
												1030A	
19	3/31	"	3.0	0.50	0.82	1.50	0.41		.6	3	0	1035A	"
												830A	
20	4/7	"	1.5	0.26	0.73	1.45	0.19		.6	3	0	834A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 66 S

DISCHARGE MEASUREMENTS OF TRI-CITY OUTFALL SEWER

Above junction with Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 19 37 / 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Percent Diff.	METH OD	MEAS. RECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
					1936-37								
												847A	
1	10/1	Brewster	10.0	3.92	1.27	5.32	5.0		.6	5	0	854A	FC 8
												852A	
2	10/8	"	12.0	3.86	1.36	5.36	5.2		.6	6	0	903A	"
												840A	
3	10/15	"	10.0	3.60	1.48	5.38	5.3		.6	6	0	850A	"
												830A	
4	10/22	"	12.0	4.18	1.37	5.40	5.7		.6	6	0	840A	"
												855A	
5	10/29	"	10.0	3.42	1.23	5.30	4.2		.6	5	0	902A	"
												845A	
6	11/5	"	10.0	4.78	1.88	5.52	9.0		.6	5	0	855A	"
												900A	
7	11/12	"	10.0	4.48	1.47	5.36	6.6		.6	5	0	912A	"
												855A	
8	11/19	"	11.0	4.13	1.22	5.22	5.0		.6	6	0	903A	"
												915A	
9	11/25	"	11.0	6.20	1.13	5.53	7.0		.6	6	0	923A	"
												902A	
10	12/3	"	11.0	4.55	1.52	5.52	6.9		.6	6	0	912A	"
												900A	
11	12/10	"	10.0	4.06	1.52	5.41	6.2		.6	5	0	910A	"
												858A	
12	12/17	"	10.0	4.84	1.55	5.42	7.5		.6	5	0	906A	"
												902A	
13	12/23	"	11.0	5.20	1.45	5.41	7.5		.6	6	0	909A	"
												905A	
14	1/7	"	10.0	5.18	1.78	5.34	9.2		.6	5	0	912A	"
												850A	
15	1/14	"	10.0	4.52	1.77	5.26	8.0		.6	5	0	858A	"
												910A	
16	1/21	"	9.0	4.56	1.92	5.30	8.8		.6	5	0	917A	"
												854A	
17	1/28	"	11.0	4.02	1.56	5.21	6.3		.6	6	0	902A	"
												902A	
18	2/4	"	10.0	4.26	2.00	5.33	8.5		.6	5	0	908A	"
												902A	
19	2/11	"	10.0	4.65	1.59	5.18	7.7		.6	5	0	912A	"
												830A	
20	2/25	"	12.0	7.44	1.52	5.14	11.		.6	6	0	840A	"
												835A	
21	3/4	"	9.0	4.69	1.49	5.01	7.2		.6	5	0	845A	"
												847A	
22	3/11	"	9.0	4.70	1.34	4.96	6.3		.6	5	0	854A	"
												858A	
23	3/18	"	10.0	9.48	0.99	5.39	9.4		.6	5	0	906A	"
												840A	
24	3/25	Brewster	9.0	9.54	0.71	5.46	6.8		.6	5	0	850A	FC 8
												905A	
25	4/1	"	10.0	6.44	1.35	5.10	8.7		.6	5	0	915A	"
												840A	
26	4/8	"	10.0	6.66	1.25	5.02	8.3		.6	5	0	850A	"
												1026A	
27	4/14	"	11.0	6.25	2.28	5.49	14.		.6	6	+.02	1040A	"
												920A	
28	4/22	"	10.0	5.86	1.48	5.10	8.7		.6	5	0	930A	"
												858A	
29	4/29	"	8.0	4.18	1.27	4.84	5.3		.6	4	0	906A	"
												917A	
30	5/6	"	8.0	3.70	0.98	4.78	3.6		.6	4	0	925A	"
												850A	
31	5/13	"	10.0	3.18	1.23	4.80	3.9		.6	5	0	900A	"

F. C. D. FORM 104 IN 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. F 66 8

DISCHARGE MEASUREMENTS OF TRI-CITY OUTFALL SEWER

~~At~~ above junction with Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 19 37
" " " " 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERCENT DIF.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
32	5/20	"	9.0	5.01	1.53	5.02	7.7		.6	5	+.01	857A 905A	"
33	5/27	"	9.0	4.62	1.30	4.92	6.0		.6	5	0	902A 910A	"
34	6/3	"	8.0	4.36	1.35	4.91	5.9		.6	4	0	910A 918A	"
35	6/10	"	8.0	2.64	0.91	4.86	2.4		.6	4	0	855A 902A	"
36	6/17	"	9.0	3.95	1.09	4.89	4.3		.6	5	0	900A 910A	"
37	6/24	"	8.0	3.34	0.97	4.82	3.2		.6	4	0	900A 910A	"
38	7/1	"	8.0	3.32	1.12	4.84	3.7		.6	4	0	900A 907A	"
39	7/8	"	9.0	2.77	1.12	4.80	3.1		.6	5	0	858A 907A	"
40	7/15	"	7.0	3.28	1.23	4.87	4.0		.6	4	0	849A 857A	"
41	7/22	"	8.0	3.76	1.24	4.94	4.7		.6	4	0	847A 854A	"
42	7/29	"	8.0	3.68	1.33	4.96	4.9		.6	4	0	815A 825A	"
43	8/5	"	7.0	2.91	1.20	4.86	3.5		.6	4	0	830A 838A	"
44	8/12	"	7.5	3.67	1.47	4.94	5.4		.6	4	0	845A 855A	"
45	8/19	Lindsay	10.5	3.12	1.34	4.92	4.2		.6	7	+.03	847A 855A	FC 28
46	8/26	"	10.5	3.63	1.44	4.93	5.2		.6	7	0	845A 856A	"
47	9/2	Brewster	7.0	3.10	1.29	4.84	4.0		.6	4	0	855A 903A	FC 8
48	9/8	Brewster	9.0	4.05	1.32	4.92	5.4		.6	5	0	852A 901A	FC 8
49	9/16	"	9.0	4.69	1.36	4.98	6.4		.6	5	0	850A 900A	"
50	9/23	"	9.0	4.22	1.45	4.96	6.1		.6	5	0	858A 905A	"
51	9/30	"	8.0	4.30	1.54	4.99	6.6		.6	4	0	858A 907A	"
					1937-38								
52	10/7	Brewster	8.0	4.18	1.56	4.98	6.5		.6	4	0	842A 850A	FC 8
53	10/14	"	8.0	4.02	1.60	4.96	6.4		.6	4	0	858A 906A	"
54	10/21	"	9.0	3.63	1.47	4.60	5.3		.6	5	0	842A 851A	"
55	10/28	"	9.0	4.42	1.52	5.08	6.7		.6	5	0	857A 908A	"
56	11/4	"	8.0	4.32	1.38	5.04	6.0		.6	4	0	848A 857A	"
57	11/10	"	8.0	4.90	1.37	5.08	6.7		.6	4	0	900A 910A	"
58	11/18	"	11.0	4.76	1.54	5.14	7.0		.6	6	0	902A 912A	"
59	11/24	"	10.0	4.20	1.59	5.11	6.7		.6	5	0	854A 905A	"
60	12/2	"	10.0	5.10	1.42	5.02	7.2		.6	5	0	852A 901A	"
61	12/9	"	12.0	5.14	1.39	4.98	7.2		.6	6	0	845A 853A	"
62	12/16	"	10.0	4.58	1.35	4.97	6.2		.6	5	0	845A 855A	"
63	12/23	"	10.0	4.92	1.86	5.26	9.1		.6	5	0	846A 856A	"
64	12/30	"	10.0	4.46	1.68	4.98	7.5		.6	5	0	900A 908A	"
65	1/6	"	10.0	3.58	1.29	4.88	4.6		.6	5	0	850A 900A	"
66	1/13	"	9.0	4.24	1.62	4.96	6.9		.6	5	0	900A 908A	"
67	1/20	"	9.0	4.02	1.94	5.01	7.8		.6	5	0	900A 908A	"
68	1/27	"	11.0	4.68	1.73	5.04	8.1		.6	6	0	847A 856A	"
69	2/10	"	10.0	5.00	1.99	5.04	10.		.6	5	0	902A 910A	"
70	2/17	"	10.0	4.50	1.75	5.02	7.9		.6	5	0	900A 910A	"
71	2/24	Brewster	7.0	3.44	1.84	4.99	6.3		.6	4	0	852A 859A	FC 8
72	4/28	"	12.0	5.50	1.07	-	5.9		.6	6		850A 900A	"
73	5/5	"	9.0	3.43	1.66		5.7		.6	5		908A 920A	"
74	5/12	"	11.0	5.50	1.13		6.2		.6	6		903A 912A	"
75	5/19	"	13.0	7.08	1.16		8.2		.6	7		855A 905A	"
76	5/26	"	13.0	5.78	1.14		6.6		.6	4		852A 900A	"
77	6/2	"	13.0	5.70	1.12		6.4		.6	7		845A 855A	"
78	6/9	"	14.0	6.40	1.30		8.4		.6	7		857A 910A	"
79	6/16	"	13.0	6.09	0.98		6.0		.6	7		902A 911A	"
80	6/23	"	11.0	5.68	0.87		4.9		.6	6		900A 912A	"
81	6/30	"	12.0	6.92	1.13		7.8		.6	6		905A 915A	"
82	7/7	"	12.0	6.45	1.05		6.8		.6	6		907A 917A	"
83	7/14	"	12.0	5.36	1.05		5.6		.6	6		840A 850A	"
84	7/20	"	12.0	4.96	0.95		4.7		.6	6		851A 902A	"
85	7/22	Lindsay	12.5	7.85	1.12		8.8		.6	7		935A 945A	FC 28
86	7/25	"	14.0	9.83	1.43		14.		.6	7		1047A 1055A	"
87	7/27	"	14.0	9.66	1.25		12.		.6	8		945A 955A	"
88	7/28	Brewster	13.0	7.02	0.98		6.8		.6	7		850A 902A	FC 8
89	7/29	Lindsay	15.0	11.18	1.11		12.		.6	7		1040A 1050A	FC 28
90	8/1	"	14.5	12.32	1.36		17.		.6	7		1015A 1025A	"
91	8/3	"	14.0	10.17	0.85		8.6		.6	7		1000A 1010A	"
92	8/4	Brewster	13.0	8.88	0.57		5.0		.6	7		846A 856A	FC 8
93	8/5	Lindsay	14.5	11.30	0.75		8.5		.6	8		1010A 1020A	FC 28
94	8/8	"	16.5	14.07	1.14		16.		.6	8		1225P 1235P	"
95	8/11	Brewster	14.0	10.12	0.44		4.4		.6	7		845A 855A	FC 8
96	8/12	Lindsay	14.5	12.46	1.22		15.		.6	6		1040A 1050A	FC 28
97	8/15	"	14.5	11.98	1.12		13.		.6	7		1000A 1010A	"
98	8/19	Lindsay					0					1015A	
99	9/1	Brewster	10.0	6.44	1.76		11.		.6	5		854A 902A	FC 8
100	9/8	"	9.0	4.73	1.10		5.2		.6	6		750A 800A	"
101	9/15	Lindsay	12.5	6.05	1.16		7.0		.6	6		810A 818A	FC 28
102	9/22	"	11.0	7.41	1.23		9.5		.6	7		825A 835A	"
103	9/29	Brewster	11.0	5.56	0.93		5.2		.6	6		755A 805A	FC 8

MISCELLANEOUS MEASUREMENTS
TAKEN IN
VARIOUS DRAINAGE AREAS

F. C. D. FORM 104 IM 6-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS ~~at~~ in BALLONA CREEK DRAINAGE AREA

~~AT~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37 " " " " " " 1938

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	BALLONA CREEK at Hauser Blvd.												
1936-37													
1	3/24	Prickett-Haig	39.0	78.0	11.3		882.		.6	4		220P 223P	FC 22
	CENTINELA CREEK 1/2 mi. below Sta. F 196 R at bridge												
1936-37													
1	12/30	Prickett-Haig	24.5	15.02	4.93		65.		.6	7		427P 432P	FC 22
2	2/13	" "	32.0	32.60	4.02		131.		.6	7		302P 308P	"

F. C. D. FORM 104 IM 6-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS ~~at~~ in LAS FLORES CANYON DRAINAGE AREA

~~AT~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37 " " " " " " 1938

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	LAS FLORES CREEK at Roosevelt Highway bridge												
1936-37													
1	12/25	Carlson	6.0	1.30	0.41		0.55		.6	4		740A 743A	FC 12
2	12/27	Prickett-Haig	14.0	13.4	2.20		30.		.6	5		755A 801A	FC 22
3	12/31	Carlson-Andren	16.0	7.50	2.97		22.		.6	10		135A 148A	FC 12
4	2/13	" "	19.0	25.6	4.65		119.		.6	4		930P 945P	"

F.C.D. FORM 104 IM 7-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS ~~at~~ in BIG ROCK CREEK DRAINAGE AREA

~~AT~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37 " " " " " " 1938

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	BIG ROCK CREEK one mi. above Big Rock Springs.												
1937-38													
1	4/30	Luce-Luce	20.5	20.49	3.72		76.		.6	11		530P 545P	FC 39
	PUNCHBOWL CREEK 100 ft. above Big Rock Cr.												
1937-38													
1	3/24	Luce	6.5	3.82	1.67		6.4		.6	7		945A 950A	FC 39
	BIG ROCK CREEK 200 ft. above Pallette Cr.												
1937-38													
1	4/30	Luce-Luce	30.8	24.59	3.60		88.		.6	12		610P 625P	FC 39
	PALLETTE CREEK below Weimer's Diversion.												
1936-37													
1	10/3	Luce	2.7	0.39	0.87		0.34		.6	5		1120A 1125A	FC 13
2	9/17	"	3.3	0.66	0.67		0.44		.6	4		415P 422P	FC 39
1937-38													
3	2/26	Luce-Luce	2.1	0.59	0.64		0.38		.6	4		920A 935A	FC 39
	DIVERSION NO. 5 OVERFLOW 1/4 mi. below mouth of Big Rock Canyon.												
1936-37													
1	9/18	Luce	2.3	0.42	0.79		0.33		.6	4		1020A 1025A	FC 39

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS ~~at~~ in LITTLE ROCK CREEK DRAINAGE AREA

~~AT~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37 " " " " " " 1938

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	LITTLE ROCK CREEK 1-1/4 mi. above Sta. 11												
1937-38													
1	3/23	Luce-Haig	27.0	23.83	4.10		98.		.6	15		207P 219P	FC 39
	SANTIAGO CREEK 1/2 mi. above confluence with Little Rock Cr.												
1937-38													
1	3/23	Luce-Haig	12.0	2.26	5.01		11.		.6	7		500P 506P	FC 39
2	5/1	Luce-Luce	5.2	1.57	1.49		2.3		.6	7		940A 950A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS ~~at~~ in LOS ANGELES RIVER DRAINAGE AREA

~~AT~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37 " " " " " " 1938

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.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	PACOIMA CREEK near caretaker's house												
1936-37													
1	2/25	Luce-Paul	25.5	24.62	4.45		110.		.6	8		140P 151P	FC 25
2	3/5	Paul-Luce	28.5	24.56	4.59		113.		.6	16		950A 1000A	FC 13
3	3/19	Luce-Waddicor	27.2	30.46	3.07		94.			16		1200N 1215P	"
4	3/23	Luce-Paul	25.0	32.0	2.90		92.		.6	14		1250P 107P	"
5	3/25	Paul-Luce	29.0	31.63	3.46		110.		.6	13		220P 230P	"
6	3/31	Paul	27.5	32.26	3.22		105.		.6	12		1102A 1115A	"
7	4/1	Luce-Paul	25.2	32.61	2.85		93.		.6	12		1030A 1048A	"
1937-38													
8	4/13	Skelly-Waddicor	34.2	44.34	1.70		75.		.6	15		205P 230P	FC 39

F. C. D. FORM 104 (M 6-38)

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS OF in LOS ANGELES RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37 " " " " " 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Eff.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	CRAIG RANCH DIVERSION at Ponds												
1936-37													
1	2/17	Luce	8.7	7.31	1.89		14.		.6	11		730A 735A	FC 13
2	2/17	"	8.9	7.09	1.61		11.		.6	10		410P 430P	"
	PACOIMA CREEK 250 ft. below gravel pit												
1936-37													
1	2/17	Luce	40.5	29.72	3.13		93.		.6	13		700A 715A	FC 13
2	2/17	"	46.5	45.58	3.50		160.		.6	14		345P 400P	"
	PACOIMA CREEK near submerged dam												
1937-38													
1	11/24	Luce	4.5	1.45	0.50		0.70		.6	5		1100A 1120A	FC 39
2	1/19	Luce	3.0	0.80	0.77		0.60		.6	6		230P 235P	FC 39
3	3/31	Skelly-Luce	37.3	39.21	1.03		40.		.6	10		155P 215P	"
4	4/6	Luce-Skelly	37.5	49.29	2.46		104.		.6	18		1120A 1146A	"
5	4/13	Skelly	37.3	45.55	1.76		80.		.6	14		125P 145P	"
	PACOIMA WASH - Arleta St. spreading grounds W. channel												
1937-38													
1	4/8	Luce-Skelly	14.7	16.26	2.03		30.		.6	10		950A 1000A	FC 39
	PACOIMA WASH - Main channel spreading grounds												
1937-38													
1	4/8	Luce-Skelly	7.0	4.42	1.22		5.4		.6	7		1010A 1015A	FC 39
2	4/13	Skelly	7.0	3.82	1.01		3.9		.6	9		100P 110P	"
	PACOIMA WASH below Woodman												
1936-37													
1	3/30	Paul	11.0	3.90	1.64		6.4			7		118P 124P	FC 13
1937-38													
2	3/5	Miller-Miller	Two Channels				360.		.6	20		340P 410P	FC 35
	PACOIMA WASH 500 ft. S. of Nordhoff St.												
1937-38													
1	3/10	Miller-Miller	55.8	38.24	5.34		205.		.6	14		420P 450P	FC 35
	PARTHENIA STREET RUNOFF at Pacoima Wash												
1937-38													
1	2/3	Miller-Maly	4.2	3.04	2.07		6.3		.6	4		250P 300P	FC 35
2	2/3	" "	4.0	2.20	2.69		5.9		.6	4		500P 510P	"
3	2/9	" "	4.2	2.53	4.73		12.		.6	6		110P 115P	"
4	2/11	" "	4.2	3.40	7.14		24.		.6	6		955A 1005A	"
5	2/11	" "	4.4	4.63	8.24		38.		.6	6		145P 155P	"
	PACOIMA CREEK at Van Owen Blvd.												
1936-37													
1	2/1	Luce-Paul	3.7	1.02	1.47		1.5		.6	5		1237P 1240P	FC 13
	MILL CREEK 800 ft. above Forks												
1937-38													
1	4/21	Lind	9.5	2.18	2.82		6.2		.6	4		1130A 1140A	FC 19
	MILL CREEK 500 ft. above Forks												
1937-38													
1	4/21	Lind	6.5	3.40	1.90		6.5		.6	5		1150A 1155A	FC 19
	MILL CREEK 300 ft. below Forks												
1937-38													
1	4/21	Lind	12.5	4.03	3.38		14.		.6	7		1045A 1100A	FC 19
	BIG TUJUNGA CR. above Josephine Cr.												
1936-37													
1	2/25	Turner	33.0	23.17	3.10		72.		.6	9		340P 350P	FC 5
2	4/22	Turner-Purdy	24.0	18.92	1.73		33.		.6	12		1200N 1215P	FC 19
3	4/28	Turner	23.5	17.93	1.71		31.		.6	11		1120A 1135A	FC 5
4	5/5	"	20.0	15.97	1.57		25.		.6	12		1145A 1157A	"
5	5/12	"	15.0	14.99	1.33		20.		.6	9		1205P 1215P	"
6	5/20	"	20.0	10.33	1.55		16.		.6	11		1210P 1220P	"
7	7/1	"	13.5	6.36	0.71		4.5		.6	8		1018A 1028A	"
8	7/7	"	13.5	5.67	0.60		3.4		.6	8		920A 928A	"
9	7/16	"	7.6	2.28	1.18		2.7		.6	8		1150A 1158A	"
10	7/22	"	7.3	1.97	1.02		2.0		.6	8		200P 210P	"
11	7/29	"	5.5	1.35	1.07		1.4		.6	6		1025A 1030A	"
12	8/5	"	4.0	1.22	1.02		1.2		.6	4		1020A 1023A	"
13	8/11	"	5.5	1.45	0.83		1.2		.6	6		1214P 1220P	"
	BIG TUJUNGA CR. above Fox Cr.												
1936-37													
1	2/11	Turner-Wilson	33.0	18.55	2.68		50.		.6	11		120P 135P	FC 5
2	3/4	Turner	18.0	15.10	2.85		43.		.6	10		1230P 1240P	FC 19
3	3/11	"	18.0	13.16	2.53		33.		.6	9		1205P 1215P	"
4	4/1	Turner-Kelley	26.0	28.60	3.40		97.		.6	13		130P 140P	FC 5
5	4/8	Turner	23.0	19.93	3.18		63.		.6	8		1100A 1110A	"
6	4/15	"	22.0	21.30	2.17		46.		.6	11		1130A 1145A	"
7	8/19	"	7.0	1.42	0.64		0.90		.6	7		1220P 1230P	"
1937-38													
8	2/17	Wood-Bailey	18.6	19.84	2.01		40.		.6	10		130P 140P	FC 19
9	5/19	Lind	13.5	9.25	3.20		30.		.6	7		225P 233P	"
10	5/26	"	14.0	7.55	3.20		24.		.6	7		145P 158P	"
11	6/2	"	14.0	7.43	2.78		21.		.6	7		140P 150P	"
12	6/9	"	15.0	7.92	2.78		20.		.6	8		1220P 1230P	"
13	6/16	"	12.0	7.28	2.39		17.		.6	8		1223P 1236P	"
14	6/23	"	12.5	7.12	2.12		15.		.6	12		1130A 1144A	"
15	7/6	Bollingar	11.4	6.63	1.90		13.		.6	7		236P 245P	FC 6
16	7/13	"	10.5	4.11	2.32		9.5		.6	7		302P 312P	"
17	8/25	Lind	6.7	2.31	2.45		5.7		.6	7		1130A 1140A	FC 19
18	9/8	"	6.8	2.47	2.17		5.4		.6	7		1100A 1112A	"
19	9/29	"	6.2	2.47	2.00		4.9		.6	7		1015A 1026A	"
	FOX CREEK near mouth of canyon												
1936-37													
1	11/5	Turner	2.5	0.19	0.47		0.09		Fl	4		1045A 1050A	
2	11/12	Turner-French	2.5	0.15	0.40		0.06		.6	3		1245P 1250P	FC 5
3	12/10	Turner	2.0	0.25	0.68		0.17		Fl	3		1020A 1025A	
4	12/29	Turner-French	5.4	1.21	2.17		2.6		.6	6		903A 908A	FC 6
5	1/6	" "	6.0	1.06	3.06		3.2		.6	5		230P 233P	"
6	1/13	Turner	4.5	1.57	1.78		2.8		.6	5		910A 915A	"
7	1/21	"	4.0	1.32	1.36		1.8		.6	4		100P 105P	"
8	2/24	"	8.0	4.33	2.98		13.		.6	8		1015A 1016A	"
9	2/25	Turner-Wilson	10.0	5.84	3.03		18.		.6	6		355P 400P	FC 5
10	3/11	Turner	7.5	3.91	2.00		7.8		.6	7		1153A 1200N	FC 19
11	4/1	Turner-Kelley	12.0	6.79	3.02		20.		.6	7		155P 200P	FC 6
12	5/20	Turner	5.5	3.09	1.37		4.2		.6	6		1240P 1246P	"
13	5/27	"	5.5	3.05	1.41		4.3		.6	6		1119A 1124A	"
14	6/2	"	5.5	3.0	1.20		3.6		.6	6		1047A 1053A	"
15	6/25	Turner-Turner	5.3	2.34	0.70		1.6		.6	6		1125A 1131A	"
16	7/1	Turner	5.3	2.11	0.60		1.3		.6	5		955A 1000A	"

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Subsq Percent Diff.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												1130A	
17	7/15	"	4.5	1.59	0.47		0.75		.6	5		1135A	"
												143P	
18	7/22	"	4.5	1.35	0.29		0.39		.6	5		148P	"
												1045A	
19	7/29	"	4.5	1.31	0.27		0.36		.6	5		1050A	"
												1032A	
20	8/5	"	4.5	1.35	0.24		0.33		.6	5		1036A	"
												1205P	
21	8/19	"	2.2	0.55	0.36		0.20		Fl	3		1208P	
												1210P	
22	8/19	"	2.2	0.55	0.35		0.19		.6	3		1215P	FC 5
1937-38													
												230P	
23	5/5	Lind	11.0	6.79	1.33		9.0		.6	7			FC 19
												110P	
24	6/2	"	10.5	5.10	0.76		3.9		.6	9		118P	"
												1250P	
25	6/9	"	10.0	4.65	0.86		4.0		.6	9		100P	"
												1155A	
26	6/16	"	10.0	4.68	0.77		3.6		.6	10		1202P	"
												1050A	
27	6/23	"	7.0	3.76	0.93		3.5		.6	8		1100A	"
												220P	
28	6/30	"	4.2	2.11	1.11		2.4		.6	8		228P	"
												310P	
29	7/6	Bollinger	8.0	3.57	0.60		2.2		.6	6		316P	FC 6
												324P	
30	7/13	"	3.5	2.12	0.94		2.0		.6	5		330P	"
												1230P	
31	7/28	Lind	6.5	2.36	0.58		1.4		.6	6		1240P	FC 19
												310P	
32	8/18	Lind	2.8	0.98	0.78		0.75		.6	5		315P	FC 19
												1025A	
33	8/25	"	3.1	1.43	0.58		0.85		.6	6			"
												1035A	
34	9/8	"	3.5	1.04	0.64		0.65		.6	6		1040A	"
												1045A	
35	9/29	"	3.5	1.03	0.49		0.50		.6	6		1052A	"
		BIG TUJUNGA CR. inflow to reservoir											
1936-37													
							Est.						
1	10/17	Turner					0.20					300P	
												1000A	
2	10/21	"	3.5	0.74	0.55		0.41		Fl	4		1005A	
												1130A	
3	10/29		2.5	0.72	0.62		0.45		Fl	4		1135A	
												1055A	
4	11/5	Turner	4.0	0.60	1.33		0.80		Fl	4		1100A	
												1240P	
5	11/12	Turner-French	4.0	0.78	0.69		0.55		.6	4		1245P	FC 5
												1105A	
6	12/17	Turner	11.5	3.38	1.35		4.6		.6	12		1120A	"
												1030A	
7	12/23	"	5.0	1.58	1.19		1.9		.6	5		1040A	"
												852A	
8	12/29	"	18.0	9.17	3.16		29.		.6	10		900A	
												951A	
9	12/30	French	20.1	7.68	2.29		18.		.6	11		1005A	FC 5
												219P	
10	1/6	Turner	15.5	7.24	2.78		20.		.6	9		226P	"
												850A	
11	1/13	"	14.0	4.03	2.73		11.		.6	10		905A	"
												1240P	
12	1/21	"	8.5	3.31	1.41		4.7		.6	8		1250P	"
												1115A	
13	1/28	"	8.0	3.43	2.48		8.5		.6	8		1125A	"
												225P	
14	2/5	Turner-Wilson	11.5	8.06	2.89		23.		.6	6		235P	FC 19
												1000A	
15	2/24	Turner	34.0	10.74	5.53		59.		.6	9		1010A	FC 5
												1045A	
16	5/27	"	20.5	11.40	1.62		18.		.6	11		1100A	"
												1010A	
17	6/2	"	20.0	9.36	1.38		13.		.6	11		1022A	"
												1155A	
18	6/9	Turner	20.0	9.00	1.38		12.		.6	11		1207P	FC 5
												1200N	
19	6/25	Turner-Turner	15.0	7.42	0.82		6.1		.6	8		1212P	"
												304P	
20	8/25	Bollinger	4.0	0.91	0.93		0.85		.6	6		308P	FC 6
												248P	
21	9/1	"	3.3	0.68	0.91		0.60		.6	4		253P	"
												958A	
22	9/8	Turner	5.0	1.30	0.87		1.1		.6	5		1003A	FC 5
												950A	
23	9/16	"	3.2	0.74	0.93		0.70		.6	4		955A	"
1937-38													
												153P	
24	2/17	Wood-Bailey	31.7	17.51	2.45		43.		.6	12		213P	FC 19
												155P	
25	2/23	Lind	20.0	10.0	3.52		35.		.6	5		208P	"
												1155A	
26	2/24	"	21.5	10.95	2.54		28.		.6	11		1210P	"
												1031A	
27	3/20	"	159.0	56.90	4.33		246.		.6	14		1120A	"
												1250P	
28	4/6	"	29.5	17.45	5.10		89.		.6	8		1248P	"
												915A	
29	4/15	"	25.5	15.93	4.99		79.		.6	8		930A	"
												425P	
30	4/21	"	19.5	11.95	5.02		60.		.6	6		437P	"
												1030A	
31	4/28	Lind-Robertson	23.5	14.60	4.04		59.		.6	10		1046A	"
												210P	
32	5/5	Lind	17.5	10.25	3.86		40.		.6	8		223P	"
												247P	
33	7/20	Bollinger	12.3	3.55	2.35		8.6		.6	8		255P	FC 6
												240P	
34	7/28	Lind	7.5	2.57	3.32		8.5		.6	7		251P	FC 19
												1230P	
35	8/4	"	7.5	2.45	2.91		7.1		.6	8		1240P	"
												110P	
36	8/11	"	6.2	2.24	2.79		6.2		.6	7		117P	"
												245P	
37	8/18	"	7.1	2.58	2.88		7.4		.6	8		257P	"
												1050A	
38	8/25	"	5.8	2.11	2.76		5.8		.6	7		1058A	"
												1015A	
39	9/1	"	6.1	2.17	2.89		6.3		.6	8		1024A	"
												1010A	
40	9/8	"	6.5	2.34	2.52		5.9		.6	8		1022A	"

