LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

ANNUAL REPORT
ON
HYDROLOGIC DATA

SEASON OF 1942-43

APRIL 1, 1945

Los Angeles County Flood Control District

HYDRAULIC DIVISION

REPORT TO H. E. HEDGER, CHIEF ENGINEER

ANNUAL REPORT

ON

HYDROLOGIC DATA

SEASON 1942-43

Paul Baumann, Assistant Chief Engineer
Finley B. Laverty, Chief - Hydraulic Division

April 1, 1945

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

LOS ANGELES 14, CALIFORNIA

H. E. HEDGER
CHIEF ENGINEER

751 S. FIGUEROA ST.
ROOM 410

April 1, 1945

FILE NO. 2-20
SUBJECT Annual Report on Hydrologic Data Season of 1942-43

All Districts

Honorable Board of Supervisors
Los Angeles County Flood Control District
501 Hall of Records
Los Angeles 12, California

Gentlemen:

There is transmitted herewith for your files, the Los Angeles County Flood Control District's Annual Report on Hydrologic Data for the Season of 1942-43. This report is the thirteenth of a series of annual or biennial reports which have been published covering sixteen years of records.

This report includes data collected and compiled by the District's Hydraulic Division on precipitation, evaporation, runoff, dam operation, ground water and conservation. These data are basic for hydrologic study, planning, design, and operation of flood control and conservation projects. The value of continuing the collection, compilation, and publication of this type of data cannot be over-estimated, due to its widespread use by the District and also by an increasing number of interested public and private agencies and individuals.

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

Yours truly,

H E Hedger

H. E. Hedger, Chief Engineer

Los Angeles County Flood Control District
Hydraulic Division

April 1, 1945

Col. H. E. Hedger
Chief Engineer
Los Angeles County
Flood Control District
Los Angeles 14, California

Dear Sir:

Transmitted herewith is the "Annual Report on Hydrologic Data" for the season 1942-43. This report includes data collected and compiled by the Hydraulic Division of the District which is presented as follows:

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

Precipitation records include the monthly records of 411 stations of which 94% furnished complete seasonal records. Of these stations, 187 have a continuous record for fifteen years or longer, and 12 stations have a continuous record for over fifty years.

Intensity records were obtained from 66 recording rain gages. Comparative intensities of rainfall for periods varying from 5 minutes to 24 hours and including storm totals and maximum intensities of record are included in this report for 10 representative stations.

The rainfall for the season 1942-43 was 152% of normal for the County. Two large storms occurred during the season. The first and most important was that which occurred in the period January 21-23. The second storm occurred on March 3-5. The maximum rainfall for the season occurred at Camp LeRoy in Santa Anita Canyon and amounted to 75.87 inches or 174% of normal.

The storm of January 21-23 was particularly noteworthy in that the maximum 24 hour rainfall of 25.83 inches at Camp LeRoy established a new record for this area and probably for the entire United States. This storm was in general characterized by long continued rainfall in excess of one inch per hour for periods up to 25 hours. While maximum 24 hour rainfall was greater than that of March 2, 1938 and was generally distributed throughout the County, peak runoff did not approach that of the 1938 storm. This was primarily due to the deficient rainfall prior to the storm and consequent lack of soil saturation.

The storm of March 3-5 produced high intensities in a localized area 30 miles in length extending northeasterly from Los Angeles to San Gabriel Dam No. 2.

Seasonal rainfall distribution throughout the County is shown by the following relation to 71 year normal indices for four areas of the County.

		% Normal
1.	San Gabriel Mt. Area	167
2.	Valley and Coastal Plain	146
3.	Santa Monica Mts.	146
4.	Desert Area	156

Seasonal amounts of snowfall for five mountain locations are also included in the report. The depths of snowfall ranged from 74 to 155 inches at the various locations.

Evaporation records were received from 22 stations each month. The total seasonal evaporation recorded at the various stations varied from a maximum of 97.59 inches at Big Tujunga Dam to a minimum of 39.07 inches at the District's Puente Hills station.

Runoff records presented include streamflow measurements, mean daily runoff, and storm hydrographs compiled from the District's water stage recorder records.

The District operated 65 recording streamflow stations located on the main streams and tributary channels. Twenty-three of these stations are in the Los Angeles River drainage area, nineteen are in the San Gabriel River drainage area, and fifteen are located in the Rio Hondo drainage area. Records obtained from these stations are supplemented by the records of the 13 stations operated by the U. S. Geological Survey, Water Resources Branch, which are also included in this publication. Cooperative assistance was given by the District in making measurements at these stations, while the District in turn received cooperation at several stations from the Los Angeles Office of the U. S. Engineer Department.

Runoff for the season was approximately 267% of the average seasonal runoff. Peak flows for the season occurred during the January 21-23 storm at all of the District's stations except four.

Dam operation data included in this report show daily reservoir water surface elevation, storage, inflow, and outflow values for 14 dams operated by the District. These dams control 407 square miles of mountain drainage with a total controlled storage of 90,018 acre feet.

Because of the particular interest in the storm of January 21-23 Table IV has been included which presents a summary of pertinent data on dam operations for 14 dams during the storm.

Two tabulations giving pertinent data for the season for 3 debris dams and for 16 debris basins owned and operated by the District are included in the report.

Conservation and Ground Water data continued to occupy a place of great importance in the work of the District due to the increased draft upon various underground basins as a result of war industry and increase in population. Included in this report are ground water maps of the several primary basins showing approximate high and low seasonal ground water conditions. These maps are compiled from data taken in more than 1000 wells during the annual spring and fall well measurements.

Key well measurements taken monthly by the District were reduced to the form of hydrographs, and ten of these have been included in the report to show the fluctuations in the more important basins.

An investigation of the intrusion of sea water into the West Coastal Basin was started during the year. This is being carried on by the United States Geological Survey with whom the District and several municipalities are cooperating.

Conservation of water by absorption in various stream channels amounted to 277,490 acre feet during the season. Conservation of 64,000 acre feet of water was effected by off-channel spreading grounds of which 32,200 acre feet were spread by the San Gabriel River Water Committee and 25,100 acre feet by the Pomona Valley Protective Association. A total of 486,300 acre feet of runoff wasted in the ocean as measured on the San Gabriel River at Spring Street, on the Los Angeles River at State Street, and on Ballona Creek at Sawtelle Boulevard. This compares with the maximum recorded waste of record of 599,600 acre feet which occurred in the season 1937-38.

We wish to thank the many individuals and agencies who have cooperated by furnishing an appreciable part of the precipitation data and other records included in this report.

Respectfully submitted,

Finley B. Laverty

Finley B. Laverty, Chief
Hydraulic Division

Recommended

Paul Baumann

Paul Baumann
Assistant Chief Engineer

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GAGING STATION RECORDS

Recorder Station Data (Arranged Alphabetically)

F.C. No.	Station	Location	
F81D-R	ALHAMBRA WASH	near Short Street	38
F152R	ALISO WASH	at Nordhoff Street	39
U1R	ARROYO SECO	near Pasadena	41
P277R	ARROYO SECO	below Devils Gate Dam	42
F38B-R	BALLONA CREEK	at Sawtelle Boulevard	44
F120R	BIG DALTON CREEK	below Big Dalton Dam	46
U9R	DALTON CREEK	near Glendora	48
F274R	DALTON CREEK	at Merced Avenue	49
F111B-R	BIG TUJUNGA CREEK	above Edison Road	51
F168R	BIG TUJUNGA CREEK	below Big Tujunga Dam No. 1	53
F213R	BIG TUJUNGA CREEK	above Gold Canyon	55
F20B-R	TUJUNGA WASH	at Glen Oaks Boulevard	56
F105R	TUJUNGA WASH	at Magnolia Boulevard	58
F106R	TUJUNGA WASH-CENTRAL BRANCH	at Magnolia Boulevard	60
F270R	CALABASAS CREEK	at Ventura Boulevard	61
F37B-R	COMPTON CREEK	near Greenleaf Drive	63
F41C-R	COYOTE CREEK	at Del Amo Street	65
F265R	DOMINGUEZ CHANNEL	at Carson Boulevard	67
F53R	DUME CREEK	at Roosevelt Highway	69
U2R	EATON CREEK	near Pasadena	71
F271R	EATON WASH	below Eaton Wash Dam	73
F104R	EATON WASH	at Ellis Lane	74
U7R	FISH CREEK	near Duarte	76
U12R	HAINES CREEK	near Tujunga	77
F149R	LIMEKILN CREEK	at Devonshire Street	79
F65B-R	LITTLE DALTON CREEK	above Mouth of Canyon	80
L1R	LITTLE ROCK CREEK	above Little Rock Dam	82
U3R	LITTLE SANTA ANITA CREEK	near Sierra Madre	83
F67BR	LITTLE SANTA ANITA CREEK	below Sierra Madre Dam	85
F267R	LITTLE SANTA ANITA CREEK	at Woodland Avenue	86
F19R	LITTLE TUJUNGA WASH	at Foothill Boulevard	88
F31R	LIVE OAK CREEK	above Mouth of Canyon	89
F5B-R	LOS ANGELES RIVER	below Sepulveda Boulevard	91
F266R	LOS ANGELES RIVER	at Mariposa Street	93
F57C-R	LOS ANGELES RIVER	above Arroyo Seco	95
F34B-R	LOS ANGELES RIVER	at Firestone Boulevard	97
F180R	LOS ANGELES RIVER	at Pacific Coast Highway	100

GAGING STATION RECORDS (Cont'd.)

Recorder Station Data (Arranged Alphabetically)

F.C. No.	Station	Location	Page
F130R	MALIBU CREEK	at Crater Camp	102
F22R	MONROVIA CREEK	above Sawpit Creek	104
F195R	MONROVIA STORM DRAIN	at Peck Road	106
F181R	MONTEBELLO STORM DRAIN	at Outlet into Rio Hondo	107
F118B-R	PACOIMA CREEK FLUME	below Pacoima Dam	109
F16R	PACOIMA WASH	at Parthenia Street	110
F40R	PUDDINGSTONE CREEK	below Puddingstone Dam	112
F192R	RIO HONDO	at Lower Azusa Road	114
F64R	RIO HONDO	above Mission Bridge	115
F45R	RIO HONDO	at Stewart and Gray Road	118
F83R	RIO HONDO SLOUGH	at San Gabriel Boulevard	120
U14R	ROCK CREEK	near Valyermo	121
U6R	ROGERS CREEK	near Azusa	123
F82C	RUBIO WASH	at Glendon Way	124
U15R	SAN ANTONIO CREEK	near Claremont	126
F151R	SAN ANTONIO CREEK	at Mouth of Canyon	128
U10R	SAN DIMAS CREEK	near San Dimas	130
F209R	SAN GABRIEL RIVER - WEST FORK	below San Gabriel Dam No. 2	132
P3R	SAN GABRIEL RIVER - WEST FORK	above Forks	134
P4B-R	SAN GABRIEL RIVER - EAST FORK	above Forks	137
F250R	SAN GABRIEL - AZUSA CONDUIT	at Weir below S.G. Dam No. 1	139
F220R	SAN GABRIEL - AZUSA CONDUIT	at Garcia Canyon	140
U8R	SAN GABRIEL RIVER	near Azusa	141
S100A-R	SAN GABRIEL RIVER - AZUSA DUARTE TUNNEL DIVERSION	near Mouth of San Gabriel Cn.	142
F190R	SAN GABRIEL RIVER	at Foothill Boulevard	143
E281R	SAN GABRIEL RIVER	below Santa Fe Dam	145
F261BR	SAN GABRIEL RIVER	at Valley Boulevard	147
F263R	SAN GABRIEL RIVER	at Beverly Boulevard	148
F262R	SAN GABRIEL RIVER	at Florence Avenue	150
F42R	SAN GABRIEL RIVER	at Spring Street, Long Beach	152
F48R	SAN JOSE CREEK	at Workman Mill Road	154
U4R	SANTA ANITA CREEK	near Sierra Madre	156
F260B-R	SANTA ANITA WASH	at Foothill Boulevard	157
F92B-R	SANTA CLARA RIVER	at Highway 99	158
F278R	SAWPIT CREEK	below Sawpit Dam	160
U5R	SAWPIT CREEK	near Monrovia	162
F185R	SEPULVEDA CREEK	at Charnock Road	163
F43R	SYCAMORE UPPER STORM DRAIN	above Solway Street	165
F44R	SYCAMORE LOWER STORM DRAIN	at Adams Square	166
F276R	THOMPSON CREEK SPREADING GROUNDS INTAKE	at Thompson Creek Dam	167
F54R	TOPANGA CREEK	above Mouth of Canyon	169
F252R	VERDUGO CHANNEL	at Estelle Avenue	171
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F58S	ARROYO SECO	at Avenue 26	174
F157S	ARROYO SEQUIT	at Roosevelt Highway	174
F87S	BANTA DITCH	at head of Pipeline	175
F202S	BIG DALTON CREEK	above Sierra Madre Avenue	175
F143S	BIG ROCK CREEK	above Pallette Creek	175
F140S	CASTAIC CREEK	at Elizabeth Lake Canyon Highway	176
F141S	ELIZABETH LAKE CREEK	above Dry Gulch	176
F275S	LAS FLORES CREEK	at Roosevelt Highway	176
F30S	LITTLE DALTON CREEK	at Lorraine Avenue	176
F100S	MAIN SPREADING CANAL	mouth of San Gabriel Canyon	176
F112S	MILL CREEK	above Big Tujunga Creek	176
F197S	PACOIMA WASH	at Arleta Street, above spreading grounds	177
F121S	PALLETTE CREEK	above Big Rock Creek	177
F122S	PALLETTE CREEK	at Big Rock Creek	177
F280S	RIO HONDO DIVERSION	below Santa Fe Dam	177
F93S	SANTA CLARA RIVER	above Lang R.R. Station	178
F137B-S	SANTA CLARA RIVER	8 miles west of Castaic Junction	178
F247B-S	SAN GABRIEL RIVER	at Arrow Highway	178
F272S	SANTA MONICA CREEK	above Rustic Canyon	178
F55S	SANTA MONICA CREEK	below Rustic Canyon	178
F125S	SANTIAGO CREEK	above Little Rock Creek	179
F258S	TRANCAS CREEK	at Roosevelt Highway	179