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Subsq Percent Diff.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												1005A	
41	9/15	Lind	6.4	2.21	2.56		5.7		.6	7		1015A	FC 19
												1210P	
42	9/22	"	5.7	2.21	2.13		4.7		.6	12		1223P	"
												1250P	
43	9/22	"	8.6	2.37	1.90		4.5		.6	9		100P	"
		BIG TUJUNGA CR. 200 ft. above Clear Cr.											
1936-37													
												1120A	
1	12/29	Turner-Ealy	6.3	1.29	0.93		1.2		.6	5		1125A	FC 5
		BIG TUJUNGA DIVERSION at Dept. of Water and Power Plant											
1937-38													
												Water	307P
1	10/11	Turner					2.4		Meter				312P
		BIG TUJUNGA DIVERSION from right bank of stream											
1937-38													
												210P	
1	10/11	Turner	2.7	0.85	0.56		0.48		Fl	3		215P	
		BIG TUJUNGA DIVERSION to Johnson Ranch above Mt. Gleason Ave.											
1937-38													
												155P	
1	10/11	Turner	2.5	0.46	0.50		0.23		Fl	4		200P	
		BIG TUJUNGA DIVERSION from swimming pool											
1937-38													
												135P	
1	10/11	Turner	2.0	0.74	0.24		0.18		Fl	4		140P	
		BIG TUJUNGA WASH at mouth of canyon											
1936-37													
												130P	
1	10/8	Luce	7.0	1.90	1.43		2.7		.6	7		140P	FC 13
1937-38													
												900A	
1A	10/11	Turner	19.0	23.74	1.03		24.		.6	11		915A	FC 5
		BIG TUJUNGA WASH at San Fernando Road											
1937-38													
												500P	
1	7/5	Luce	13.5	10.44	2.03		21.		.6	8		515P	FC 39
												625P	
2	7/5	"	15.5	16.08	2.83		46.		.6	9		635P	"
		BIG TUJUNGA WASH at Laurel Canyon											
1936-37													
												105P	
1	2/8	Luce	Two Channels				244.		.6	30		130P	FC 13
1937-38													
												850A	
1A	3/30	Luce	Four Channels				36.		.6	20		910A	FC 39
		BIG TUJUNGA WASH at Sherman Way											
1936-37													
												210P	
1	2/8	Luce-Paul	33.7	14.03	3.59		50.		.6	8		215P	FC 13
		BIG TUJUNGA - E. Channel at Chandler Blvd.											
1937-38													
												1242P	
1	3/13	Bollinger-Koch	76.0	75.25	5.12		386.		.6	9		1258P	FC 6
		BIG TUJUNGA - W. Channel 200 ft. below Chandler Blvd.											
1937-38													
												1130A	
1	3/12	Bollinger-Koch	100.0	66.9	4.62		309.		.6	12		1142A	FC 6
		LOS ANGELES RIVER 1/4 mi. below Buena Vista St.											
1937-38													
												920A	
1	10/14	Bollinger	Two Channels				26.		.6	13		938A	FC 6
												954A	
2	10/28	"	15.0	8.92	2.43		22.		.6	9		1003A	"
												1250P	
3	11/10	"	18.0	12.34	1.96		24.		.6	10		100P	"
												1123A	
4	11/18	"	19.5	13.63	1.82		25.		.6	10		1133A	"
												150P	
5	11/24	"	21.0	14.96	1.81		27.		.6	10		200P	"
												135P	
6	12/1	"	20.0	14.16	2.07		29.		.6	10		145P	"
												107P	
7	12/16	"	20.0	12.08	2.21		27.		.6	10		116P	"
												912A	
8	12/31	"	20.0	12.55	2.27		29.		.6	8		920A	"
												124P	
9	1/6	"	19.3	12.73	2.39		31.		.6	11		136P	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS OF in LOS ANGELES RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PERCENT DIS.	METH OD	MEAS SECS. NO.	C. HT. CHANGE TOTAL	BEGIN END	METER NO.
10	1/13	"	20.0	13.23	2.18		29.		.6	10		412P 421P	"
11	1/27	"	20.0	12.94	2.56		33.		.6	12		1228P 1243P	"
12	2/17	"	29.0	17.82	2.34		41.		.6	12		308P 320P	"
13	2/24	"	38.5	21.02	1.72		36.		.6	12		300P 313P	"
14	5/5	"	63.7	27.31	1.49		41.		.6	13		156P 211P	"
15	5/12	"	61.5	26.59	1.51		40.		.6	18		107P 125P	"
16	5/26	"	62.5	25.98	1.44		37.		.6	16		345P 405P	"
17	6/9	"	71.0	25.55	1.53		38.		.6	18		1033A 1048A	"
18	6/23	"	40.5	23.43	1.68		39.		.6	13		1109A 1123A	"
19	7/7	Bollinger	61.0	21.92	1.57		33.		.5	19		1050A 1109A	FC 6
20	8/10	"	33.2	13.93	1.55		22.		.6	13		410P 423P	"
		HALL BECKLEY CHANNEL at La Cresenta Blvd.											
1936-37													
1	2/5	Fuller-Burke	15.0	3.15	11.45		36.	Vert. Vel. 6					Pitot
		LOS ANGELES RIVER at Hyperion Blvd. bridge											
1936-37													
1	10/8	Bollinger					0.95		Weir			1013A	
		LOS ANGELES RIVER near Dallas St.											
1936-37													
1	10/8	Bollinger					1.3		Weir			940A	
		LOS ANGELES RIVER at Arnold St.											
1936-37													
1	10/8	Bollinger					0.70		Weir			925A	
		ARROYO SECO above Millard Cr.											
1936-37													
1	12/15	Lindsay and McArthur	17.5	3.31	4.08		14.		.6	7		220P 230P	FC 28
2	12/27	Cole	52.0	20.21	5.50		111.		.6	10		430P 445P	FC 7
2A	12/31	Cole-L. Cole	49.0	19.44	4.88		95.		.6	11		425P 440P	FC 7
3	1/6	"	12.0	5.54	4.68		26.		.6	7		1152A 1210P	"
4	1/20	Lindsay	8.2	3.12	2.21		6.9		.6	8		1150A 1159A	FC 28
5	3/12	Cole	22.1	19.22	4.11		79.		.6	8		140P 205P	FC 36
6	3/13	Cole-Baustian	35.0	34.90	5.77		201.		Fl	7		1032A 1110A	"
7	3/16	Cole	24.1	19.91	4.84		96.		.6	9		417P 435P	FC 1
8	3/22	Cole-Baustian	22.9	19.56	3.98		78.		.6	9		145P 155P	"
1937-38													
9	12/11		14.4	6.26	1.20		7.5		.6	5		312P 320P	FC 28
10	1/15	Haig-Baustian	23.0	16.65	3.17		53.		.6	12		156P 208P	FC 1
11	2/9	Lindsay-Ingram	18.5	7.49	3.25		24.		.6	7		1045A 1055A	FC 28
12	3/10	" "	37.0	13.38	8.37		117.		.6	9		330P 342P	"
13	3/16	Lindsay	38.0	16.90	8.09		129.		.6	10		327P 340P	"
14	3/23	"	32.0	11.74	6.69		79.		.6	8		145P 158P	"
15	3/30	"	22.0	8.63	5.48		47.		.6	8		1130A 1145A	"
16	4/7	Haig	25.0	6.05	5.14		31.		.6	11		956A 1016A	FC 38
17	4/14	"	11.7	6.47	4.48		29.		.6	8		952A 1006A	FC 1
18	4/22	"	11.8	7.55	3.20		24.		.6	6		840A 848A	FC 38
19	4/28	Lindsay	11.5	5.22	3.78		20.		.6	9		450P 503P	FC 28
20	5/6	"	12.5	6.35	2.58		16.		.6	7		1015A 1025A	"
21	5/12	Haig	13.3	6.70	2.51		17.		.6	8		917A 932A	FC 38
22	6/2	"	9.0	4.03	2.96		12.		.6	7		950A 1000A	"
23	6/16	Lindsay	9.5	3.98	2.01		8.0		.6	6		250P 300P	FC 28
24	6/30	"	10.5	4.18	1.47		6.1		.6	8		155P 205P	"
25	7/14	"	7.5	3.32	1.49		4.9		.6	6		1140A 1150A	"
26	7/28	"	7.0	1.91	1.78		3.4		.6	6		1000A 1015A	"
27	8/24	Lindsay	Two Channels				1.8		.6	8		1020A 1030A	FC 28
		MILLARD CREEK above junction with Arroyo Seco											
1937-38													
1	3/10	Lindsay-Ingram	9.5	3.50	3.36		12.		.6	6		345P 353P	FC 28
2	3/16	Lindsay	9.5	4.82	3.69		18.		.6	5		345P 352P	"
3	3/23	"	8.5	3.78	2.20		8.3		.5	6		203P 210P	"
4	3/30	"	5.5	2.53	2.12		5.4		.6	5		1150A 1200N	"
5	4/7	Haig	3.2	1.66	2.39		4.0		.6	7		936A 947A	FC 38
6	4/14	"	3.3	1.70	2.24		3.8		.6	5		940A 948A	FC 1
7	4/22	"	3.2	0.78	2.45		1.9		.6	5		827A 833A	FC 38
8	4/28	Lindsay	3.5	0.98	1.63		1.4		.6	4		440P 445P	FC 28
9	5/6	"	3.0	0.68	1.52		1.0		.6	5		1028A 1035A	"
10	5/12	Haig	1.6	0.29	1.21		0.35		.6	4		907A 913A	FC 38
11	6/2	"	1.5	0.11	1.09		0.12		Sun	4		1002A 1007A	"
		ARROYO SECO below Millard Cr.											
1937-38													
1	5/19	Haig	12.0	6.25	2.76		17.		.6	7		925A 933A	FC 38
2	5/26	"	12.7	5.33	2.79		15.		.6	9		928A 936A	"
3	8/11	Lindsay	6.7	1.79	1.42		2.6		.6	6		1005A 1015A	FC 28
4	9/7	Brewster	11.0	2.37	1.16		2.8		.6	6		235P 245P	FC 8
		ARROYO SECO below Devil's Gate Dam											
1936-37													
2	2/16	Cole	51.0	30.56	3.82		116.		.6	15		320P 355P	FC 36
3	2/18	"	53.0	34.0	3.87		132.		.6	13		910A 933A	FC 36
4	2/26	"	5.0	1.54	0.38		0.60		.6	6		735A 750A	"
5	3/4	Lindsay	4.2	0.92	0.72		0.60		.6	4		1100A 1105A	FC 28
6	3/24	Cole	53.2	32.40	1.57		52.		.6	15		845P 917P	FC 36
7	4/1	"	5.3	2.03	0.35		0.70		.6	6		1205P 1219P	"
8	8/26	"	26.5	14.52	1.34		19.		.6	13		803A 825A	FC 38
9	8/27	Lindsay	12.5	8.57	2.26		19.		.6	9		1125A 1135A	"
10	8/30	Bonadiman-Cole	27.5	13.56	1.29		17.		.6	12		948A 1003A	"
11	8/30	" "	27.0	13.03	1.19		16.		.6	10		1110A 1115A	"
1937-38													
12	3/10	Lindsay-Ingram	19.0	19.19	1.46		28.		.6	7		412P 425P	FC 28
13	3/19	Haig	32.0	36.93	1.36		69.		.6	11		100P 121P	FC 1
14	3/21	"	60.5	71.98	1.56		112.		.6	22		834A 908A	"
15	3/23	Lindsay	40.0	62.16	1.87		116.		.6	10		310P 330P	FC 28
16	3/24	Haig	Two Channels				44.		.6	14		341P 417P	FC 1
17	3/26	Lindsay	20.0	22.17	1.99		44.		.6	9		1230P 1245P	FC 28
18	3/28	"	19.0	20.55	1.54		32.		.6	11		1100A 1115A	"
19	3/30	"	18.5	18.56	1.28		24.		.6	10		1100A 1110A	"
20	4/7	Haig	8.7	12.12	1.18		14.		.6	8		854A 915A	FC 38
21	4/14	"	Two Channels				5.7		.6	6		840A 849A	FC 1
22	4/18	Haig	4.7	5.26	3.64		19.		.6	6		436P 450P	FC 38
23	4/22	"	4.1	3.69	3.80		14.		.6	5		755A 808A	"
24	4/28	Lindsay	18.5	19.13	1.05		22.		.6	10		535P 550P	FC 28
25	5/6	"	16.5	13.50	0.78		11.		.6	9		1050A 1105A	"
26	5/12	Haig					Est. 1.5					815A	
27	5/19	"	7.0	9.20	0.38		3.5		.6	7		850A 900A	FC 38
28	5/26	"	11.5	8.13	0.57		4.6		.6	6		840A 848A	"
29	6/2	"					Est. 1.0						
30	9/24	Lindsay	18.0	18.87	1.01		19.		.6	8		942A 955A	FC 28
		ARROYO SECO near Colorado Street bridge											
1937-38													
1	3/26	Lindsay	24.5	16.68	1.37		23.		.6	9		107P 122P	FC 28
2	3/28	"	22.0	13.64	1.09		15.		.6	11		1028A 1042A	"
3	3/30	"	9.0	4.67	1.35		6.3		.6	6		1028A 1040A	"
4	4/7	Haig					0					812A	
5	4/14	"	1.8	0.30	0.32		0.10		Sun	4		810A 816A	FC 1

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adjmt Point Dif.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												726A	
6	4/22	"	3.7	1.23	1.08		1.3		.6	4		733A	FC 38
7	5/12	"	4.0	0.32	0.34		0.11		21	1		800A	
												820A	
8	5/26	"	2.0	0.18	0.02		0.004		Sur	2		822A	FC 38
		ARROYO SECO above junction with Los Angeles River.											
1937-38													
1	3/31	Bollinger	10.0	5.95	1.45		8.6		.6	6		1045A 1053A	FC 6
2	4/7	Bollinger-Bailey	8.0	3.49	0.78		2.7		.6	8		909A 916A	FC 6
3	4/29	Bollinger	8.5	5.58	1.29		7.2		.6	6		1035A 1041A	"
4	5/6	"	8.2	3.37	0.61		2.0		.6	5		955A 1001A	"
5	5/11	Bollinger and Odekirk	7.5	1.27	0.88		1.1		.6	6		1116A 1121A	"

F. C. D. FORM 104 IR 6-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS at in RIO HONDO DRAINAGE AREA

miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1937
" " " " " " 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adjmt Point Dif.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
		RIO HONDO below Arrow Highway											
1936-37													
												1035A	
1	1/5	Lindsay	37.0	36.34	2.88		102.		.6	10		1045A	FC 28
												1025A	
2	1/7	"	43.0	37.13	3.01		112.		.6	9		1040A	"
												340P	
3	1/7	"	40.5	32.96	2.41		79.		.6	10		355P	"
												345P	
4	1/8	Lindsay-Jordan	19.9	24.01	3.17		76.		.6	10		400P	"
												1053A	
5	1/11	Lindsay	27.8	24.63	3.25		81.		.6	11		1108A	"
												330P	
6	1/11	"	26.8	25.76	3.21		83.		.6	10		345P	"
												1025A	
7	1/14	"	27.5	26.57	3.31		88.		.6	11		1040A	"
												245P	
8	2/5	"	24.0	12.77	1.45		19.		.6	7		255P	"
												947A	
9	2/9	"	29.0	26.77	3.39		91.		.6	10		1000A	"
												825A	
10	2/10	"	47.5	50.59	4.34		219.		.6	11		840A	"
		Lindsay and										920A	
11	2/16	McArthur	66.5	78.05	4.15		324.		.6	10		930A	"
												410P	
12	2/18	" "	Three Channels				631.		.6	23		433P	"
												220P	
13	2/23	Lindsay	42.5	54.43	2.60		142.		.6	12		240P	"
												945A	
14	2/24	"	42.0	53.53	2.59		139.		.6	12		1005A	"
												1050A	
15	2/26	"	44.0	60.40	2.86		173.		.6	12		1110A	"
												120P	
16	3/1	"	42.5	59.0	2.64		156.		.6	12		135P	"
												941A	
17	3/3	"	44.0	65.0	3.17		206.		.6	12		955A	"
												446P	
18	3/5	"	42.0	58.3	2.73		159.		.6	11		459P	"
		Lindsay and										410P	
19	3/12	McArthur	25.0	20.5	1.98		41.		.6	8		420P	"
												1002A	
20	3/26	Lindsay	66.0	87.10	3.22		287.		.6	14		1025A	FC 21
												1130A	
21	3/29	"	42.0	52.3	2.80		146.		.6	11		1150A	"
												1213P	
22	3/31	"	41.0	51.4	2.51		128.		.6	9		1225P	FC 28
												125P	
23	4/2	Lindsay	42.0	52.8	2.76		145.		.6	9		140P	FC 28
												921A	
24	4/12	"	20.0	11.58	1.03		12.		.6	7		931A	"
												1128A	
25	4/21	"	43.0	49.77	2.16		108.		.6	11		1143A	"
												220P	
26	4/28	"	40.5	41.35	1.95		80.		.6	10		240P	"
												1220P	
27	5/5	"	39.0	35.1	1.50		52.		.6	10		1235P	"
												1207P	
28	5/7		39.0	36.6	1.46		53.		.6	10		1220P	"
												211P	
29	5/12	Lindsay	39.0	28.2	1.06		30.		.6	11		224P	"
												224P	
30	5/24	"	37.5	25.4	0.75		19.		.6	10		235P	"
												1206P	
31	6/1	"	5.0	1.68	0.83		1.4		.6	5		1211P	"
1937-38													
												1135A	
32	2/25	Lindsay	40.0	43.37	2.53		110.		.6	9		1150A	FC 28
												140P	
33	7/15	"	14.7	21.14	3.33		70.		.6	7		150P	"
												120P	
34	7/22	"	Two Channels				210.		.6	21		155P	"
												830A	
35	7/29	"	Two Channels				199.		.6	21		900A	"
												915A	
36	8/12	"	Two Channels				145.		.6	17		945A	"
												855A	
37	8/19	"	Two Channels				139.		.6	17		920A	"
												835A	
38	8/25	"	Two Channels				118.		.6	16		900A	"
												245P	
39	8/31	Brewster	Two Channels				116.		.6	18		310P	FC 8

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adjmt Point Dif.	METH OD	MEAS SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
		SAWPIT CREEK above junction with Monrovia Cr.											
1936-37													
1	2/18	Dalton	9.5	5.57	1.90		11.		.6	9		1145A 1158A	FC 2
1937-38													
2	3/4	Lindsay-Ingram	16.5	18.34	4.06		74.		.6	9		525P 535P	FC 28
3	3/7	Lindsay-Ingram	16.5	16.46	3.26		54.		.6	12		545P 600P	FC 28
5	3/21	Haig	4.5	2.10	2.26		4.8		.6	6		216P 226P	FC 38
6	4/25	"	3.0	2.00	2.56		5.1		.6	6		1158A 1210P	"
7	4/28	Lindsay	8.6	3.18	0.99		3.2		.6	8		935A 945A	FC 28
8	5/2	"	8.7	3.07	1.04		3.2		.6	7		750A 805A	"
9	5/5	"	8.3	3.02	0.94		2.8		.6	8		915A 927A	"
10	5/9	"	8.2	2.83	0.86		2.4		.6	9		825A 835A	"
11	5/12	Haig	8.0	2.82	0.81		2.3		.6	8		358P 410P	FC 38
12	5/18	"	7.6	2.44	0.72		1.8		.6	6		338P 345P	"
13	5/25	"	8.0	1.83	0.36		0.65		.6	5		340P 356P	"
14	6/1	"	5.5	0.90	0.49		0.44		Sur	6		516P 523P	"
15	6/16	Lindsay	13.0	10.62	2.91		31.		.6	6		1020A 1032A	FC 28
16	6/30	"	1.7	0.17	0.71		0.12		.6	3		910A 915A	"
17	7/14	"	2.8	0.33	0.67		0.22		.6	4		230P 235P	"
18	7/28	"	3.0	0.30	0.33		0.10		.6	4		140P 145P	"
19	8/11	"	2.7	0.27	0.30		0.08		.6	4		1233P 1237P	"
20	3/24	"	1.4	0.08	0.33		0.03		.6	2		805A 808A	"
21	9/7	Brewster	0.5	0.11	0.55		0.06		.6	1		500P 503P	FC 8
22	9/21	Lindsay					Est. 0.02					305P	
		SAWPIT CREEK below junction with Monrovia Cr.											
1937-38													
1A	3/8	Lindsay-Ingram	15.0	15.19	2.08		32.		.6	10		312P 322P	FC 28
1	3/9	Lindsay-Ingram	12.0	8.76	2.41		21.		.6	8		335 345	FC 28
2	3/12	Lindsay-Ingram	12.5	10.25	3.22		33.		.6	7		1255P 105P	FC 28
3	3/16	Lindsay	13.8	8.61	2.10		18.		.6	9		1005A 1015A	"
4	3/23	"	12.0	8.83	1.96		17.		.6	8		1025A 1035A	"
5	3/25	"	10.7	8.00	1.48		12.		.6	8		350P 400P	"
6	3/30	"	10.7	7.76	1.52		12.		.6	8		245P 255P	"
7	4/6	"	11.0	7.84	1.20		9.4		.6	11		1020A 1030A	"
8	4/8	Haig	11.0	7.83	1.17		9.1		.6	11		225P 240P	FC 1
9	4/11	"	11.0	7.64	1.65		13.		.6	12		936A 1055A	"
10	4/14	Lindsay-Ingram	8.5	7.13	1.22		8.7		.6	6		1125A 1135A	FC 28
11	4/18	Haig	11.0	6.18	1.15		7.1		.6	12		936A 949A	FC 1
		RIO HONDO - Peck Road Diversion											
1936-37													
1	2/5		10.8	4.07	1.59		6.5		.6	8		320P 330P	FC 28
2	2/9	Lindsay	7.5	1.53	1.19		1.9		.6	6		122P 130P	"
3	2/10	Jordan	14.0	7.78	2.49		19.		.6	8		425P 445P	FC 21
4	2/11	Lindsay	11.7	4.55	1.27		5.8		.6	7		333P 339P	FC 28
5	2/16	Lindsay and McArthur	13.7	12.82	2.30		30.		.6	8		1128A 1137A	"
6	2/20	" "	13.9	12.48	2.08		25.		.6	8		300P 307P	"
7	2/23	Lindsay	12.3	5.69	1.72		9.8		.6	9		125P 135P	"
8	2/24	"	16.0	15.42	2.30		36.		.6	10		1135A 1150A	"
9	2/26	"	18.0	17.87	2.32		41.		.6	10		215P 228P	"
10	3/1	"	21.0	20.58	2.10		44.		.6	10		235P 250P	"
11	3/3	"	16.0	18.23	2.14		39.		.6	9		1210P 1225P	"
12	3/5	Lindsay	19.3	15.28	2.58		39.		.6	9		423P 434P	FC 28
13	3/15	"	10.5	7.97	6.64		53.		.6	8		412P 424P	"
14	3/17	Lindsay and McArthur	10.5	7.72	6.50		50.		.6	8		247P 305P	"
15	3/19	Lindsay	10.5	7.21	6.13		44.		.6	9		320P 335P	"
16	3/26	"	22.0	11.12	2.26		25.		.6	11		300P 315P	FC 21
17	3/29	"	23.2	11.84	2.23		26.		.6	11		350P 405P	"
18	3/31	"	22.0	23.52	2.08		49.		.6	11		255P 308P	FC 28
19	4/7	"	23.5	17.38	1.89		33.		.6	9		1218P 1228P	"
20	4/9	"	20.5	20.74	2.20		46.		.6	10		1050A 1100A	"
21	4/12	"	5.5	1.13	0.93		1.0		.6	4		942A 946A	"
22	4/19	"	23.5	29.29	2.06		60.		.6	10		140P 155P	"

F. C. D. FORM 104 TR 8-36

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS in RIO HONDO DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37 " " " " " 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Int.	METHOD	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
23	4/21	"	21.5	23.99	2.19		51.		.6	10		1100A 1112A	"
24	4/23	"	18.7	22.20	1.94		43.		.6	9		1110A 1120A	"
25	4/28	"	18.5	16.29	1.19		19.		.6	10		1005A 1018A	"
26	4/30	"	12.0	5.08	0.55		2.8		.6	6		1128A 1134A	"
27	5/21	Lindsay-Sawyer	23.0	13.40	1.68		22.		.6	9		300P 310P	"
28	6/7	Lindsay	19.3	20.72	2.20		46.		.6	10		1055A 1107A	"
29	6/7	Lindsay-Sawyer	19.2	19.31	2.14		41.		.6	9		155P 208P	"
		BIG SANTA ANITA DAM in Spillway											
1936-37													
1	5/20	Lindsay	Three Channels				5.9		.6	24		820A 900A	FC 28
2	5/26	Lindsay and Van der Goot	6.55	2.80	2.81		8.2		.6	9		835A 851A	"
3	6/3	Lindsay	6.35	2.63	2.58		6.8		.6	8		1201P 1216P	"
4	6/11	Dalton	6.4	2.35	2.46		5.8		.6	7		950A	FC 2
5	6/17	Lindsay	6.35	2.30	2.33		5.4		.6	8		935A 950A	FC 28
6	6/25	Dalton	6.3	2.04	1.97		4.0		.6	7		1130A	FC 2
7	7/1	Lindsay	6.25	1.98	1.60		3.0		.6	8		712A 725A	FC 28
1937-38													
8	5/5		6.35	3.86	3.82		15.		.6	8		1120A 1135A	FC 28
9	5/5		6.35	3.83	3.92		15.		.6	8		1240P 100P	"
10	5/9		6.35	3.71	3.72		14.		.6	8		1010A 1020A	"
11	5/19	Haig	6.5	2.66	3.00		8.0		.6	6		115P 130P	FC 38
12	5/26	Haig-Probst	6.4	2.59	2.75		7.1		.6	8		317P 329P	"
13	6/2	Haig	6.4	2.65	2.98		7.9		.6	5		107P 115P	"
		BIG SANTA ANITA CREEK below Santa Anita Dam											
1936-37													
1	10/8	Lindsay	4.7	2.28	1.11		2.5		.6	7		850A 900A	FC 28
1937-38													
3	5/26	Haig	Two Channels				10.		.6	10		135P 152P	FC 38
4	6/2	"	Four Channels				8.4		.6	14		1212P 1238P	"
5	6/30	Lindsay	9.6	3.48	1.00		3.5		.6	7		1035A 1045A	FC 28
		OAKWOOD SYNDICATE DIVERSION at weir box below Sanita Anita Dam											
1937-38													
1	4/28	Lindsay	Two Channels				0.85		.6	8		1255P 110P	FC 28
2	5/26	Haig	Two Channels				1.2		.6	8		1230P 1245P	FC 38
3	8/11	Lindsay	Two Channels				0.65		.6	4		845A 850A	FC 28
4	8/24	"	Two Channels				1.7		.6	4		923A 930A	"
		SANTA ANITA CREEK at mouth of canyon											
1937-38													
1	3/4	Lindsay-Ingram	48.5	45.74	7.30		334.		.6	9		305P 315P	FC 28
2	4/22	Haig	14.5	12.99	1.54		20.		.6	9		1236P 1250P	FC 38
3	4/25	"	16.0	12.32	1.50		18.		.6	10		1023A 1037A	"
3A	4/28	Lindsay	13.0	14.83	1.19		18.		.6	7		130P 140P	FC 28
4	5/2	Lindsay	16.0	14.64	1.31		19.		.6	11		1105A 1120A	FC 28
4A	5/5	"	15.0	13.50	1.18		16.		.6	11		215P 230P	"
5	5/9	"	15.3	12.56	1.10		14.		.6	11			"
6	5/12	Haig	Three Channels				20.		.6	16		201P 212P	FC 38
7	6/16	Lindsay	15.0	8.19	0.69		5.6		.6	10		1200N 1215P	FC 28
8	7/14	"	24.5	15.53	0.98		15.		.6	12		150P 148P	"
9	7/28	"	13.0	10.85	1.30		14.		.6	7		830A 840A	"
10	8/11	"	4.0	0.44	0.80		0.35		.6	4		820A 825A	"
11	8/24	"	12.0	6.13	0.56		3.4		.6	6		905A 915A	"
12	9/7	Brewster	11.0	2.67	2.38		6.2		.6	6		330P 340P	FC 8
13	9/19	Lindsay	12.5	1.67	2.08		3.5		.6	7		140P 147P	FC 28

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Int.	METHOD	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
		LITTLE SANTA ANITA CREEK 100 ft. below F. C. Dam											
1937-38													
1	5/19	Haig	2.5	0.47	1.53		0.70		.6	4		1055A 1059A	FC 38
		LITTLE SANTA ANITA CREEK above junction with Santa Anita Cr.											
1937-38													
1	3/4	Lindsay-Ingram	10.0	4.52	9.06		41.		.6	7		320P 325P	FC 28
		SANTA ANITA CREEK below Foothill Blvd. bridge											
1937-38													
1	4/8	Haig	11.5	11.19	3.15		35.		.6	9		126P 138P	FC 1
2	4/14	"	11.8	10.31	1.79		18.		.6	8		1250P 103P	"
3	4/18	"	11.6	10.14	1.99		20.		.6	12		825A 838A	"
		SANTA ANITA CREEK above Arrow Highway											
1937-38													
1	3/12	Lindsay-Ingram	36.0	11.68	3.66		43.		.6	9		310P 320P	FC 28
2	3/16	Lindsay					Est. 4.0					105P	
		EATON CREEK 1000 ft. below U.S.G.S. Station W 2											
1936-37													
1	3/23	Cole	4.0	0.99	1.03		1.0		.6	4		315P 322P	FC 36
2	4/1	"	4.0	0.98	1.06		1.0		.6	4		1013A 1020A	"
3	4/1	"	4.0	0.88	1.18		1.0		.6	4		332P 340P	"
		EATON CREEK above confluence with Eaton Cn. Dam											
1936-37													
1	3/11	Cole	10.5	5.73	0.75		3.6		.6	8		930A 943A	FC 36
2	3/11	"	7.8	3.20	0.46		1.5		.6	7		350P 400P	"
3	3/23	"	12.5	8.51	1.91		16.		.6	9		150P 200P	"
4	3/23	"	11.9	8.74	1.94		17.		.6	9		410P 420P	"
5	4/1	"	11.8	7.86	1.70		13.		.6	8		913A 923A	"
6	4/1	"	14.0	8.54	1.62		14.		.6	8		358P 412P	"
7	4/8	"	14.9	7.82	1.78		14.		.6	8		910A 925A	"
8	4/8	"	11.4	7.46	1.52		11.		.6	7		355P 405P	"
9	4/15	"	8.9	3.00	1.77		5.3		.6	9		836A 852A	"
10	4/15	"	9.9	5.10	1.14		5.8		.6	10		906A 922A	"
11	4/15	"	9.8	4.71	1.09		5.1		.6	9		410P 425P	"
12	4/22	"	8.7	4.40	0.79		3.5		.6	9		841A 857A	"
13	4/22	"	9.6	4.29	0.76		3.3		.6	9		415P 429P	"
14	5/6	"	6.7	1.73	0.41		0.70		.6	7		840A 854A	"
15	5/6	"	7.3	2.49	0.52		1.3		.6	8		410P 422P	"
16	5/20	"	8.45	3.29	0.73		2.4		.6	9		847A 900A	"
17	5/20	"					0					405P	
		EATON WASH inflow to Eaton Cn. Dam reservoir.											
1937-38													
1	5/5	Lindsay	6.8	2.83	1.26		3.6		.6	7		335P 345P	FC 28
2	5/12	Haig	Two Channels				3.7		.6	7		1035A 1047A	FC 38
3	5/19	Haig	2.0	0.24	0.92		0.22		Sur	4		1015A 1020A	FC 38
4	5/26	"	2.5	0.28	1.46		0.41		Sur	3		1023A 1028A	"
5	6/2	"					Est. 0.40					1055A	
		EATON WASH below Eaton Cn. Dam											
1936-37													
1	2/15	Cole	1.3	0.08	0.33		0.02		.6	2		1240P 1245P	FC 36
2	2/15	"	Two Channels				0.02		.6	4		445P	"
3	2/18	Hay-Fuller-Cole and Hedge	5.1	3.44	12.70		44.		Vert Vel	6		1134A 1141A	FC 36
4	2/18	Fuller-Hedge	5.0	3.34	10.93		36.		Vert Vel	6		110P 125P	Pitot
5	2/18	" "	5.1	3.33	11.90		40.		.6	6		155P 207P	FC 34
6	2/18	" "	5.1	2.76	8.70		24.		.6	6		341P 355P	"
7	2/18	" "	5.0	2.83	8.07		23.		Vert Vel	6		406P 415P	Pitot

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period Diff.	METHOD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												850A	
8	2/26	Cole	2.4	0.27	0.52		0.14		.6	4		856A	FC 36
												145P	
9	3/4	Lindsay	5.0	3.37	4.28		15.		.6	5		152P	FC 28
												835A	
10	3/11	Cole-Alderman	4.4	0.93	1.31		1.2		.6	6		850A	FC 36
												905A	
11	3/19	Cole	11.2	6.71	2.20		15.		.6	7		915A	FC 1
												110P	
12	3/23	"	5.25	2.53	5.00		13.		.6	7		127P	FC 36
												835A	
13	4/1	"	5.25	2.51	5.42		14.		.6	6		854A	"
												835A	
14	4/8	"	5.25	2.40	5.12		12.		.6	6		855A	"
							Est.						
15	4/15	"					0.10					810A	
												1005A	
16	5/27	Lindsay	4.60	1.31	3.76		4.9		.6	8		1015A	FC 28
1937-38													
												150P	
17	3/10	Lindsay-Ingram	19.0	15.35	1.92		29.		.6	9		205P	FC 28
												212P	
18	3/16	Lindsay	25.0	22.48	2.78		63.		.6	8		225P	FC 28
												1240P	
19	3/23	"	14.0	14.36	1.49		21.		.6	7		1250P	"
												1138A	
20	4/7	Haig	1.8	0.40	8.69		3.4		.6	4		1142A	FC 38
												1112A	
21	4/14	"	2.15	0.68	9.84		6.7		.6	5		1123A	FC 1
												945A	
22	4/22	"	5.3	3.06	1.29		4.0		.6	7		952A	FC 38
							Est.						
23	5/12	"					0.50					1110A	
							Est.						
24	5/19	"					0.02					1030A	
							Est.						
25	5/26	"					0.02						
							Est.						
26	6/2	"					0.02					1100A	
							Est.						
27	6/9	"					0.02					330P	
												140P	
28	6/16	Lindsay	8.9	2.25	1.77		4.0					150P	FC 28
		RIO HONDO near junction with Eaton Wash											
1936-37													
1	4/14	Brewster					0					930A	
		EL MONTE SEWER at Rio Hondo											
1936-37													
												950A	
1	4/14	Brewster	4.0	1.16	1.22		1.4		.6	4		957A	FC 8
		EL MONTE SEWER near junction with Rio Hondo											
1937-38													
												1045A	
1	10/27	Brewster	3.0	0.79	0.87		0.70		.6	3		1050A	FC 8
		RIO HONDO above junction with Tri City Sewer											
1937-38													
												1140A	
1	10/27	Brewster	2.4	1.10	0.89		1.0		.6	3		1145A	FC 8
		RIO HONDO near Garvey Ave.											
1936-37													
1	10/8	Brewster					0					833A	
2	10/15	"					0					830A	
3	10/22	"	3.0	0.57	1.40		0.80		.6	3		805A 809A	FC 8
4	10/29	"	3.0	0.80	0.68		0.55		.6	3		818A 822A	"
5	11/5	"	3.0	0.85	0.80		0.70		.6	3		825A 830A	"
6	11/12	"	3.0	0.73	1.00		0.75		.6	3		840A 845A	"
7	11/19	"	3.0	0.65	1.06		0.65		.6	3		835A 840A	"
8	11/26	"	3.0	0.65	1.06		0.70		.6	3		905A 909A	"
9	12/3	"	3.0	0.70	0.83		0.60		.6	3		844A 848A	"
10	12/10	"	3.0	0.95	1.07		1.0		.6	3		835A 842A	"
11	12/17	"	4.0	0.88	1.18		1.0		.6	4		827A 833A	"
12	12/23	"	3.0	0.83	1.10		0.90		.6	3		852A 856A	"
13	1/7	"	61.0	40.37	2.48		100.		.8	10		922A 934A	"
14	1/14	"	41.0	30.73	2.53		78.		.6	10		910A 925A	"
15	1/21	"	4.0	1.11	1.35		1.5		.6	4		928A 933A	"
16	1/28	"	4.0	1.25	1.28		1.6		.6	4		914A 920A	"
17	2/4	"	17.0	4.71	1.41		6.6		.6	6		919A 928A	"
18	2/11	"	24.0	11.52	1.92		23.		.6	6		923A 935A	"
19	2/25	Brewster	22.0	8.30	2.12		18.		.6	7		852A 904A	FC 8
20	3/4	"	Two Channels				66.		.6	10		900A 915A	"
21	3/11	"	Two Channels				66.		.6	12		910A 925A	"
22	3/25	"	106.0	138.1	4.13		558.		.6	11		800A 830A	"

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period Diff.	METHOD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												830A	
23	4/1	"	40.0	27.9	2.25		63.		.6	10		850A	"
												810A	
24	4/8	"	38.0	29.2	3.60		105.		.6	10		825A	"
												1010A	
25	4/14	"	8.0	2.12	1.51		3.2		.6	4		1017A	"
												855A	
26	4/22	"	32.0	19.48	2.22		43.		.6	8		910A	"
												835A	
27	4/29	"	20.0	12.44	1.93		24.		.6	5		850A	"
												840A	
28	5/6	"	64.0	22.62	1.66		38.		.6	7		856A	"
												825A	
29	5/13	"	36.0	11.56	1.71		20.		.6	7		837A	"
												830A	
30	5/20	"	32.0	11.88	1.48		18.		.6	7		842A	"
												836A	
31	5/27	"	18.0	5.04	1.52		7.7		.6	5		848A	"
												840A	
32	6/3	"	3.0	0.64	0.92		0.60		.6	3		843A	"
												830A	
33	6/10	"	10.0	2.54	0.71		1.8		.6	3		836A	"
												836A	
34	6/17	"	4.0	1.05	1.11		1.2		.6	4		842A	"
												841A	
35	6/24	"	4.0	1.15	1.12		1.3		.6	4		848A	"
												841A	
36	7/1	"	4.0	1.13	1.13		1.3		.6	4		848A	"
												827A	
37	7/8	"	4.0	1.03	1.09		1.1		.6	4		834A	"
												824A	
38	7/15	"	3.0	0.88	1.11		1.0		.6	3		829A	"
												824A	
39	7/22	"	3.0	0.93	1.17		1.1		.6	3		830A	"
												950A	
40	7/29	"	4.0	0.93	1.16		1.1		.6	4		956A	"
												805A	
41	8/5	"	4.0	1.22	1.21		1.5		.6	4		812A	"
												828A	
42	8/12	"	3.0	0.90	1.19		1.1		.6	3		835A	"
												823A	
43	8/19	Lindsay	8.0	0.90	0.67		0.60		.6	4		828A	FC 28
												820A	
44	8/26	"	6.0	0.93	0.77		0.70		.6	5		826A	"
												831A	
45	9/2	Brewster	4.0	1.32	1.12		1.5		.6	4		840A	FC 8
												826A	
46	9/8	"	4.0	1.28	1.21		1.6		.6	4		833A	"
												835A	
47	9/16	"	4.0	1.30	1.08		1.4		.6	4		842A	"
												836A	
48	9/23	"	3.0	1.24	1.30		1.6		.6	3		842A	"
												836A	
49	9/30	"	3.0	1.13	1.01		1.1		.6	3		842A	"
		RIO HONDO near Garvey Ave.											
1937-38													
												830A	
50	10/7	Brewster	2.1	0.81	1.17		0.95		.6	3		835A	FC 8
												837A	
51	10/14	"	3.0	0.96	0.91		0.85		.6	3		844A	"
												820A	
52	10/21	"	3.0	1.13	0.86		0.95		.6	3		826A	"
												1115A	
53	10/27	"	2.4	0.88	0.60		0.55		.6	3		1120A	"
												828A	
54	10/28	"	3.0	1.07	0.65		0.70		.6	3		832A	"
												826A	
55	11/4	"	1.5	0.80	0.92		0.75		.6	3		831A	"
												840A	
56	11/10	"	3.0	1.24	0.69		0.85		.6	3		845A	"
												840A	
57	11/18	"	3.0	0.91	0.91		0.75		.6	3		846A	"
												836A	
58	11/24	"	3.0	0.89	0.94		0.85		.6	3		840A	"
												834A	
59	12/2	"	1.5	1.02	0.93		0.95		.6	3		838A	"
												820A	
60	12/9	"	3.0	1.17	0.86		1.0		.6	3		826A	"
												820A	
61	12/16	"	6.0	1.90	0.69		1.3		.6	4		826A	"
												820A	
62	12/23	"	20.0	12.12	1.74		21.		.6	7		830A	"
												840A	
63	12/30	"	3.0	1.07	1.57		1.7		.6	3		845A	"
												820A	
64	1/6	Brewster	3.0	1.27	1.39		1.8		.6	3		826A	FC 8
												832A	
65	1/13	"	4.0	1.33	1.29		1.7		.6	4		838A	"
												842A	
66	1/20	"	8.0	1.52	1.41		2.1		.6	4		848A	"
												828A	
67	1/27	"	5.0	1.26	1.36		1.7		.6	5		835A	"
												830A	
68	2/10	"	30.0	14.48	2.04		29.		.6	8		840A	"
												824A	
69	2/17	"	23.0	10.43	1.61		17.		.6	7		833A	"
												824A	
70	2/24	"	12.0	3.21	1.24		4.0		.6	4		830A	"
												825A	
71	4/28	"	12.0	4.28	1.16		5.0		.6	6		835A	"
												832A	
72	5/5	"	10.0	3.90	1.36		4.1		.6	5		841A	"
												836A	
73	5/12	"	10.0	2.28	1.06		2.4		.6	5		842A	"
												835A	
74	5/19	"	9.0	2.76	1.28		3.5		.6	5		845A	"
												820A	
75	5/26	"	11.0	2.77	1.25		3.5		.6	5		827A	"
												820A	
76	6/2	"	12.0	3.76	0.95		3.6		.6	6		830A	"
												830A	
77	6/9	"	12.0	3.16	1.16		3.7		.6	6		840A	"
												840A	
78	6/16	"	9.0	2.55	1.15		2.9		.6	5		848A	"
												830A	
79	6/23	"	9.0	2.23	1.08		2.4		.6	5		840A	"
												840A	
80	6/30	"	8.0	2.44	1.20		2.9		.6	4		846A	"
												830A	
81	7/7	"	8.0	2.32	0.94		2.2		.6	4		838A	"
												818A	
82	7/14	"	54.0	20.78	1.45		30.		.6	8		830A	"

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS of in RIO HONDO DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37
" " " " " " 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Dif.	METH OD	MEAS. RECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
83	7/20	"	5.0	1.70	0.99		1.7		.6	5		828A 834A	"
84	7/28	"	89.0	70.54	2.32		164.		.6	10		820A 840A	"
85	8/4	"	65.0	56.70	2.00		113.		.6	7		815A 830A	"
86	8/11	"	Two Channels				133.		.6	11		810A 828A	"
87	8/18	"	Two Channels				102.		.6	11		805A 825A	"
88	8/25	Brewster	47.0	28.21	2.54		72.		.6	10		820A 840A	FC 8
89	9/1	"	90.0	39.26	1.76		69.		.5	10		910A 925A	"
90	9/8	"	Two Channels				5.6		.8	9		810A 830A	"
91	9/15	Lindsay	10.0	2.23	2.02		4.5		.6	5		753A 800A	FC 28
92	9/22	"	17.0	3.25	1.30		4.2		.6	7		810A 820A	"
93	9/29	Brewster	Two Channels				2.4		.6	7		812A 824A	FC 8
		RUBIO WASH at junction with Rio Hondo											
1936-37													
1	4/14	Brewster	8.0	3.28	0.47		1.5		.6	4		840A 846A	FC 8
		ALHAMBRA WASH at junction with Rio Hondo											
1937-38													
1	12/23	Brewster	7.0	3.73	1.76		6.6		.6	4		902A 908A	FC 8
		RIO HONDO at Downey Road, Vernon											
1936-37													
1	1/7	Jordan	29.	11.60	1.42		17.		.6	8		320P 340P	FC 21
2	1/12	"	10.	3.24	1.45		5.0		.6	7		830A 845A	"
		RIO HONDO at Clara St., Downey											
1936-37													
1	2/23	Bonadiman	17.	5.03	0.95		4.8		.6	6		328P 337P	FC 9
1937-38													
1	2/25	Jordan	20.5	6.40	1.21		7.7		.6	11		200P 215P	FC 21

F. C. D. FORM 104 1M 8-38

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, 19 37
" " " " " " 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Dif.	METH OD	MEAS. RECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
		SAN GABRIEL RIVER - W. FORK near Valley Forge Lodge											
1937-38													
1	10/24	DeVore-DeVore	3.5	0.94	0.17		0.16		.6	6		416P 424P	FC 32
2	11/25	DeVore	4.6	1.71	0.15		0.26		.6	8		345P 358P	"
3	2/23	DeVore-DeVore	4.7	1.69	1.15		1.9		.6	9		309P 319P	"
		DEVILS CREEK 150 ft. above junction with W. Fork											
1937-38													
1	10/18	Moon	1.2	0.25	1.00		0.25		.6	3		150P 155P	FC 26
		SAN GABRIEL RIVER - W. FORK 200 ft. below Devils Creek											
1937-38													
1	10/18	Moon	2.7	0.47	2.49		1.2		.6	5		200P 205P	FC 26
		SAN GABRIEL RIVER - W. FORK side canyons below S. G. Dam No. 2											
1936-37													
1	2/14	Waddicor-Moon	5.0	1.71	3.06		5.2		F1	10		1035A	
1937-38													
1A	3/3	Moon- M. Wood	2.4	3.03	3.89		12.		.6	4		1137A 1146A	FC 5
2	3/4	" "	2.3	1.34	4.66		6.2		.6	5		1049A 1100A	"
3	3/5	Moon-Godfrey	2.3	0.89	3.48		3.1		.6	6		1108A 1115A	"
4	3/7	Moon	4.0	1.49	0.78		1.2		.6	7		900A 910A	"
5	3/9	Moon	3.6	1.11	0.65		0.70		.6	8		300P 310P	FC 5
6	3/10	"	1.4	0.84	0.86		0.70		.6	3		920A 925A	"
7	3/11	"	1.3	0.77	0.65		0.50		.6	3		950A 1000A	"
8	3/12	"	3.0	0.98	1.84		1.8		.6	5		135P 145P	"
9	3/13	"	4.2	1.13	1.54		1.8		.6	6		145P 155P	"
10	3/14	"	2.8	1.05	1.23		1.4		.6	5		935A 945A	"
11	3/15	Moon-M. Wood	2.8	0.99	1.17		1.2		.6	6		848A 858A	"
12	3/17	Moon	2.8	0.91	0.99		0.90		.6	5		815A 822A	"
13	3/18	"	2.8	0.87	0.93		0.80		.6	5		900A 910A	FC 20
14	3/19	Godfrey	4.4	0.89	0.67		0.60		.6	7		1038A 1048A	FC 5
15	3/21	Moon	2.8	0.81	0.69		0.55		.6	5		950A 1000A	FC 20
16	3/22	"	2.6	0.77	0.61		0.43		.6	5		915A 925A	"
17	3/23	Godfrey	3.9	0.70	0.46		0.32		.6	5		920A 930A	FC 5
18	3/24	"	3.8	0.69	0.37		0.26		.6	5		820A 830A	"
19	3/25	"	3.8	0.64	0.37		0.24		.6	4		824A 834A	"
20	3/26	"	3.8	0.61	0.39		0.24		.6	4		838A 846A	"
21	3/27	"	3.6	0.54	0.32		0.17		.6	4		840A 848A	"
22	3/28	"	3.6	0.52	0.29		0.15		.6	4		828A 834A	"
23	3/29	Moon	1.8	0.39	0.18		0.07		.6	3		145P 150P	FC 20
24	3/30	"	2.0	0.23	0.30		0.07			4		920A 930A	"
25	3/31	Godfrey	1.0	0.08	0.25		0.02		.6	2		145P 147P	FC 5
26	4/1	"	1.0	0.07	0.29		0.02		.6	2		844A 845A	"
		SAN GABRIEL RIVER - W. FORK below S. G. Dam No. 2											
1937-38													
1	12/20	Turner	Two Channels				5.3		.6	8		1050A 1100A	FC 5
2	4/26	Moon-Godfrey	2.7	0.28	1.64		0.46		F1	5		845A 850A	
3	5/3	" "	2.7	0.31	2.42		0.75		F1	5		310P 315P	
4	5/10	" "	2.8	0.34	1.76		0.60		F1	5		130P 140P	
5	5/17	Godfrey-Moon	2.9	0.28	1.72		0.48		F1	5		930A 935A	
6	5/24	Godfrey	2.9	0.27	1.85		0.50		F1	5		1100A 1105A	
7	6/3	"	2.4	0.24	2.38		0.60		F1	5		830A 837A	
8	9/30	"	2.2	0.21	2.38		0.50		F1	5		1110A 1120A	
		SAN GABRIEL RIVER - W. FORK above Bear Creek											
1937-38													
1	5/18	Brown	37.0	21.80	1.31		28.		.6	12		1137A 1155A	FC 29
2	5/28	"	36.2	21.20	1.27		27.		.6	12		1132A 1151A	"
3	6/1	"	35.5	20.15	1.22		25.		.6	12		311P 328P	"
4	6/8	"	20.3	19.96	1.25		25.		.6	9		1125A 1139A	"
		BEAR CREEK above San Gabriel River - W. Fork											
1937-38													
1	3/11	Brown-Ash	29.7	38.57	4.36		167.		.6	11		1203P 1217P	FC 29
2	3/23	" "	29.0	36.96	3.60		132.		.6	12		336P 351P	FC 16
3	4/24	Brown	25.7	29.80	1.62		48.		.6	12		1100A 1115A	FC 29
4	5/4	"	24.7	28.57	1.44		41.		.6	12		154P 209P	"
5	5/12	Brown	24.9	27.01	1.22		33.		.6	11		1022A 1037A	FC 29
6	5/16	"	24.3	26.63	1.10		29.		.6	12		1107A 1126A	"
7	5/25	"	23.7	25.90	0.96		25.		.6	11		1104A 1120A	"
8	6/1	"	23.0	25.19	0.79		20.		.6	11		232P 248P	"
9	6/8	"	23.2	24.09	0.79		19.		.6	11		1053A 1108A	"
		SAN GABRIEL RIVER - W. FORK between Bear Cr. and North Fork											
1937-38													
1	3/11	Brown-Ash	55.5	66.98	4.97		328.		.6	15		146P 209P	FC 29

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Percent Diff.	METH OD	MEAS. REC'S. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	SAN GABRIEL RIVER - N. FORK above junction with W. Fork												
1937-38													
1	3/11	Brown-Ash	Two Channels				148.		.6	19		258P 326P	FC 29
2	3/23	" "	25.5	30.66	4.17		126.		.6	12		113P 129P	FC 18
3	4/25	Brown	19.8	18.94	3.80		67.		.6	10		1028A 1043A	FC 29
4	5/3	"	15.3	14.93	3.60		54.		.6	11		1007A 1025A	"
5	5/11	"	15.5	13.12	3.32		44.		.6	13		1100A 1118A	"
6	5/18	"	14.5	11.95	3.23		39.		.6	13		957A 1015A	"
7	5/25	"	14.3	11.45	3.02		35.		.6	12		944A 1000A	"
8	6/1	"	13.9	10.24	2.82		29.		.6	12		127A 142A	"
9	6/8	"	14.2	10.48	2.78		29.		.6	13		945A 1004A	"
	DEVILS CANYON above San Gabriel River - E. Fork												
1936-37													
1	10/23	Cooper-DeVore	1.7	0.33	0.64		0.21		.6	4		405P 410P	FC 11
	CAPE HORN CANYON 800 ft. above San Gabriel River - E. Fork												
1936-37													
1	10/21	Cooper-DeVore					0					420P	
	OAK CANYON above San Gabriel River - E. Fork												
1936-37													
1	10/23	Cooper-DeVore					0					225P	
2	3/16	DeVore	6.0	2.46	2.47		6.1					315P 328P	FC 32
	CATTLE CANYON above San Gabriel River - E. Fork												
1936-37													
1	10/23	Cooper-DeVore	7.1	2.65	0.81		2.2		.6	7		246P 256P	FC 11
	WILLIAMS CANYON above San Gabriel River - E. Fork												
1936-37													
1	10/23	Cooper-DeVore					0					205P	
	GRAVEYARD CANYON above San Gabriel River - E. Fork												
1936-37													
1	10/21	Cooper-DeVore					0					345P	
2	1/29	DeVore-DeVore	4.9	1.86	0.69		1.3		.6	10		350P 404P	FC 32
3	3/13	" "	16.3	10.07	2.65		27.		.6	12		428P 445P	"
	SUSANNA CANYON above San Gabriel River - E. Fork												
1936-37													
1	10/21	Cooper-DeVore					0					315P	
2	1/29	DeVore-DeVore	5.1	1.49	0.59		0.90		.6	9		305P 316P	FC 32
3	3/13	DeVore	11.0	7.62	2.62		21.		.6	10		232P 249P	"
	HORSE CANYON above San Gabriel River - E. Fork												
1936-37													
1	10/21	Cooper-DeVore					.003 Volumetric					450P	
2	3/16	DeVore-DeVore	11.0	3.98	2.81		11.		.6	11		235P 251P	FC 32
	BURRO CANYON above San Gabriel River - E. Fork												
1936-37													
1	10/21	Cooper-DeVore					0					260P	
2	1/29	DeVore-DeVore	2.5	0.69	0.77		0.55		.6	5		218P 224P	FC 32
3	3/13	DeVore	10.0	6.06	2.09		13.		.6	10		125P 141P	"
	SAN GABRIEL RIVER - E. FORK above Cattle Canyon												
1936-37													
1	10/23	Cooper-DeVore	18.8	16.94	0.78		13.		.6	13		308P 324P	FC 11
	SAN GABRIEL RIVER - E. FORK 1/2 mile above Forks												
1937-38													
1	3/22	Brown-Ash	Three Channels				594.		.6	32		846A 927A	FC 29
2	3/23	Brown-Ash	Three Channels				569.		.6	33		851A 935A	FC 18
	SAN GABRIEL RIVER - W. FORK one mile below Camp Rincon												
1937-38													
1	3/30	Brown-Ash	88.2	104.8	4.06		425.		.6	22		846A 915A	FC 29
	SAN GABRIEL RIVER one mile below Forks												
1937-38													
1	1/12	DeVore-Cooper	46.0	55.43	0.89		49.		.6	13		1010A 1034A	FC 11
2	1/13	Cooper-DeVore	45.5	53.70	0.92		50.		.6	13		1000A 1019A	"
3	1/14	Cooper	46.3	55.25	0.89		49.		.6	13		1025A 1045A	"
4	1/15	"	50.0	103.8	2.09		217.		.6	14		1012A 1030A	"
5	1/16	Brown	54.7	97.67	1.86		182.		.6	12		859A 921A	"
6	1/17	"	50.1	81.55	1.50		123.		.6	13		817A 837A	"
7	1/18	"	49.3	74.81	1.33		99.		.6	13		753A 814A	"
8	1/19	"	49.2	73.90	1.33		98.		.6	13		806A 826A	"
9	1/20	"	48.8	72.32	1.26		92.		.6	13		814A 836A	FC 18
10	1/21	"	48.3	68.99	1.16		80.		.6	13		804A 825A	"
11	1/22	DeVore	47.8	67.17	1.16		78.		.6	13		927A 950A	FC 32
12	1/23	Brown	47.7	66.27	1.13		75.		.6	13		1004A 1024A	FC 18
13	1/24	"	47.7	66.34	1.06		71.		.6	13		1013A 1033A	"
14	1/25	"	47.6	65.46	1.07		70.		.6	13		809A 830A	"
15	1/26	"	47.6	64.78	1.02		66.		.6	13		757A 817A	"
16	1/27	"	47.4	64.17	0.99		63.		.6	13		810A 830A	"
17	1/28	Cooper-DeVore	46.6	61.91	1.01		63.		.6	13		1152A 1208P	FC 18
18	1/29	DeVore-Brown	47.0	63.50	1.06		67.		.6	13		230P 248P	"
19	1/30	Brown	47.1	64.37	1.04		67.		.6	13		800A 819A	"
20	1/31	"	47.0	63.41	0.96		61.		.6	13		1022A 1040A	"
21	2/1	"	56.7	120.7	2.73		330.		.6	13		1010A 1028A	"
22	2/2	"	52.0	85.25	1.58		135.		.6	14		928A 949A	"
23	2/3	"	52.2	86.21	1.64		140.		.6	13		812A 833A	"
24	2/5	Brown-DeVore	55.0	128.2	3.27		420.		.6	12		109P 127P	"
25	2/6	Brown-Cooper	56.5	111.0	2.73		303.		.6	12		820A 840A	"
26	2/7	Brown	55.6	101.3	2.51		255.		.6	14		906A 929A	"
27	2/8	"	55.5	95.43	2.32		221.		.6	14		857A 918A	"
28	2/9	Brown-Cooper	58.5	109.5	2.79		305.		.6	12		942A 1000A	FC 11
29	2/10	Brown	58.3	124.6	3.18		396.		.6	13		814A 838A	FC 18
30	2/11	Brown-Cooper	57.7	116.2	3.15		368.		.6	12		756A 812A	"
31	2/13	" "	106.7	158.3	3.64		576.		.6	23		1040A 1118A	"
32	2/14	Brown	107.0	140.9	3.21		452.		.6	24		1010A 1052A	"
33	2/15	"	106.4	132.2	3.12		413.		.6	24		912A 950A	"
34	2/16	"	91.7	113.8	2.97		337.		.6	23		920A 952A	"
35	2/17	"	Two Channels				315.		.6	23		829A 910A	"
36	2/18	Cooper	Two Channels				275.		.6	20		1045A 1125A	FC 11
37	2/19	Brown-DeVore	Two Channels				327.		.6	19		1058A 1151A	FC 18
38	2/20	Brown	Two Channels				290.		.6	20		840A 920A	"
39	2/21	"	Two Channels				276.		.6	20		732A 812A	"
40	2/23	"	47.2	63.72	4.20		268.		.6	13		921A 945A	"
41	2/23	DeVore-Brown	Two Channels				248.		.6	25		1118A 1202P	FC 18
42	2/24	Brown	Two Channels				263.		.6	25		920A 1004A	"
43	2/25	Cooper	42.0	67.58	3.76		254.		.6	12		930A 950A	FC 11
44	2/26	DeVore-DeVore	Two Channels				236.		.6	25		1153A 1238P	"
45	2/27	Brown-Middleton	Two Channels				274.		.6	25		827A 906A	FC 29
	SAN GABRIEL RIVER near Relay Station												
1937-38													
1	12/29	Brown-DeVore	46.9	55.50	1.30		72.		.6	14		950A 1007A	FC 10
2	12/30	Cooper	46.8	55.04	1.24		68.		.6	14		910A 930A	FC 11
3	12/31	DeVore	46.8	53.93	1.20		64.		.6	14		1139A 1202P	"
4	1/1	Cooper	46.5	53.22	1.17		62.		.6	14		1222P 1242P	"
5	1/1	Brown	46.6	52.69	1.16		61.		.6	14		113P 133P	FC 10
6	1/2	"	46.6	52.91	1.12		59.		.6	14		1110A 1130A	"
7	1/3	Cooper	46.7	53.33	1.14		61.		.6	14		1040A 1100A	FC 11

F. C. D. FORM 104 1M 9-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS in SAN GABRIEL RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1937
" " " " " " 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Passes Bet.	METH OD	MEAS REC'S NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
8	1/4	Brown-Cooper	46.7	52.28	1.12		59.		.6	14		1010A 1030A	"
9	1/5	" "	46.6	52.20	1.08		56.		.6	14		920A 940A	"
10	1/6	Cooper-DeVore	46.7	52.51	1.06		56.		.6	14		929A 949A	"
11	1/7	Cooper-Brown	46.6	52.16	1.06		55.		.6	14		1000A 1020A	"
12	1/8	DeVore-DeVore	45.8	50.83	1.04		53.		.6	14		113P 132P	FC 32
13	1/9	Brown-Penrod	46.3	50.79	1.03		52.		.6	14		1025A 1043A	FC 10
14	1/10	Brown	46.3	50.40	1.00		51.		.6	14		1040A 1100A	"
15	1/11	"	46.0	50.42	1.01		51.		.6	14		854A 916A	"
		POLE CAT GULCH near Edison Intake San Gabriel Canyon											
1936-37													
1	3/31	Cooper-Brown	4.1	1.33	1.25		1.7		.6	6		850A 858A	FC 11
2	4/7	" "	4.1	1.21	1.07		1.3		.6	7		857A 907A	"
3	4/26	" "	4.2	1.15	0.53		0.60		.6	7		920A 930A	"
4	5/3	" "	4.0	0.98	0.46		0.45		.6	6		815A 821A	"
5	5/17	Brown-Green	3.7	0.66	0.50		0.33		.6	7		138P 151P	FC 10
6	7/27	Brown	1.0	0.06	0.60		0.04		.6	3		251P 255P	FC 11
7	8/17	"	1.1	0.05	0.26		0.02			3		1045A	FC 10
8	8/27	"	0.6	0.03	0.36		0.01		.6	2		1145A 1154A	"
		SAN GABRIEL - BROWN'S GULCH near San Gabriel Dam No. 1											
1936-37													
1	10/6	Cooper					.005		Weir			440P	
2	10/6	Cooper					.008		Volumetric			455P	
3	10/15	Reber-DeVore					.009		Volumetric			357P	
4	10/21	Cooper-DeVore					.01		Volumetric			1145A	
5	10/21	" "					.006		Weir			1150A	
6	10/29	Cooper					0.01		Volumetric			325P	
7	11/4	"					0.04		Volumetric			145P	
8	11/12	DeVore-Reber					0.08		Weir			225P	
9	11/19	Cooper					0.07		Weir			415P	
10	11/25	Reber-DeVore					0.06		Weir			315P	
11	12/2	Reber					0.06		Volumetric			1125A	
12	12/9	Reber-DeVore					0.07		Volumetric			355P	
13	12/16	Cooper	5.0	1.23	1.58		2.0		Fl	5		240P 250P	
14	1/13	DeVore	6.0	2.52	0.81		2.0		.6	6		348P 400P	FC 11
15	1/26	DeVore-Bartlett	5.3	1.69	0.51		0.85		.6	10		351P 407P	"
16	1/29	Cooper-Brown	5.3	1.78	0.82		1.5		.6	9		1213P 1225P	"
17	2/17	DeVore-Cooper	9.3	6.66	1.88		13.		.6	10		325P 338P	FC 10
18	3/9	DeVore-Brown	6.7	3.16	0.72		2.3		.6	11		248P 305P	FC 11
19	4/8	Brown	6.0	3.20	1.38		4.4		.6	6		1111A 1122A	FC 10
20	4/12	Cooper-Brown	5.1	2.04	1.52		3.1		.6	9		438P 447P	FC 11
21	5/17	Brown-Green	4.6	1.56	0.76		1.2		.6	8		1140A 1152A	FC 10
22	6/25	DeVore-Cooper	1.3	0.20	1.40		0.28		Fl	4		445P 450P	
23	7/27	Brown	1.8	0.20	0.60		0.12		.6	4		213P 219P	FC 11
24	8/11	"	1.8	0.15	0.59		0.09		.6	5		339P 345P	FC 10
25	8/17	"	1.6	0.11	0.48		0.05		.6	4		940A	"
26	8/27	"	1.4	0.09	0.46		0.04		.6	4		1102A 1106A	"
27	9/21	"	1.1	0.05	0.23		0.01		.6	3		320P 325P	"
1937-38													
28	6/8	Brown-Middleton	1.7	0.31	1.32		0.41		.6	6		349P 358P	FC 29
29	6/21	Brown	2.0	0.32	1.14		0.36		.6	5		220P 228P	"
		SAN GABRIEL - BROWN'S GULCH DIVERSION into sump below S.G.Dam No. 1											
1936-37													
1	1/29	Cooper-Brown	4.3	1.49	0.79		1.2		.6	7		1154A 1204P	FC 11
2	3/9	DeVore-Brown	3.8	1.45	0.99		1.4		.6	6		212P 220P	"
3	4/8	Brown	2.9	0.57	1.32		0.75		.6	6		1036A 1047A	FC 10
4	5/17	Brown-Green	2.7	0.52	0.79		0.41		.6	5		1113A 1120A	"
		SPILLWAY DISCHARGE SAN GABRIEL DAM NO. 1 near mouth of Brown's Gulch											
1937-38													
1	3/10	Fricker-Cooper and Ash	148.0	432.4	1.75		755.		.6	15		307P 403P	FC 11
2	3/14	Cooper-Ash	149.0	429.9	1.55		665.		.6	15		446P 509P	"
3	3/15	Cooper-Brown	146.0	359.3	1.19		427.		.6	15		430P 453P	"
4	3/16	Brown-Ash	114.0	206.5	0.68		141.		.6	16		301P 329P	"
		SAN GABRIEL DAM NO. 1 at tunnel outlet											
1937-38													
1	11/21	Cooper	11.0	9.22	3.36		31.		.6	11		310P 335P	FC 29
2	1/1	Brown	13.2	33.43	3.47		116.		.6	14		355P 430P	FC 10
3	1/2	Brown-Cooper	13.3	34.14	3.43		117.		.6	14		150P 220P	FC 11
4	1/8	Brown-DeVore	13.1	31.79	3.28		104.		.6	14		1118A 1146A	"
5	1/9	Brown	13.1	31.45	3.39		107.		.6	14		211P 246P	FC 10
		SAN GABRIEL RIVER below 30 ft. outlet tunnel San Gabriel Dam No. 1											
1937-38													
1	1/14	DeVore-Cooper	26.0	38.66	3.57		138.		.6	9		145P 200P	FC 11
2	1/14	" "	24.4	25.84	4.92		127.		.6	12		300P 320P	FC 11
3	1/15	Cooper	29.5	25.61	4.86		124.		.6	11		1220P 1242P	"
4	1/17	Brown-Cooper	14.6	10.79	2.95		32.		.6	9		414P 428P	"
5	1/19	Brown-DeVore	31.1	28.73	3.66		105.		.6	16		1118A 1139A	FC 11
6	1/20	Cooper	24.5	19.66	2.44		48.		.6	11		955A 1015A	"
7	1/20	"	36.0	27.99	2.50		70.		.6	13		1142A 1200N	"
8	1/20	"	36.5	31.85	3.28		104.		.6	12		215P 235P	"
9	1/21	DeVore-Cooper	36.5	29.63	2.78		82.		.6	15		428P 450P	"
10	1/22	DeVore	36.0	28.05	2.87		80.		.6	14		402P 422P	FC 32
11	1/23	Brown	31.5	25.27	3.21		81.		.6	16		132P 158P	FC 18
12	1/24	Cooper-Brown	38.0	35.95	2.81		101.		.6	14		311P 332P	FC 11
13	1/24	Brown-Cooper	37.8	35.71	2.69		96.		.6	14		415P 436P	"
14	1/24	Cooper-Brown	38.0	35.58	2.73		97.		.6	14		437P 457P	"
15	1/25	DeVore	37.2	34.18	2.57		88.		.6	18		1230P 100P	"
16	1/26	Brown-DeVore	36.8	33.49	2.46		82.		.6	14		100P 120P	FC 18
17	1/27	Brown	36.7	33.18	2.46		82.		.6	15		417P 440P	"
18	1/28	Cooper-DeVore	36.6	30.95	2.29		71.		.6	15		340P 358P	FC 11
19	1/29	DeVore-Brown	36.0	29.57	2.23		66.		.6	14		428P 445P	FC 18
20	1/30	Brown	35.0	25.02	1.87		47.		.6	15		400P 420P	"
21	1/31	Brown-Cooper	31.7	17.98	1.13		20.		.6	15		235P 255P	FC 11
22	2/1	" "	36.0	33.01	1.98		65.		.6	16		1205P 1225P	"
23	2/2	Brown-DeVore	38.3	37.87	3.20		121.		.6	17		301P 323P	FC 18
24	2/3	Cooper	38.0	37.59	3.36		126.		.6	14		350P 410P	FC 11
25	2/4		36.5	31.81	3.04		97.			14		305P 335P	
26	2/5	DeVore-Cooper	36.5	32.26	3.13		101.		.6	14		435P 452P	FC 11
27	2/6	Brown	36.0	33.05	3.12		103.		.6	15		506P 526P	FC 18
28	2/7	Brown-Cooper	36.8	35.49	3.30		117.		.6	15		220P 240P	FC 11
29	2/8	Cooper-DeVore	36.5	32.47	2.96		96.		.6	14		124P 145P	FC 11
30	2/8	" "	38.9	43.06	3.98		171.		.6	15		326P 347P	"
31	2/9	Cooper	39.5	43.82	4.22		185.		.6	15		432P 455P	"
32	2/10	Cooper-DeVore	40.7	52.18	4.99		260.		.6	13		418P 430P	"
33	2/13	Brown	35.0	34.10	3.43		117.		.6	17		348P 412P	FC 18
34	2/14	"	39.0	40.11	3.02		121.		.6	13		550P 613P	FC 11
35	2/15	Brown-DeVore	47.3	56.55	4.77		270.		.6	16		1114A 1137A	"
36	2/16	" "	45.0	63.21	3.53		223.		.6	15		202P 226P	"
37	2/17	" "	45.2	62.74	3.59		225.		.6	15		337P 359P	FC 18
		SAN GABRIEL N. QUARRY CREEK 50 ft. S. of Azusa Sandbox											
1936-37													
1	10/6	Cooper					+		Volumetric			315P	
2	10/15	DeVore					+		Volumetric			159P	
3	10/21	DeVore-Cooper					+		Volumetric			1210P	