RISING WATER at Whittier Narrows

F.C. No.	Station	Location	
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	EL MONTE SEWER	near Junction with Rio Hondo	180
	TEMPLE DITCH	above head of pipeline	181
	RINCON DITCH	above head of pipeline	181
F84S	CATE DITCH	below sluice gate	182
F85S	STANDEFER DITCH	below headgate	182
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Set No. 1	December 28	191
EATON WASH		
Set No. 1	February 26	191
Set No. 2	March 20	192
SANTA ANITA WASH		
Set No. 1	January 29	192
Set No. 2	April 3	193
SAWPIT CREEK		
Set No. 1	February 4	193
Set No. 2	February 26	194
Set No. 3	March 2	194
Set No. 4	March 19	195
Set No. 5	April 15	195
SAN GABRIEL RIVER		
Set No. 1	March 25	196
Set No. 2	April 2	196

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PRECIPITATION RECORDS

PRECIPITATION

FOREWORD

This report is the fifteenth of similar seasonal reports. It contains precipitation data for the season in summarized form. It is published to provide current basic data for reference and to inform those interested public and private agencies and individuals of further precipitation data which may be found in the District's files.

The District's "season" includes the period between October 1st and September 30th, which conforms with the water year as used by the United States Geological Survey, Water Resources Branch.

SUMMARY

For the sixth time in the last nine seasons, seasonal precipitation in Los Angeles County was above normal. The County average as a whole was 152% of normal precipitation. The percent of normal varied considerably in various sections of the County. Long Beach, with 103% of normal, was low, while Pasadena was high with 176% of normal. See Tables IV and V, page 8, for a more general picture of the season's rainfall throughout the County.

Twenty-three storms occurred during the 1942-43 season which produced rainfall of 0.01 of an inch or more, with rain occurring during 40 days in the valley at the Los Angeles U.S.W.B. station and 44 days at Camp Singer (Opid's) in the mountains.

Two storms in particular had outstanding features. The first storm in order of magnitude and important occurred January 21st to 23rd; the second storm in magnitude occurred March 3rd to 5th.

Isohyetal maps for the season and for the January storm and its maximum 24 hour period are shown on Maps I, II, and III, pages 24, 25, and 26, respectively.

Storm of January 21-23°

Precipitation prior to January 21st was exceedingly deficient. The County average was approximately 28% of the cumulative mean to that date (October 1st to January 20th); however, by January 24th this average had been increased to approximately 200%.

The storm had an average duration of about 56 hours and produced rainfall amounts of record-breaking proportions in the

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°A complete record of this storm is furnished in a publication by the Los Angeles County Flood Control District entitled "Report on Flood of January 21-23, 1943". This report is now out of print but may be found in the District's files.

mountains. The maximum 24 hour rainfall of 25.83 inches at Camp LeRoy (Hoegee's) established a new record for this area and probably for the entire United States. In the mountains the storm was characterized by long continued rainfall in excess of one inch per hour for periods up to 25 hours. Only minor depths of snow were recorded during the storm, and temperatures in general remained relatively high.

Storm precipitation amounts varied from 4.97 inches at Long Beach in the coastal area to 37.34 inches at Camp LeRoy (Hoegee's) in the San Gabriel Mountains, decreasing to 2.21 inches at Yato Kya Indian Museum on Piute Butte in the desert.

Table VI, page 9 shows daily rainfall amounts at representative mountain and valley stations.

Table IX, page 13 shows comparative maximum rainfall intensities - for selected mountain and valley stations.

Isohyetal maps, Maps II and III, pages 25 and 26, show storm and maximum 24 hour totals, respectively.

Graphs I and II, pages 27 and 27, are storm mass curves for selected stations.

Storm of March 3-5

This storm produced very high intensities in an area 30 miles long extending northeasterly from Los Angeles to San Gabriel Dam #2 in the West Fork of the San Gabriel Canyon. The area of intense rainfall was quite well defined as indicated by records from automatic raingages, and was limited in width to from one to four miles. The most intense rainfall occurred at Station No. 179B near Sierra Madre, where depths of 0.53 inches in one minute, 2.30 in 39 minutes, 3.10 in 107 minutes, and 8.71 inches for the storm were recorded.

Table XI, page 15, gives a summary of rainfall data for selected stations in and near the heavy intensity zone.

DISTRIBUTION OF GAGES

Location and distribution of gages are very important factors in the value of rainfall data. The location of any one station must be chosen carefully as the rain catch can vary considerably in short distances due to obstructions such as trees, buildings, and topography.

Subsequent to 1927 the District has made considerable progress in securing a representative coverage of the County as shown by the following figures.

Number of stations reporting to the L. A. Co. Flood Control District:

Season 1926-27 79
Season 1942-43 415

The following table shows the number of stations for which the District has records for periods of 15 years or more.

	15 to 49 yrs.	50 yrs. & over
Continuous records	172	9°
Broken records	31	
Adjacent to Los Angeles County	6	3
Total	209	12

The District has a better distribution of gages in the valley and foothill areas than in the mountains because more cooperative observers are available. Practically a maximum possible coverage of mountain areas has been attained until additional observers are available or satisfactory automatic reporting equipment is developed for locations which have difficult access. Station locations are shown on Map I, page 24.

An annual inspection trip was made in the fall of 1942 at which time the location and condition of each gage was checked. Helpful suggestions and instructions were given to observers to assist in obtaining more accurate and complete records. Supplies for the entire season were furnished at this time, thus saving considerable mailing cost. These annual trips also provide an opportunity to investigate locations for new stations and to secure cooperative observers.

Where observers are available, automatic raingages are located in areas which will furnish the most representative intensity data for flood flow analysis and computations. During the 1942-43 season 28 of these gages were in the mountain area and 24 were in the valley area. In general, each automatic gage is operated in conjunction with a standard 8" United States Weather Bureau type gage placed nearby as a check.

USES OF PRECIPITATION DATA

1. In operation of District Dams
2. In calculation of flood flows for design purposes
3. In water conservation studies

°In some cases the station was moved a short distance or in case of inactivity another station in the immediate locality has been substituted to give a continuous long time record.

4. By public and private agencies for flood control, irrigation and water supply or related investigations
5. Court cases

The District furnishes rainfall data to many outside agencies and individuals among which are:

United States Weather Bureau
United States Engineer Department
United States Forest Service
Division of Water Resources, State of California
City of Los Angeles
Pasadena Water Department
Southern California Edison Company
Los Angeles County
    Survey Department
    Forestry Department
    Road Department
Ventura County
San Bernardino County

Rainfall, evaporation, temperature, and other data furnished to the District by the above and other agencies greatly augment the data received and compiled during the season.

SOURCE AND NUMBER OF RECORDS

Table I, which follows, shows the number, type, and ownership of rain gages:

TABLE I

Rain Gage Ownership and Type		Number of Gages 1942-43	Number of Gages Total
(a) Los Angeles County Flood Control District			
Standard	8"	228	
8.81" Non-Recording	8.81"	18	
Automatic-Fergusson Type	9" Capacity	31	
Automatic-Fergusson Type	12" Capacity	13	
Automatic-Friez	30" Capacity	1	
Automatic-Stevens Type Q-12	12" Capacity	6	
Automatic-Remote Recording Tipping Bucket		1	298
(b) Outside Agencies and Individuals			
Standard	8"	134	
Various Types-Recording		20	
Automatic-Various Size and Types		14	168
	Total		466
	less Std. 8"		-55°
Total stations from which the District receives records regularly.			411

°Represents number of Standard gages at automatic raingage stations deducted from total number of gages to agree with the number of records published.

The District owns 64% of all the gages from which records are received each month. The remainder are privately owned as shown above and are cooperative with the District.

TABLE II

Complete Seasonal Reports

	Season - 1942-43
F.C. Automatic Rain Gage Stations	51
F.C. Non-Recording Rain Gage Stations	200
Private Automatic Rain Gage Stations	13
Private Non-Recording Rain Gage Stations	124
Total	388

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. Thus out of the 415 stations reporting during the season, 94 percent furnished complete records.

The following table presents a complete list of the automatic rain gages which were active during the season 1942-43, with the length of active record included.