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Adding Factors Int.	METH OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
		SAN GABRIEL RIVER above Azusa - Duarte tunnel diversion											
1937-38													
1	7/12	Lindsay	51.0	62.97	3.29		208.		.6	15		935A 955A	FC 29
2	7/13	"	46.0	61.83	3.11		192.		.6	17		835A 900A	"
3	7/15	"	Two Channels				200.		.6	17		600A 625A	"
4	7/18	"	33.0	31.48	1.84		58.		.6	12		805A 820A	"
5	7/20	"	30.0	15.00	0.71		11.		.6	12		110P 125P	"
6	7/21	"	Three Channels				337.		.6	22		652A 725A	"
7	7/21	"	Three Channels				361.		.6	22		1037A	"
8	7/22	"	Three Channels				403.		.6	19		615A 650A	"
9	7/25		Three Channels				394.		.6	19		707A 745A	"
10	7/27	Lindsay	Three Channels				381.		.6	18		617A 650A	"
11	7/29	"	Three Channels				369.		.6	18		618A 650A	"
12	8/1	"	Three Channels				336.		.6	19		625A	"
13	8/3	"	Three Channels				347.		.6	19		630A 700A	"
14	8/5	"	Three Channels				347.		.6	19		615A 650A	"
15	8/8	"	Three Channels				353.		.6	19		745A 815A	"
16	8/12	"	Three Channels				281.		.6	18		635A 735A	"
17	8/12	"	Three Channels				270.	.2 .9		18		635A 735A	"
18	8/15	"	Three Channels				285.		.6	18		650A 725A	"
19	8/19	Lindsay	Three Channels				253.		.6	17		630A 705A	FC 28
20	8/22	"	Three Channels				256.		.6	17		630A 700A	"
21	8/25	"	Three Channels				232.		.6	17		633A 705A	"
22	9/7	Brewster	14.0	27.17	2.77		75.		.6	9		830A 845A	FC 8
23	9/16	Lindsay	34.0	41.37	2.62		109.		.6	11		800A 818A	FC 28
		SAN GABRIEL RIVER below Azusa - Duarte tunnel diversion											
1936-37													
1	12/23	Lindsay	20.0	14.70	0.82		12.		.6	7		834A 840A	FC 28
1937-38													
1A	6/9	Haig					0					1240P	
		OLD DUARTE DITCH below headgate											
1936-37													
1	12/23	Lindsay	5.8	6.45	2.26		15.		.6	6		812A 820A	FC 28
2	1/21	"	5.6	5.75	2.35		14.		.6	6		220P 230P	"
3	5/6	"	5.1	4.72	3.24		15.		.6	5		297P 307P	"
1937-38													
4	1/13	Lindsay	6.0	4.64	2.02		9.4		.6	7		250P 300P	FC 28
		AZUSA - DUARTE TUNNEL DIVERSION											
1937-38													
1	6/1	Haig	5.4	12.70	2.58		33.		.6	6		316P 331P	FC 38
2	6/9	"	5.7	14.30	2.95		42.		.6	7		1217P 1259P	"
		OLD DUARTE DITCH below diversion to E. side											
1936-37													
1	1/6	Lindsay and McArthur	3.0	1.42	4.74		6.7		.6	4		410P 415P	FC 28
2	1/21	Lindsay	3.0	1.44	3.63		5.2		.6	4		235P 240P	"
		OLD DUARTE DITCH below diversion to San Gabriel Spreading Grounds											
1936-37													
1	12/23	Lindsay	3.7	3.25	1.95		6.4		.6	5			FC 28
		SAN GABRIEL SPREADING CANAL at lower weir											
1936-37													
1	1/21	Lindsay	4.4	2.17	0.89		1.9		.8	4		325P 330P	FC 28
1937-38													
2	6/1	Haig	3.5	1.79	1.29		2.3		.6	4		215P 223P	FC 38
3	6/9	"	4.5	1.21	1.94		2.4		.6	4		1130A 1136A	"
		SAN GABRIEL RIVER - SOUTH QUARRY CREEK DIVERSION 3/10 mi. below S. G. Dam No.1											
1936-37													
1	10/15	Reber-DeVore					0					310P	
2	10/21	Cooper-DeVore					0					1231P	
3	11/4	Cooper-Reber and DeVore					0					227P	
4	11/12	DeVore-Reber					0						
5	11/19	Reber					0					450P	
6	11/25	Reber-DeVore					0					200P	
7	12/2	Reber					0					1108A	
8	12/9	Reber-DeVore					0					323P	
		SAN GABRIEL RIVER S. QUARRY ½ mi. below S. G. Dam No. 1											
1936-37													
1	10/6	Cooper-Reber and DeVore					+		Volumetric			350P	
2	10/15	DeVore					+		Volumetric			308P	
3	10/21	Cooper-DeVore					.001		Volumetric			1230P	
4	10/28	Cooper-Reber and DeVore					+		Volumetric			335P	
5	11/4	" " "					+		Volumetric			225P	
6	11/12	DeVore-Reber					+		Volumetric			320P	
7	11/19	Reber					+		Volumetric			445P	
8	11/25	Reber-DeVore					+		Volumetric			157P	
9	12/2	Reber					+		Volumetric			1105A	
10	12/9	Reber-DeVore					+		Volumetric			320P	
		AZUSA CONDUIT LEAKAGE 4/10 mi. S. of Sandbox											
1936-37													
1	10/6	Cooper-Reber and DeVore					+		Volumetric			355P	
2	10/15	Reber-DeVore					.001		Volumetric			315P	
3	10/19	Reber					+		Volumetric			1130A	
4	10/21	Cooper-DeVore					0.06		Volumetric			1235P	
5	10/28	Cooper-DeVore and Reber					.001		Volumetric			345P	
6	11/4	" " "					.001		Volumetric			230P	
7	11/12	DeVore-Reber					0.01		Volumetric			330P	
8	11/19	Reber					.001		Volumetric			452P	
9	11/25	Reber-DeVore					.001		Volumetric				
10	12/2	Reber					.001		Volumetric			1110A	
11	12/9	Reber-DeVore					.001		Volumetric			325P	
12	4/21	Cooper-DeVore					.001		Volumetric			1247P 1248P	
13	1/12	Cooper					.03		Volumetric			425P	
		SAN GABRIEL RIVER 1/2 mi. below San Gabriel Dam No. 1											
1936-37													
1	10/7	Reber-DeVore	2.2	0.37			0.14		.6	4		247P 251P	FC 11
2	10/15	Reber-DeVore	2.2	0.40	0.52		0.21		.6	4		342P 346P	FC 32
3	10/21	Cooper-DeVore	2.5	0.51	0.57		0.29		.6	5		1264P 100P	FC 11
4	11/12	DeVore-Reber	2.6	0.64	0.36		0.23		.6	4		353P 357P	FC 33

F. C. D. FORM 104 TM 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS for in SAN GABRIEL RIVER DRAINAGE AREA

Misc. miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37
" " " " " " 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING PAPER DIS	METH OD	MEAS. REC. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	SAN GABRIEL RIVER at mouth of San Gabriel Canyon												
1937-38													
1	3/8	Lindsay-Ingram	255.	681.	8.16		5560.		.6	13		515P 540P	FC 28
2	3/9	" "	235.	680.8	9.76		6640.		.6	12		845A 920A	"
3	3/10	Lindsay-Ingram	190.	429.0	6.13		2630.		.6	14		845A 915A	FC 28
4	3/11	" "	155.	298.0	4.58		1350.		.6	12		820A 840A	"
5	3/15	Lindsay	155.	363.2	6.35		2310.		.6	15		1105A 1140A	"
6	3/16	"	153.	320.8	5.48		1760.		.6	15		1050A 1125A	"
7	3/22	"	89.0	155.3	3.84		441.		.5	11		1010A 1030A	"
8	3/24	Lindsay	145.0	290.5	5.08		1470.		.6	15		845A 930A	FC 28
9	3/25	"	144.0	272.9	5.20		1420.		.6	16		135P 210P	"
10	4/1	"	95.0	146.2	4.82		705.		.6	10		740A 810A	"
11	4/6	Lindsay-Haig	Two Channels				2640.		.6	24		1223P 122P	"
12	4/14	Lindsay-Ingram	79.0	158.0	2.30		364.		.6	13		840A 900A	"
13	4/21	Haig	115.5	160.9	2.42		390.		.6	13		400P 428P	FC 38
14	4/27	Lindsay	16.0	10.90	1.15		13.		.6	7		415P 425P	FC 28
15	5/4	"	9.7	9.68	0.81		7.8		.6	7		945A 955A	"
16	5/11	Haig	14.5	9.44	1.43		14.		.6	12		330P 342P	FC 38
17	5/18	"	30.0	31.64	1.85		59.		.6	10		225P 237P	"
18	5/25	"					0					230P	
19	6/1	"					0					310P	
	SAN GABRIEL RIVER 3/4 mi. above P.E.R.R.												
1937-38													
1	8/25	Lindsay-Keim	52.5	84.88	1.85		157.		.6	14		310P 332P	FC 28
	FISH CREEK above junction with San Gabriel River												
1937-38													
1	7/13	Lindsay	9.5	3.26	1.69		5.5		.6	6		935A 943A	FC 28
2	7/15	"	9.0	2.82	1.59		4.5		.6	6		640A 648A	"
3	7/25	"	9.8	3.27	2.06		8.2		.6	6		805A 813A	"
4	7/27	"	9.3	2.74	1.46		4.0		.6	6		815A 823A	"
5	8/1	"	9.0	3.03	1.29		3.9		.6	6		815A 823A	"
6	8/5	Lindsay	9.0	2.85	1.40		4.0		.6	6		835A 843A	FC 28
7	8/8	"	10.0	3.72	1.68		6.2		.6	6		1027A 1035A	"
8	8/15	"	10.0	3.74	1.82		6.8		.6	5		833A 840A	"
9	8/19	"	9.0	2.69	1.19		3.2		.5	5		817A 820A	"
10	8/25	"	9.5	3.00	0.77		2.3		.6	5		800A 807A	"
11	8/31	Brewster	4.0	0.68	0.62		0.42		.6	4		1250P 1256P	FC 8
	FISH CREEK above P.E.R.R. bridge												
1936-37													
1	1/3	Lindsay	9.5	2.35	2.54		6.0		.6	6		300P 310P	FC 28
	SAN GABRIEL RIVER - SANTA FE DIVERSION												
1936-37													
1	2/10	Jordan	14.5	14.03	2.18		31.		.6	9		255P 305P	FC 21
2	2/16	Lindsay and McArthur	4.5	0.97	0.73		0.70		.6	4		345P 349P	FC 28
3	2/17	" "	31.0	36.63	3.42		126.		.6	12		1105A 1120A	"
4	2/23	Lindsay	28.0	25.72	2.53		65.		.6	11		425P 435P	"
5	2/26	"	18.0	25.56	3.21		82.		.6	9		355P 412P	"
6	3/1	"	17.5	22.69	3.23		73.		.6	10		1110A 1130A	"
7	3/8	"	1.4	0.28	1.28		0.36		.6	2		1043A 1048A	"
8	3/12	Lindsay and McArthur	19.0	27.02	2.84		77.		.6	9		848A 857A	"
9	3/15	Lindsay	19.2	28.92	3.27		95.		.6	9		1056A 1112A	"
10	3/17	Lindsay and McArthur	20.0	35.95	4.15		149.		.6	10		1020A 1037A	"
11	3/19	Lindsay	19.7	30.95	3.36		104.		.6	9		945A 1002A	"
12	3/22	Lindsay and McArthur	18.0	23.60	2.44		58.		.6	9		340P 350P	FC 28
13	4/19	Lindsay	19.8	31.33	3.50		110.		.6	9		1010A 1025A	"
14	4/21	"	20.0	31.35	3.41		107.		.6	9		900A 915A	"
15	4/26	"	19.0	29.39	3.48		99.		.6	9		920A 940A	"
16	4/28		19.5	33.47	3.80		127.		.6	9		916A 933A	"
17	5/10	Lindsay	19.0	30.20	3.24		98.		.6	9		933A 954A	"
18	5/12	"	19.2	28.76	3.26		94.		.6	9		926A 944A	"
19	5/24	"	18.5	28.63	3.58		102.		.6	9		1027A 1035A	"
20	6/1	Lindsay-Sawyer	18.2	24.30	3.23		79.		.6	10		945A 1000A	"
21	6/4	Lindsay	17.3	20.15	2.69		54.		.6	8		930A 945A	"
22	6/7	"	19.3	30.47	4.09		125.		.6	10		320P 335P	"
23	6/11	"	13.0	9.14	1.99		18.		.6	8		902A 918A	"
1937-38													
24	8/25	Lindsay						Est. 0.15				1005A	
	INFLOW TO TEST BASINS above Pole Line above No. 1 Test Basin												
1936-37													
1	4/2	Lindsay	13.5	6.90	3.24		29.		.6	7		340P 355P	FC 28
2	4/7	"	13.5	12.31	3.29		40.		.6	9		215P 230P	"
3	4/9	"	14.0	12.50	3.25		41.		.6	8		1220P 1235P	"
4	4/12	"	10.4	4.90	1.90		9.1		.6	6		755A 803A	"
5	4/19	"	15.7	16.77	2.52		42.		.6	9		337P 350P	"
6	4/21	"	14.5	12.54	2.19		28.		.6	8		110P 120P	"
7	4/23	"	16.0	13.14	2.05		27.		.6	10		920A 933A	"
8	4/26	Lindsay	15.5	11.02	2.04		22.		.6	8		140P 153P	FC 28
9	4/28		16.5	15.31	2.87		44.		.6	10		1250P 103P	"
10	4/30	Lindsay	16.5	14.17	2.62		37.		.6	9		1008A 1018A	"
11	5/5	"	16.7	15.68	2.80		44.		.6	9		1055A 1110A	"
12	5/7	"	16.5	16.95	3.02		51.		.6	11		1050A 1105A	"
13	5/10	"	16.5	17.12	3.21		55.		.6	10		1130A 1150A	"
14	5/12	"	16.7	17.31	3.47		60.		.6	9		1250P 105P	"
15	5/14	"	16.5	17.51	3.41		60.		.6	10		925A 940A	"
16	5/17	"	16.7	18.43	3.53		65.		.6	10		1137A 1152A	"
17	5/19	"	16.8	20.52	3.82		78.		.6	10		1030A 1055A	"
18	5/21	"	16.5	20.10	3.53		74.		.6	10		900A 918A	"
19	5/24	"	16.2	19.09	3.65		70.		.6	10		1137A 1152A	"
20	5/24	"	18.0	27.27	2.58		70.		.6	11		1213P 1228P	"
21	5/28	"	18.0	26.26	2.56		67.		.6	12		125P 143P	"
22	6/1	"	17.7	23.83	2.44		58.		.6	11		1058A 1113A	"
23	6/4	"	17.7	18.45	2.11		39.		.6	14		1038A 1055A	"
24	6/5	Lindsay-Sawyer	16.5	31.82	2.68		85.		.6	12		140P 155P	"
25	6/7	Lindsay	18.0	27.52	2.55		70.		.6	12		913A 926A	"
26	6/10	Jordan-Thayer	10.5	23.25	2.02		47.		.6	10		945A 1000A	C 21
27	6/11	Lindsay	15.5	6.79	1.03		7.0		.6	10		942A 952A	FC 28
	OUTFLOW FROM TEST BASINS above Pole Line below No. 5 Test Basin												
1936-37													
1	5/21	Lindsay	10.5	6.06	2.04		12.		.6	8		948A 958A	FC 28
2	5/21		10.5	5.12	2.00		12.		.6	11		1050A 1102A	FC 28
3	5/24	Lindsay	10.5	5.02	1.49		7.5		.6	8		120P 130P	"
4	5/28	"	9.9	3.14	0.93		2.9		.6	7			"
5	6/7	"	Two Channels				15.		.6	13		1000A 1025A	"
	SAN GABRIEL RIVER - N. POLE LINE DIVERSION												
1936-37													
1	3/31	Lindsay	11.2	8.19	2.16		18.		.6	7		1043A 1053A	FC 28
2	4/2	"	11.1	7.90	2.06		16.		.6	7		216P 226P	"
3	4/7	"	11.0	7.87	2.10		16.		.6	7		250P 300P	"
4	4/12	"	4.0	1.06	1.10		1.2		.6	4		810A 816A	"
5	4/21	"	10.5	6.47	1.56		10.		.6	7		1245P 1255P	"
6	4/26	"	10.2	6.32	1.60		10.		.6	6		228P 238P	"
7	4/28	"	10.7	6.01	1.48		8.9		.6	6		132P 143P	"
8	4/30		10.5	5.11	1.02		5.2		.6	6		1026A 1033A	"

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Period Int.	METH OD	MEAS. NOS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	SAN GABRIEL RIVER N. POLE LINE Div. at Arrow Highway												
1937-38													
1	2/25	Lindsay					Est. 2.0					1100A	
	SAN GABRIEL RIVER POLE LINE Div. at Arrow Highway												
1937-38													
1	2/25	Lindsay	8.5	7.78	2.06		16.		.6	5		1103A 1112A	FC 28
	SAN GABRIEL RIVER - POLE LINE DIVERSION												
1936-37													
1	3/31	Lindsay	16.0	17.55	2.32		41.		.6	10		1130A 1145A	FC 28
2	4/2	"	10.3	16.23	2.17		35.		.6	10		243P 255P	"
3	4/7	"	18.5	17.25	2.28		39.		.6	9		305P 315P	"
4	4/12	"	17.5	8.77	0.96		8.4		.6	7		826A 838A	"
5	4/21	"	18.0	14.76	1.91		28.		.6	9		1225P 1240P	"
6	4/26	"	18.4	14.87	1.89		28.		.6	9		247P 259P	"
7	4/28	"	19.5	15.14	1.78		27.		.6	9		151P 204P	"
8	4/30		18.2	12.24	1.43		18.		.6	9		1041A 1051A	"
9	5/5	Lindsay	17.5	9.72	1.32		13.		.6	8		1131A 1142A	"
	SAN GABRIEL RIVER BRANCH above Arrow Highway												
1936-37													
1	3/19	Lindsay	5.5	3.5	0.89		3.1		.6	4		1048A 1055A	FC 28
2	3/24	"	5.5	2.63	0.74		1.9		.6	3			"
3	3/31	"	6.5	4.80	1.29		6.2		.6	4		930A 935A	"
	SAN GABRIEL RIVER BRANCH AND MAIN CHANNEL at Arrow Highway												
1936-37													
1	3/31	Lindsay	Two Channels				40.		.6	12		945A 1000A	FC 28
	SAN GABRIEL RIVER below Arrow Highway												
1936-37													
1	1/5	Lindsay	20.4	20.99	2.99		62.		.6	7		1136A 1150A	FC 28
2	1/7	Lindsay	21.0	24.07	2.86		69.		.6	7		1000A 1015A	FC 28
3	1/7	Lindsay-Cole	22.2	28.09	3.31		96.		.6	8		420P 430P	"
4	1/8	Lindsay-Jordan	22.0	25.09	3.46		87.		.6	8		415P 430P	"
5	1/11	Lindsay	22.0	25.73	3.48		90.		.6	10		1025A 1040A	"
6	1/11	"	22.0	21.9	3.77		83.		.6	10		405P 420P	"
7	1/14	"	22.5	24.00	3.50		84.		.6	10		1015A 1100A	"
8	2/5	"	19.8	12.05	2.21		27.		.6	9		222P 232P	"
9	2/9	"	23.5	29.21	3.31		97.		.6	8		930A 940A	"
10	2/10	Lindsay and McArthur	33.0	40.17	4.13		166.		.6	10		800A 815A	"
11	2/16	" "	32.0	38.87	3.96		154.		.6	9		900A 913A	"
12	2/18	" "	36.0	43.46	5.05		219.		.6	10		350P 400P	"
13	2/23	Lindsay	32.0	45.16	3.97		179.		.6	11		255P 310P	"
14	2/24	"	35.5	42.76	3.72		159.		.6	10		920A 935A	"
15	2/26	"	35.5	48.41	4.16		201.		.6	12		1020A 1040A	"
16	3/1	"	36.0	48.59	3.84		186.		.6	10		1252P 108P	"
17	3/3	"	36.0	47.09	3.70		174.		.6	10		915A 930A	"
18	3/5	"	35.0	42.51	3.72		158.		.6	10		510P 522P	"
19	3/12	Lindsay and McArthur	19.0	15.4	1.30		20.		.6	10		350P 400P	"
20	3/26	Lindsay	37.5	59.09	4.52		267.		.6	11		935A 950A	FC 21
21	3/29	"	35.0	41.87	3.27		137.		.6	10		1106A 1123A	"
22	3/31	"	27.5	31.04	2.62		81.		.6	8		1155A 1210P	FC 28
23	4/2	"	28.0	39.82	3.52		140.		.6	8		150P 200P	"
24	4/7	"	33.0	44.38	3.40		151.		.6	10		135P 150P	"
25	4/12	"	23.0	14.73	1.13		17.		.6	8		906A 916A	"
26	4/19	Lindsay	24.5	34.59	3.12		108.		.6	8		218P 235P	FC 28
27	4/28	"	30.0	29.03	2.66		77.		.6	10		255P 310P	"
28	4/30	"	24.5	23.13	1.93		45.		.6	8		1100A 1110A	"
29	5/5	"	24.0	22.61	2.12		48.		.6	8		1202P 1215P	"
30	5/12	"	23.0	16.71	1 39		32.		.6	9		152P 203P	"
31	5/24	"	21.0	13.60	1.25		17.		.6	8		207P 217P	"
32	6/1	"	15.2	8.14	5.77		4.7		.6	8		1151A 1201P	"
1937-38													
33	2/25	Lindsay	33.0	37.36	3.32		124.		.6	10		1120A 1130A	FC 28
34	7/29	"	18.5	9.15	2.30		21.		.6	10		237P 250P	"
35	8/1	"	21.0	10.48	2.32		24.			9		843A 853A	"
36	8/5	"	19.0	3.91	0.80		26.		.6	10		135P 145P	"
37	8/8	"	19.5	25.78	1.09		28.		.6	9		405P 415P	"
38	8/12	"	20.0	9.34	2.44		23.		.6	5		900A 910A	"
39	8/19	"	20.0	8.85	2.46		21.		.6	7		840A 850A	"
40	8/25	"	20.0	7.72	2.10		16.		.6	8		820A 830A	"
	SAN GABRIEL RIVER - E. BRANCH below Arrow Highway												
1936-37													
1	2/17	Lindsay and McArthur	42.0	27.99	2.29		64.		.6	10		310P 320P	FC 28
2	2/18	" "	42.5	42.95	3.12		134.		.6	13		330P 342P	"
3	2/23	Lindsay	36.0	25.06	1.95		49.		.6	8		320P 330P	"
4	2/24	"	38.0	22.06	1.96		45.		.6	12		900A 915A	"
5	2/26	"	40.0	25.33	2.21		56.		.6	12		945A 1000A	"
6	3/1	Lindsay	41.0	25.27	2.02		51.		.6	12		1225P 1240P	FC 28
7	3/3	"	40.0	24.48	2.11		52.		.6	12		848A 901A	"
8	3/5	"	39.0	22.01	1.95		44.		.6	11		543P 556P	"
9	3/12	Lindsay and McArthur	29.0	13.9	1.45		20.		.6	11		330P 340P	"
10	3/15	Lindsay	42.0	28.5	2.52		72.		.6	11		1135A 1150A	"
11	3/19	"	43.0	31.0	2.56		79.		.6	10		1026A 1040A	"
12	3/24	"	38.0	26.99	2.26		61.		.6	10		1106A 1119A	"
13	3/26	"	25.0	11.41	1.28		15.		.6	8		906A 917A	FC 21
14	3/29	"	26.0	12.95	1.37		18.		.6	8		1027A 1037A	"
15	4/12	"	6.5	2.64	0.71		1.9		.6	4		726A 732A	FC 28
16	4/23	"	31.0	18.78	1.92		36.		.6	8		846A 859A	"
17	4/28	"	32.0	19.42	2.43		47.		.6	11		322P 335P	"
18	5/5	"	22.5	9.78	1.02		19.		.6	9		1026A 1035A	"
19	5/7	"	9.0	3.13	1.11		3.5		.6	5		952A 959A	"
20	5/10	"					Est. 0.20					1055A	
	DIVERSION FROM RIO HONDO TO SAN GABRIEL 1000 ft. below Arrow Highway												
1937-38													
1	8/7	Brewster-Jordan	23.0	10.58	3.00		50.			7		120P 130P	FC 8
	SAN GABRIEL RIVER - E. BRANCH above junction with L.A. St. diversion												
1936-37													
1	3/26						Est. 1.0					210P	
	SAN GABRIEL RIVER - LOS ANGELES ST. DIVERSION below headgate												
1936-37													
1	1/7	Lindsay	23.7	14.40	1.85		27.		.6	12		225P 240P	FC 28
2	1/8	"	23.5	17.33	1.91		33.		.6	10		255P 305P	"
3	1/11	"	22.4	15.11	2.31		35.		.6	10		1125A 1140A	"
4	1/14	"	24.0	12.87	1.91		25.		.6	10		1120A 1135A	"
5	1/15	"	23.5	13.90	1.99		28.		.6	10		355P 405P	"
6	2/5	"					0					305P	
7	2/10	Lindsay and McArthur	23.5	13.74	1.74		24.		.6	10		1215P 1225P	FC 28
8	2/11	Lindsay	8.00	2.75	0.69		1.9		.6	6		329P 334P	"
9	2/16	Lindsay and McArthur	26.0	13.21	2.08		27.		.6	9		1105A 1115A	"
10	2/18	" "	31.0	26.64	2.80		75.		.6	11		1140A 1150A	"
11	2/23	Lindsay	25.5	22.13	2.30		51.		.6	9		1240P 1250P	"
12	2/26	"	24.0	19.24	2.16		42.		.6	9		148P 158P	"
13	3/1	"	23.5	15.58	1.94		30.		.6	11		515P 525P	"
14	3/3	"	23.0	14.76	1.74		26.		.6	12		1138A 1150A	"
15	3/5	"	22.5	12.47	1.81		21.		.6	9		402P 412P	"
16	3/15	"	23.5	16.34	1.81		30.		.6	9		335P 350P	"
17	3/26	"	39.0	36.84	3.18		117.		.6	10		150P 204P	FC 21
18	3/29	"	29.0	23.87	1.79		43.		.6	10		310P 325P	"
19	3/31	"	24.0	11.82	1.12		13.		.6	8		108P 118P	FC 28

F. C. D. FORM 104 1M 8-38

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS OF In SAN GABRIEL RIVER DRAINAGE AREA

AT ~~NEAR~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37
" " " " " " 1938

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.	METH OD	MEAS NECS NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
20	4/12	"					Est. 0.20					1205P	
21	6/7	"	27.5	23.07	1.63		38.		.6	11		1125A 1140A	FC 28
	SAN GABRIEL RIVER below Los Angeles St. diversion												
1936-37													
1	1/7	Lindsay	29.0	17.58	1.58		28.		.6	8		245P 255P	FC 28
	SAN GABRIEL RIVER - E. BRANCH L. A. ST. DIVERSION below San Bernardino Blvd.												
1936-37													
1	3/26	Lindsay	25.0	19.96	2.67		53.		.6	8		115P	FC 21
	L.A. ST. DIVERSION - RETURN FLOW TO SAN GABRIEL RIVER below test basin S. of Garvey Ave.												
1936-37													
1	2/26	Lindsay	10.5	5.37	2.05		11.		.6	6		300P 305P	FC 28
2	3/3	"					Est. 0.01					1115A	
3	3/15	"	22.0	14.94	2.23		33.		.6	10		258P 310P	FC 28
	RETURN TO SAN GABRIEL RIVER FROM SANTA FE DIVERSION S. end of test basin below Garvey Ave.												
1936-37													
1	3/5	Lindsay	4.7	1.99	0.41		0.80		.6	5		338P 345P	FC 28
	SAN DIMAS CREEK below San Dimas Dam												
1937-38													
1	2/28		15.5	11.04	1.62		18.			8		740A 800A	
2	5/6	Brewster	10.0	11.24	1.03		12.		.6	6		920A 930A	FC 8
3	5/12	Brewster	9.0	7.78	0.87		6.7		.6	5		455P 505P	FC 8
4	5/19	"	10.0	9.10	0.81		6.6		.6	5		408P 416P	"
5	5/26	"	9.5	7.63	0.82		6.2		.6	5		400P 410P	"
6	5/27	"	9.5	11.37	1.25		14.		.6	5		550P 600P	"
7	6/9	"	10.0	8.38	0.92		7.7		.6	5		512P 520P	"
8	6/23	"	7.0	7.34	0.89		6.5		.6	4		447P 454P	"
9	8/20	Lindsay and Van der Goot	10.2	8.07	0.75		6.0		.6	9		750A 800A	"
10	8/20	" "	10.8	11.69	1.02		12.		.6	11		900A 910A	FC 28
	SAN DIMAS CREEK above Lodi Canyon Junction												
1937-38													
1	3/11	Van der Goot and Andren	16.5	19.55	1.82		38.			15		145P 157P	
	LITTLE DALTON WASH at Lorraine Ave.												
1936-37													
1	2/24		3.0	0.65	1.71		1.1		.6	3		445P 450P	FC 8
2	3/29	Brewster	4.0	2.12	1.14		2.4		.6	4		925A 935A	"
3	4/5	"	3.0	0.52	1.15		0.60		.6	3		845A 850A	"
	BIG DALTON CREEK 500 ft. below Big Dalton Dam												
1937-38													
1	3/29	Dalton-Keiser	11.0	7.61	1.0		8.0		.6	11		1100A 1120A	FC 2
	BIG DALTON 100 ft. below diversion works												
1937-38													
1	3/29	Dalton-Keiser	7.6	4.64	2.37		11.			8		530P	
	BIG DALTON CREEK below Spreading Area												
1936-37													
1	2/24	Brewster	4.0	3.20	0.93		3.0		.6	4		430P 436P	FC 8
2	3/29	"	6.0	4.42	1.93		8.6		.6	6		900A 912A	"
3	4/5	"	1.0	0.17	0.41		0.07		.6	2		930A 933A	"

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.	METH OD	MEAS NECS NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	LIVE OAK CREEK below Live Oak Dam												
1937-38													
1	3/5		8.25	5.69	3.3		19.			9		1200N 815A	
2	3/9		7.5	5.38	2.55		14.			7		820A 1005A	
3	3/9		7.0	5.10	0.81		4.1			6		1015A 1110A	
4	3/9		3.3	2.98	1.45		4.3			7		1120A	
5	3/9		3.2	2.81	1.15		3.2			7			
6	3/16		3.3	3.25	1.72		5.6			7		1115A 1120A	
7	3/18		6.0	1.80	1.44		2.6			5		450P 505P	
8	3/19		5.0	2.03	1.64		3.3			10		1015A 1025A	
9	3/19		5.0	2.39	1.50		3.6			9			
10	3/22	Dalton	4.7	2.06	1.37		2.8		.6	9		145P 200P	FC 2
11	5/4		4.6	1.79	1.06		1.9		Sur	6		945P	
12	5/6	Brewster	3.0	2.19	0.81		1.8		.6	3		1030A 1038A	FC 1
13	5/6	Dalton-Keiser	5.0	1.75	1.02		1.8		.6	10			FC 2
14	5/13	Brewster	4.0	2.12	1.12		2.4		.6	4		800A 805A	FC 8
15	5/20	"	4.0	2.18	1.04		2.3		.6	4		803A 810A	"
16	5/20	Dalton-Reber	5.0	1.62	0.9		1.4		.6	9		1030A 1040A	FC 2
17	5/21	Dalton	3.0	1.24	1.0		1.2		.6	3			FC 2
18	5/27	Brewster	4.0	2.05	1.00		2.0		.6	4		945A 950A	FC 8
19	6/2	"	4.0	1.86	0.89		1.7		.6	4		445P 451P	"
20	6/3	Reber	4.7	1.38	0.71		1.0		.6	9		1015A 1025A	FC 2
21	6/4	Dalton	3.0	0.94	0.79		0.75			3			"
22	6/9	Brewster	1.5	0.36	0.69		0.25		.6	3		330P 335P	FC 8
23	6/18	Dalton	3.0	0.49	0.47		0.23			3		915A	FC 2
	WALNUT CREEK above junction with San Gabriel River												
1936-37													
1	2/9	Lindsay	17.0	2.88	1.07		3.1		.6	6		250P 300P	FC 28
2	2/16	Lindsay and McArthur					Est. 2.0						
	SAN GABRIEL RIVER at Valley Blvd.												
1936-37													
1	3/31	Lindsay	28.5	7.57	1.73		13.		.6	9		205P 215P	FC 28
	SAN GABRIEL RIVER 500 ft. below Valley Blvd.												
1937-38													
1	8/18	Brewster	7.0	1.48	1.02		1.5		.6	4		1040A 1046A	FC 8
	SAN GABRIEL RIVER at Elliot Ave.												
1936-37													
1	1/3	Lindsay	18.6	5.84	1.78		10.		.6	8		110P 120P	FC 28
2	1/5	Lindsay	24.5	10.04	2.96		30.		.6	7		142P 152P	FC 28
3	1/7	"	20.0	6.68	2.07		14.		.6	8		1210P 1220P	"
4	1/8	"	25.3	8.78	2.00		18.		.6	10		235P 243P	"
5	1/11	"	29.0	7.58	1.76		13.		.6	11		1212P 1223P	"
6	1/12	Lindsay and McArthur	24.0	6.04	1.84		11.		.6	8		230P 240P	"
7	1/14	Lindsay	31.0	10.16	2.29		23.		.6	10		907A 917A	"
8	1/15	"	26.5	6.59	1.60		11.		.6	10		325P 335P	"
9	2/5	"	11.5	2.3	0.97		2.2		.6	6		1203P 1209P	"
10	2/9	"	29.0	17.38	3.68		64.		.6	9		1120A 1135A	"
11	2/10	Lindsay and McArthur	31.0	18.90	4.17		79.		.6	10		930A 940A	"
12	2/11	Lindsay	24.0	9.75	2.94		29.		.6	9		135P 150P	"
13	2/16	Lindsay and McArthur	53.5	23.39	3.71		87.		.6	10		1035A 1045A	"
14	2/18	" "	54.0	36.26	4.02		146.		.6	12		1100A 1110A	"
15	2/18	" "	55.0	35.59	4.27		152.		.6	10		630P 640P	"
16	2/19	" "	59.0	43.87	4.58		201.		.6	14		300P 310P	"
17	2/19	" "	57.0	38.67	4.80		186.		.6	12		950P 1005P	"
18	2/20	" "	53.0	45.26	4.04		183.		.6	14		1045A 1100A	"
19	2/20	" "	Two Channels				131.		.6	14		220P 230P	"
20	2/22	" "	53.0	31.68	3.52		111.		.6	9		1035A 1045A	"
21	2/23	Lindsay	58.0	47.62	2.33		111.		.6	16		1100A 1120A	"
22	2/24	"	58.0	29.59	3.48		103.		.6	15		1225P 1245P	"
23	2/26	"	61.0	27.35	3.43		94.		.6	14		1220P 1240P	"

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.	METH OD	MEAS. MEN. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
												1055A	
24	2/27	"	32.0	29.81	3.75		112.		.6	14		1110A	"
												405P	
25	3/1	"	55.0	23.44	2.75		65.		.6	12		420P	"
												1043A	
26	3/3	Lindsay	61.0	20.88	3.00		63.		.6	11		1055A	FC 28
												220P	
27	3/5	"	52.0	19.59	2.71		53.		.6	11		235P	"
	SAN GABRIEL RIVER at Durfee Rd. Crossing												
1936-37													
1	1/7	Brewster	Two Channels				14.		.6	9		1202P	
												1216P	FC 8
2	1/14	"	Two Channels				21.		.6	12		1104A	
												1122A	"
3	2/4	"	Two Channels				1.7		.6	6		1025A	
												1030A	"
4	2/11	"	Two Channels				37.		.6	10		1045A	
												1100A	"
5	2/25	"	8.0	2.82	1.03		2.9		.6	4		1007A	
												1013A	"
6	3/4	"	Two Channels				4.7		.6	7		1035A	
												1045A	"
7	3/11	"	34.0	16.26	1.72		28.		.6	9		1035A	
												1050A	"
8	3/25	"	170.0	93.60	3.20		290.		.6	17		1045A	
												1110A	"
9	4/1	"	16.0	4.34	1.40		6.1		.6	6		1145A	
												1202P	"
10	4/8	"	Two Channels				75.		.6	11		1010A	
												1030A	"
11	4/14	"	3.0	0.49	0.92		0.45		.6	3		1205P	
												1211P	"
12	4/22	"	42.0	21.32	2.31		49.		.6	6		1115A	
												1127A	"
13	4/29	"	40.0	11.80	2.04		24.		.6	8		1040A	
												1100A	"
14	5/6	"	22.0	7.10	1.86		13.		.6	6		1050A	
												1102A	"
15	5/13	"	40.0	10.08	1.26		13.		.6	7		1015A	
												1030A	"
16	5/20	"	15.0	4.71	1.05		5.0		.6	5		1035A	
												1045A	"
17	5/27	"	3.0	0.77	0.74		0.55		.6	3		1050A	
												1055A	"
18	6/10	"	1.0	0.20	0.40		0.08		.6	2		1030A	
												1032A	"
19	6/17	"	1.0	0.16	0.75		0.12		.6	2		1025A	
												1028A	"
20	6/24	Brewster	6.0	1.38	0.74		1.0		.6	3		1035A	
												1041A	FC 8
21	7/1	"	0.5	0.16	0.50		0.08		.6	1		1005A	
												1008A	"
22	7/8	"	0.5	0.11	0.82		0.09		.6	1		1015A	
												1017A	"
23	7/15	"	1.0	0.20	0.40		0.08		.6	2		1010A	
												1014A	"
24	7/22	"	0.5	0.10	0.50		0.05		.6	1		1010A	
												1012A	"
25	7/29	"	0.5	0.10	0.40		0.04		.6	1		930A	
												932A	"
26	8/5	"	0.5	0.13	0.38		0.05		.6	1		940A	
												942A	"
27	8/12	"					Est. 0.02					1010A	
28	8/19	Lindsay					Est. 0.05					1015A	
29	8/26	"					Est. 0.03					1005A	
30	9/2	Brewster					Est. 0.01					1032A	
31	9/30	"					Est. 0.04					1020A	
1937-38													
32	10/7	Brewster					Est. 0.03					1015A	
33	10/14	"	1.0	0.24	0.25		0.06		.6	2		1025A	
												1029A	FC 8
34	10/21	"	1.0	0.24	0.50		0.12		.6	2		1005A	
												1009A	"
35	10/28	"	1.0	0.24	0.79		0.19		.6	2		1012A	
												1016A	"
36	11/4	"	1.0	0.20	0.70		0.14		.6	2		1025A	
												1030A	"
37	11/10	"	1.0	0.24	1.00		0.24		.6	2		1045A	
												1050A	"
38	11/18	"	1.0	0.24	0.75		0.18		.6	2		1035A	
												1039A	"
39	11/24	"	1.0	0.24	0.92		0.22		.6	2		1040A	
												1043A	"
40	12/2	"	1.0	0.24	0.75		0.18		.6	2		1032A	
												1035A	"
41	12/9	"	1.0	0.22	0.82		0.18		.6	2		1003A	
												1007A	"
42	12/16	"	5.0	1.02	0.64		0.65		.6	5		1015A	
												1021A	"
43	12/23	Brewster	11.0	2.70	0.94		2.5		.6	4		1030A	
												1036A	FC 8
44	2/10	"	28.0	12.16	1.61		20.		.6	7		1100A	
												1112A	"
45	2/17	"	34.0	14.32	1.94		28.		.6	9		1045A	
												1058A	"
46	2/24	"	24.0	6.08	1.23		7.4		.6	6		1022A	
												1033A	"
	THOMPSON CREEK below Thompson Creek Dam												
1937-38													
1	3/8		12.5	9.83	1.66		16.			8		1130A	
												1145A	
2	3/10		14.5	11.53	2.14		25.			10		930A	
												1210P	
3	3/14		12.5	7.15	1.49		11.			12		1225P	

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.	METH OD	MEAS. MEN. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	WHITTIER WATER STORAGE TANK CLEANOUT 200 ft. above Siphon Rd.												
1936-37													
1	12/10	Brewster	5.0	4.43	1.00		4.4		.6	5		1132A	
												1139A	FC 8
	CATE DITCH above pump												
1936-37													
1	5/13	Brewster	6.0	6.81	1.52		10.		.6	4		1049A	
												1058A	FC 8
	CATE DITCH PUMP at Cate Ditch												
1936-37													
1	5/13	Brewster	4.0	4.05	0.90		3.7		.6	4		1108A	
												1114A	FC 8
2	7/20	"	4.0	3.56	1.07		3.8		.6	4		1140A	
												1146A	"
3	8/19	Lindsay					0					1020A	
4	8/26	Lindsay					Est. 0.15					1015A	
	CATE DITCH below pump												
1936-37													
1	5/13	Brewster	6.0	6.94	2.02		14.		.6	4		1100A	
												1107A	FC 8
	SAN GABRIEL RIVER at Easy St.												
1936-37													
1	1/13	Bonadiman	33.	15.58	1.26		20.		.6	7		955A	
												1007A	FC 9
2	1/14	"	14.	3.69	0.82		3.1		.6	4		1232P	
												1237P	"
3	7/8	"	6.	0.70	1.98		1.4		.6	2		230P	
												232P	"
4	8/5	"	9.	1.68	0.73		1.2		.6	3		337P	
												340P	"
5	8/12	"	9.	1.48	0.71		1.0		.6	3		835A	
												837A	"
6	9/16	"	9.	1.80	0.72		1.3		.6	3		800A	
												803A	"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS ~~of~~ in SANTA CLARA RIVER DRAINAGE AREA

~~at~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37
" " " " " " 1938

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.	METH OD	MEAS. MEN. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
	ELIZABETH LAKE CANYON CANYON at San Fernando Boy Scout Camp												
1937-38													
1	4/12	Luce-Skelly	20.0	8.75	3.98		35.		.6	10		250P	
												255P	FC 39
	CASTAIC CANYON CREEK at Elizabeth Canyon Road												
1937-38													
1	4/4	Luce-Skelly	18.3	9.66	3.00		29.		.6	10		235P	
												240P	FC 39
	CASTAIC WASH at Highway 99												
1936-37													
1	4/23	Luce	27.0	7.35	1.81		13.		.6	12		110P	
												120P	FC 13
1937-38													
2	4/7	Luce-Skelly	53.0	22.76	2.42		55.		.6	10		480P	
												510P	FC 39
	CASTAIC CREEK at Santa Paula Highway												
1937-38													
1	2/4	Luce-Skelly	81.0	39.35	2.90		114.		.6	12		330P	
												350P	FC 39
	SANTA CLARA RIVER 9 mi. above Lang												
1936-37													
1	9/17	Luce	5.6	1.33	1.14		1.5		.6	6		920A	
												930A	FC 39
	SANTA CLARA RIVER 1.3 mi. below Ravenna												
1937-38													
1	1/21	Luce	3.8	1.02	0.97		1.0		.6	6		1200N	
												1205P	FC 39
2	1/21	"	3.8	1.03	0.86		0.90		.6	6		1205P	
												1210P	"
3	4/25	Luce-Luce	4.5	1.70	1.65		2.8		.6	6		1030A	
												1035A	"

F. C. D. FORM 104 IM 8-39

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. Misc.

DISCHARGE MEASUREMENTS ~~AT~~ in TOPANGA CANYON DRAINAGE AREA

~~AT~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37

" " " " " 1938

NO.	DATE	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	Rating Factor Nbr.	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	BEGIN / END	METER NO.
	RED ROCK CANYON near old Topanga Hwy. bridge												
1936-37													
1	10/18	Prickett	8.5	3.23	1.69		5.5		.6	4		350P / 355P	FC 22
2	12/27	Carlson-Andren	8.0	2.30	2.48		5.7		.6	4		1110A / 1116A	FC 12
3	12/28	" "	5.0	1.50	2.50		3.8		.6	5		136A / 140A	"
4	12/28	Prickett-Haig	7.0	1.35	2.87		3.9		.6	6		534P / 537P	FC 22
5	12/30	Carlson-Andren	9.0	4.10	3.58		15.		.6	6		440P / 445P	FC 12
6	12/30	" "	9.0	7.15	4.86		35.		.6	6		700P / 707P	"
7	1/30	Haig-Carlson	12.0	3.40	3.20		11.		.6	6		800P / 810P	"
8	2/6	Carlson-Andren	14.0	5.60	4.53		25.		.6	7		1205P / 1213P	"
9	2/13	" "	8.0	2.15	2.23		4.8		.6	5		300P / 305P	"
10	2/13	" "	14.0	6.8	3.41		23.		.6	7		440P / 450P	"
11	3/15	" "	9.0	6.65	4.70		31.		.6	7		910P / 920P	"
12	3/22	" "	8.0	2.25	2.00		4.6		.6	6		745A / 750A	"
13	3/24	" "	8.0	1.75	1.75		3.1		.6	5		905P / 912P	"
	OLD TOPANGA CANYON CREEK above Hondo Canyon												
1936-37													
1	12/27	Carlson-Andren	11.9	4.65	2.50		12.		.6	6		1052A / 1100A	FC 12
2	12/28	" "	11.9	4.07	2.44		9.9		.6	5		117A / 123A	"
3	12/30	" "	11.9	6.01	4.62		28.		.6	7		519P / 530P	"
4	1/30	Haig-Carlson	11.9	6.25	3.66		23.		.6	5		835P / 850P	"
5	2/6	Carlson-Andren	11.9	13.61	6.13		83.		.6	6		1253P / 108P	"
6	2/13	" "	10.0	4.30	3.51		15.		.6	5		328P / 338P	"
7	3/15	Carlson-Andren	12.0	39.2	3.82		150.		.6	4		840P / 850P	FC 12
8	3/22	" "	11.9	5.41	2.76		15.		.6	6		825A / 833A	"
9	3/24	" "	9.0	3.25	2.16		7.0		.6	7		938P / 945P	"
	HONDO CANYON above junction with Old Topanga Canyon												
1936-37													
1	10/31	Carlson	6.0	2.5	3.80		9.6		.6	4		345A / 350A	FC 12
2	12/14	Carlson-Andren	6.6	1.30	2.85		3.7		.6	7		1027P / 1037P	"
3	12/15	" "	6.5	2.28	2.85		6.5		.6	6		520A / 526A	"
4	12/27	" "	5.5	1.13	3.58		4.0		.6	5		1040A / 1044A	"
5	12/28	" "	4.0	1.30	2.77		3.6		.6	4		110A / 114A	"
6	12/30	" "	7.0	3.10	4.22		13.		.6	6		508P / 514P	"
7	2/6	" "	7.0	5.50	5.43		30.		.6	7		1242P / 1250P	"
8	2/13	" "	6.0	2.00	2.70		5.4		.6	6		320P / 325P	"
9	3/15	" "	9.0	4.60	3.08		14.		.6	9		825P / 835P	"
10	3/22	" "	6.0	1.50	2.07		3.1		.6	2		822A / 825A	"
11	3/24	" "	8.0	1.44	1.82		2.6		.6	6		930P / 935P	"
	OLD TOPANGA CREEK above confluence with Garrapata Cr.												
1936-37													
1	10/18	Prickett	14.5	4.67	2.78		13.		.6	6		415P / 426P	FC 22
2	12/27	Carlson-Andren	18.0	5.00	2.45		12.		.6	9		1155A / 1204P	FC 12
3	12/28	" "	18.5	4.73	2.60		12.		.6	7		212A / 220A	"
4	12/30	" "	19.0	8.20	4.70		39.		.6	7		615P / 620P	"
5	12/30	Carlson-Andren	25.0	14.50	4.47		65.		.6	9		810P / 825P	FC 12
6	1/30	Haig-Carlson	31.0	8.7	2.68		23.		.6	7		930P / 942P	"
7	2/6	Carlson-Andren	28.0	16.8	5.90		99.		.6	7		115P / 125P	"
8	2/13	" "	36.0	12.55	4.66		58.		.6	9		353P / 404P	"
9	2/25	" "	7.0	3.50	2.14		7.5		.6	7		322P / 327P	"
10	3/22	" "	20.0	9.80	3.94		39.		.6	6		720A / 730A	"
11	3/24	" "	12.0	4.3	3.25		14.		.6	6		1020P / 1030P	"
	GARRAPATA CANYON above confluence with Old Topanga Canyon												
1936-37													
1	2/13	Carlson-Andren	32.0	18.85	1.90		36.		.6	11		408P / 418P	FC 12
2	2/25	" "	7.0	3.0	1.39		4.2		.6	6		330P / 335P	"
	TOPANGA CREEK near Post Office												
1936-37													
1	12/14	Carlson-Andren	7.0	2.65	1.06		2.8		.6	6		1145P / 1150P	FC 12
2	12/15	" "	8.0	3.45	1.73		6.0.		.6	5		620A / 625A	"
3	12/27	" "	12.0	9.50	2.77		26.		.6	6		1145A / 1152A	"
4	12/28	" "	14.0	10.8	3.06		33.		.6	7		202A / 208A	"
5	12/28	Prickett-Haig	19.0	12.25	4.90		60.		.6	7		555P / 602P	FC 22
6	12/30	Carlson-Andren	18.0	14.55	4.53		67.		.6	10		555P / 605P	FC 12
7	1/12	Carlson	13.0	3.70	2.58		9.5		.6	7		1112A / 1122A	"
8	1/30	Haig-Carlson	27.0	14.05	3.95		56.		.6	9		912A / 925A	"
9	2/25	Carlson	10.0	5.20	1.72		8.9		.6	5		145P / 155P	"
10	3/22	Carlson-Andren	23.0	18.60	3.80		71.		.6	16		656A / 710A	FC 12
11	3/24	" "	18.0	8.0	2.77		25.		.6	9		1005P / 1015P	"
	TOPANGA CREEK above Fernwood												
1936-37													
1	10/18	Prickett	40.0	35.75	3.33		119.		.6	6		310P / 325P	FC 22
2	10/18	"	27.0	20.15	1.73		35.		.6	7		440P / 445P	"

PERCOLATION DATA

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. _____

Percolation ~~DISCHARGE~~ MEASUREMENTS OF BIG DALTON CREEK

AT ~~POINTS~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37

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.	REFER TO	MEAS. MEAS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1936-37													
		Ben Lomond Avenue											
1	12/21	Brewster-Lindsay	9.0	3.86	1.76		6.4		.6	8		830A	FC 8
		400' below Citrus Avenue											
2	12/21	Brewster-Lindsay	7.0	2.95	1.87		5.5		.6	7		925A	FC 8
		Azusa Avenue											
3	12/21	Brewster-Lindsay	10.0	3.06	1.46		4.5		.6	5		1005A	FC 8
		Above Junction with Little Dalton											
3A	12/21	Brewster-Lindsay	5.0	1.62	.83		1.18		.6	5		1100A	FC 8
		Below Junction with Little Dalton Creek											
4	12/21	Brewster-Lindsay	6.0	1.68	1.17		2.0		.6	6		1112A	FC 8
		Covina Boulevard (Pipe Line discharge into Big Dalton Creek)											
5	12/21	Brewster	1.5	.35	1.83		.65		.6	3		1215P	FC 8
		Covina Boulevard											
6	12/21	Brewster-Lindsay	5.0	1.79	1.51		2.7		.6	5		1222P	FC 8
		Junction with Walnut Creek											
7	12/21	Brewster-Lindsay	5.0	1.05	1.02		1.1		.6	5		200P	FC 8
		Ben Lomond Avenue											
8	1/18	Brewster-Pettis	6.0	3.02	1.40		4.2		.6	6		845A 851A	FC 8
		350 ft. below Citrus Avenue											
9	1/18	Brewster-Pettis	6.0	2.37	1.27		3.0		.6	6		930A 936A	FC 8
		Azusa Avenue											
9A	1/18	Brewster				Est.	0.15						
		Covina Boulevard											
10	1/18	Brewster-Pettis	6.0	1.50	1.03		1.6		.6	6		110P 117P	FC 8
		Below Covina Boulevard, 10,900 feet.											
10A	1/18	End of Percolation					0						
1937-38													
		Ben Lomond Avenue											
11	1/31	Brewster	6.0	2.50	2.33		5.82		.6	6		820A 828A	FC 8
		Citrus Avenue											
12	1/31	Brewster	4.5	2.09	2.33		4.87		.6	5		850A 856A	FC 8
		Azusa Avenue											
13	1/31	Brewster	4.0	1.06	1.38		1.40		.6	4		912A 917A	FC 8
		Vincent Avenue (above Junction with Little Dalton)											
14	1/31	Brewster	1.5	.28	.82		.23		.6	3		930A 934A	FC 8
		Covina Blvd.											
15	1/31	Brewster	4.0	1.13	1.05		1.19		.6	4		1140A 1145A	FC 8
		Covina Boulevard - inflow from pipe line											
16	1/31	Brewster	3.0	.69	2.13		1.47		.6	3		1150A 1154A	FC 8
		At Junction with Walnut Creek											
17	1/31	Brewster	4.0	.70	1.16		.81		.6	4		1240P 1246P	FC 8
		1/4 mi. below Junction with Walnut Creek											
17A	1/31	End of percolation					0					110P	

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. _____

Percolation ~~DISCHARGE~~ MEASUREMENTS OF RIO CULEBRA WASH

AT ~~POINTS~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	REFER TO	MEAS. MEAS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
		At Stonehurst Avenue											
1	7/5	Luce	16.8	9.05	1.51		13.6		.6	9		145P 200P	FC 39
		At San Fernando Road											
2	7/5	Luce	9.0	7.92	1.14		9.1		.6	7		210P 225P	FC 39
		At Laurel Canyon Blvd.											
3	7/5	Luce					0					300P	
		At San Fernando Road											
4	7/6	Luce	21.5	20.67	2.37		59.3		.6	10		830A 845A	FC 39
		At Laurel Canyon Blvd.											
5	7/6	Luce	21.9	13.97	3.62		50.6		.6	11		725A 740A	FC 39
		At Sherman Way											
6	7/6	Luce	Two Channels				4.6		.6	9		800A 815A	FC 39
		1000 ft. below Sherman Way											
7	7/6	Luce					0					820A	
		At Stonehurst Avenue											
8	7/6	Luce	23.5	20.57	3.20		65.7		.6	9		150P 210P	FC 39
		At San Fernando Road											
9	7/6	Luce	21.5	20.23	3.02		61.0		.6	10		230P 250P	FC 39
		At Laurel Canyon Blvd.											
10	7/6	Luce	19.0	10.10	3.19		32.2		.6	9		315P 340P	FC 39
		500 ft. below Roscoe Boulevard Extended											
11	7/6	Luce					0					430P	
		below submerged dam											
154	7/12	Luce	42.5	47.97	2.51		120.2		.6	12		930A 945A	FC 39
		At Stonehurst Avenue											
12	7/12	Luce	20.2	26.72	3.47		92.6		.6	8		1100A 1120A	FC 39
		At San Fernando Road											
13	7/12	Luce	22.5	22.65	3.62		81.9		.6	9		1145A 1200N	FC 39
		At Laurel Canyon Blvd.											
14	7/12	Luce	22.2	17.92	4.0		71.7		.6	12		1230P 1245P	FC 39
		500 ft. above Sherman Way above S.P.R.R. bridge											
15	7/12	Luce					0					115P	
		At San Fernando Road											
16	7/12	Luce	23.0	22.35	3.60		80.4		.6	10		445P 500P	FC 39
		At Laurel Canyon Boulevard											
17	7/12	Luce	22.5	16.85	3.94		66.4		.6	12		520P 535P	FC 39
		1500 ft. above Sherman Way											
18	7/12	Luce					0					600P	
		At San Fernando Road											
19	7/19	Luce	24.5	24.85	3.40		84.1		.6	13		1020A 1035A	FC 39
		At Laurel Canyon Boulevard											
20	7/18	Luce	22.1	19.27	3.28		63.1		.6	11		1110A 1125A	FC 39
		below submerged dam											
157	7/28	Lind	21.5	29.68	2.17		64.4		.6	11		510P 525P	FC 19

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. _____

Percolation
~~DISCHARGE~~ MEASUREMENTS OF BIG TUJUNGA WASH

~~AT~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH-OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
		At Stonehurst Avenue											
21	7/28	Luce-Luce	20.5	18.51	3.20		59.4		.6	9		915A 930A	FC 39
		At San Fernando Road.											
22	7/28	Luce	27.5	24.60	2.36		58.2		.6	9		945A 1000A	FC 39
		At Laurel Canyon Boulevard											
23	7/28	Luce-Luce	19.0	15.55	2.72		42.3		.6	7		1015A 1025A	FC 39
		2000 ft. above Sherman Way											
24	7/28	Luce-Luce					0					1220P	

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. _____

Percolation
~~DISCHARGE~~ MEASUREMENTS OF LITTLE DALTON CREEK

~~AT~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 37 " " " " " " 19 38

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.	METH-OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
1936-37													
		200' below Pasadena Street											
1	1/18	Brewster-Pettis	10.0	3.15	1.49		4.69		.6	7		1040A 1048A	FC 8
		At Broadway											
2	1/18	Brewster-Pettis	5.0	1.51	2.46		3.72		.6	5		1130A 1136A	FC 8
		Near Junction with Big Dalton											
3	1/18	Brewster-Pettis	4.0	1.22	1.30		1.59		.6	4		1220P 1226P	FC 8
1937-38													
		1/4 mile above Ben Lomond Avenue											
4	1/31	Brewster	5.0	1.66	1.14		1.89		.6	5		955A 1000A	FC 8
		Azusa Avenue											
5	1/31	Brewster	5.0	1.50	1.06		1.59		.6	5		1030A 1035A	FC 8
		Bonita Avenue											
6	1/31	Brewster	6.0	1.52	.92		1.40		.6	6		1050A 1057A	FC 8
		Vincent Avenue above Junction with Big Dalton											
7	1/31	Brewster	5.0	1.52	.72		1.09		.6	5		1105A 1112A	FC 8

F.C.D. FORM 104 1M 9-37

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

STATION NO. _____

Percolation
~~DISCHARGE~~ MEASUREMENTS OF SAN DIMAS WASH

~~AT~~ miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 38

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.	METH-OD	MEAS. SECS. NO.	G. HT. CHANGE TOTAL	BEGIN END	METER NO.
		1/4 mile above Grand Avenue											
1	1/24	Brewster	5.0	2.48	1.33		3.29		.6	5		950A 958A	FC 8
		Ben Lomond Avenue											
2	1/24	Brewster	6.0	2.30	1.30		3.00		.6	6		1050A 1056A	FC 8
		Inflow from pipe line at Citrus Avenue											
3	1/24	Brewster	3.0	.52	.58		.30		.6	3		1120A 1123A	FC 8
		Cerritos Avenue											
4	1/24	Brewster	4.0	1.70	1.67		2.84		.6	4		1144A 1150A	FC 8
		Cypress Avenue											
5	1/24	Brewster	1.5	.24	1.21		.29		.6	3		100P 104P	FC 8

PERCOLATION MEASUREMENTS — SET NO. 1 — December 21, 1936

BIG 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 Sec.Ft. per Ac. Wetted Area	Remarks
8:30A	Ben Lomond Avenue			1	6.43	3600	14.2	1.17	.91	.78	Surface not scarified
9:25A	400 ft. below Citrus Avenue			2	5.52	5700	11.2	2.14	1.04	.49	Surface not scarified.
10:05A	Azusa Avenue			3	4.48	6100	14.0	1.06	3.30	1.68	Surface scarified.
11:00A	Above Junction with Little Dalton			3A	1.18						
11:12A	Below Junction with Little Dalton			4	1.96						
11:30A	Inflow from Rock Crusher waste				2.03						
11:50A	Inflow from pipe line south side				.50						
12:20P	Inflow from pipe line Covina Blvd.			5	.64 5.13	7900	12.7	2.31	2.43	1.05	Surface scarified.
12:25P	Covina Boulevard			6	2.70	11100	18.5	4.71	1.63	.35	All signs of scarifying obliterated.
2:00P	Junction with Walnut Creek			7	1.07	3400	9.1	.71	1.07	1.51	This rate is probably low. Walnut Creek surface scarified before start of flow.
2:40P	End of percolation			7A	0.00						

PERCOLATION MEASUREMENTS — SET NO. 2 — January 18, 1937

BIG 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 Sec.Ft. per Ac. Wetted Area	Remarks
8:45A	Ben Lomond Avenue			8	4.24	3600	13.0	1.07	1.22	1.14	Not scarified
9:30A	350 ft. below Citrus Avenue			9	3.02	5700	19.1	2.49	2.87	1.15	Not scarified
10:20A	Azusa Avenue			9A	.15						Continuation of Little Dalton Wash percolation set #11.
12:20P	At Junction with Little Dalton			3	1.59						Inflow from Little Dalton
12:45P	Inflow, Rock Crusher waste water				2.06						
	Inflow from pipeline				.08 3.73	7800	10.8	1.93	2.11	1.09	
1:10P	Covina Boulevard			10	1.62	10900	17.7	4.42	1.62	.37	
2:40P	End of percolation			10A	0.00						

BIG DALTON WASH — PERCOLATION MEASUREMENTS — January 31, 1938 — SET NO. 3

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	Ben Lomond Avenue			11	5.82	3500			.95		This test made before scarification
8:50A	Citrus Avenue			12	4.87	6100			3.47		
9:12A	Azusa Avenue			13	1.40	6100			1.17		
9:30A	Vincent Avenue Little Dalton			14	.23 ~~1.14~~ 1.37	8200		•	.18		
11:40A	Covina Blvd. Pipe line discharge			15 16	1.19 ~~1.47~~ 2.66	11000			1.85		
12:40P	Junction with Walnut Creek			17	.81	1320			.81		
1:10P	1/4 mi. below junc.			17A	0						

BIG TUJUNGA WASH — PERCOLATION MEASUREMENTS — July 5, 1938 — SET NO. 4

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
1:45P	Stonehurst Avenue			1	13.6				4.5		
2:10P	San Fernando Road			2	9.1				9.1		
3:00P	Laurel Cn. Blvd.			3	0						Working in spreading channel above Laurel Cn. Blvd.

BIG TUJUNGA WASH — PERCOLATION MEASUREMENTS — July 6, 1938 — SET NO. 5

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
6:30A	San Fernando Road			4	59.3				8.7		Work not complete above Laurel Cn. Blvd.
7:25A	Laurel Cn. Blvd.			5	50.6				46.0		
8:00A	Sherman Way			6	4.6				4.6		Before any work done below Laurel Cn. Blvd.
8:20A	1000 ft. below Sherman Way			7	0						

BIG TUJUNGA WASH — PERCOLATION MEASUREMENTS — July 6, 1938 — SET NO. 6

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	Stonehurst Avenue			8	65.6				4.8		Spreading work with tractor about complete above Laurel Cn. Blvd.
2:30P	San Fernando Road			9	60.8				28.6		
3:15P	Laurel Cn. Blvd.			10	32.2				32.2		No work below Laurel Cn. Blvd.
4:30P	500 ft. below Roscoe Blvd.			11	0						

BIG TUJUNGA WASH — PERCOLATION MEASUREMENTS — July 12, 1938 — SET NO. 7

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
9:30A	Sta. F213R below submerged dam			154	125.2					32.6	
11:00A	Stonehurst Avenue			12	92.6					10.7	
11:45A	San Fernando Road			13	81.9					10.2	
12:30P	Laurel Cn. Blvd.			14	71.7					71.7	Water flows across Sherman Way and reaches to Van Owen St. in the early morning hours receding as the day warms up. Flow stopped at Sherman Way about 1000A.
1:15P	500 ft. above Sherman Way			15	0						

BIG TUJUNGA WASH — PERCOLATION MEASUREMENTS — July 12, 1938 — SET NO. 8

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
4:45P	San Fernando Road			16	80.4				14.0		
5:20P	Laurel Cn. Blvd.			17	66.4				66.4		
6:00P	1500 ft. above Sherman Way			18	0						

BIG TUJUNGA WASH — PERCOLATION MEASUREMENTS — SET NO. 9 — July 15, 1938

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
10:20A	San Fernando Road			19	84.0						
						4635	57.2	6.08	21.0	3.45	
11:10A	Laurel Cn. Blvd.			20	63.0						
						9380	69.2	14.89	63.0	4.23	
2:30P	1500 ft. below Strathern Street			21	0						

BIG TUJUNGA WASH — PERCOLATION MEASUREMENTS — SET NO. 10 — July 28, 1938

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
5:00P	Sta. F213R below submerged dam			157	64.0				4.7		
9:15A	Sta. F20R Stonehurst Avenue			21	59.3				1.0		
10:00A	San Fernando Road			22	58.3				16.8		
10:25A	Laurel Cn. Blvd.			23	41.5				41.5		
12:20P	2000 ft. above			24	0						Water was crossing Van Owen St. at 8:00A. Est. 0.20 c.f.s.

LITTLE DALTON WASH — PERCOLATION MEASUREMENTS — SET NO. 11 — January 18, 1937

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
10:40A	200 ft. below Pasadena Street			1	4.69						
						5400	9.3	1.16	0.97	0.84	
11:30A	Broadway			2	3.72						
						7000	13.7	2.20	2.13	0.97	
12:26P	Junction with Big Dalton			3	1.59						For continuation of this set see set No. 2.

LITTLE DALTON WASH — PERCOLATION MEASUREMENTS — SET NO. 12 — January 31, 1938

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
10:00A	1/4 mi. above Ben Lomond Avenue			4	1.89						
						12500				.30	
10:30A	Azusa Avenue			5	1.59						
						5500				.19	
10:50A	Bonita Avenue			6	1.40						
						3600				.31	
11:10A	Vincent Ave. junc. with Big Dalton			7	1.09						For continuation of this set see set No. 3.

SAN DIMAS WASH — PERCOLATION MEASUREMENTS — SET NO. 13 — January 24, 1938

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
9:50A	1/4 mi. above Grand Avenue			1	3.29						
						4200	8.1	.78	.29	.37	Bottom of Channel sealed
10:55A	Ben Lomond Avenue			2	3.00						
11:20A	Ben Lomond discharge & inflow from pipe line			3	3.30						
						5700	7.1	.92	.46	.50	Bottom of Channel sealed
11:44A	Cerritos Avenue			4	2.84						
						5300	11.1	1.35	2.55	1.89	Some spreading has been done below Cerritos Avenue
1:05P	Cypress Avenue			5	.29						
						1900	3.5	.15	.29	1.93	
2:10P	End of Percolation			5A	0						

GROUND WATER

&

CONSERVATION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
Hydraulic Department

CONSERVATION AND GROUND WATER

Seasons of 1936-37 and 1937-38

FOREWORD:

In the act of the California Legislature which created the Los Angeles County Flood Control District, Section Four specifies that: "Said Board of Supervisors shall have jurisdiction and powers, and it shall be their duty, to employ by resolution a competent engineer or engineers to investigate carefully the best plan to control the flood and storm waters of said District, and to conserve such waters for beneficial and useful purposes by spreading, storing, retaining or causing to percolate into the soil within said District, or to save or conserve in any manner any or all such waters - - - - -".

To comply with the foregoing mandate, storm waters originating in the mountain areas are stored in surface reservoirs to amounts consistent with their regulating capacities until such time as storm waters of valley origin have passed out of the stream channels. Then, after that, the stored mountain waters are released from the reservoirs at such rates as will permit their absorption in the stream channels or in off-channel spreading grounds. It is therefore necessary that the District's two functions - flood control and conservation - be closely coordinated.

In order to ultimately attain the maximum degree of conservation consistent with adequate flood control the Conservation and Ground Water Section began a long range study, about eleven years ago, of the conservation requirements of the several ground water basins of the District, and of the methods by which those requirements could be met.

At that time there were available a number of publications of the U. S. Geological Survey and the Division of Water Resources of the State of California, bearing upon the subject. Those of the Division of Water Resources formed a particularly appropriate and satisfactory basis for the study.

Since then the Conservation and Ground Water Section, through extensive field and office work, has gathered, compiled and analyzed a large mass of additional data and such work should be continued until the objectives of the study have been reached.

During the Seasons of 1936-37 and 1937-38 the Conservation and Ground Water Section was engaged principally in (1) measuring water levels at several hundred wells; (2) tracing the sources of ground water pollution; (3) studying the intrusion of sea water into the Coastal basins; (4) measuring the rate of ground water movement from upper to lower basins; (5) preparing

semi-annual ground water contour maps and key well graphs; (6) operating permanently constructed spreading grounds and supervising the spreading operations of private agencies; (7) scarifying channels and operating temporary test spreading grounds; and (8) preparing reports on the above operations as required.

WELL MEASUREMENTS:

The Section has on file pertinent information concerning more than 6,000 wells located in the alluvial basins of the county. This information is entered on cards, appropriately indexed, and is as follows:

Location
Owner
Description and Elevation of Reference Point
Use
Capacity
Depth of Well and Size of Casing
Pumping Equipment
Year Drilled or Dug and Name of Driller
Depth to Ground Water When Drilled
Driller's Log
Dates and Depths to Water of All Subsequent Measurements.