TABLE III

ACTIVE AUTOMATIC RAIN GAGES

SEASON 1942-43

F.C. No.	Name of Station	Elev. USGS	Type and Capacity	Watershed	Period of Record
6	Topanga Canyon Guard Station	747	Fergusson 9"	Topanga Canyon	8-18-30 to date
10	Bel Air	540	" 9"	Stone Canyon	1-4-29 to date
11C	Upper Franklin Reservoir	867	" 9"	Franklin Canyon	9-20-40 to date
15	Van Nuys Warehouse	695	" 9"	L. A. River	8-18-30 to date
22	Johnson Ranch - Bell Canyon	930	" 9"	L. A. River	10-6-38 to date
33A-E	Pacoima Dam	1500	" 9"	Pacoima	9-22-30 to date
46C	Big Tujunga Dam	2290	Stevens - Q-12 12"	Big Tujunga	12-9-40 to date
47A	Clear Creek	3100	Fergusson 12"	Big Tujunga	11-2-28 to date
52B	Switzer's Camp	3000	" 12"	Arroyo Seco	10-6-38 to 3-17-43
52C	Waterman Guard Station	3290	" 12"	Arroyo Seco	3-17-43 to date
53A	Sleepy Hollow Ranch (Colby's)	3500	" 12"	Big Tujunga	4-19-26 to 12-26-40
53A	Sleepy Hollow Ranch (Colby's)	3500	Special Tipping Bucket Remote Control Cage	Big Tujunga	2-14-41 to date
54	Loomis Ranch	4050	Fergusson 9"	Big Tujunga	11-24-31 to date
57B-E	Opid's Camp	4350	" 12"	San Gabriel West Fork	12-14-25 to date
60A	Hoegee's Camp	2750	" 12"	Big Santa Anita	10-11-26 to 10-13-39 9-27-40 to date
70E	Dalton #1	800	" 9"	San Gabriel	12-4-26 to date
83E	Big Pines Recreation Park	6860	" 9"	Desert	12-17-25 to date
85D	Camp Baldy Guard Station	4300	" 12"	San Antonio	11-11-27 to date
92	Pomona College	1190	" 9"	San Antonio	12-2-27 to date
108B	El Monte	301	" 9"	Rio Hondo	10-11-38 to date
150	Monrovia Falls	1800	" 9"	Sawpit	2-4-28 to 10-5-38
150	Monrovia Falls	1800	" 12"	Sawpit	10-5-38 to date
158	Tanbark Flats	2700	" 12"	San Dimas	1-16-29 to 7-7-39
158	Tanbark Flats	2700	Friez Tipping Bucket (Private)	San Dimas	7-7-39 to date
178	Azusa - Griffith	545	Fergusson 9"	San Gabriel	1-1-31 to date
179B	Sierra Madre - Carter	1125±	" 9"	Rio Hondo	6-24-41 to date
201	Puente Hills	860	" 9"	San Jose Creek	12-19-40 to date
210B	Brand Park	1250	" 9"	L. A. River	12-27-28 to 12/18/40
210B	Brand Park	1250	Stevens - Q-12 12"	L. A. River	12/18/40 to date
213	Hancock Park	177	Fergusson 9"	Ballona	1-13-29 to 11-19-42
213	Hancock Park	177	Stevens - Q-12 12"	Ballona	11-19-42 to date
228B	Beverly Hills	255	Fergusson 9" (Private)	Ballona	10-14-31 to date
235B	Henninger Flats	2550	" 9"	Eaton Canyon	12-30-29 to date
257	Griffith Park Nursery	750	" 9"	Ballona	9-19-30 to date
259B	Chatsworth Patrol Station	1249	" 9"	L. A. River	8-17-37 to date
261E	Aoton	3075	" 9"	Santa Clara	11-27-30 to date
268E	Torrance	57	Stevens - Q-12 12"	Laguna-Dominguez	3-19-40 to date
280	Flintridge Fire Station	1325	Fergusson 9"	Arroyo Seco	7-26-30 to date
283a	Crystal Lake - East Pine Flats	5740	" 12"	San Gabriel North Fork	11-26-35 to date
291	96th and Central Streets - L. A.	121	" 12" (Private)	L. A. River	10-6-30 to date
303B	Cal. Tech.	763	" 9"	Alhambra Wash	12-13-30 to date
311b	Pasadena - Meteorological Station	918	Friez Tipping Bucket (Private)	Arroyo Seco	10-1-38 to date
334E	San Gabriel Dam #2	2335	Fergusson 9"	San Gabriel West Fork	1-14-32 to date
338B	Mt. Wilson - Airways Station	5709	" 12"	Various	3-24-41 to date
348C	Honor Camp #4	2000	" 12"	San Gabriel East Fork	5-11-38 to 6-4-40
348C	Honor Camp #4	2000	" 9"	San Gabriel East Fork	6-4-40 to 9-22-43
352	Lechuza Patrol Station	1530	" 9"	Arroyo Sequis and Trancas Canyon	11-28-34 to date
356	Diamond Bar Ranch #2	675	" 9"	San Jose Creek	3-30-38 to date
367	Upper Haines Canyon	3450	" 9"	Big Tujunga	1-13-33 to 6-11-40
367	Upper Haines Canyon	3450	J. P. Friez Cam 30"	Big Tujunga	6-11-40 to date
373	Briggs Terrace	2310	Fergusson 9"	Verdugo	11-21-33 to date
380	El Sereno	553	" 9"	L. A. River	11-5-34 to date
402C	State Prison Camp #37	6665	" 12"	San Gabriel West Fork and Little Rock Ck.	8-28-40 to 9-21-43
402D	State Prison Camp #37	6800	" 12"	San Gabriel West Fork and Little Rock Ck.	9-21-43 to date
415	Signal Hill City Hall	115	" 9"	Coastal	3-15-37 to date
418	Pickens Canyon	4075	" 9"	Verdugo	10-29-36 to 3-8-40
418	Pickens Canyon	4075	Stevens - Q-12 12"	Verdugo	3-28-40 to 11-17-42
419	Mt. Gleason	5450	J. P. Friez Cam 30"	Pacoima - Santa Clara	9-21-37 to 6-4-40
419	Mt. Gleason	5450	Fergusson 12"	Pacoima - Santa Clara	6-4-40 to date
425A	San Gabriel Dam #1	1470	" 12"	San Gabriel	10-12-37 to 11-27-41
425A	San Gabriel Dam #1	1470	" 9"	San Gabriel	11-27-41 to 7-1-43
425B	San Gabriel Dam #1	1481	" 9"	San Gabriel	7-1-43 to date
433	Altadena - County Forestry Park	1710	" 9"	Rubio Wash	9-14-38 to date
439B	Charlton Flats	5500	" 12"	Big Tujunga and San Gabriel West Fork	8-2-39 to date
445A	Live Oak Canyon	1630	Stevens - Q-12 12"	Live Oak Wash	3-20-40 to 10-28-42
445B	Live Oak Canyon at Dam	1510	" 12"	Live Oak Wash	10-28-42 to date
446	Aliso Canyon Santa Susana Mts.	2367	Fergusson 9"	L. A. River	7-2-40 to date
461	Baldwin Hills	392	Stevens - Q-12 12"	Ballona Creek	12-19-40 to date
465B	Pacoima Canyon	3225	Fergusson 12"	Pacoima Creek	1-19-42 to date
470	Tujunga-Mill Creek	4700	Friez 30" (Private)	Big Tujunga	10-18-41 to date
471	Little Tujunga-Gold Creek	2700	" 12" (Private)	Little Tujunga	10-30-41 to date
477	Santa Anita - Spring Camp	4880	Fergusson 12"	Santa Anita	11-25-41 to date
486	Cold Water Canyon - Widman Ranch	3865	" 9"	San Gabriel - Cattle Canyon	9-22-43 to date
508A	Arroyo Seco - U.S.F.S.	1430	Friez 12" (Private)	Arroyo Seco	10-19-42 to date
577	Los Angeles - U.S.W.B.	330	Friez Tipping Bucket (Private)	L. A. River	2-19-97 to 3-1-40
577	Los Angeles - U.S.W.B.	313	" " " (Private)	L. A. River	3-1-40 to date
699	Los Angeles - 30th and Trinity Sts.	208	Fergusson 12" (Private)	Compton Creek	10-9-40 to date
700	Los Angeles - Slauson and Long Beach Boulevard	176	" 12" (Private)	Compton Creek	10-28-40 to date
710	Millard Saddle - U.S.F.S.	2400	Friez 12" (Private)	Arroyo Seco	Oct. '42 to date
711	Pine Canyon - U.S.F.S.	2900	" 12" (Private)	Arroyo Seco	Oct. '42 to date
X5	Las Flores - Camp #7	1390	Fergusson 9"	Las Flores Creek	11-19-42 to date

Note: Suffix A, B, C denotes first, second, or third location of station in same locality under nearly the same conditions.
-E indicates evaporation tank at station.

The District also has records of 41 automatic gages at stations which are now inactive. These records are available in our files.

AVERAGE RAINFALL INDICES FOR LOS ANGELES COUNTY

The following table presents the 71 year seasonal indices for Los Angeles County. The 71st year index (1942-43 season) was based on the computed 70 year normal. Seasonal indices are the ratios of seasonal rainfall to seasonal normal expressed as a percentage. Indices furnish a more convenient and satisfactory measure for comparing seasonal rainfall in different localities, than do the actual amounts expressed in inches. These indices have been obtained by averaging the computed indices of 8 representative areas in the County. The indices of each area were obtained by averaging the indices of representative long time stations, known as Master Stations, for that area. An isohyetal Map for the 70 year normal was shown on Map II, page 21, of the District's 1941-42 Annual Report on Hydrologic Data.

Season°	Index				
1872-73	86	1896-97	118	1920-21	96
74	148	98	41	22	143
75	104	99	35	23	77
76	147	00	56	24	49
77	27	1900-01	106	25	59
78	110	02	64	26	108
79	56	03	120	27	114
80	112	04	53	28	67
1880-81	69	05	125	29	72
82	66	06	124	30	75
83	64	07	148	1930-31	88
84	241	08	93	32	117
85	55	09	113	33	74
86	146	10	90	34	82
87	89	1910-11	125	35	126
88	107	12	78	36	78
89	128	13	79	37	147
90	193	14	154	38	148
1890-91	94	15	129	39	114
92	74	16	128	40	84
93	140	17	90	1940-41	216
94	48	18	101	42	77
95	110	19	70	43	152
96	54	20	81		

° October 1 to September 30.

COMPARATIVE RAINFALL

Eight locations used in previous reports have again been compared. These represent stations with long time records in the valley, mountain, foothill, and coastal areas in Los Angeles County.

TABLE IV
Comparison of Rainfall by Stations

Sta. No.	Name	Elev.	Yrs. of Record	70 Yr. Normal Inches	1942 1943 Inches	% of Normal
224	Long Beach	80	49	13.36	13.79	103
577E	Los Angeles (USWB)	548	71	15.71	19.68	125
610A	Pasadena	865	71	20.29	35.80	176
60A	Camp LeRoy (Hoegee's)	2400	18	43.57	75.87	174
587	Mouth of San Antonio Cn.	2500	39	27.66	44.05	160
53A	Colby's Ranch	2950	46	31.40	49.73	158
57B-E	Camp Singer (Opid's)	4350	26	41.37	68.65	166
338A	Mount Wilson	5650	39	37.08	64.85	175

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, except that where those stations are now inactive, nearby stations have been substituted.

TABLE V
Comparison of Rainfall by Areas

Area	No. of Sta. Used	Ave. 70 yr. Normal Inches	1942-43 Season Ave. Amt. Inches	% of 70 yr. Normal
Coastal Plain	8	14.88	18.93	127
San Fernando Valley	7	16.71	25.34	152
San Gabriel Valley-East	12	19.82	26.87	136
San Gabriel Valley-West	6	21.74	36.44	168
Santa Monica Mountains	5	18.05	26.32	146
San Gabriel Mountains	16	29.01	48.37	167
Desert	6	10.87	16.97	156
Sierra Pelona	6	15.04	22.26	148

Table VI, following, shows daily distribution of rainfall amounts for the storm of January 21-23 at representative stations from south to north and from west to east.

TABLE VI

RAINFALL DISTRIBUTION - SOUTH TO NORTH

FOR STORM OF JANUARY 21-23, 1943

No.	Station	Elev.	21		22		23		24		Storm Total
575B	Long Beach	25	.60		3.62		.75				4.97
577E	Los Angeles - Central Bldg.	417	1.47	12:00P	5.40	12:00P	.72	12:00P			7.59
577F	" " Federal Bldg.	548	1.40	12:00P	3.43	12:00P	.77	12:00P			5.60
610A	Pasadena	980	.17		8.35		6.34		.07		14.93
60A	Camp LeRoy (Hoegee's)	2750	.60		20.57		15.77		.40		37.34
338A	Mt. Wilson	5650	.54		14.85		13.40		.81		29.60
57B	Camp Singer (Opid's)	4350	.76		16.61		15.79		.50		33.66
440	Chilao	5150	.21	4:30P	7.44	4:30P	11.40	4:30P	.24	8:00A	19.31
261	Acton	3075	.03		2.47		3.90		.16		6.56
441	Palmdale	2662	°		2.30		°		2.10		4.40
121	Lancaster	2350	°		°		3.75				3.75
	WEST TO EAST - SOUTH OF SAN GABRIEL MOUNTAINS										
352	Lechuza Patrol Station	1530	.78		9.58		3.20		.05		13.61
6	Topanga Canyon	747	.90		12.44		4.03		.01		17.38
634	Santa Monica	88	.10	8:00A	3.25	8:00A	3.20	8:00A			6.55
10	Bel Air	540	.47		6.59		3.68				10.74
213	Hancock Park	177	.29		3.92		3.15		.02		7.38
577E	Los Angeles	417	1.47	12:00P	5.40	12:00P	.72	12:00P			7.59
108	El Monte	285	.09		3.76		4.68		.17		8.70
193	Covina	575	.12		°		°		8.73		8.85
93	Claremont	1165	.18		5.31		5.02		.21		10.72
	Fontana		°		°		°		°		10.02°°
	San Bernardino		°		°		°		°		7.88°°

° included in next day's reading. Readings made at 5:00PM Pacific War Time, unless otherwise stated.
°°from U.S.W.B.

MAXIMUM AND MINIMUM SEASONAL RAINFALL

The following table presents maximum and minimum rainfall amounts in Los Angeles County for the period of this report using the 5PM Pacific War Time standard gage readings only

TABLE VII

Maximum and Minimum Rainfall

No.	Station	Minimum Seasonal	Maximum Seasonal	Maximum Day	Date
456	Yato Kya Indian Museum-Piute Butte	7.82			
60A	Camp LeRoy (Hoegee's)		75.87	20.57°	1-22-43

°The 24 hour period from 1:00AM to 1:00AM 1/21-22/43 produced 25.83 inches in the standard gage and 26.12 inches in the automatic gage. This is the maximum 24 hour amount for the U.S.A. of record, as far as known.