During the period under discussion about 1,200 of these wells were measured semi-annually; 75 (designated as Key Wells - see Map VIII) were measured monthly; a smaller number were measured at more frequent intervals; and a few were equipped with automatic recorders which provide a continuous record of water table fluctuations.

The wells are generally measured with a steel surveyor's tape; but in some cases an insulated electric sounding device is used; and, in cases of wells equipped with air lines and pressure gauges an appropriate factor is applied to the gage reading.

TRACING THE SOURCES OF GROUND WATER POLLUTION:

The expansion of urban territory and industrial districts, and the development of numerous oil fields in the county, have resulted in an increased volume of sewage, industrial waste and oil field or refinery waste entering the streams and seeping down to the ground water bodies. These public nuisances constitute a definite menace to the integrity of the water and must be abated wherever possible. In general they increase the salinity of the water, and when the salinity exceeds 15 grains of chloride per gallon the water becomes unfit for most domestic or agricultural uses.

The Section, therefore, takes samples frequently from streams, sewage disposal plant effluents, and from wells in the industrial districts and oil fields, and analyzes them.

In general, only partial analyses are made - that is, only the carbonate, bicarbonate and chloride contents are determined.

During the 1936-37, 1937-38 period about 1,000 partial analyses were made in the District's laboratory.

STUDYING THE INTRUSION OF SEA WATER:

The depletion of the ground water bodies in the basins bordering the coast has induced an intrusion of sea water. The area contaminated at present is not large, but it may increase. Therefore, the Section samples and analyzes the waters from about 25 selected wells in the coastal district at monthly intervals and is also cooperating with other local agencies and with the National Resources Board in an effort to determine what should be done to halt the intrusion.

Particular attention has been given the Ballona Creek district; because, since the construction of the new channel tide water enters the channel to a distance of three miles. In that district the waters of about 70 wells and test holes are sampled and analyzed at monthly intervals.

MEASURING THE RATE OF GROUND WATER MOVEMENT FROM UPPER TO LOWER BASINS:

There are 26 separate and distinct ground water basins in Los Angeles County. In general, they are structural depressions in the bed rock which have been filled with alluvium to depths varying from a few feet to more than 1,000 feet; and they are separated by hills, buried bed rock ridges and fault barriers. In some places, particularly in the eastern part of the county, the topographically lower basins receive a large part of their replenishment by underflow from the upper basins.

During the seasons under discussion - seasons of more than normal rainfall - an unusual opportunity presented itself to study the rate of underflow, through and over barriers, from the mouth of San Antonio Canyon to the City of Pomona, a distance of about six miles. (See Map XXI) By making weekly measurements of a large number of selected wells, the movement of the ground water southwestward from the spreading grounds at the mouth of the canyon could be traced. Its retardation at the barriers was also observed, as well as its slow passage through the barriers and its rapid passage over them when the water table in the upper basins rose to certain elevations. The results of this study are shown graphically on Page 362.

PREPARING SEMI-ANNUAL GROUND WATER CONTOUR MAPS AND KEY WELL GRAPHS:

When the semi-annual well measurements are made the depths to water are reduced to elevations with reference to mean sea level (U.S.G.S. datum) and the elevations plotted on base maps. Contour lines are then drawn through points of equal elevation. These lines show the position and configuration of

the water table in the unconfined aquifers and the hydrostatic head in the pressure aquifers.

By comparing maps of succeeding seasons the rise or fall of the water tables in aquifers may be determined; and by multiplying the rise or fall in terms of feet by certain experimentally determined factors of specific yield the volume by which a basin has been replenished or depleted may be computed. The Spring and Fall maps of the seasons under discussion are included herein as Maps IX to XX.

The continuous record of measurements of the key wells in the various basins provides a basis for computing changes in storage for intervening periods. (See key well graphs on Pages 334 to 348).

SUMMARY OF WATER TABLE CHANGES:

Following is a summary of water table changes in a number of basins and sub-basins from the Fall of 1931 to the Spring of 1938. These two seasons have been selected for comparison because in general they mark the lowest and highest water table elevations in a long period of years:

Basin	Fall 1931 to Fall 1937 (Feet)	Fall 1937 to Spring 1938 (Feet)
San Fernando Valley		
1. Main part, southerly from San Fernando city	+ 9.0	+ 6.0
2. Sylmar	+11.0	+13.5
3. Pacoima	+29.6	+ 0.5
4. Tujunga	+ 7.4	+10.6
5. Verdugo	+ 8.6	+16.5
San Gabriel Valley		
1. Main Basin	+32.0(a)	+21.5(a)
2. Monk Hill	+34.5	+18.2
3. Pasadena	-12.1	+ 2.1
4. Santa Anita	+21.5	+16.7
5. Canyon Basins	(b)	(b)
6. Glendora	+21.6	+19.4
7. Way Hill	+33.5	+14.2
8. San Dimas	- 8.0	+16.6
9. Foothill	+80.9	+20.9
10. Puente	+ 4.0	+ 8.3
11. San Jose Creek	-17.4	+10.2
Coastal Plain		
1. Western Area		
a. Northern Section	(c)	(c)

Basin	Fall 1931 to Fall 1937 (feet)	Fall 1937 to Spring 1938 (feet)
Coastal Plain (con't)		
b. Southern Section	+ 0.6	+ 1.5
2. Hollywood	+ 2.8	- 0.5
3. Central Area		
a. Forebay	+ 2.8	+14.3
b. Pressure Area	+ 5.0 to +15.0 (d)	+ 5.0 to +15.0 (d)
Upper Santa Ana Valley		
1. Chino	-17.1	+ 6.2
2. Pomona	-48.0	+16.4
3. Live Oak	-11.2	+61.4
4. Lower Claremont	(e)	+40.3
5. Upper Claremont	+103.5	+12.7

NOTES:

a. These changes represent gains in storage - 125,000 acre-feet between Fall of 1931 and Fall of 1937 and 97,000 acre-feet between Fall of 1937 and Spring of 1938.

b. These small basins are replenished each season by spreading.

c. Seasonal changes are scarcely noticeable in this basin. However, a local cone of depression resulting from continuous pumping was drawn down 50 feet between the Fall of 1931 and the Fall of 1937 i.e., to an elevation 90 feet below sea level.

d. These figures represent pressure changes as measured in feet.

e. The District has no reliable records prior to 1935.

OPERATING PERMANENTLY CONSTRUCTED SPREADING GROUNDS AND SUPERVISING THE SPREADING OPERATIONS OF PRIVATE AGENCIES:

The following tabulations show the Section's conservation activities for the years under discussion and also a summary of past activities.

The locations, volumes spread and years in which spreading operations were conducted in the various permanently constructed spreading grounds.

1. Pacoima Spreading Grounds.

Location: In San Fernando Valley, extending along both sides of Pacoima Wash from Arleta Street to Woodman Avenue, 5-3/4 miles below Pacoima Dam.
Operation: Owned and operated by the District.
Area: 165 acres gross area.
Date of Construction: Land purchased by District in 1932. Diversion works and distribution system built in 1932-33. Placed in operation April, 1933.
Capacity: Present capacity 75 to 100 c.f.s., initial ultimate capacity possible to develop estimated at 294 c.f.s. initial, reducing to 100 c.f.s. with extended run.
Amounts Spread:

Year	Acre-feet Spread
1932-33	26
1933-34	230
1934-35	1200
1935-36	2000
1936-37	5560
1937-38	3750
1938-39	380

2. San Antonio Spreading Grounds.

Location: Extending along both sides of San Antonio Wash from the mouth of the canyon to Base Line Road.
Operation: Operated by Pomona Valley Protective Association.
Area: 771 acres under development.
Capacity: Present capacity 239 c.f.s., ultimate capacity 400 c.f.s.

Amounts Spread:

Year	Acre-feet Spread
1930-31	201
1931-32	7801
1932-33	111
1933-34	630
1934-35	6834
1935-36	1652
1936-37	22552
1937-38	15000

3. Big Dalton Spreading Grounds.

Location: At mouth of Big Dalton Canyon near Glendora, 2 miles below Big Dalton Dam.
Operation: Constructed by the District and operated by the Flood Control District and the Glendora Consolidated Mutual Irrigation Company.
Date of Construction: 1930.
Area: 30 acres.
Capacity: 15 c.f.s.
Amounts Spread:

Year	Acre-feet Spread
1930-31	10
1931-32	394
1932-33	0
1933-34	100
1934-35	131
1935-36	0
1936-37	866
1937-38	397

4. Little Dalton Spreading Grounds.

Location: At mouth of Little Dalton Canyon, 3 miles northeast of Glendora.
Operation: Constructed by the District and operated by the Flood Control District and the Glendora Consolidated Mutual Irrigation Company.
Area: 16.4 acres under easement.
Capacity: Approximately 5 c.f.s.
Amounts Spread:

Year	Acre-feet Spread
1931-32	160
1932-33 to 1935-36	0
1936-37	275
1937-38	201

5. Thompson Creek Spreading Grounds.

Location: Three miles north of Claremont, east of channel below Thompson Creek Dam.
Operation: Developed by District and operated by Pomona Valley Protective Association.
Area: 75 acres.
Amounts Spread: Not measured.

6. San Gabriel River Water Committee Spreading Grounds.

Location: In Canyon Basin, east of the San Gabriel River channel between the mouth of the canyon and the P.E.R.R., northwest of Azusa.
Operation: Owned by the San Gabriel River Water Spreading Corporation, operated by the San Gabriel River Water Committee.
Area: 500 acres.
Date Started: 1916.
Capacity: 100 c.f.s.
Amounts Spread:

Year	Acre-feet	Year	Acre-feet
1919-20	7,974	1923-24	5,069
1920-21	10,082	1924-25	2,878
1921-22	6,132	1925-26	8,440
1922-23	12,408		

Beginning with 1926-27, more complete records permit the tabulation of the total acre-feet of San Gabriel River water spread by the San Gabriel River Water Committee in the vicinity of Azusa.

	Spread in Canyon Basin			Spread in Main Basin				
	(a)	(b)		(c)	(d)	(e)		
Year	Duarte Canal	E.Side Sprdg. Grounds	Total in Cn. Basin	Brush Land	Covina Canal	Azusa Canal	Total in Main Basin	Total
1926-27	4,267	14,293	18,560	0	1,283	1,424	2,707	21,267
1927-28	4,942	12,595	17,537	0	1,694	1,576	3,270	20,807
1928-29	4,316	11,299	15,615	0	1,864	1,637	3,501	19,116
1929-30	4.515	12.092	16.607	0	3.345	2.553	5.898	22,505
1930-31	3,078	5,282	8,360	256	2,866	2,705	5,827	14,187
1931-32	5,638	19,690	25,328	2,704	5,259	4,143	12,106	37,434
1932-33	3,489	9,897	13,386	744	3,124	2,752	6,620	20,006

	Spread in Canyon Basin			Spread in Main Basin				
	(a)	(b)		(c)	(d)	(e)		
Year	Duarte Canal	E.Side Sprdg. Grounds	Total in Cn. Basin	Brush Land	Covina Canal	Azusa Canal	Total in Main Basin	Total
1933-34	2,990	9,411	12,401	764	1,503	2,239	4,506	16,907
1934-35	9,635	24,680	34,315	2,893	6,774	7,025	17,692	52,007
1935-36	3,154	14,843	17,997	2.036	2,166	2,773	6,975	24,972
1936-37	7,610	26,204	33,814	4,040	8,485	7,772	20,297	54,111
1937-38	6,997	24,630	31,627	1,855	4,507	6,772	13,134	44,761

a. Water from Duarte Canal spread in approximately 20 acres of spreading grounds in Canyon Basin west of San Gabriel River Channel.

b. Water spread in San Gabriel River Water Committee spreading grounds in Canyon Basin.

c. Water conducted through Glendora Consolidated Mutual Irrigation Company and Azusa Agricultural Water Company pipe lines to brush land in the Main Basin between First Street and Gladstone Avenue and west of Azusa Avenue.

d. and e. Water diverted from the Covina and Azusa Canals into Big and Little Dalton and San Dimas Wash channels.

SCARIFYING OF CHANNELS AND OPERATION OF TEMPORARY OFF-CHANNEL TEST SPREADING GROUNDS:

San Gabriel River Spreading Operations by the District:

1934-35

Channels scarified with teams and plows in the Main Basin below Arrow Highway and in the intake area of the Coastal Plain.

1935-36

No scarifying was done but water was diverted from the main channels in Main Basin into old side channels in which numerous earth and rock checks had been built to divert water into brush lands. Seven acres of off-channel basins were constructed below Peck Road on the Rio Hondo.

1936-37

More extensive scarification of channels was done with tractor and rooter. Distributing furrows were built in the area south of Arrow Highway and east of the San Gabriel River. Peck Road basins were increased from 7 to 15 acres. Twelve and three quarter acres of spreading basins were built north of Arrow Highway.

1937-38

Channels scarified. No spreading was done in the Main Basin. Forty-nine acres of spreading basins were built along the east bank of the Rio Hondo below the U.P.R.R. near Montebello in the Coastal Plain.

Channel Scarifying Methods and Results:

The reduction in channel percolation accompanying low flows at the end of a season is mainly due to three causes: (1) reduction of wetted area resulting from the tendency of a small stream to scour a narrow meandering channel in the river bed; (2) clogging of the voids in the bed material by silt and algal deposits; and (3) cementing of the surface particles of channel material resulting from chemical precipitation, especially calcium carbonate and magnesium carbonate, which occurs during the period of low flow when the temperature of the water is high. The cemented channel beds resist erosion to the extent that flows in excess of 6,000 c.f.s. are required to unseal them.

It has been found that the channels may be effectively unsealed by scarification, thus obviating the need for making large releases for this purpose. An important function of the scarifying work is the leveling of the channel beds in the lower sections composed of material which is subject to scour. The furrows made in the process of scarifying serve to spread the water over the channel and prevent the formation of narrow meandering channels.

The record of operations for 1936-37 shows that the average maximum flow passing Foothill Boulevard which would all be absorbed in Main and Coastal Basin channels was 565 c.f.s. (400 c.f.s. net after deducting amounts spread in Main Basin). In 1935-36, when no scarifying was done, a flow of 135 c.f.s. (55 c.f.s. net after deducting amounts spread in Main Basin), just reached the Coastal Basin limit of percolation. In 1934-35, when the channels were scarified with teams and plows, the channels absorbed 300 c.f.s.

1. Peck Road Diversion:

Location: West of Peck Road along south bank of Rio Hondo near El Monte.
Area: Seven acres of basins constructed in 1935-36, increased to 15 acres in 1936-37.
Capacity: Twenty-two c.f.s. in 1935-36, 45 c.f.s. in 1936-37.

Amounts Spread:

Year	Acre-feet Spread
1935-36	1411
1936-37	4618

Discontinued in April, 1937 because of high water table.
Maximum and Minimum Rates: Maximum 7.5 c.f.s. per wetted acre.
Minimum 2.7 c.f.s. per wetted acre.

2. Santa Fe Diversion.

Location: 100 feet south of Santa Fe R.R. bridge across San Gabriel River channel near Azusa.
Area: 1000 acres plus or minus east of channel and south to Los Angeles Street. Scattered units.
Capacity: 1935-36, 50 c.f.s., 1936-37, 150 c.f.s.
Amounts Spread:

Year	Acre-feet Spread
1935-36	3532
1936-37	22520

Percolation Rates:

a. Basins in old overflow channels: maximum, 1.5 c.f.s. per wetted acre, minimum 0.7 c.f.s. per wetted acre.
b. Basins in old channels after blasting with dynamite. Average rate, 4.0 c.f.s. per wetted acre.
c. Shallow cover of brush land: average rate 2.4 c.f.s. per wetted acre.
d. Contour basins above Arrow Highway, maximum 5 c.f.s. per wetted acre, minimum 3.8 c.f.s. per wetted acre. Average rate for period 4.6 c.f.s. per wetted acre.

3. Los Angeles Street Diversion.

Location: Along east bank of San Gabriel River from Los Angeles Street to Garvey Avenue.
Area: 30 acres plus or minus.
Capacity: 35 c.f.s.
Amounts Spread:

Year	Acre-feet Spread
1935-36	1894
1936-37	2850

Total Spreading on San Gabriel River in 1935-36 and 1936-37:

1935-36	Canyon Basin Spreading	Main Basin Spreading	Channel Percolation	
	acre-feet	acre-feet	acre-feet	
San Gabriel River Water Committee	18,500	7,240		
F. C. District		6,800		
Natural Percolation			8,500	
Totals	18,500	14,040	8,500	41,040
1936-37				
San Gabriel River Water Committee	31,422	15,531		
F. C. District		29,888		
Natural Percolation			56,716	
Totals	31,422	45,419	56,716	133,557

Coastal Basin Spreading:

4. Rio Hondo Coastal Spreading Grounds.

Location: Along east bank of Rio Hondo from 1/4 mile below U.P.R.R. south to Center Street.
Area: 49 acres.
Capacity: 50 c.f.s.
Amount Spread: 1937-38, 3700 acre-feet.

CONSERVATION ACCOMPLISHED IN CHANNELS:

Releases from reservoirs regulated to percolating capacity of channels below except during large storms. Percolating capacity of channels maintained by scarifying.

1. Big Tujunga Dam.

Channel: Big Tujunga Wash from dam to Magnolia Boulevard.
Percolating Capacity of Channel: 300 c.f.s.
Amount Conserved:

Year	Acre-feet Released	Acre-feet in Excess of Channel Capacity	Acre-feet Conserved
1931-32	13,168	6,397	6,771
1932-33	4,518	0	4,518
1933-34	4,234	0	4,234
1934-35	10,698	672	10,026
1935-36	5,508	0	5,508
1936-37	25,729	18,327	7,402
1937-38	65,022	43,724	21,298

% conserved, 46.

Excluding the large runoff year 1937-38, total water conserved October 1, 1931 to September 30, 1937 - 38,500 acre-feet.

Percent of water conserved 60.

2. Santa Anita Dam.

Channel: Santa Anita Wash from dam to Arrow Highway.
Percolating Capacity: 30 c.f.s.
Amount Conserved:

Year	Acre-feet Released	Acre-feet in Excess of Channel Capacity	Acre-feet Conserved
1931-32	3,587	897	2,690
1932-33	2,022	81	1,941
1933-34	2,622	1,276	1,346
1934-35	3,585	234	3,351
1935-36	2,535	467	2,068
1936-37	8,616	4,171	4,445
1937-38	16,689	12,143	4,546

% conserved 51.

Excluding the large runoff year 1937-38, total water conserved October 1, 1931 to September 30, 1937 - 15,800 acre-feet.

Percent of water conserved 69.

3. Eaton Dam.

Channel: Eaton Dam to Rio Hondo.
Percolating Capacity: 14 c.f.s.
Amount Conserved:

Year	Reservoir Percolation Acre-feet	Channel Percolation Acre-feet	Total Acre-feet
1936-37	1,540	970	2,510
1937-38	1,550	870	2,420

4. Sawpit Dam.

Channel: Sawpit Dam to Rio Hondo.
Percolating Capacity: 10 c.f.s.
Amount Conserved: Not computed.

5. Puddingstone Diversion.

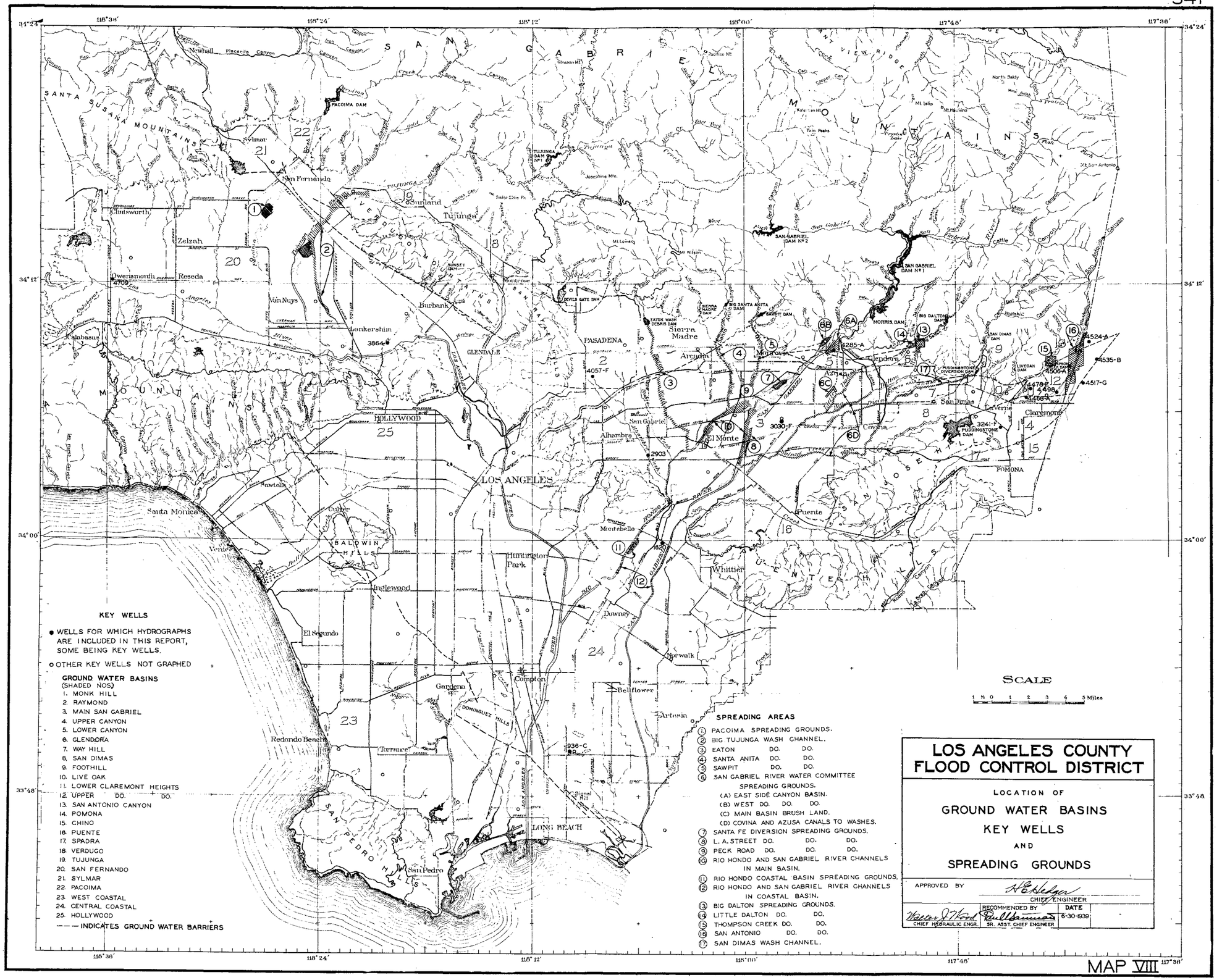
Channel: San Dimas Wash from Puddingstone Diversion to Glendora Boulevard.
Percolating Capacity: 7 c.f.s.
Amount Conserved: Not computed.

REPORTS:

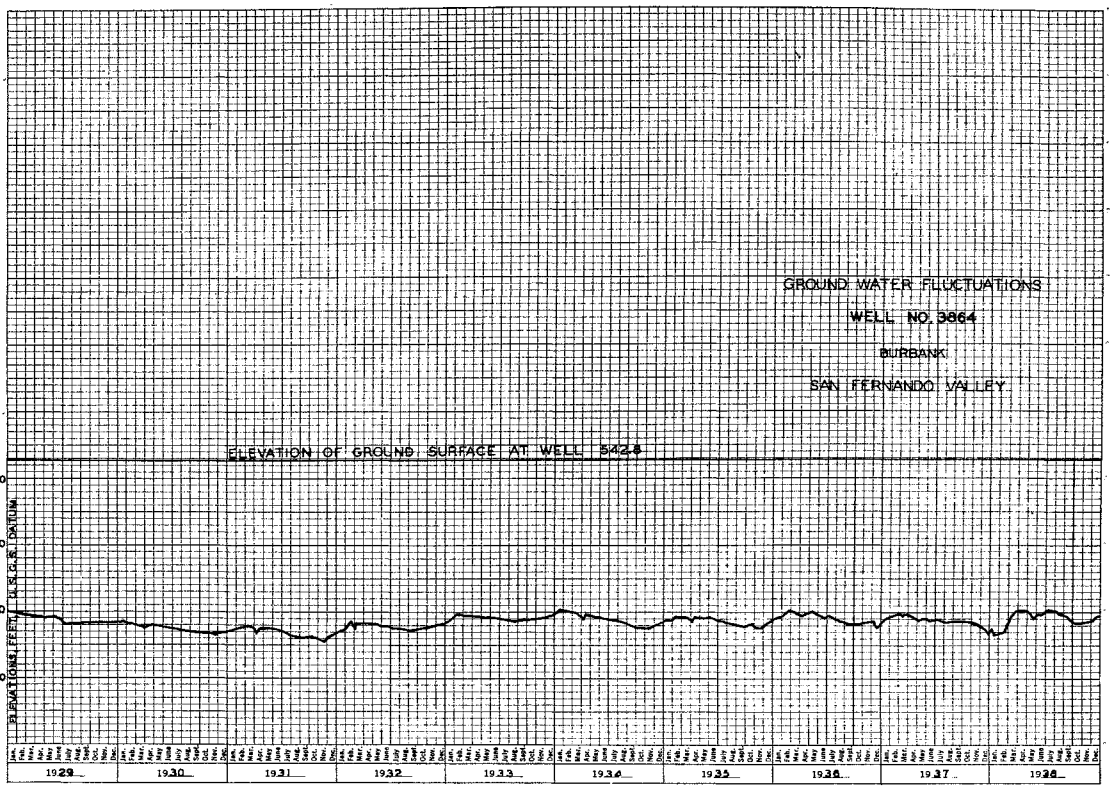
In order to summarize certain conservation studies on current projects the Section prepares occasional formal reports.

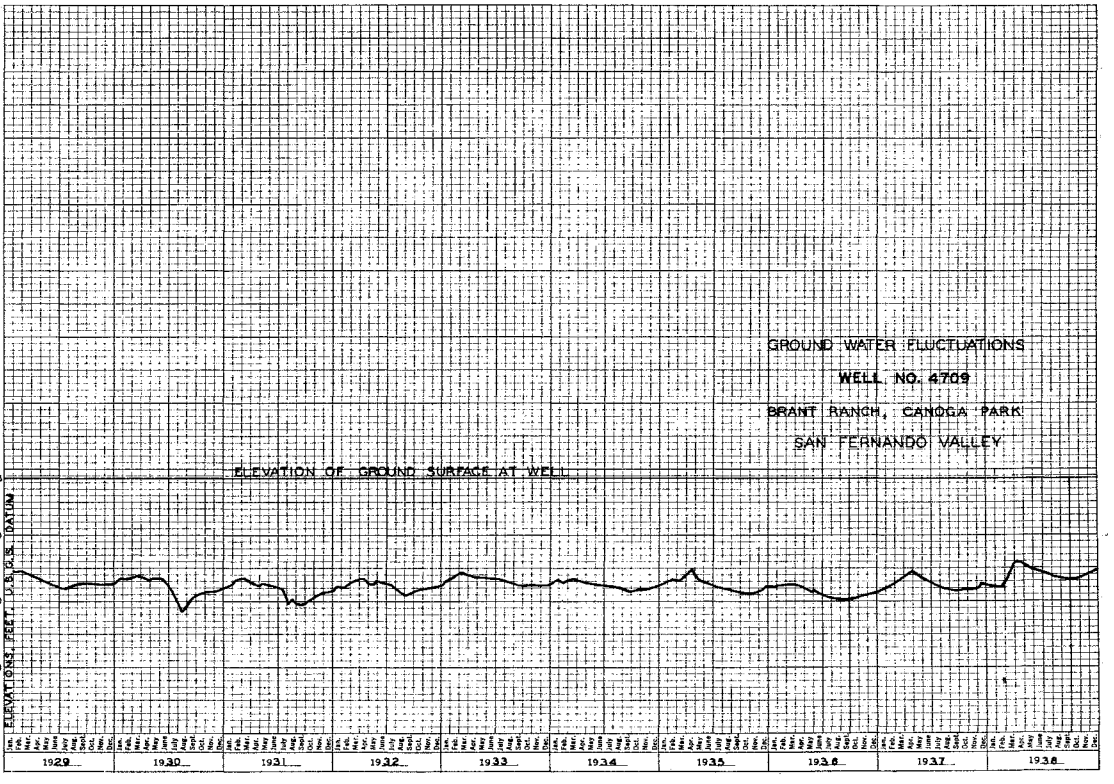
During the period under discussion two such reports were prepared on the San Antonio spreading grounds, one on the Pacoima spreading grounds, and one on the Rio Hondo spreading grounds.

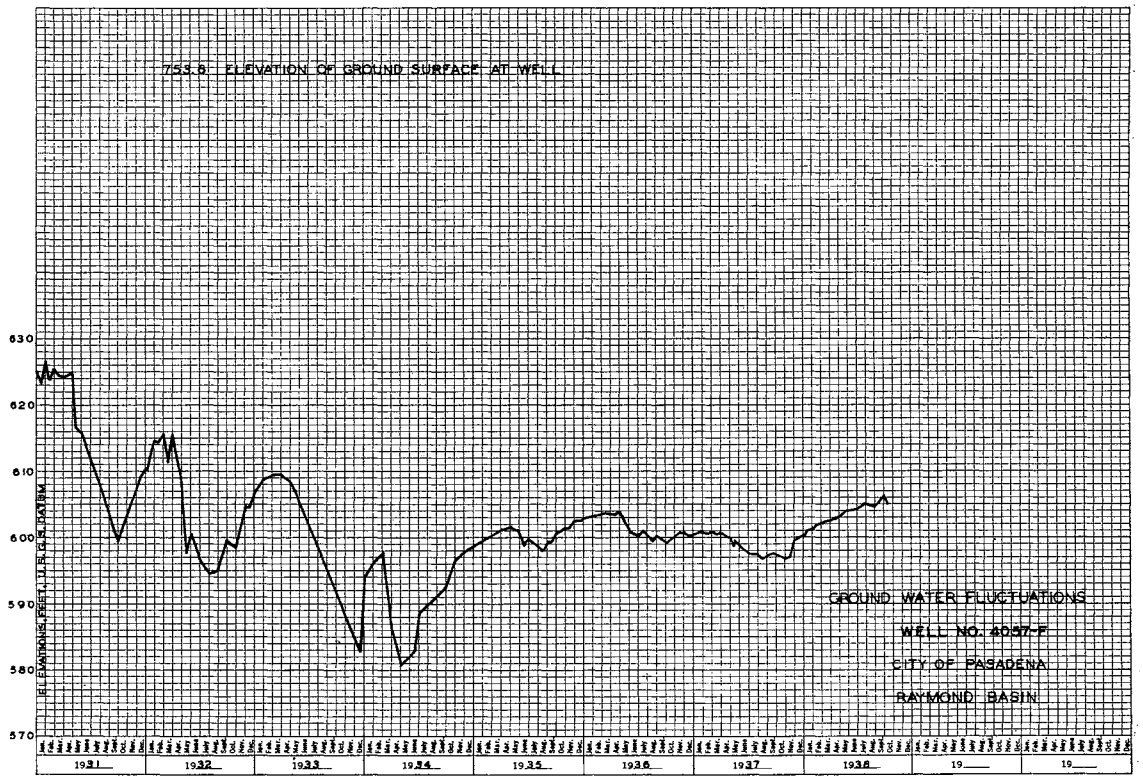
All field and office work was down under the direction of L. W. Jordan.