Table VIII, page 12, shows a comparison of maximum intensities for ten representative stations in the District during the season and the maximum intensities of record.

Table XII, page 16, presents monthly and seasonal rainfall amounts for stations from which the District received records during the season 1942-43.

Table XIII, page 20, entitled "Rain Gage Station Location", gives pertinent data regarding each of the stations.

SUMMARY OF SNOWFALL

Snowfall at five high mountain stations is shown as follows:

Sta. No.	Location	Elev.	Season-1942-43 Amount in Inches
82	Table Mountain	7500 ft.	74
83	Big Pines Rec. Camp	5860 ft.	106
283a	Crystal Lake - E. Pine Flats	5740 ft.	28
308	Kelly's Kamp	8300 ft.	155
402C	Cedar Springs	6665 ft.	116

The following table shows snow survey data for the San Antonio watershed:

Snow Survey Course	Date	Density Percent	Water Content Inches Depth
Mt. San Antonio	3-30-43	53	52.8
Upper Ice House Cn.	3-29-43	52	49.1

COOPERATION OF RAINFALL OBSERVERS

Observers have continued their valuable cooperation with the District in the collection of these data, as indicated by the fact that 94% of all observers reporting each month to the District have sent in complete reports for the 12 months period.

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 such a complete report possible.

RESPONSIBILITY

Reports on rainfall and evaporation have been compiled by Mr. R. E. Lindsay. This work was done under the immediate supervision of Mr. Walter J. Wood, Assistant Chief-Hydraulic Division.

TABLE VIII

COMPARATIVE MAXIMUM RAINFALL INTENSITIES IN INCHES

Season 1942-1943

Station		5 min.	10 min.	15 min.	30 min.	60 min.	120 min.	180 min.	240 min.	300 min.	12 hr.	24 hr.	Storm Total Auto.	Storm Total Std.
#5775-Los Angeles, Central Bldg, USWB	Amt.	.19	.30	.43	.65	1.10	1.57	1.72	1.75	1.94	3.26	5.44	7.57	7.57
	Date	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	1/21-22	1/21-22	1/21-23	
Maximum of Record	Amt.	.42	.65	.81	1.14	1.51	1.99			3.06		7.36	8.27	9.67
	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	3/2-10/84
#15-Van Nuys Whse.	Amt.	.14	.21	.30	.50	.91	1.50	2.13	2.67	3.08	5.28	8.03	Inc.	11.31
	Date	1/22	1/22	1/22	1/22	1/22	1/22	1/22	1/22	1/22	1/22-23	1/21-22	1/21-23	
Maximum of Record	Amt.	.33	.43	.50	.88	1.26	1.50	2.13	2.67	3.08	5.29	8.03	Inc.	11.31
	Date	12/15/38	1/8/40	12/17/40	12/28/41	12/28/41	1/22/43	1/22/43	1/22/43	1/22/43	12/31/33 1/1/34	1/21-22/43	1/21-23/43	
#178-Azusa-Griffith	Amt.	.17	.18	.21	.38	.72	1.11	1.35	1.72	2.13	4.31	6.01	9.14	-
	Date	3/4	3/4	1/22	1/22	1/22	1/22	1/22	1/22	1/22	1/22-23	1/22-23	1/21-23	
Maximum of Record	Amt.	.32	.38	.47	.77	1.10	1.73	2.34	2.79	2.98	6.00	10.19	12.13	-
	Date	2/11/36	3/29/41	3/29/41	10/17/34	10/17/34	10/17/34	12/31/33 1/1/34	12/31/33 1/1/34	12/31/33 1/1/34	12/31/33 1/1/34	12/31/33 1/1/34	12/31/33 1/1/34	
#425-San Gabriel Dam #1	Amt.	.26	.44	.56	.78	1.25	2.34	3.28	4.32	5.30	10.05	17.81	24.07	24.00
	Date	10/12	10/12	10/12	10/12	1/22	1/22	1/22	1/22	1/22	1/22	1/22-23	1/21-23	
Maximum of Record	Amt.	.60	.62	.68	.96	1.25	2.34	3.28	4.32	5.30	10.05	17.81	24.07	25.08
	Date	4/5/26	4/5/26	4/5/26	4/5/26	1/22/43	1/22/43	1/22/43	1/22/43	1/22/43	1/22/43	1/22-23/43	1/21-23/43	12/17-22/21
#261-Acton-Mellen	Amt.	.15	.22	.26	.36	.48	.86	1.22	1.57	1.82	3.14	4.41	6.36	6.56
	Date	3/4	3/4	3/4	3/4	1/22	1/22	1/22	1/22	1/22	1/22-23	1/22-23	1/21-23	
Maximum of Record	Amt.	.29	.41	.44	.66	.74	1.48	1.48	1.57	1.82	3.14	4.41	6.36	6.69
	Date	8/26/35	8/26/35	8/26/35	10/1/32	8/24/35	8/24/35	8/24/35	1/22/43	1/22/43	1/22-23/43	1/22-23/43	1/21-23/43	12/18-27/21
#6-Topanga Canyon	Amt.	.41	.59	.66	.82	1.55°	2.65°	3.70°	4.50°	5.30°	8.70	12.96	Inc.	17.38
	Date	1/22	1/22	1/22	1/22	1/22	1/22	1/22	1/22	1/22	1/22	1/21-22		1/21-23
Maximum of Record	Amt.	.45	.70	.91	1.16	1.60	2.72	3.70°	4.50°	5.30°	9.69	13.44	Inc.	17.38
	Date	3/3/41	2/20/41	2/20/41	2/20/41	2/20/41	12/31/33	1/22/43	1/22/43	1/22/43	12/31/33	12/31/33 1/1/34		1/21-23/43
#92-Pomona College	Amt.	.29	.43	.48	.53	.94	1.63	2.20	2.96	3.25	4.22	7.73	10.70	10.66
	Date	3/4	3/4	3/4	3/4	1/22	1/22	1/22	1/22	1/22	1/22	1/22-23	1/21-23	
Maximum of Record	Amt.	.29	.43	.48	.58	.94	1.63	2.27	2.96	3.25	4.55	7.86	10.70	10.66
	Date	3/4/43	3/4/43	3/4/43	10/17/34	1/22/43	1/22/43	12/31/33	1/22/43	1/22/43	3/2/38	12/31/33 1/1/34	1/21-23/43	
#57B-Camp Singer (Opid's)	Amt.	.21	.35	.50	.92	1.69	3.00	4.29	5.37	6.30	12.50	22.00	32.45	33.66
	Date	1/23	1/23	1/22-23	1/22-23	1/22-23	1/22-23	1/22-23	1/22-23	1/22-23	1/22-23	1/22-23	1/21-23	
Maximum of Record	Amt.	1.17	1.18	1.18	1.52	2.21	3.83	4.53	5.54	6.67	12.64	22.00	32.45	33.95
	Date	4/5/26	4/5/26	4/5/26	4/5/26	4/5/26	4/5/26	4/5/26	3/2/38	3/2/38	1/22-23/43	1/21-23/43	12/18-23/31	
		1.03 in 1 minute 4/5/26												
#60-Camp LeRoy (Hoegee's)	Amt.	.26	.37	.57	1.06	1.69	2.77	3.93	5.21	6.48	13.36	26.12°°	37.42	37.34
	Date	3/4	3/3	3/3	3/3-4	3/3-4	1/22	1/22	1/22	1/22	1/22-23		1/21-23	
Maximum of Record	Amt.	.43	.57	.69	1.06	1.69	2.88	4.00	5.38	6.48	13.36	26.12	37.42	37.34
	Date	12/27/36	12/27/36	12/27/36	3/3-4/43	3/3-4/43	3/2/38	3/2/38	3/2/38	1/22/43	1/22-23/43	1/22-23/43	1/21-23/43	
#303-Cal Tech	Amt.	.32	.44	.60	1.08	1.70	2.36	2.54	2.65	3.03	5.59	10.63	13.62	13.86
	Date	3/3	3/3	3/3	3/3	3/3	3/3-4	3/3-4	3/3-4	3/3-4	1/21-22	1/21-22	1/21-23/43	
Maximum of Record	Amt.	.32	.44	.60	1.08	1.70	2.36	3.02	3.80	4.55	7.98	11.26	13.62	13.86
	Date	3/3/43	3/3/43	3/3/43	3/3/43	3/3/43	3/3-4/43	12/31/33	12/31/33	12/31/33	12/31/33	12/31/33 1/1/34	1/21-23/43	

° Interpolated values from nearby station
°°Standard gage reading 25.83 for same time period.

TABLE IX

COMPARATIVE MAXIMUM RAINFALL INTENSITIES, STORM OF JANUARY 21-23, 1943
FOR SELECTED MOUNTAIN AND VALLEY STATIONS

No.	Station		5 Min.	10 Min.	15 Min.	30 Min.	1 Hr.	2 Hrs.	5 Hrs.	24 Hrs.	Storm Total Auto.	Storm Total Std.
10	Bel Air	1/21-23/43	.16	.24	.29	.48	.86	1.41	2.21	7.23	10.75	10.74
	Previous Max. of Record -	Amt.	.35	.54	.64	.94	1.51	1.87	3.39	9.96	11.29	11.35
		Date	2/3/31	2/3/31	2/3/31	2/1/40	2/3/31	2/3/31	12/31/33	12/31/33 1/1/34	12/30/33 1/1/34	12/30/33 1/1/34
	Auto. installed 1-4-29											
373	Briggs Terrace	1/21-23/43	.26	.38	.56	.88	1.51	2.56	5.12	14.53	20.07	20.79
	Previous Max. of Record -	Amt.	.19	.29	.38	.61	1.13	2.01	4.23	10.03	Inc.	12.95
		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	12/30/33 1/1/34	12/30/33 1/1/34
	Auto. installed 10-23-34											
85D	Camp Baldy	1/21-23/43	.25	.40	.47	.73	1.27	2.50	4.87	19.27	27.45	28.41
	Previous Max. of Record -	Amt.	.20	.34	.47	.92	1.78	3.41	7.02	13.80	Inc.	15.08
		Date	2/11/38	3/2/38	3/2/38	3/2/38	3/2/38	3/2/38	3/2/38	3/1-2/38	3/1-3/38	3/1-3/38
	Auto. installed 11-11-27											
60A	Camp LeRoy (Hoegee's)	1/21-23/43	.20	.37	.54	.94	1.62	2.77	6.48	26.12	37.42	37.34
	Previous Max. of Record -	Amt.	.43	.57	.69	.91	1.58	2.88	6.29	14.76	17.51	30.39
		Date	12/27/36	12/27/36	12/27/36	10/18/36	3/2/38	3/2/38	3/2/38	3/1-2/38	12-30-33 1/1/34	4/5-9/26
	Auto. installed 10-11-26											
	25.83 inches 24 Hour Maximum measured in standard gage 1/22-23/43.											
352	LeChuza	1/21-23/43	.30	.47	.61	.92	1.42	2.20	3.28	9.63	13.19	13.56
	Previous Max. of Record -	Amt.	.35	.50	.70	1.05	1.38	1.57	2.78	5.95	6.96	10.25
		Date	12/18/40	12/18/40	12/18/40	12/18/40	12/18/40	12/18/40	3/2/38	3/2/38	3/1-4/38	12/31/33 1/1/34
	Auto installed 11-28-34											
577E	Los Angeles	1/21-23/43	.17	.24	.34	.54	.80	1.15	1.78	5.44	7.57	7.57
	Previous Max. of Record -	Amt.	.42	.65	.70	1.14	1.51	1.99	3.06	7.36	8.27	9.67
		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	3/2-10/84
	Auto Installed 2-19-97											
57B	Camp Singer (Opid's)	1/21-23/43	.21	.35	.50	.92	1.69	3.00	6.30	22.00	32.45	33.66
	Previous Max. of Record -	Amt.	1.17	1.18	1.18	1.52	2.21	3.83	6.67	15.96	22.88	33.95
		Date	4/5/26	4/5/26	4/5/26	4/5/26	4/5/26	4/5/26	3/2/38	3/1-2/38	4/4-8/26	12/18-23/21
	Auto. installed 12-14-25											
	1.03 inches fell in one minute 4:48AM to 4:49AM 4-5-26.											
33A	Pacoima Dam	1/21-23/43	.34	.53	.69	1.11	1.51	2.40	4.00	9.90	12.88	13.09
	Previous Max. of Record -	Amt.	.32	.57	.74	.93	1.25	1.79	2.54	7.28	8.20	8.25
		Date	1/7-8/40	1/7-8/40	1/7-8/40	1/7-8/40	1/7-8/40	1/7-8/40	12/31/33	12/31/33 1/1/34	12/31/33 1/1/34	12/30/31 1/1/34
	Auto installed 9-22-30											
425A	San Gabriel Dam #1	1/21-23/43	.19	.26	.41	.67	1.25	2.34	5.30	17.81	24.07	24.00
	Previous Max. of Record -	Amt.	.60°	.62°	.68°	.96°	1.18°	1.77	4.14	15.46°		25.08°
		Date	4/5/26	4/5/26	4/5/26	4/5/26	4/5/26	3/2/38	3/2/38	12/20/21		12/17-22/21
	Auto installed 10-11-37											
268	Torrance	1/21-23/43	.04	.10	.15	.25	.40	.78	1.41	3.76	5.45	5.33
	Previous Max. of Record -	Amt.	.27	.38	.40	.59	.90	1.30	2.08	2.77	3.73	4.49
		Date	2/6/41	2/6/41	12/23/40	12/23/40	12/23/40	12/23/40	12/23/40	12/23-24/40	12/23-24/40	3/1-3/38
	Auto. installed 3-19-40											

°Gage located at Edison Intake.

TABLE X

COMPARISON OF STORM RAINFALL DURING KNOWN FLOOD PERIODS FOR SELECTED STATIONS

Sta. No.	Station		1/21-23/43	2/27-3/4/38	12/29/33-1/2/34	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
		Max. 24 hr.	5.44°	6.28	7.36	3.33	3.14	2.37	4.20			
577E	L.A.-U.S.W.B.	Max. Day	5.40°	5.88	4.86	2.40	2.74	2.12	4.16	4.26	2.72	2.18
		Storm Total	7.57°	11.06	8.27	6.38	7.34	5.72	6.90	7.04	7.05	5.70
594	Newhall	Max. Day	7.64	5.38	5.55	3.63	3.11	6.02	Missing	2.87	-	-
		Storm Total	14.34	10.75	8.21	9.79	8.25	13.45		9.02	-	-
185	Glendora	Max. Day	5.44	6.70	8.20	5.42	5.77	3.50	5.80	6.75	4.05	3.25
		Storm Total	11.20	13.72	16.24	11.09	10.20	9.23	14.02	13.05	8.07	10.23
224	Long Beach	Max. Day	3.00	3.70	2.32	3.17	3.09	1.81	1.38	1.24	-	-
		Storm Total	5.36	7.29	3.94	5.14	4.85	3.98	4.95	3.24	-	-
		Max. 24 hr.	20.23	11.56								
53	Colby's Ranch	Max. Day	15.38	10.95	8.01	7.24	8.26	Missing	Missing	Missing	-	-
		Storm Total	27.40	18.81	11.64	16.28	23.21	29.00	18.50	22.50	-	-
		Max. 24 hr.	17.81°°	10.37°°								
75	San Gabriel Intake	Max. Day	14.25°°	9.90°°	7.62	8.15	6.60	15.46	Missing	7.55	-	-
		Storm Total	24.00°°	19.82°°	13.31	16.30	13.01	25.08	Missing	14.24 Inc.	-	-
590	Mt. Wilson	Max. Day	14.85	12.57	9.40	5.89	6.80	11.00	6.38	6.38	7.93	-
		Storm Total	29.60	26.23	15.48	14.46	14.62	23.03	13.40	19.40	13.86	-
587	Mo. San Antonio	Max. Day	10.05	7.96	5.04	7.23	4.68	4.18	-	-	-	-
		Storm Total	18.95	16.84	9.79	11.43	9.81	14.06	-	-	-	-
		Max. 24 hr.	22.00	15.96	13.94	8.52						
57	Camp Singer (Opid's)	Max. Day	16.61	15.96	9.10	7.89	12.52	Missing	-	-	-	-
		Storm Total	33.66	27.27	17.93	19.39	24.16	33.95	-	-	-	-
		Max. 24 hr.	25.83	14.76	14.76							
60	Camp LeRoy (Hoegee's)	Max. Day	20.57	14.64	10.20	6.31	11.15	-	-	-	-	-
		Storm Total	37.34	30.08	19.91	23.30	30.39	-	-	-	-	-

Note:-Maximum values for each station are underscored.
Maximum day values are as recorded by observers in general at 5PM except U.S.W.B.
Maximum 24 hour values are shown where available from recorder station charts.

°U.S.W.B.-L.A., 6th and Main Sts. record used as in past flood years after August 1, 1908.
°°San Gabriel Dam #1 - approximately same location.

TABLE XI

STORM OF MARCH 3-5, 1943

SUMMARY OF RAINFALL DATA FOR SELECTED STATIONS

Automatic Raingage Readings

Sta. No.	Location		8P	9P	10P	11P	12M	1A	2A	3A	4A	Storm Total	Unusually Heavy Short Time Intensities
577F	Los Angeles, U.S.W.B.	Accum.	1.27	1.50	2.40	3.07	3.12	3.20	3.24	3.29	3.41	3.83	1.57" 120 min. 9:02P to 11:02P
		Hr. Amt.		.23	.90	.67	.05	.08	.04	.05	.12		1.10" 60 min. 9:14P to 10:14P
380	El Sereno	Accum.	1.66	1.66	1.79	2.64	4.24	4.27	4.36	4.37	4.41	4.91	2.44" 105 min. 10:15P to 12:00 Mid.
		Hr. Amt.		0	.13	.85	1.60	.03	.09	.01	.04		2.34" 90 min. 10:30P to 12:00 Mid.
													.52" 10 min. 11:20P to 11:30P
303	Cal Tech	Accum.	2.35	2.42	2.53	3.00	4.80	5.06	5.10	5.11	5.15	6.29	2.35" 105 min. 10:20P to 12:05A
		Hr. Amt.		.07	.11	.47	1.80	.26	.04	.01	.04		1.90" 66 min. 10:59P to 12:05A
													1.06" 26 min. 10:59P to 11:25P
60A	Camp LeRoy (Hoegee's)	Accum.	3.43	3.93	4.53	5.09	6.52	7.60	7.74	7.95	8.28	12.19	2.50" 100 min. 10:55P to 12:35A
		Hr. Amt.		.50	.60	.56	1.43	1.08	.14	.21	.33		2.16" 80 min. 11:00P to 12:20A
235	Henninger Flats	Accum.	3.06	3.54	3.86	4.31	5.31	6.07	6.27	6.52	6.84	8.84	1.73" 90 min. 11:00P to 12:30A
		Hr. Amt.		.48	.32	.45	1.00	.76	.20	.25	.32		
179B	Sierra Madre-Carter	Accum.	2.20	2.45	2.50	2.88	3.34	6.02	6.08	6.15	6.20	8.71	3.10" 107 min. 11:10P to 12:57A
		Hr. Amt.		.25	.05	.38	.46	2.68	.06	.07	.05		2.30" 39 min. 12:18A to 12:57A
													.53" 1 min. 12:37A to 12:38A
150	Monrovia Falls	Accum.	2.21	2.62	3.06	3.50	3.90	4.89	5.12	5.31	5.51	9.30	.95" 26 min. 12:20A to 12:46A
		Hr. Amt.		.41	.44	.44	.40	.99	.23	.19	.20		
334	San Gabriel Dam #2	Accum.	3.52	4.06	4.56	5.01	6.00	7.51	7.77	8.02	8.09	9.51	2.47" 110 min. 11:10P to 12:50A
		Hr. Amt.		.54	.50	.45	.99	1.51	.26	.25	.07		1.31" 32 min. 12:24A to 12:56A
477	Santa Anita Spring Camp	Accum.	3.18	3.85	4.48	4.97	6.05	7.69	8.00	8.10	8.17	10.28	2.67" 106 min. 11:05P to 12:51A
		Hr. Amt.		.67	.63	.49	1.08	1.64	.31	.10	.07		1.52" 30 min. 12:21A to 12:51A
108B	El Monte Fire Station	Accum.	1.49	1.56	1.73	1.84	2.00	2.01	2.02	2.02	2.12	3.50*	
		Hr. Amt.		.07	.17	.11	.16	.01	.01	0	.10		
433	Altadena	Accum.	2.18	2.43	2.80	3.12	3.49	3.67	3.90	4.25	4.68	6.83*	
		Hr. Amt.		.25	.37	.32	.37	.18	.23	.35	.43		
57B	Camp Singer (Opid's)	Accum.	2.61	3.14	3.56	4.33	4.58	4.87	5.28	5.64	6.33	9.94*	
		Hr. Amt.		.53	.42	.77	.25	.29	.39	.36	.69		

* Outside of high intensity zone.

Note: Stations arranged in chronological order of storm travel based on hourly amounts, excepting last three stations which are included primarily to define the limits of the high intensity zone.