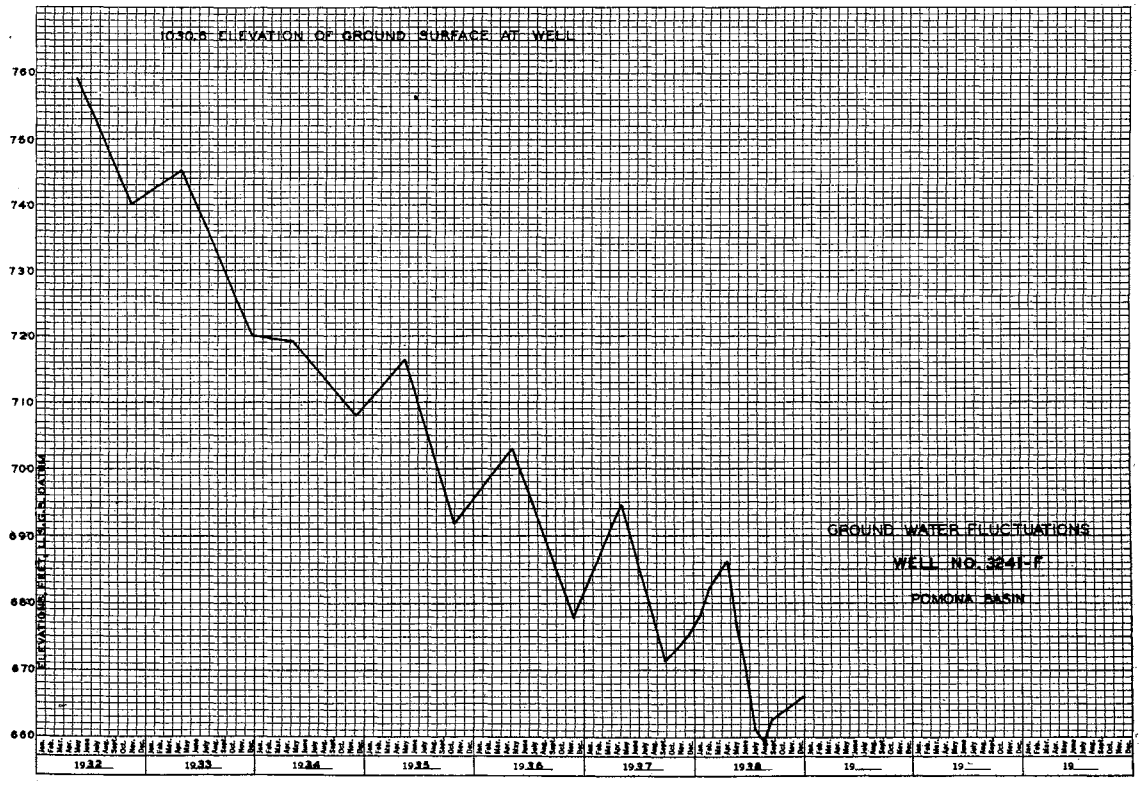

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
LOCATION OF
GROUND WATER BASINS
KEY WELLS
AND
SPREADING GROUNDS
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
DATE
6-30-1939
CHIEF HYDRAULIC ENGR.
SR. ASST. CHIEF ENGINEER
KEY WELLS
● WELLS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT, SOME BEING KEY WELLS.
o OTHER KEY WELLS NOT GRAPHED
GROUND WATER BASINS
(SHADED NOS)
1. MONK HILL
2. RAYMOND
3. MAIN SAN GABRIEL
4. UPPER CANYON
5. LOWER CANYON
6. GLENDORA
7. WAY HILL
8. SAN DIMAS
9. FOOTHILL
10. LIVE OAK
11. LOWER CLAREMONT HEIGHTS
12. UPPER DO. DO.
13. SAN ANTONIO CANYON
14. POMONA
15. CHINO
16. PUENTE
17. SPADRA
18. VERDUGO
19. TUJUNGA
20. SAN FERNANDO
21. SYLMAR
22. PACOIMA
23. WEST COASTAL
24. CENTRAL COASTAL
25. HOLLYWOOD
— — — INDICATES GROUND WATER BARRIERS
SPREADING AREAS
1 PACOIMA SPREADING GROUNDS.
2 BIG TUJUNGA WASH CHANNEL.
3 EATON DO. DO.
4 SANTA ANITA DO. DO.
5 SAWPIT DO. DO.
6 SAN GABRIEL RIVER WATER COMMITTEE SPREADING GROUNDS.
(A) EAST SIDE CANYON BASIN.
(B) WEST DO. DO. DO.
(C) MAIN BASIN BRUSH LAND.
(D) COVINA AND AZUSA CANALS TO WASHES.
7 SANTA FE DIVERSION SPREADING GROUNDS.
8 L. A. STREET DO. DO. DO.
9 PECK ROAD DO. DO. DO.
10 RIO HONDO AND SAN GABRIEL RIVER CHANNELS IN MAIN BASIN.
11 RIO HONDO COASTAL BASIN SPREADING GROUNDS.
12 RIO HONDO AND SAN GABRIEL RIVER CHANNELS IN COASTAL BASIN.
13 BIG DALTON SPREADING GROUNDS.
14 LITTLE DALTON DO. DO.
15 THOMPSON CREEK DO. DO.
16 SAN ANTONIO DO. DO.
17 SAN DIMAS WASH CHANNEL.
SCALE
1 ½ 0 1 2 3 4 5 Miles
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SAN JOSE HILLS
PUENTE HILLS
SAN PEDRO HILLS
BALDWIN HILLS
LOS ANGELES
HOLLYWOOD
GLENDALE
PASADENA
Sierra Madre
Arcadia
Glendora
Azusa
Covina
San Dimas
Claremont
POMONA
Puente
Whittier
Montebello
Huntington Park
Downey
Norwalk
Bellflower
Artesia
Compton
Gardena
Torrance
Redondo Beach
Inglewood
El Segundo
Santa Monica
Venice
Culver
Sawtelle
Alhambra
San Gabriel
El Monte
Sunland
Tujunga
San Fernando
Sylmar
Newhall
Chatsworth
Zelzah
Reseda
Owensmouth
Van Nuys
Burbank
Lankershim
Calabasas
Montrose
Monrovia
Sunset Dam
Devils Gate Dam
Eaton Wash Debris Dam
Sierra Madre Dam
Big Santa Anita Dam
Sawpit Dam
Morris Dam
Big Dalton Dam
San Dimas Dam
Puddingstone Diversion Dam
Puddingstone Dam
Pacoima Dam
Tujunga Dam No 1
San Gabriel Dam No 2
San Gabriel Dam No 1
Pacoima Canyon
Placerita Canyon
Sierra Madre Canyon
Rio Hondo River
Los Angeles River
Dominguez Hills
Signal Hill
LONG BEACH
San Pedro
118°36′
118°24′
118°12′
118°00′
117°48′
117°36′
34°24′
34°12′
34°00′
33°48′

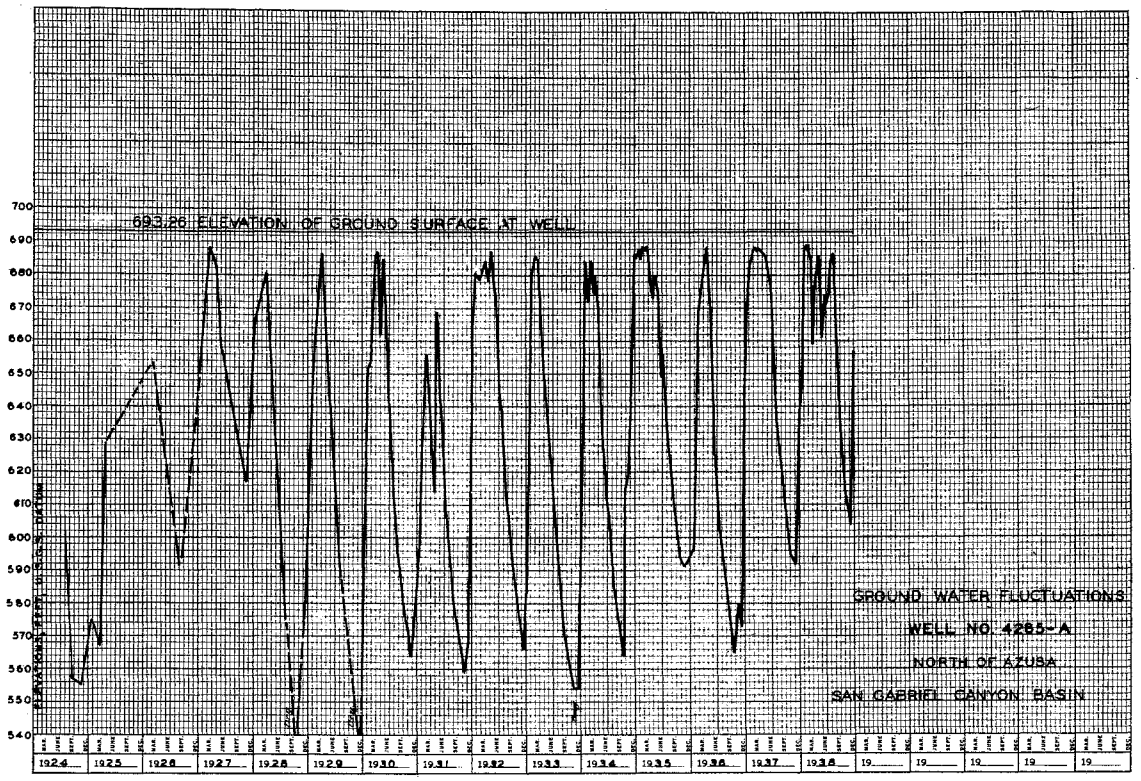
MAP VIII

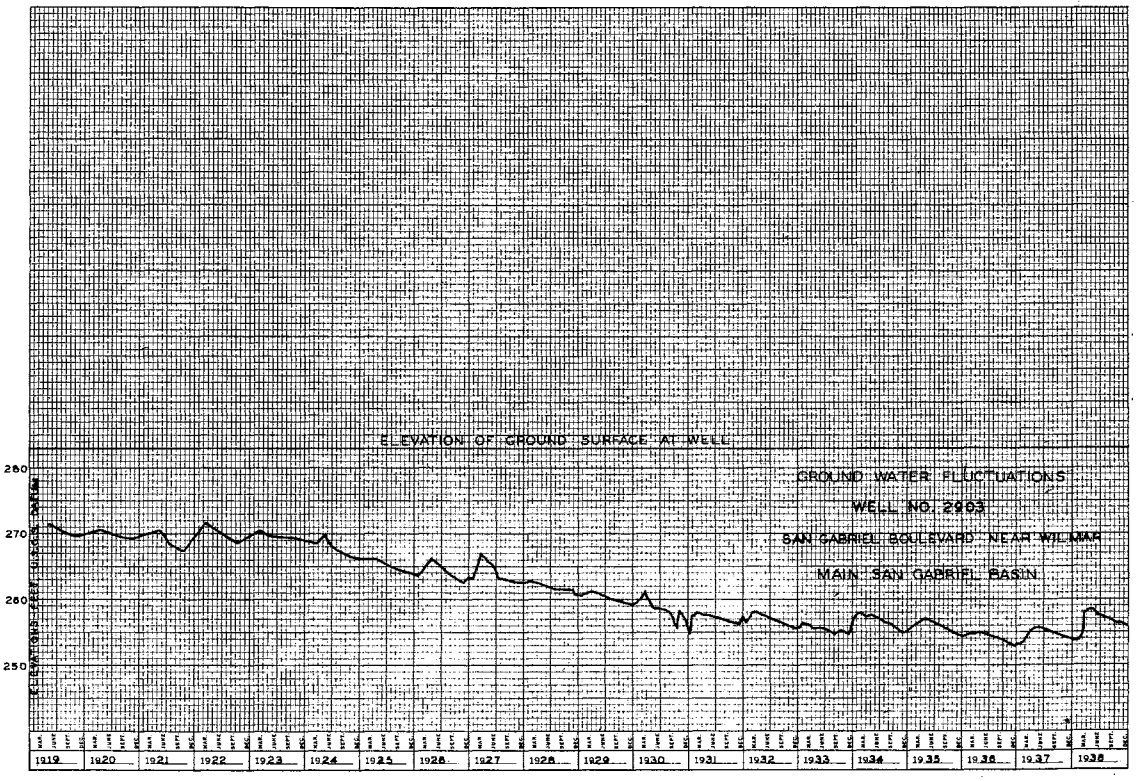

GROUND WATER FLUCTUATIONS
WELL NO. 3864
BURBANK
SAN FERNANDO VALLEY
ELEVATION OF GROUND SURFACE AT WELL 542.8
ELEVATIONS, FEET, U.S.C.G.S. DATUM
540
530
520
510
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938

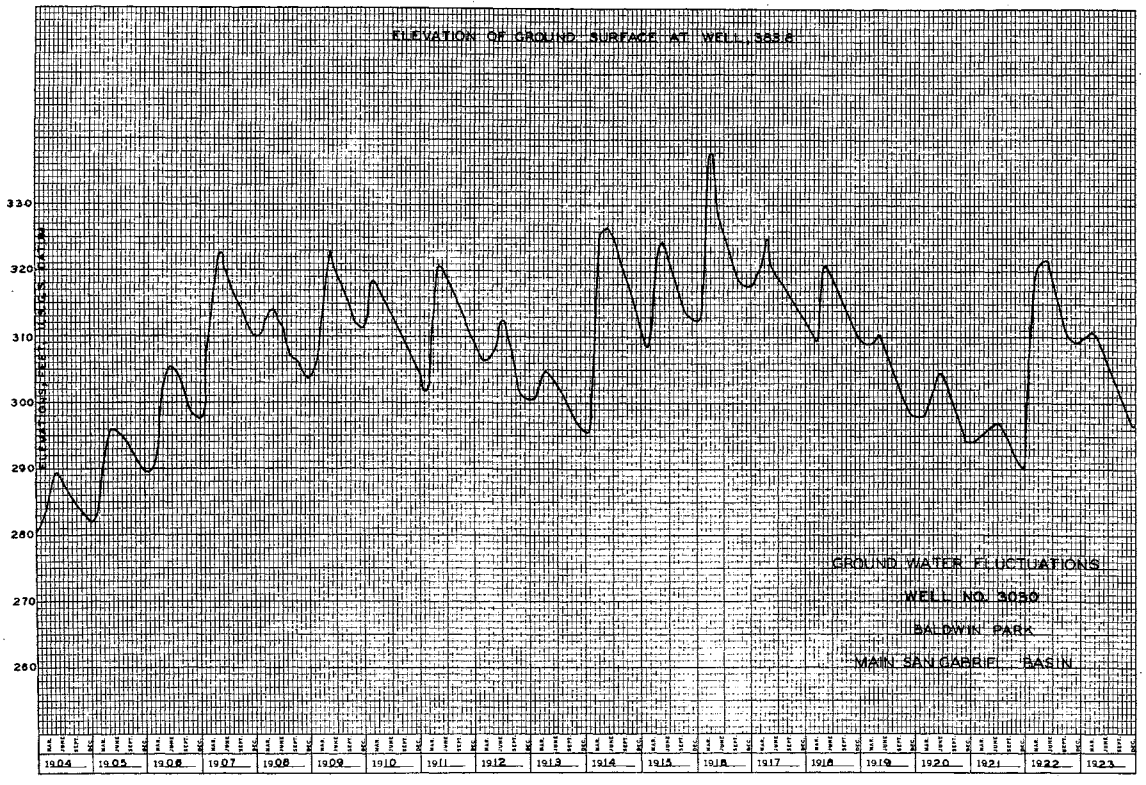

GROUND WATER FLUCTUATIONS
WELL NO. 4709
BRANT RANCH, CANOGA PARK
SAN FERNANDO VALLEY
ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS, FEET, U.S.C.G.S. DATUM
788.6
780
770
760
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938

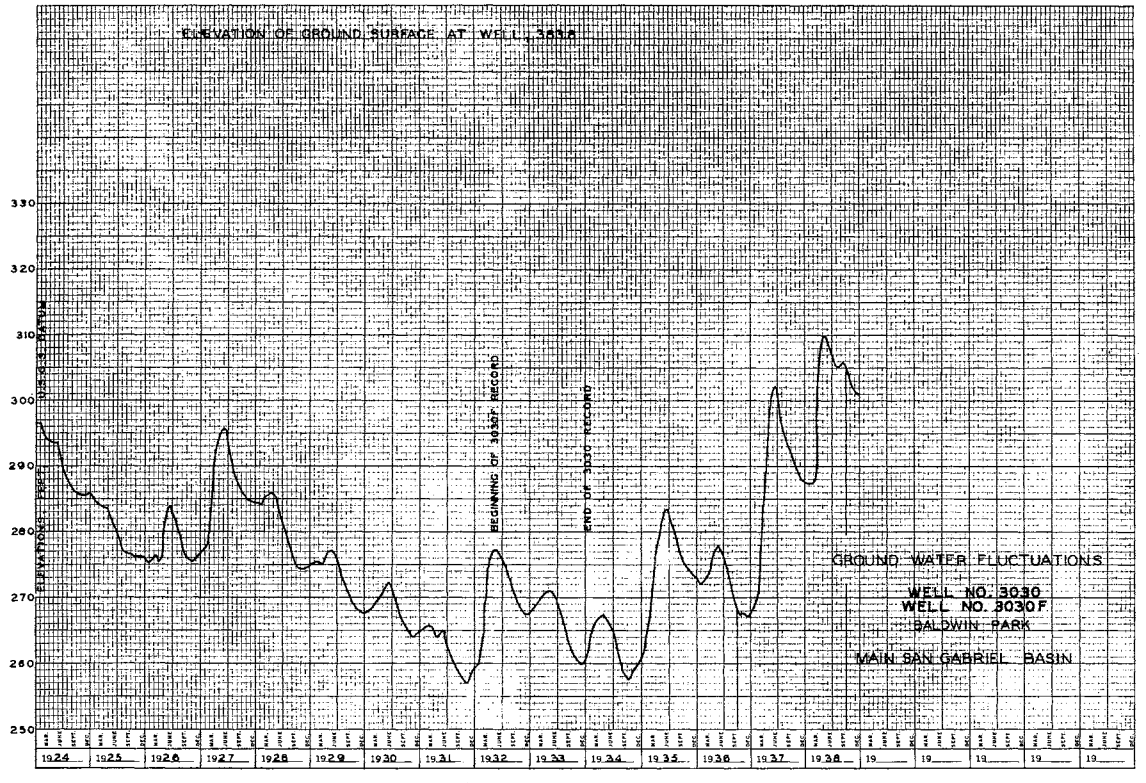

753.8 ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS, FEET, U.S.G.S. DATUM
630
620
610
600
590
580
570
1931
1932
1933
1934
1935
1936
1937
1938
19
19
GROUND WATER FLUCTUATIONS
WELL NO. 4037-F
CITY OF PASADENA
RAYMOND BASIN

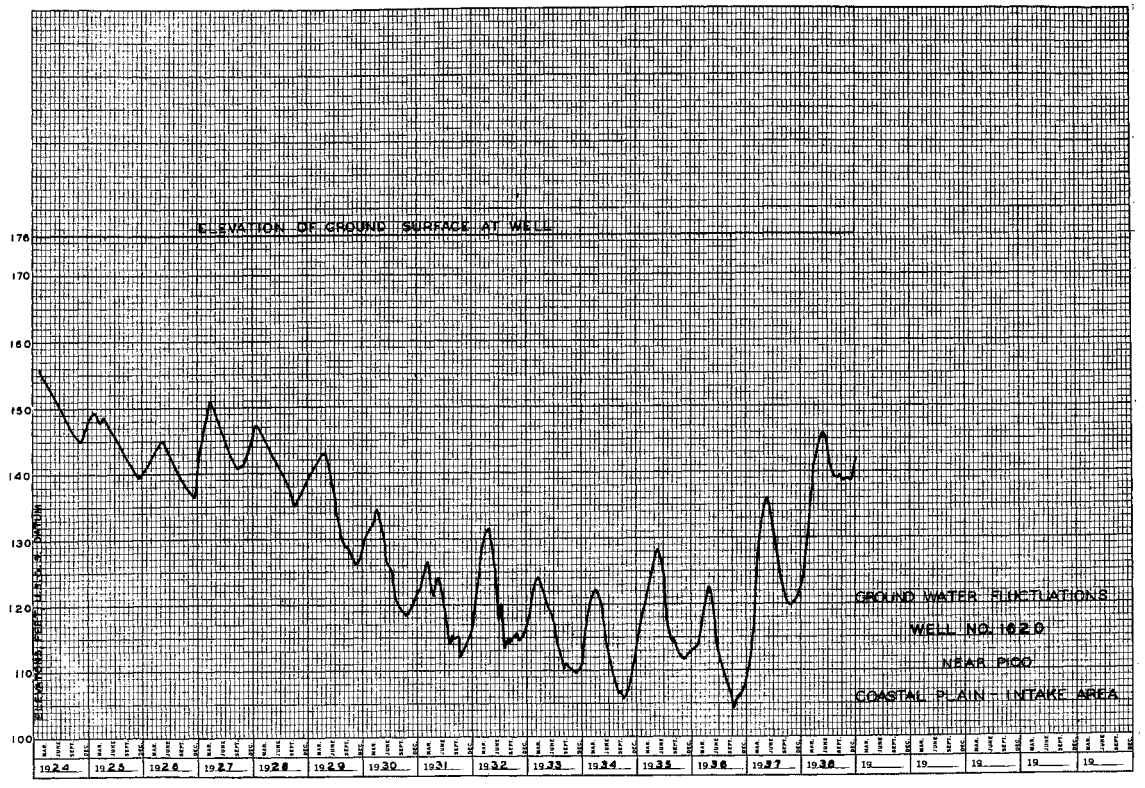

1030.6 ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS, FEET, U.S.G.S. DATUM
760
750
740
730
720
710
700
690
680
670
660
1932
1933
1934
1935
1936
1937
1938
19
19
19
GROUND WATER FLUCTUATIONS
WELL NO. 3241-F
POMONA BASIN

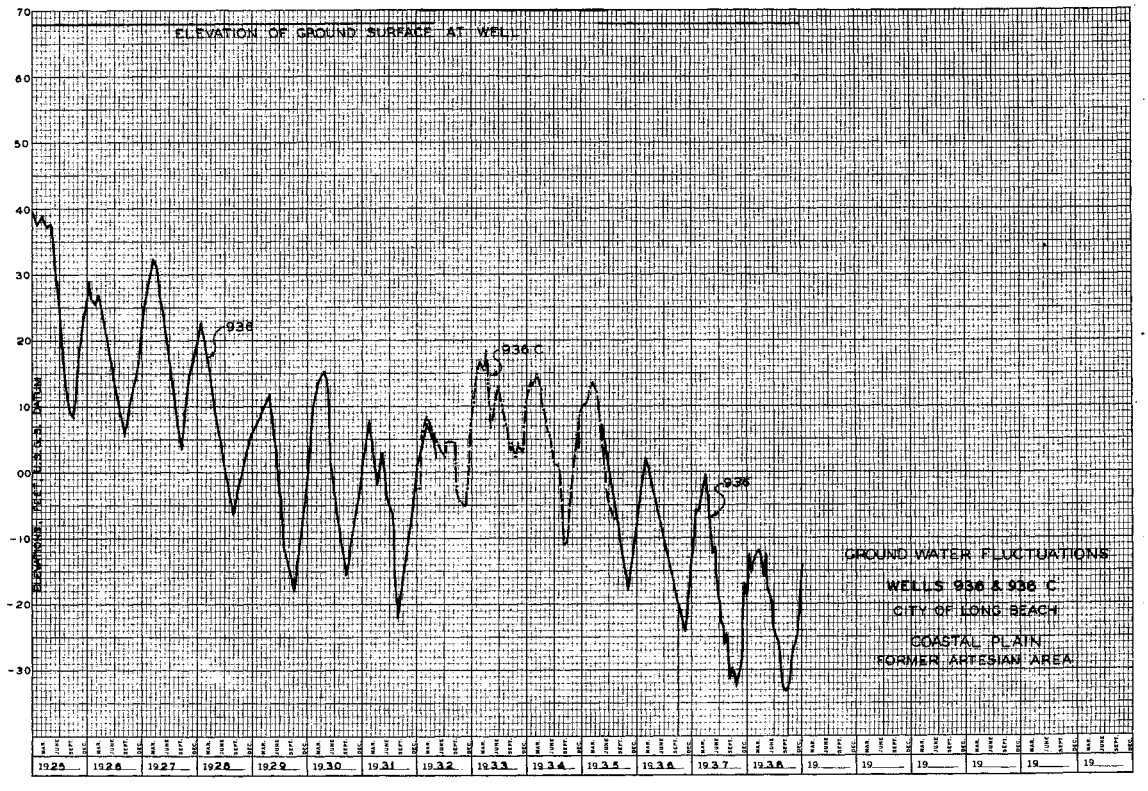

693.26 ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS REFER TO U.S.C.S. DATUM
700
690
680
670
660
650
640
630
620
610
600
590
580
570
560
550
540
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
GROUND WATER FLUCTUATIONS
WELL NO. 4285-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN

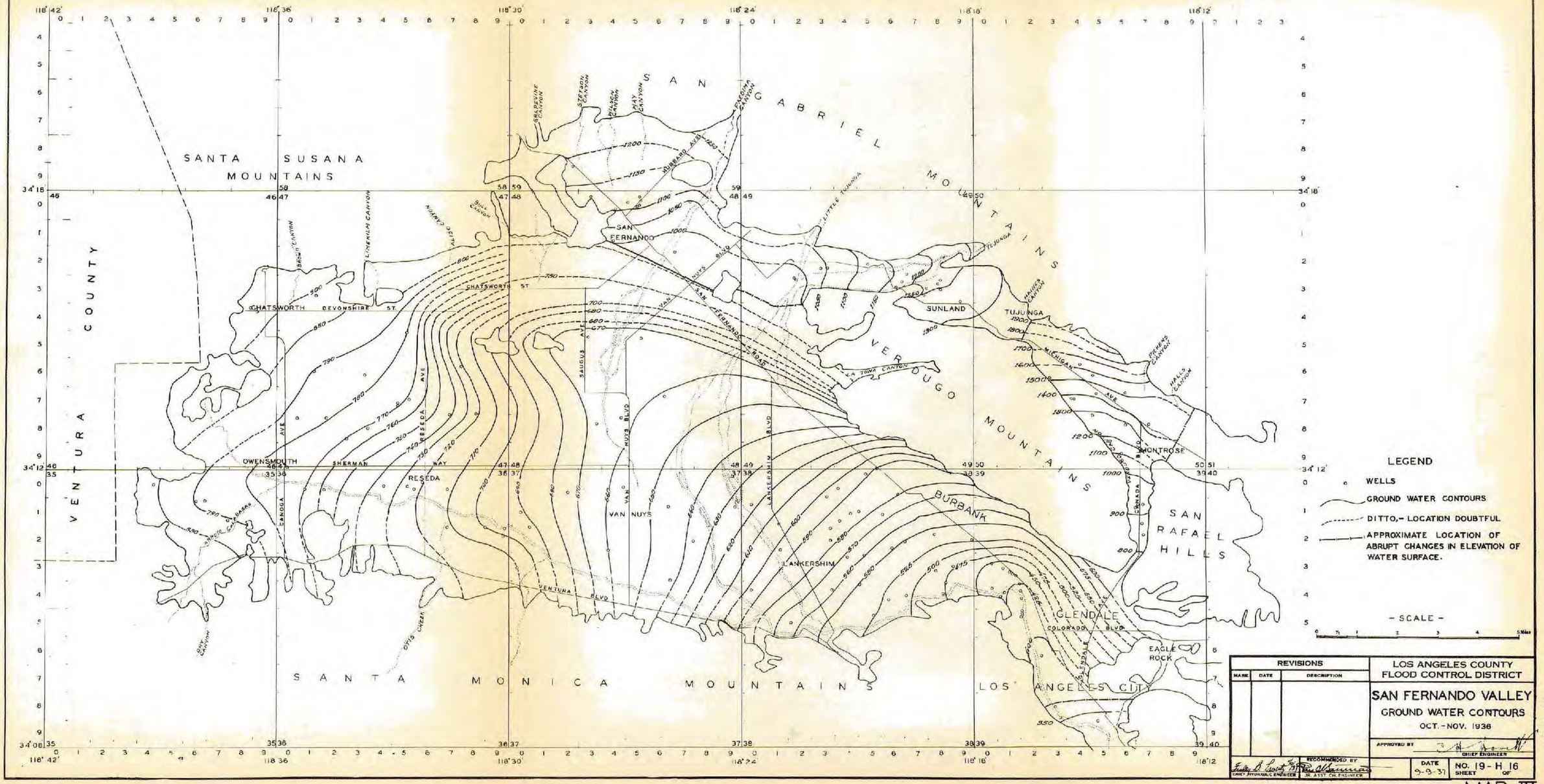

ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS REFER TO U.S.C.S. DATUM
280
270
260
250
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
GROUND WATER FLUCTUATIONS
WELL NO. 2903
SAN GABRIEL BOULEVARD NEAR WILMAR
MAIN SAN GABRIEL BASIN


ELEVATION OF GROUND SURFACE AT WELL 3030
ELEVATIONS IN FEET ABOVE SEA LEVEL DATUM
330
320
310
300
290
280
270
260
GROUND WATER FLUCTUATIONS
WELL NO. 3030
BALDWIN PARK
MAIN SAN GABRIEL BASIN
1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923

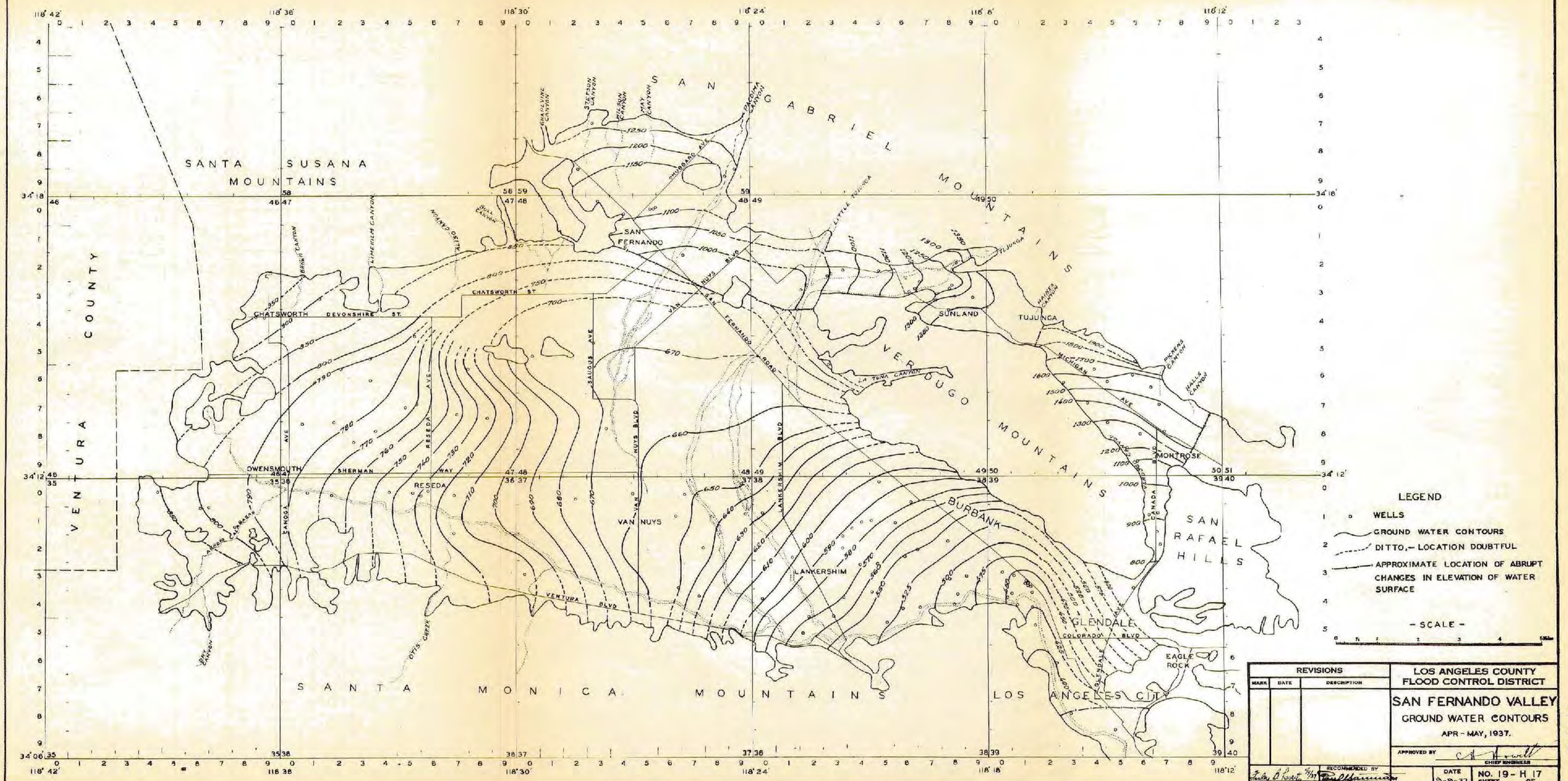

ELEVATION OF GROUND SURFACE AT WELL 3030F
ELEVATIONS IN FEET ABOVE SEA LEVEL DATUM
330
320
310
300
290
280
270
260
250
BEGINNING OF 3030F RECORD
END OF 3030 RECORD
GROUND WATER FLUCTUATIONS
WELL NO. 3030
WELL NO. 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 19 19 19 19 19


ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS IN FEET U.S.C.G.S. DATUM
GROUND WATER FLUCTUATIONS
WELL NO. 162 O
NEAR PICO
COASTAL PLAIN - INTAKE AREA


ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS IN FEET U.S.C.G.S. DATUM
936
936 C
936
GROUND WATER FLUCTUATIONS
WELLS 936 & 936 C
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA


SANTA SUSANA MOUNTAINS
SAN GABRIEL MOUNTAINS
VERDUGO MOUNTAINS
SAN RAFAEL HILLS
SANTA MONICA MOUNTAINS
LOS ANGELES CITY
VENTURA COUNTY
SAN FERNANDO
CHATSWORTH
OWENSMOUTH
RESEDA
VAN NUYS
LANKERSHIM
BURBANK
GLENDALE
SUNLAND
TUJUNGA
MONTROSE
EAGLE ROCK
LEGEND
WELLS
GROUND WATER CONTOURS
DITTO,- LOCATION DOUBTFUL
APPROXIMATE LOCATION OF ABRUPT CHANGES IN ELEVATION OF WATER SURFACE.
- SCALE -
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY
GROUND WATER CONTOURS
OCT.-NOV. 1936
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC ENGINEER
JR. ASST. CH. ENGINEER
DATE 9-9-37
NO. 19-H 16
SHEET OF

MAP IX



LEGEND

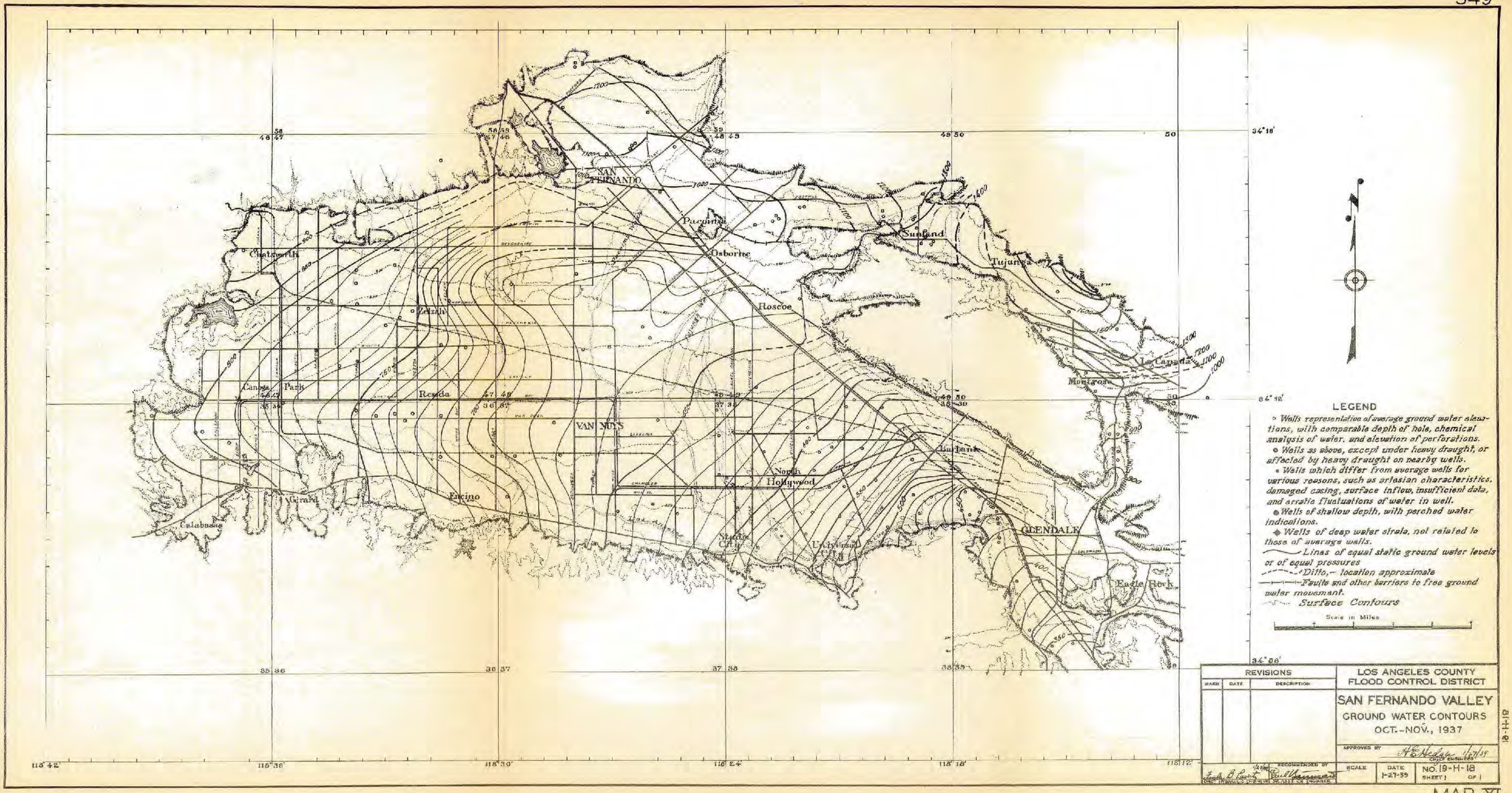
- WELLS
- GROUND WATER CONTOURS
- DITTO,— LOCATION DOUBTFUL
- APPROXIMATE LOCATION OF ABRUPT CHANGES IN ELEVATION OF WATER SURFACE

– SCALE –

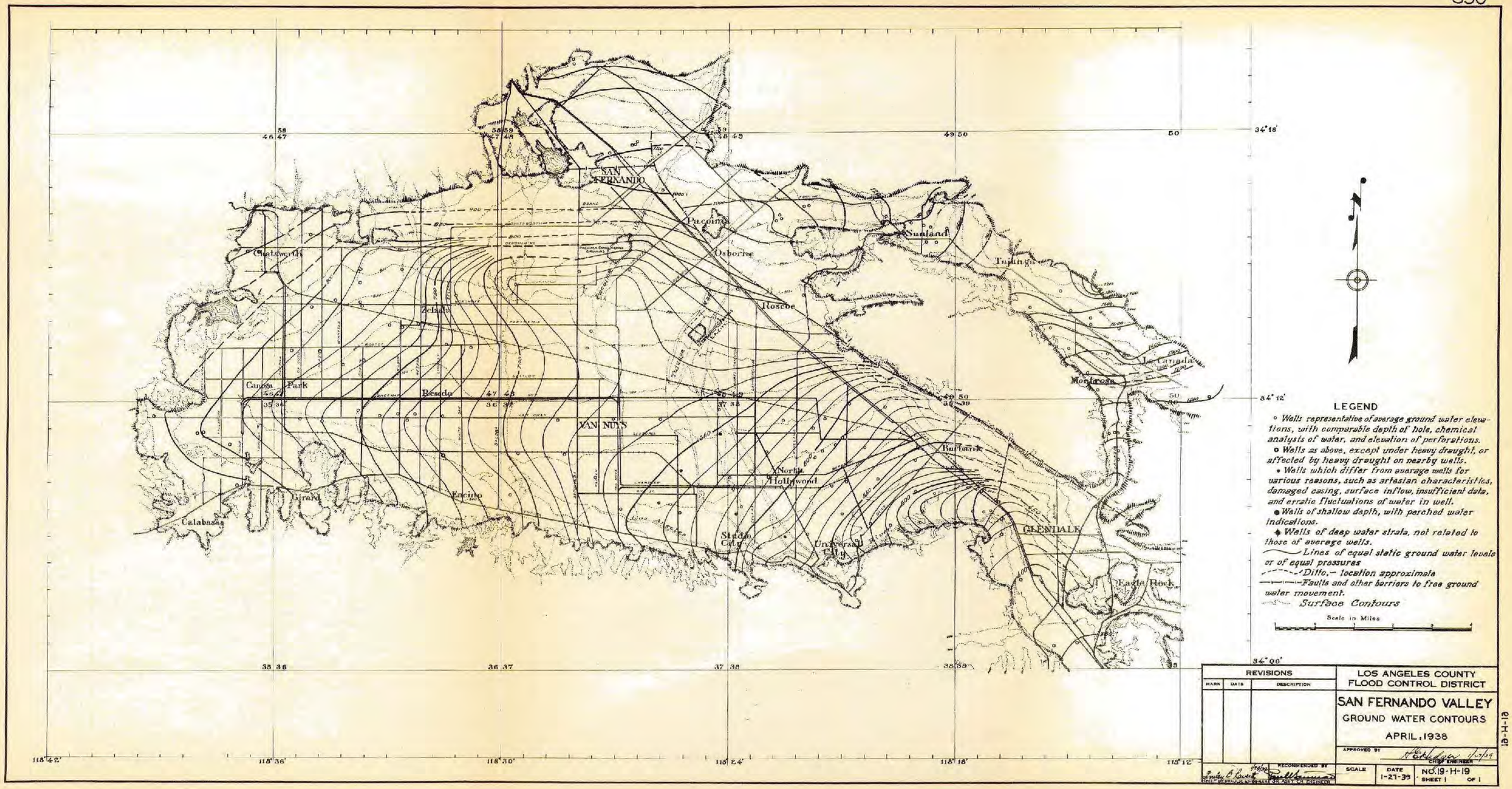
REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	SAN FERNANDO VALLEY GROUND WATER CONTOURS APR – MAY, 1937.
			APPROVED BY _____ CHIEF ENGINEER
RECOMMENDED BY: _____ CHIEF HYDRAULIC ENGINEER		RECOMMENDED BY: _____ JR. ASST. CH. ENGINEER	DATE 9-9-37
			NO. 19 – H 17 SHEET OF

19-H 17

MAP X


SAN FERNANDO
Pacoima
Osborne
Sunland
Tujunga
Chatsworth
Zelzah
Roscoe
La Cañada
Montrose
Canoga Park
Reseda
VAN NUYS
Burbank
North Hollywood
Encino
Girard
Calabasas
Studio City
Universal City
GLENDALE
Eagle Rock
34°18'
34°12'
34°06'
118°42'
118°36'
118°30'
118°24'
118°18'
118°12'
LEGEND
Wells representative of average ground water elevations, with comparable depth of hole, chemical analysis of water, and elevation of perforations.
Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well.
Wells of shallow depth, with perched water indications.
Wells of deep water strata, not related to those of average wells.
Lines of equal static ground water levels or of equal pressures
Ditto,– location approximate
Faults and other barriers to free ground water movement.
Surface Contours
Scale in Miles
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY
GROUND WATER CONTOURS
OCT.-NOV., 1937
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
SCALE
DATE 1-27-39
NO. 19-H-18
SHEET 1 OF 1
18-H-19

MAP XI


SAN FERNANDO
Pacoima
Osborne
Sunland
Tujunga
Roscoe
Chatsworth
Zelzah
Canoga Park
Resedo
VAN NUYS
Burbank
North Hollywood
Girard
Encino
Calabasas
Studio City
Universal City
GLENDALE
Eagle Rock
Montrose
La Canada
34° 18'
34° 12'
34° 06'
118° 42'
118° 36'
118° 30'
118° 24'
118° 18'
118° 12'
LEGEND
Wells representative of average ground water elevations, with comparable depth of hole, chemical analysis of water, and elevation of perforations.
Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well.
Wells of shallow depth, with perched water indications.
Wells of deep water strata, not related to those of average wells.
Lines of equal static ground water levels or of equal pressures
Ditto,— location approximate
Faults and other barriers to free ground water movement.
Surface Contours
Scale in Miles
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY
GROUND WATER CONTOURS
APRIL, 1938
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
SCALE
DATE
1-27-39
NO. 19-H-19
SHEET 1 OF 1
19-H-19

MAP XII

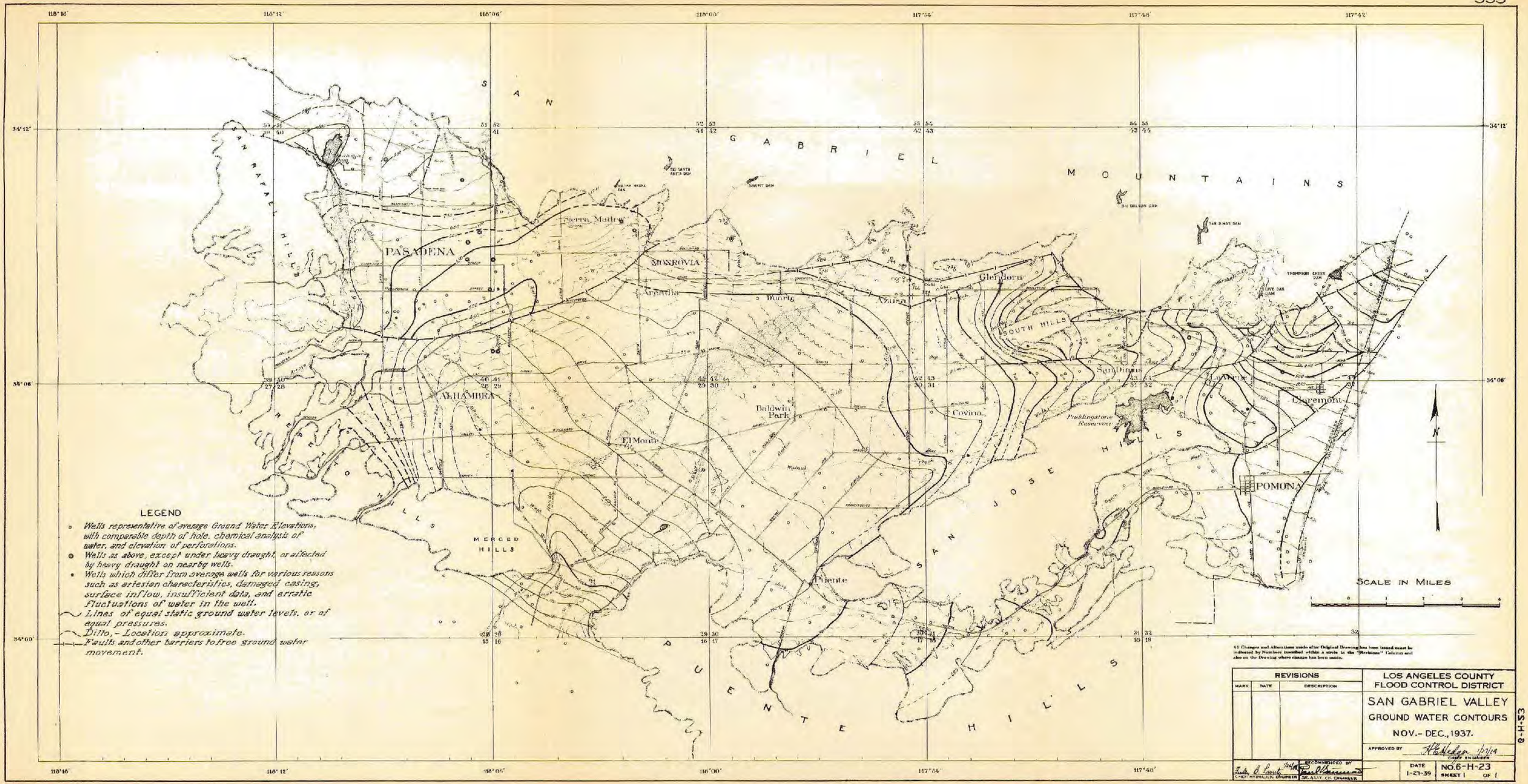
SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
RESETTO HILLS
MERCED HILLS
SAN JOSE HILLS
PUENTE HILLS
SOUTH HILLS
PASADENA
Sierra Madre
MONROVIA
Arcadia
Duarte
Azusa
Glendora
San Dimas
La Verne
Claremont
POMONA
ALHAMBRA
El Monte
Baldwin Park
Covina
Puente
Puddingstone Reservoir
BIG SANTA ANITA DAM
SIERRA MADRE DAM
SAWPIT DAM
BIG DALTON DAM
SAN DIMAS DAM
LIVE OAK DAM
THOMPSON CREEK DAM
LEGEND
WELLS
GROUND WATER CONTOURS
DITTO,-LOCATION DOUBTFUL
APPROXIMATE LOCATION OF ABRUPT CHANGES IN ELEVATION OF WATER SURFACE
SCALE IN MILES
All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
OCT.– NOV., 1936.
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC ENGINEER
DR. ASST. CH. ENGINEER
DATE 9-3-1937
NO. 6 - H 21
SHEET OF

MAP XIII

All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	SAN GABRIEL VALLEY GROUND WATER CONTOURS APR.-MAY 1937
			APPROVED BY: CHIEF ENGINEER
CHIEF HYDRAULIC ENGINEER	RECOMMENDED BY: JR. ASST. CH. ENGINEER		DATE 9-3-1937 NO. 6 - H 22 SHEET OF

MAP XIV


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
PASADENA
Sierra Madre
MONROVIA
Arcadia
Duarte
Azusa
Glendora
SOUTH HILLS
San Dimas
La Verne
Claremont
ALHAMBRA
Baldwin Park
Covina
El Monte
Puddingstone Reservoir
POMONA
MERCED HILLS
Puente
SAN JOSE HILLS
PUENTE HILLS
SCALE IN MILES
LEGEND
Wells representative of average Ground Water Elevations, with comparable depth of hole, chemical analysis of water, and elevation of perforations.
Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in the well.
Lines of equal static ground water levels, or of equal pressures.
Ditto, - Location approximate.
Faults and other barriers to free ground water movement.
All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
NOV.- DEC., 1937.
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC ENGINEER
GR. ASST. CH. ENGINEER
DATE 1-27-39
NO. 6-H-23
SHEET 1 OF 1
8-H-53

MAP XV

SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
PASADENA
Sierra Madre
MONROVIA
Arcadia
Duarte
Azusa
Glendora
SOUTH HILLS
San Dimas
Laverne
Claremont
ALHAMBRA
Baldwin Park
Covina
Puddingstone Reservoir
El Monte
POMONA
MERCED HILLS
Belvedere Gardens
Montebello
Puente
Maywood
WHITTIER
SAN JOSE HILLS
PUENTE HILLS
SCALE IN MILES
LEGEND
Wells representative of average Ground Water Elevations, with comparable depth of hole, chemical analysis of water, and elevation of perforations.
Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons, such as artesian-characteristics damaged casing, surface inflow, insufficient data, and erratic fluctuation of water in well.
Lines of equal static ground water levels, or of equal pressures.
Ditto,—location approximate.
Faults and other barriers to free ground water movement.
Surface Contours.
All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
APRIL 1938
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC ENGINEER
ASST. CH. ENGINEER
DATE 1-27-39
NO. 6-H-24
SHEET 1 OF 1

MAP XVI

SANTA MONICA MOUNTAINS
LOS ANGELES
BALDWIN HILLS
PUENTE HILLS
DOMINGUEZ HILLS
SAN PEDRO HILLS
ORANGE COUNTY
SAN PEDRO BAY
LONG BEACH
SANTA MONICA
Venice
Beverly Hills
Sawtelle
Palms
Culver City
INGLEWOOD
El Segundo
Hawthorne
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Gardena
Harbor City
Wilmington
SAN PEDRO
Athens
WATTS
Lynwood
COMPTON
Vernon
HUNTINGTON PARK
Maywood
South Gate
Belvedere Gardens
Montebello
WHITTIER
Downey
Santa Fe Springs
Norwalk
Clearwater
Hynes
Bellflower
Artesia
Virginia City
SIGNAL HILL
LEGEND
Wells representative of average Ground Water elevations, with comparable depth of hole, chemical analysis of water and elevation of perforations
Wells as above, except under heavy draught or affected by heavy draught on nearby wells
Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, erratic fluctuation of water in the well, or on which there is insufficient data available.
Wells of shallow depth, with perched water indications
Wells of deep water strata not related to those of average wells.
Lines of equal static ground water levels, or of equal pressures *
Ditto,- Location approximate. *
Faults and other barriers to free ground water movement.
* In area northeast of barriers,-
North of line thus ———— contours show equal static ground water levels.
South of line thus, ———— contours show equal ground water pressures.
In area southwest of barriers, all contours show static ground water levels.
SCALE IN MILES
0 1 2 3 4 5
All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.
REVISIONS
MARK DATE DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
NOV. 1936.
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC ENGINEER
JR. ASST. CH. ENGINEER
DATE 8-3-37
NO. 2 - H 34
SHEET OF
S-H 34

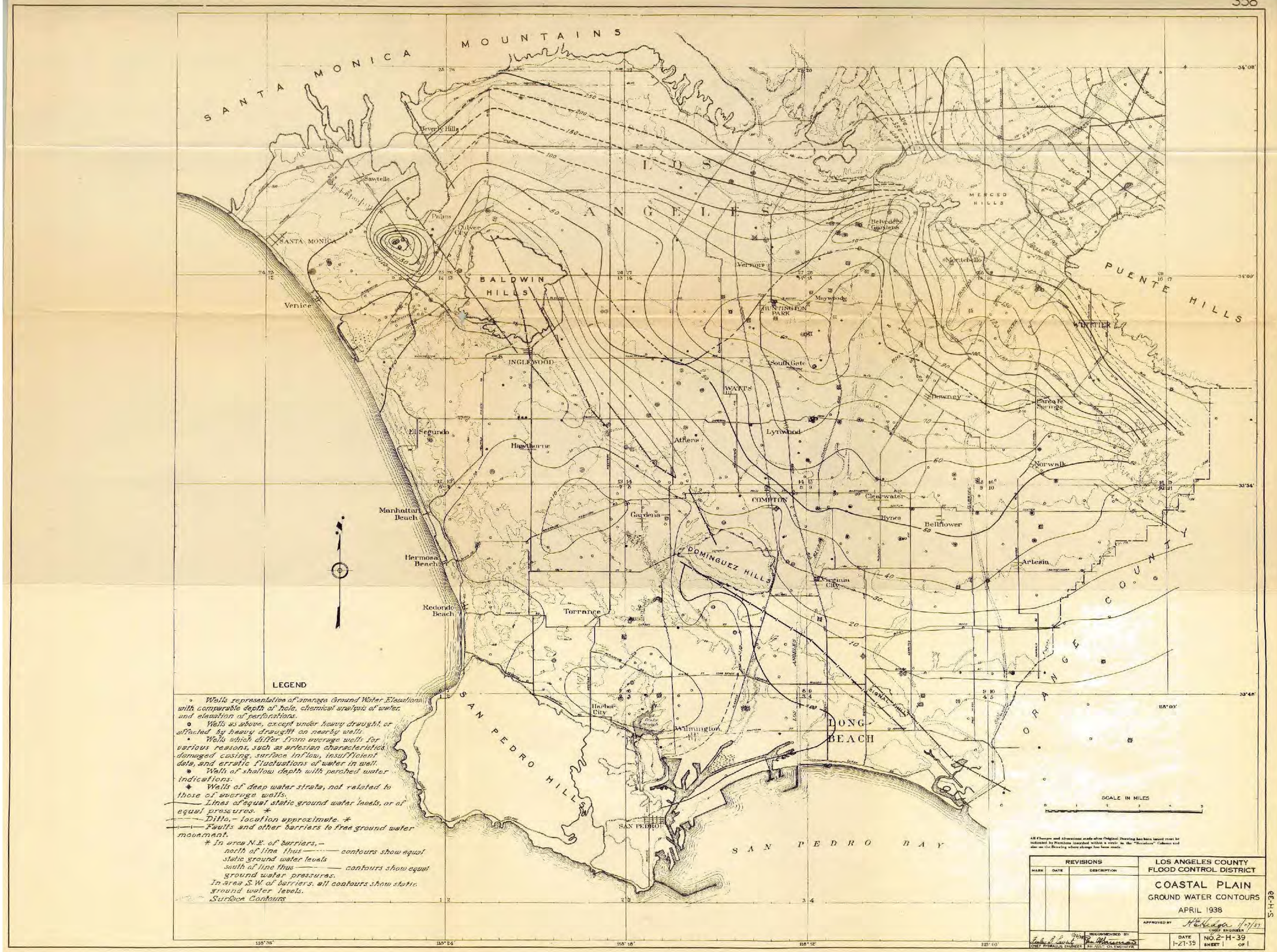
MAP XVII

SANTA MONICA MOUNTAINS
LOS ANGELES
PUENTE HILLS
BALDWIN HILLS
DOMINGUEZ HILLS
SAN PEDRO HILLS
ORANGE COUNTY
SAN PEDRO BAY
Beverly Hills
Sawtelle
Palms
Culver City
SANTA MONICA
Venice
INGLEWOOD
El Segundo
Hawthorne
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Gardena
Athens
WATTS
Lynwood
COMPTON
Vernon
HUNTINGTON PARK
Maywood
Southgate
Belvedere Gardens
Montebello
WHITTIER
Downey
Santa Fe Springs
Norwalk
Clearwater
Hynes
Bellflower
Artesia
Virginia City
Harbor City
Wilmington
LONG BEACH
SAN PEDRO
SIGNAL HILL
LEGEND
Wells representative of average Ground Water Elevations, with comparable depth of hole, chemical analysis of water and elevation of perforations.
Wells as above, except under heavy draught or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well
Wells of shallow depth with perched water indications
Wells of deep water strata, not related to those of average wells.
Lines of equal static ground water levels, or of equal pressures. *
Ditto, - location approximate *
Faults and other barriers to free ground water movement
* In area N.E. of barriers, -
north of line thus ——— contours show equal static ground water levels.
south of line thus ——— contours show equal ground water pressures.
In area S.W. of barriers, all contours show static ground water levels.
SCALE IN MILES
0 1 2 3 4 5
34°06'
34°00'
33°54'
33°48'
118°36'
118°24'
118°18'
118°12'
118°06'
118°00'
All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.
REVISIONS
MARK DATE DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
APRIL, 1937.
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC ENGINEER
JR. ASST. CH. ENGINEER
DATE OCT. 15, 1937
NO. 2 - H 35
SHEET OF

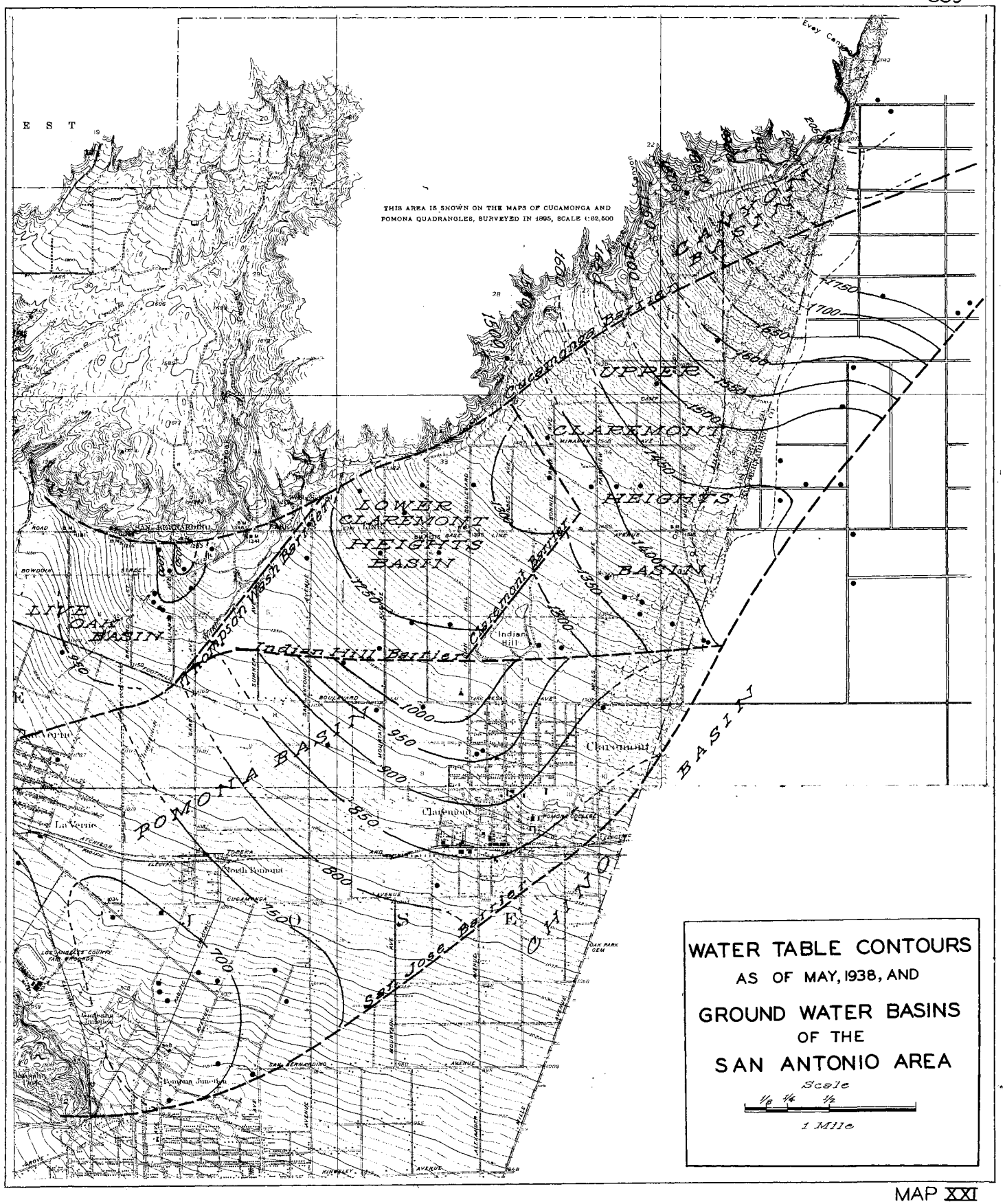
MAP XVIII

SANTA MONICA MOUNTAINS
LOS ANGELES
BALDWIN HILLS
PUENTE HILLS
DOMINGUEZ HILLS
SAN PEDRO HILLS
SAN PEDRO BAY
ORANGE COUNTY
LONG BEACH
SANTA MONICA
Venice
Sawtelle
Palms
Culver City
Beverly Hills
Vernon
Belvedere Gardens
Montebello
Maywood
HUNTINGTON PARK
WHITTIER
INGLEWOOD
South Gate
WATTS
Downey
Santa Fe Springs
El Segundo
Hawthorne
Athens
Lynwood
Norwalk
COMPTON
Clearwater
Hynes
Bellflower
Manhattan Beach
Gardena
Hermosa Beach
Artesia
Virginia City
Redondo Beach
Torrance
Harbor City
Wilmington
SAN PEDRO
SCALE IN MILES
LEGEND
Wells representative of average Ground Water Elevations with comparable depth of hole, chemical analysis of water, and elevation of perforations.
Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well.
Wells of shallow depth with perched water indications.
Wells of deep water strata, not related to those of average wells.
Lines of equal static ground water levels, or of equal pressures. *
Ditto, - location approximate. *
Faults and other barriers to free ground water movement.
* In area N.E. of barriers, - north of line thus contours show equal static ground water levels
south of line thus contours show equal ground water pressures.
In area S.W. of barriers, all contours show static ground water levels.
Surface Contours
All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers Identified within a circle in the "Revisions" Column and also on the Drawing where change has been made.
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
NOV.-DEC. 1937
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC ENGINEER
DR. ASST. CH. ENGINEER
DATE 1-27-39
NO. 2-H-38
SHEET 1 OF 1
S-H-38

MAP XIX


SANTA MONICA MOUNTAINS
LOS ANGELES
BALDWIN HILLS
MERCED HILLS
PUENTE HILLS
DOMINGUEZ HILLS
SAN PEDRO HILLS
SAN PEDRO BAY
ORANGE COUNTY
Beverly Hills
Sawtelle
Palms
Culver City
SANTA MONICA
Venice
INGLEWOOD
El Segundo
Hawthorne
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Gardena
Athens
WATTS
Lynwood
COMPTON
Vernon
Maywood
HUNTINGTON PARK
South Gate
Belvedere Gardens
Montebello
WHITTIER
Downey
Norwalk
Clearwater
Hynes
Bellflower
Artesia
Virginia City
Harbor City
Wilmington
LONG BEACH
SAN PEDRO
SCALE IN MILES
LEGEND
Wells representative of average Ground Water Elevations with comparable depth of hole, chemical analysis of water, and elevation of perforations.
Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well.
Wells of shallow depth with perched water indications.
Wells of deep water strata, not related to those of average wells.
Lines of equal static ground water levels, or of equal pressures. *
Ditto, - location approximate. *
Faults and other barriers to free ground water movement.
* In area N.E. of barriers, - north of line thus contours show equal static ground water levels; south of line thus contours show equal ground water pressures.
In area S.W. of barriers, all contours show static ground water levels.
Surface Contours
All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
APRIL 1938
APPROVED BY
CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC ENGINEER
DATE 1-27-39
NO. 2-H-39
SHEET 1 OF 1
S-H-39

MAP XX



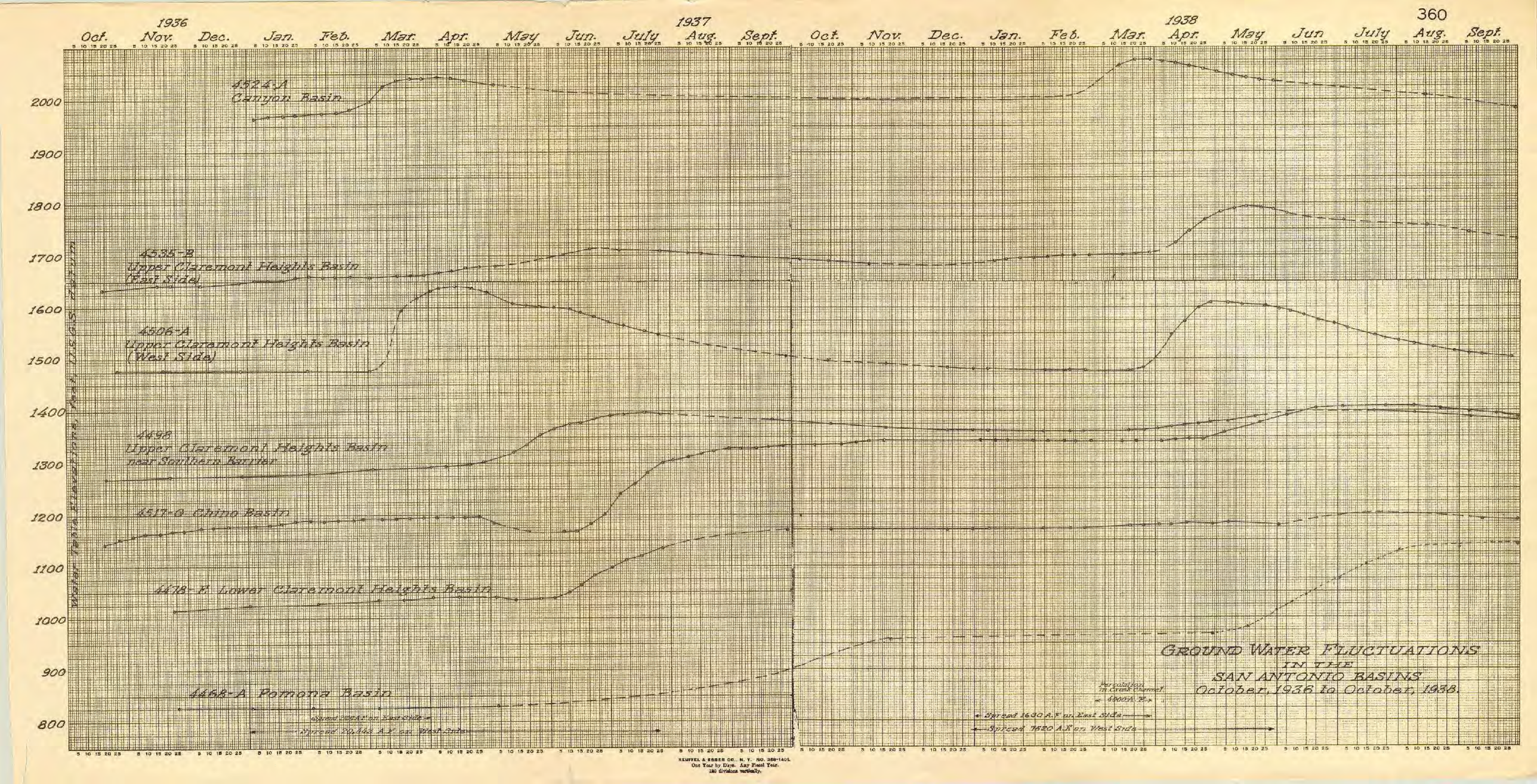
WATER TABLE CONTOURS
AS OF MAY, 1938, AND
GROUND WATER BASINS
OF THE
SAN ANTONIO AREA

Scale

1/8 1/4 1/2

1 Mile

MAP XXI



KEUFFEL & ESSER CO., N. Y. NO. 358-1401.
One Year by Days. Any Fiscal Year.
180 divisions vertically.