TABLE XII

SEASON 1942-43 MONTHLY RAINFALL SUMMARY

RAINFALL RECORDS IN INCHES

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
2	Escondido Patrol Station	1.17	.23	1.84	9.81	2.99	4.37	.49	0	0	0	0	.02	20.92
3	Seminole Hot Springs	1.27	.09	1.85	20.02	4.66	5.64	.99	0	0	0	0	0	34.52
5B	Calabasas	.87	.05	1.34	15.38	3.29	5.16	1.16	0	0	0	0	0	27.25
6	Topanga Guard Station (Topanga Ranger)	.96	.10	1.47	20.67	5.02	4.52	.90	0	0	0	0	0	33.64
7C	Bel Air Bay Club	-	-	- No Record	-	-	-	.60	0	0	0	0	0	Inc.
8	Mandeville Canyon	.70	-	-	-	- No Record	-	-	-	-	-	-	-	Inc.
9	Sepulveda - Chase	1.01	.18	1.11	12.83	3.41	4.30	.95	0	0	0	0	0	23.79
10	Bel Air	.83	.13	1.28	13.37	3.28	3.65	.66	0	0	0	0	0	23.20
11C	Upper Franklin Reservoir	1.39	.16	1.10	16.68	3.55	4.52	.63	0	T	0	0	0	28.03
12	Franklin & Mulholland Patrol #1	1.48	.05	1.21	17.35	3.65	4.15	.68	0	0	0	0	0	28.57
13	North Hollywood Blix	.90	.21	.97	15.38	3.23	4.17	.72	0	0	0	0	0	25.58
14	Roscoe - Merrill	.90	.25	1.09	12.65	3.34	3.88	.89	0	0	0	0	0	23.00
15	Van Nuys - Warehouse	1.20	.16	1.01	13.45	3.55	4.10	.73	T	.01	0	0	0	24.21
17	Sepulveda & Mulholland Patrol #2	1.03	0	1.25	18.11	4.66	5.31	.63	0	0	0	0	0	30.99
18	Adehr Dairy	.89	.02	1.07	15.66	3.55	4.08	.91	0	0	0	0	0	26.18
19	Topanga - Summit	.80	.11	1.34	21.61	4.33	4.44	1.02	.05	T	0	0	0	33.70
20B	Girard - Reservoir	.88	.10	1.29	17.12	3.86	5.57	1.02	0	0	0	0	0	29.84
21	Brant Ranch - Girard	.79	.01	1.15	10.93	2.84	4.50	1.12	0	0	0	0	0	21.34
22	Bell Canyon - Johnson Ranch	.88	.11	1.39	11.83	2.73	4.86	.75	0	0	0	0	0	22.55
23-E	Chatsworth Reservoir	.93	.16	1.42	9.45	2.73	4.86	.98	0	0	0	0	0	20.53
24C	Chatsworth	.91	.30	1.45	12.96	3.14	5.49	1.11	0	0	0	0	0	25.36
25B	Zelzah Northridge - Andrews	1.04	.13	1.59	11.38	2.86	4.62	1.05	0	0	0	0	0	22.67
27	W. D. Miller Ranch	.99	.19	1.16	9.54	3.30	3.96	1.38+	0	0	0	0	0	20.52
28	San Fernando Lemon Association	1.15	.34	1.22	12.17	3.52	4.61	1.53	.07	.05	0	0	0	24.66
29B	Granada - Pump Plant	1.30	.56	1.57	12.10	3.82	5.10	.88	.05	.02	0	0	T	25.40
30	Sylmar	1.38	.58	1.14	12.21	4.06	5.34	.83	0	.03	0	0	0	25.57
32E	Newhall-Soledad Headquarters	.79	.20	.93	16.96	3.91	6.65	.89	0	0	0	0	0	30.33
33A-E	Pacoima Dam	1.41	.64	1.20	16.08	4.56	5.22	1.12	.01	.03	0	0	0	30.27
38	Chappel Ranch	.97	.11	1.19	12.03	3.38	4.01	.91	0	0	0	0	0	22.60
39B	Sunset Dam	1.26	.40	1.08	16.88	1.67	5.91	.86	.04	.07	0	0	0	28.17
42	Redondo - City Hall	.50	.13	.98	5.31	1.45	2.71	.65	0	0	0	0	0	11.73
43A	Palos Verdes - Administration Building	.74	.23	.94	6.04	1.73	3.17	.54	0	0	0	0	0	13.39
43B	Palos Verdes - Golf Course	.53	.29	.95	7.58	1.53	2.69	.59	0	0	0	0	0	14.16
44	Point Vicente Light House	.37	.13	.78	5.83	1.29	2.59	.54	0	.03	0	0	0	11.56
46C-E	Big Tujunga Dam (near Crest)	1.23	.54	1.26	28.05	7.74	5.98	1.03	0	0	0	0	0	45.83
47A	Clear Creek	1.08	.70	1.46	28.60	8.43	7.36	1.79	0	0	0	0	0	49.42
48	Oak Wilde	1.24	.78	1.94	22.87	7.81	7.47	1.83	0	0	0	0	0	43.94
49	Altadena - Chiesa	1.34	.45	1.57	18.35	6.05	7.44	1.48	.07	.15	0	0	0	36.90
50B	Altadena Arroyo Patrol Station	1.08	.05	1.39	20.16	5.46	7.73	1.16	.01	.05	0	0	0	37.09
51	La Cienega - Hill	1.42	.71	1.35	Inc.	-	- No Record	-	-	-	-	-	-	Inc.
52B	Switzer's Camp	1.27	.72	2.00	27.85	8.43	7.45	1.96	0+	.06+	0+	0+	0+	49.74
52C	Waterman Guard Station	1.21	.75*	2.10*	29.10+	5.65*	9.64	2.47	0	.06	0	0	0	50.98
53A	Sleepy Hollow Ranch (Colby's)	1.11	.58	1.42	29.83	7.80	6.78	1.96	0	0	0	0	.25	49.73
54	Loomis Ranch	.65	.54	1.17	17.57	4.34	5.67	1.82	0	0	0	0	2.70	34.46
56	Valley Forge Lodge - Camp Kole	1.56	.76	1.90	35.67	11.77	10.40	2.69	0	0	0	0	.50	65.25
57B-E	Camp Singer (Opid's)	1.58	1.00	1.98	38.43	11.56	10.73	2.90	0	.13	0	0	.34	68.65
58	Sturtevant	2.28	.58	2.10	31.80	9.10	13.39	2.40	0+	.13+	0+	0+	T+	61.78
60A	Camp LeRoy (Hoegee's)	2.06	.84	2.42	42.95	10.93	13.48	2.74	0	.42	0	0	.03	75.87
63B-E	Big Santa Anita Dam	2.37	.83	1.93	24.10	6.36	10.12	2.63	.05	.22	0	0	.02	48.63
64	Clark's Half Way House	2.01	.75	2.65	23.06	6.94	9.70	2.50+	0	0	0	0	0	47.61
66	Sierra Madre - Pegler Ranch	1.13	.40	1.58	17.07	5.99	7.56	1.72	0	0	0	0	0	36.05
67B	Monrovia - City Hall	1.60	.46	1.46	15.12	5.47	5.48	1.48	T	.02	0	0	0	31.09
68B	Sawpit Dam	1.69	.74	1.92	20.39	6.32	7.98	2.99	.04	.17	0	0	T	42.24
69	Sawpit Canyon	2.19	.83	1.95	28.33	7.47	8.88	3.11	.04	.22	0	0	0	53.02
70	Dalton No. 1	1.61	.68	1.51	14.53	5.95	6.82	2.26	0	0	0	0	0	33.36
73	Glendora - Englewilde Ranch	.82	1.00	1.48	14.55	5.79	6.84	2.15	0	.24	0	0	0	32.87
76B	San Gabriel Dam No. 1 Camp	2.10	.51	1.11	27.39	7.59	7.11	1.70	0	.06	0	0	T	47.57
82	Table Mountain	.17	.37	.31	4.62	2.59	3.45	1.67	0	0	0	0	.39	13.57
83E	Big Pines Recreation Park	.83	.42	.84	17.81	7.07	4.38	2.52	0	0	0	0	.30	34.17
85D	Camp Baldy Guard Station	1.28	.84	1.81	31.20	9.98	9.43	2.55	0	0	0	0	.13	57.22
87	San Dimas Guard Station	2.32	.61	1.41	17.57	5.95	7.12	2.10	0	.04	0	0	0	37.12
89E	San Dimas Dam	1.59	.91	1.60	16.94	6.15	7.87	1.97	0	0	0	0	0	37.03
90	Brydon Ranch	1.53	.80	1.48	15.64	6.32	6.59	1.98	0	.13	0	0	0	34.47
91	Indian Hill	.97	.47	1.71	12.13	5.31	5.02	1.75	0	0	0	0	0	27.36
92	Pomona College - Claremont	.83	.33	1.38	12.43	4.59	4.52	1.25	.02	.07	0	0	T	25.42
93	Claremont - Fire Station	.81	.36	1.38	12.52	4.60	5.10	1.27	0	.13	0	0	T	26.17
94	Charter Oaks - Fields Ranch	.70	.42	1.33	12.06	5.20	6.86	1.39	0	0	0	0	0	27.96
95	San Dimas - Fire Warden	.86	.42	1.41	13.12	4.89	6.40	1.32	.04	.03	0	0	0	28.49
96E	Puddingstone Dam	.67	.37	1.21	10.98	4.43	5.13	1.07	.04	.02	0	0	0	23.87
98	Azusa - Hibsch	1.05	.49	1.49	12.81	5.04	5.68	1.81	.04	.08	0	0	0	28.49
99	Azusa - Foothill Ranch	.98	.46	1.55	12.56	4.77	5.76	1.49	0	0	0	0	0	27.57
100B	Fish Canyon	1.70	.75	1.72	-	- No Record	-	-	-	-	-	-	-	Inc.
101	West Covina - Hurst Ranch	.67	.23	1.23	10.61	4.44	4.74	1.10	0	0	0	0	0	23.02
102B	Walnut - South Hills Patrol Station	.72	.13	1.10	11.21	4.21	4.84	.52	.02	0	0	0	.02	22.77
104	North Whittier Heights - Cole Ranch	.82	.37	1.31	14.46	3.81	4.20	.75	0	0	0	0	0	25.72
105	East Whittier - Sharples Ranch	.62	.21	1.48	9.77	3.58	3.49	.80	0	0	0	0	0	19.95
106	Whittier - City Hall	.58	.32	1.15	9.66	3.16	3.21	.95	.02	0	0	0	0	19.05
107B	Downey - Fire Station	.53	.25	1.58	9.20	2.75	2.99	.61	0	0	0	0	0	17.91
108B	El Monte - Fire Station	.63	.27	.96	10.80	3.67	3.94	1.22	0	0	0	0	0	21.49
109B	West Arcadia	.86	.32	1.27	14.37	4.82	5.59	1.10	0	0	0	0	0	28.33
110	Alhambra - City Hall	.76	.32	1.23	14.88	4.15	6.84	1.03	0	0	0	0	0	29.21
111	South Pasadena - City Hall	.84	.24	1.12	15.15	5.25	5.62	.72	0	0	0	0	0	28.94
114	Rosecrans Ranch - Gardena	.71	.21	1.49	6.17	2.20	2.66	.64	0	0	0	0	0	14.08
116B	Inglewood - Fire Station	.94	.22	1.17	7.67	1.89	2.52	.66	T	.02	0	0	.02	15.11
117B	Compton - Fire Station	.60	.13	1.49	8.79	2.67	2.91	.64	0	.02	0	0	0	17.25
117D	Compton - Junior College	.56	.18	1.43	9.39	2.36	3.05	.75	0	.02+	0	0	0	17.74
118B	Wilmington	.37	.08	1.38	7.95	2.36	2.88	.47	0	0	0	0	0	15.49
119C	Soldier's Home	.67	.17	1.37	10.57	2.92	3.05	.67	0	0	0	0	0	19.42
120	Vincent Patrol Station	.86	.26	.39	6.02	2.05	2.26	.94	0	0	0	0	1.10	12.78
121	Lancaster - Union High School	.50	.10	.15	4.75	1.87	2.51	.35	0	0	0	0	.12	10.35
122	Leonis Valley - Arrache Ranch	.95	0+	.50	9.35	4.24	-	- No Record	-	-	-	-	-	Inc.
123	Elizabeth Lake - Eli Munz Ranch	1.69+	.13+	.68	19.11	2.93	4.40	.58	0	0	0	0	0	29.52
124B	Bouquet Canyon Reservoir	1.33	.33	.93	12.22	4.28	5.29	1.08	0	.01	0	0	0	25.47
125	Power House #1 San Francisquito Canyon	.83	.42	1.66	12.70	4.97	4.93	1.12	0	0	0	0	0	26.63
126	Venice - City Yards	.77	.15	1.50	6.80	2.33	2.65	.62	0	0	0	0	0	14.82
127	Dry Canyon Reservoir	.62	.36	.94	8.42	2.83	4.07	.71	0	0	0	0	0	17.95
128	Radium Hot Springs	1.20	.57	.87	19.37	5.05	4.49	.92	0	.04	0	0	0	32.51
130B	Sandberg - Quail Lake Co. Guard Sta.	.75	.11	.68	9.08	4.49	4.15	1.63	0	0	0	0	0	20.89
134	San Dimas - Stevens	1.17	.54	1.90	14.24	5.59	6.45	1.78	0	0	0	0	0	31.67
135	Norwalk	.50	.19	1.31	8.25	2.43	3.62	.49	0	0	0	0	0	16.79
136B	Hollywood - City Engineer	.89	.19	1.10	10.75	2.50	4.22	.61	0	0	0	0	0	20.26
137B	Curson Canyon	.92	.34	1.18	12.72	3.27	4.81	.53	0	0	0	0	0	23.77
139	L.A.W.D. - 2nd & Broadway	.66	.22	.92	9.91	3.31	4.61	.44	0	.01	0	0	T	20.08
FC Roof	751 South Figueroa Street, Los Angeles	.78	.25	1.05	10.41	4.23	4.69	.51	T	.01	T	0	0	21.93
140	Sawtelle - City Hall	.57	.17	1.30	9.43	2.82	3.27	.75	0	0	0	0	0	18.31
143	Azusa - City Park	.96	.52	1.51	13.44	5.30	5.47	1.53	.05	.09	0	0	0	28.87
144	Sierra Madre Dam	1.77	.63	1.85	23.21	6.81	9.09	2.01	.06	.22	0	0	0	45.65
150	Monrovia Falls	2.60	.88	2.06	26.84	7.12	10.26	3.23	.05	.26	0	0	T	53.30
155B	Little Rock Creek	1.08	.23	.32	7.02	2.45	2.06	1.23	0	0	0	0	.65	15.04
156	La Mirada - Standard Oil Company	.58	.23	1.17	9.04	3.04	4.07	.74	T	0	0	0	0	18.87
157	El Segundo - Standard Oil Refinery	.73	.20	1.27	6.24	2.07	2.33	.70	.03	T	0	0	0	13.57
158	Tanbark Flats	1.84	.67	1.45	23.43	7.10	7.83	2.71	0	.20	T	0	T	45.23
164	Monrovia - O'Connor	1.08	.52	2.19	16.09	5.51	5.37	1.63	.03	.05	0	0	0	32.47
167	Arcadia Pump Plant	.99	.45	1.51	16.65	5.25	6.94	1.78	.06	0	0	0	0	33.63

TABLE XII 1942-43 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
168	San Gabriel - Watts	.75	.29	1.22	12.66	4.07	5.05	.84	0	0	0	0	0	24.88
169	Sierra Madre Pump Plant	1.15	.53	1.55	19.89	5.91	7.83	1.63	.06	.13	0	0	0	38.68
170B	Potrero Heights	.67	.21	1.05	11.56	3.98	3.77	.60	0	0	0	0	0	21.84
171	Chapman Wells	1.18	.36	1.34	16.73	4.97	7.49	1.43	.03	0	0	0	0	33.53
174	Glendora - Warren	.93	.48	1.48	12.28	4.88	5.31	1.40	0	0	0	0	0	26.76
175B	Alta Canyada - Reservoir #9	1.51	.51	1.46	21.82	6.70	7.27	1.29	.02	.20	0	0	0	40.78
176	Rubio Canyon Water Company	1.38	.40	1.65	18.97	6.11	6.90	1.90	T	.14	0	0	0	37.45
177C	La Canada - Bradford	1.07	.50	1.47	21.10	6.49	7.37	1.12	0	.09	0	0	0	39.21
178	Azusa - Griffith	.75	.31	1.25	11.32	3.93	4.62	1.11	0	0	0	0	0	23.29
179B	Sierra Madre - Carter	1.55	.58	1.81	23.93	6.47	9.37	2.03	0	0	0	0	0	45.74
181B	Bassett - Clifford	.65	.21	1.16	10.39	3.74	3.79	1.07	0	0	0	0	0	21.01
182	Baldwin Park - Leach	.54	.25	1.20	11.93	4.10	4.31	.93	0	0	0	0	0	23.26
185	Glendora - West	.91	.63	1.49	13.76	5.09	6.11	1.86	0	.10	0	0	0	29.95
188B	San Dimas - Brydon's	.77	.42+	1.46	15.20	4.63	6.16	1.57	0	.13	0	0	0	30.34
189	San Dimas - Harris	.77	.42	1.46	14.19	5.17	6.03	1.31	0	0	0	0	0	29.35
192B	Bell - Fire Station	.82	.30	1.28	9.28	2.87	3.09	.59	0	0	0	0	0	18.23
193	Covina #2 - Temple	.62	.32	1.15	10.96	4.33	5.31	1.32	0	0	0	0	0	24.01
196	La Verne - Leader	.95	.22+	1.40	13.93	4.90	3.12	1.34	0	0	0	0	0	25.86
199B	Huntington Park	.98	.24	1.35	8.87	2.81	3.46	.63	0	0	0	0	0	18.34
200	Saugus - S.C.E. Co. Sub. Sta.	.76	.11	.65	15.04	2.21	4.66	.87	0	T	0	0	0	24.30
201	Puente Hills	.75	.36	1.29	11.92	3.43	4.10	.92	0	0	0	0	0	22.77
205	Puente - S.C.E. Co. Sub. Sta.	.73	.18	1.03	9.90	4.18	4.32	.52	0	0	0	0	0	20.86
206	Valencia Heights	.51	.18	1.04	10.67	3.74	4.93	.76	0	0	0	0	0	21.83
208	Artesia-Barr Lumber Co.	.53	.15	1.10	7.56	2.13	3.15	.76	0	0	0	0	0	15.38
209B	Big Tujunga - Edison Road	1.05	.55	1.30	24.95	6.45	5.94	1.33	0	0	0	0	0	41.57
210B	Brand Park	.96	.36	1.21	14.89	3.83	5.62	.74	.09	.07	0	0	0	27.77
213	Hancock Park	.86	.16	1.09	9.31	2.63	3.83	.69	0	0	0	0	0	18.57
215B	Bellflower - Fire Station	.33	.13	1.32	7.85	2.57	3.37	.77	0	0	0	0	0	16.34
216	Glendale - Jones	.91	.32	1.24	14.41	4.37	5.68	.55	.05	T	0	0	T	27.53
217	Watts - Jordan High School	.56	.21	1.39	8.25	2.62	2.82	.65	0	T	0	0	0	16.50
218	Torrance - General Petroleum Corp.	.53	.16	1.17	6.84	1.73	3.11	1.03	T	0	0	0	0	14.57
219	Pacoima Warehouse	1.30	.16	1.34	11.83	3.85	5.05	1.23	0	0	0	0	0	24.76
220	Whittier Narrows	.72	.27	1.12	10.28	3.11	3.64	.53	0	0	0	0	0	19.67
221B	Kiener Ranch (Davis Ranch)	1.66	.45	1.10	15.84	3.80	5.49	1.10	0	T	0	0	0	29.44
222	Lankershim Generating Plant	.85	.23	.86	11.50	2.63	3.92	.78	T	T	0	0	0	20.77
223B-E	Big Dalton Dam	2.23	.96	.56	15.93	7.07	8.68	2.56	.03	.15	0	0	.02	39.19
224	Long Beach - Alamitos Land Company	.49	.16	1.28	7.07	2.09	2.14	.56	0	0	0	0	0	13.79
225	Montana Ranch	.28	.32	1.50	8.43	2.36	3.29	.80	T	T	0	0	0	16.98
226	Burbank - City Hall	.81	.31	.96	15.82	4.18	5.06	.61	.03	.02	0	0	0	27.80
227B	San Gabriel - Gleason	.84	.31	1.26	13.59	4.58	7.18	1.06	0	0	0	0	0	28.82
228B	Beverly Hills - City Hall	1.04	.17	1.34	9.87	2.74	3.72	.70	0	T	0	0	0	19.58
230C	Live Oak Canyon - Elder	.84	.51	1.53	13.23	5.39	5.25	1.58	0	0	0	0	0	28.33
234	Covina - Thorpe	.57	.18	1.13	11.46	4.47	5.58	1.10	0	0	0	0	0	24.49
235B	Henninger Flats	1.82	.62	2.19	24.16	6.27	10.18	3.17	.09	.47	0	0	.02	48.99
236	Ford - Craig Ranch	1.65	.47	1.30	14.28	3.96	4.89	.94	0	0	0	0	0	27.49
237	Stone Canyon Dam	.87	.13	1.32	16.18	3.76	3.98	.83	T	.01	0	0	0	27.08
238	Hollywood Dam	.73	.24	.95	10.29	3.20	4.74	.45	.04	0	0	0	0	20.64
240B	Little Tujunga Canyon - Oddous Ranch	1.25+	.70+	1.50+	15.65	4.62	5.39	1.23	0	.04	0	0	0	30.38
241	Long Beach - City Hall	.49	.08	1.32	4.96	2.02	1.88	.53	.01	.02	0	0	0	11.31
246B	Culver City - Bus Yard	.71	.19	1.31	7.75	2.00	2.78	.84	T	0	0	0	0	15.58
247	Rivera	.63	- -	D i s c o n t i n u e d	- -	- -	- -	- -	- -	- -	- -	- -	T	27.57
248E	West Saddle Peak - Malibu Creek	.90	.06	1.22	15.98	4.15	4.40	.86	T	T	0	0	0	27.57
249	Mint Canyon - The Oaks Garage	.72	.58	1.24	9.63	3.08	4.50	.87	0	.03	0	0	0	20.65
250C	Acton - Olive View Camp	.35	.28	.34	10.55	2.06	2.31	1.04	0	0+	0+	0+	0+	16.93
251	La Crescenta	1.34	.45	1.34	24.36	6.17	7.32	1.01	T	.04	0	0	T	42.03
253	Western Avenue Tank - L.A.W.D.	.74	.18	1.33	7.76	2.48	3.53	.85	0	T	0	0	0	16.87
254	Rowlands Ranch	.73°	.18	1.62	10.05	4.23	4.50	.51	0	0	0	0	0	21.82
255	State Narcotic Hospital	.57	.27	1.10	10.37	4.44	5.38	.72	0+	0+	0+	0+	0+	22.85
256B	Pomona - Fire Department	.67	.20	1.22	10.84	4.77	5.66	.76	T	T	0	0	T	24.12
257	Griffith Park Nursery	.71	.35	1.20	11.52	2.70	4.82	.45	0	0	0	0	0	21.75
258a	Griffith Park Tunnel - Mt. Hollywood	.76	.31	1.10	11.35	3.61	5.07	.48	0	0	0	0	0	22.68
258b	Griffith Park - South Slope Mt. Hollywood	.76	.29	1.09	13.44	3.72	5.02	.49	0	0	0	0	0	24.81
258c	Griffith Park - North Slope Mt. Hollywood	.78	.35	1.15	14.08	3.96	5.59	.55	0	0	0	0	0	26.46
259B	Chatsworth Patrol Station	1.06	.47	1.60	14.60	3.54	7.12	1.15	0	T	0	0	0	29.54
261E	Acton - Mellen	.68	.50	.87	8.39	2.40	3.61	.94	0	T	0	0	0	17.39
263A	Pomona - Frater	.49	.20	1.10	11.27	4.71	6.32	.60	0	T	0	0	0	24.69
264	Sand Canyon - Brooks Ranch	1.70	0	.95	20.67	6.16	- -	-	N o	R e c o r d	-	-	-	Inc.
265C-E	Puente Hills - Weisel Ranch	.65	.35	1.53	11.20	3.74	4.17	.77	0	0	0	0	0	22.41
266	Leffingwell Ranch - East Whittier	.61	.25+	1.45	8.76	3.55	3.75	.77	0	0	0	0	0	19.14
268E	Torrance - 190th & Western Avenue - S.C.E. Co. Sub. Sta.	.71	.13	1.25	7.28	1.74	2.47	1.06	0	0	0	0	0	14.64
269A	Diamond Bar Ranch #1 Residence	.58	.29	1.41	12.75	5.34	4.85	.70	0	0	0	0	0	25.92
269B	Diamond Bar Ranch - Horse Camp	.60	.23	1.32	12.94	4.27	4.45	.71	0	0	0	0	0	24.52
270	County Farm - L. A.	.58	.23	1.43	8.35	3.03	2.81	.55	0	0	0	0	0	16.98
271	Dominguez Hills	.52	.17	1.33	6.32	2.34	2.89	.75	0	0	0	0	0	14.32
272	Headworks Pump Plant - L. A.	.80	.05	.90	16.06	4.33	5.53	.51	0	T	0	0	0	28.18
273	San Pedro Hills - McCarrell Ranch	.70	.28	1.15	9.21	2.06	2.33	.86	0	0	0	0	0	16.59
274	Acton (near) - Hubbard	1.10	.64	1.14	7.62	2.72	3.78	1.07	0	.03	0	0	0	18.10
275	San Marino - Huntington Library	.83	.39	1.20	14.82	4.90	7.15	1.52	0	0	0	0	0	30.81
277	Sawmill Mt. Ranch	1.08	.10	.68	15.42	5.84	4.49	1.55	0	0	0	0	0	29.16
278B	Clark Memorial Library	.74	.15	1.15	8.87	2.40	3.30	.70	0	0	0	0	0	17.31
279A	Kinneloa Ranch	1.36	.46	1.76	22.04	5.34	8.82	2.26	.11	.42	0	0	T	42.57
280B	Flintridge Fire Station	.93	.72	1.67	18.96	5.88	7.68	.96	.03	.02	0	0	T	36.85
283a	Crystal Lake - East Pine Flat	1.45	.87	1.24	31.48	12.09	8.57	2.80	0	.06	0	0	T	58.56
283b	Crystal Lake - West Pine Flat	1.53	.60	1.20	28.38	9.73	8.06	2.31	0	.06	0	0	T	51.87
284	Placerita Canyon	1.21	.06	.77	16.14	4.43	5.64	1.02	0	0	0	0	0	29.27
285C	Mt. Saint Mary's College	.93	.13	1.48	15.52	4.24	4.42	.98	T	.09	0	0	0	27.79
286B	Cowane Ranch - Osborne Avenue	.90	.16	1.19°	11.34	3.15	4.17	.97	0	0	0	0	0	21.88
287	Glendora - Irrigation Company Office	.90	.49	1.44	13.42	4.94	5.83	1.69	0	0	0	0	0	28.71
289	Laguna-Bell Sub. Station - S.C.E. Co.	.76	.25	1.23	9.42	3.36	3.06	.53	0	0	0	0	0	18.61
290	Newmark Sub. Sta. - S.C.E. Co.	.85	.30	1.21	10.44	3.13	3.16	.78	0	0	0	0	0	20.07
291	96th and Central Avenue	.45	.10	1.26	7.58	2.20	2.79	.43	0	0	0	0	0	14.81
292E	Encino Reservoir	.80	.04	1.03	11.73	3.48	3.82	.82	.01	.01	0	0	0	21.74
293	Lower Fernando Reservoir	1.19	.47	1.29	13.05	4.42	5.05	1.10	.02	0	0	0	0	26.59
294	Mira Monte Pump Plant	1.38	.53	1.64	22.27	6.07	9.48	1.87	.04	.22	0	0	0	43.50
295F	Glendale - Kennedy	.85	.28	1.02	13.47	4.28	4.10	.49	.02	T	0	0	0	24.51
298	Gorman	.54	0	1.32	6.13	2.59	4.92	2.90	0	0	0	0	0	18.40
299C	Calivalli Farms - Little Rock	.42	.04	.24	5.53	1.65	1.77	.90	0	0	0	0	.04	10.59
300B	Garrapata Canyon	.79	0	1.22	18.73	4.60	5.04	.93	0	0	0	0	0	31.31
303B	Cal-Tech	1.07	.36	1.25	16.65	4.85	7.08	1.30	0	0	0	0	0	32.56
304	Deer Park - Monrovia	2.48	1.14	2.07	30.70	7.91	9.33	3.34	.03	.25	0	0	0	57.25
305	Arroyo Sequis - Mason Estate	1.36	.14	1.97	15.59	3.84	4.55	.90	0	.03	0	0	0	28.38
306A	Trancas Canyon at Ocean	1.17	0	1.19	5.93	2.84	4.68	.31	0	0	0	0	0	16.12
307	Snow Crest Camp	.82°	.74	2.50	23.15	9.34	- -	N o	R e c o r d	- -	- -	- -	- -	Inc.
308	Kelly's Kamp	2.02	1.07	2.66	25.92	18.00	11.32	2.78	0	0	0	0	.41	64.18
309	Padua Hills	2.23	.64	1.41	15.65	6.44	6.27	2.02	0	0	0	0	T	34.66
311b	Pasadena Meteorological Station	1.21	.38	1.34	16.98	5.69	6.89	1.15	.05	.03	0	0	0	33.72
312	Glendora Irrigation Company - Azusa Plant	1.05	.55	1.41	14.28	5.50	5.97	1.67	0	0	0	0	0	30.43
315	Glendora - H. C. Warren Residence	1.18	.66	1.48	14.29	5.72	6.47	2.02	0	0	0	0	0	31.82
317	Big Pines Sawmill Flats #2	.88	0	.93	17.50	5.68	4.35	2.28	0+	0+	0+	0+	.25+	31.87
318	Big Pines - Jackson Lake	.51	0	.42	20.36	5.68	4.35	1.62	0	0	0	0	.25+	33.19
320A	Sycamore Canyon - Chevy Chase	.85	.39	1.39	17.37	5.36	6.87	.53	0	0	0	0+	0+	32.76
321E	Pine Canyon Patrol - Co. F.S. (Elizabeth Lake)	1.50	.11	.55	15.68	4.17	4.14	.58	0	T	0	0	0	26.73
322	E. S. Munz Valley Ranch	1.10	0	.10	7.81	1.48	3.13	.32	0	0	0	0	.16	14.10
326B	Santa Ynez Canyon	.60+	.11+	1.65	14.13	3.51	3.84	1.00	0	0	0	0	0	24.84

TABLE XII 1942-43 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
334E	San Gabriel Dam No. 2	1.53	.24	1.28	33.80	10.41	10.20	1.96	0	.02	0	0	.65	60.09
336	Silver Lake Reservoir	.68	.21	1.16	9.78	3.49	4.50	.45	T	0	0	0	0	20.27
338A	Mt. Wilson	1.89	1.07	2.13	34.58	10.69	12.10	2.30	0	.09	0	0	T	64.85
338B	Mt. Wilson Airways Station	1.89	.95	2.28	28.59	9.71	10.98	1.97	0	.14	T	0	T	56.51
339	Walnut-Fruit Growers Association	.62	.19	1.14	11.23	4.25	5.05	.51	0	0	0	0	0	22.99
341	Blum Ranch	.52	.34	.37	9.29	2.03	2.15	.86	0	0	0	0	1.60	17.16
342	Uplands	1.51	.46	1.60	13.83	5.15	4.93	1.71	0	.17	0	0	.09	29.45
343B	Telegraph Road	.57	.31	1.44	9.31	2.70	2.30	.21	0	0	0	0	0	16.84
347E	Baldwin Park Experimental Station	.58	.26	1.30	11.93	4.03	4.31	.99	T	0	0	0	0	23.40
348C	Honor Camp No. 4 - East Fork San Gab.	1.64	.38	1.21	23.04	7.29	6.99	2.30	0	0	0	0	0	42.85
349B	Camp Rincon	1.44	.23	1.25	27.64	7.85	6.79	1.12	0	T	0	0	0	46.32
351D	Palmdale	.64	.11	.23	5.59	2.01	2.63	.68	0	0	0	0	.33	12.22
352	Leohuza Patrol - Co. F. S.	1.44	.40	2.23	15.81	3.94	5.12	1.13	0	0	0	0	0	29.16
353	Duarte - Monrovia Citrus Association	.77	.47	1.51	13.29	5.01	4.82	1.15	0	0	0	0	0	27.02
354B	Honor Camp No. 6	1.47	.70	1.63	24.85	11.00	10.15	2.49	0+	0+	0+	0+	.13+	52.42
355	Los Angeles City College	.78	.31	1.07	10.74	3.07	4.58	.51	0	0	0	0	0	21.06
356	Diamond Bar Ranch #2 Office - Spadra	.62	.25	.96	10.60	4.57	5.35	.85	0	0	0	0	0	23.20
357	Power House #3	1.50	.68	.52	13.85	4.59	5.89	.88	0	.02	0	0	0	27.93
358B	Aldrich Ranch	.30	.04	.34	- - -	Discontinued	- - -	- - -	- - -	- - -	- - -	- - -	- - -	Ino.
360A	Haines Rock Crusher Plant	1.38	.34	.86	17.40	5.75	5.81	1.02	0	.05	0	0	0	32.61
362	El Mirador Ranch	1.30	.45	1.40	18.38	6.08	7.67	1.47	.03	.02	0	0	T	36.80
364	Haines Canyon-Lower (U.S.G.S.)	1.63	.57	1.03	21.80	6.71	6.68	1.29	0	.11	0	0	0	39.82
366	Valyermo	.25	.08	.14	9.75	2.45	2.09	1.35	0	0	0	0	.29	16.40
367	Haines Canyon - Upper	1.91	1.10	1.26	29.91	7.81	7.52	1.76	0	.31	0	0	0	51.58
372	San Francisquito Canyon Power House #2	.62	.25	.46	12.42	4.18	8.47	.55	0	0	0	0	0	26.95
373	Briggs Terrace	1.59	.57	1.25	24.41	6.84	7.32	1.35	.04	.25	0	0	T	43.62
375B	Griffith Park Zoo	.70	.28	1.18	13.84	4.09	5.78	.50°	0	0	0	0	0	26.37
377D	Lake Sherwood Estates	1.15+	.25+	1.80+	17.46	3.34	4.15	.66	0	0	0	0	0	28.75
379B	San Gabriel - East Fork P4B	1.62	.41	1.21	26.10	7.92	6.94	2.03	0	.03	0	0	T	46.26
380	El Sereno	.77	.28	1.08	13.59	3.87	5.65	.66	0	0	0	0	0	25.90
381B	Santa Monica - "Outlook"	1.15	.09	1.33	8.62	2.22	2.55	.64	T	0	0	0	0	16.60
384B	Highland Park - San Rafael Hills	1.05	.42	1.16	13.53	5.25	5.95	1.12	T	.03	0	0	0	28.49
385	North Whittier Heights - Smith	.81	.39	1.23	14.94	3.54	- - -	Discontinued	- - -	- - -	- - -	- - -	- - -	Ino.
386B	Zuma Canyon - Oakley	1.31	.27	1.73	26.08	6.01	6.64	.73	.02	.06	0	0	.03	42.88
387B	Covina - Water Company	.71	.33	1.07	11.02	3.84	4.68	1.31	T	0	0	0	0	22.96
388B	Clear Water Fire Station	.59	.16	1.41	7.63	2.99	3.21	.66	.02	0	0	0	0	16.67
389	Glendora - Brown	1.17	.71	1.46	14.31	5.23	6.70	1.93	.06	.12	0	0	0	31.69
390B	Morris Dam	1.90	.92	1.60	20.11	7.32	8.12	2.00	.05	.08	0	0	0	42.10
391B	Montebello - Fire Department	.82	.30	1.15	11.38+	2.88	3.45	.53	0	0	0	0	0	20.51
392B	Altadena - Barton	1.44	.45	1.73	19.42	5.77	7.22	2.29	.08	.20	0	0	0	38.60
394	Highland Park - Lindsay	.86	.25	.97	13.34	4.71	6.90	1.24	.02	0	0	0	0	28.29
395	Olive View Sanatorium	1.26	.57	1.30	15.12	5.04	5.52	.88	0	0	0	0	0	29.69
397B	Tujunga - Begue	.60	1.05	.98	20.17	Ino.	- - -	No Record	- - -	- - -	- - -	- - -	- - -	Ino.
400	Pasadena - Washington & Palm Terrace	1.11	.39	1.57	18.12	5.71	6.84	2.08	.05	.08	0	0	0	35.95
402C	State Prison Camp	1.45	.78	1.22	33.97	10.52	8.72	2.65	0	0	0	0	T	59.31
403	Altadena - Lindvall	1.62	.40	1.91	20.89	6.03	7.77	2.52	0	0	0	0	0	41.14
404	Glendale - Opid	.82	.32	1.08	14.02	4.61	5.65	.59	.05	0	0	0	0	27.14
405	Soledad Canyon - Eckles (Nelson)	.57	.54	.69	13.85	3.08	3.76	.86	T	T	0	0	T	23.35
406C	West Azusa - Azusa Irr. Co. Plt. #6	.79	.31	1.37	12.27	4.32	4.85	.92	0	0	0	0	0	24.83
407	Newhall - U.S.F.S. Headquarters	.98	.29	.52	14.95	4.07	5.96	1.20	0	0	0	0	0	27.97
408	Soledad Canyon - Mitchell	.88	.17	.93	12.31	3.53	4.75	.70	0	0	0	0	0	23.27
409	Ridge Route (New) - State Highway Maint.	.51	T	.28	14.24	4.59	3.58	1.03	0	0	0	0	0	24.23
410A	Ridge Route - Paradise Ranch	No Record			17.97	- - -		No Record	- - -	- - -	- - -	- - -	- - -	Ino.
411	Rivera - Pico - Robinson	.78	.34	1.29	11.08	3.23	3.56	.57	0	0	0	0	0	20.85
412B	Pasadena - Ohio and South Euclid Ave.	.98	.36	1.13	15.28	4.59	5.84	.93	.03	0	0	0	0	29.14
415	Signal Hill - City Hall	.45	.13	1.22	5.12	2.22	2.38	.60	0	.02	0	0	0	12.14
416	Altadena - Ventura St.	1.21	.49	1.55	17.49	6.37	8.34	2.02	.08	.11	0	0	0	37.66
417	Sierra Madre-Lamanda Park Citrus Assn.	1.18	.51	1.32	18.54	4.98	7.85	1.52	T	T	0	0	0	35.90
418	Pickens Canyon - U.S.F.S. Exp. Plots	1.56	Ino.	- - -	- - -	Discontinued	- - -	- - -	- - -	- - -	- - -	- - -	- - -	Ino.
419	Santa Clara Ridge - Mt. Gleason	.93	.87	1.17	21.96	7.22	6.09	1.39	0	0	0	0	0	39.63
420A	Aoton - Colombo Ranch (Modie)	.40	.16	.33	12.12	2.70	2.70	.64	0	0	0	0	0	19.05
421	Lopez Canyon below Mouth	1.10	.22	.94	13.60	3.49	5.14	1.01	.04	.04	0	0	0	25.58
422	Pacoima Canyon	1.16	.82	1.48	- - -	Discontinued	- - -	- - -	- - -	- - -	- - -	- - -	- - -	Ino.
423	Aliso Canyon - Wagon Wheel Ranch	.77	.30	.41	16.79	5.35	4.83	1.98	0	0	0	0	.25	30.68
425A-E	San Gabriel Dam No. 1	2.86	.58	1.25	26.71	8.05	7.48	1.71	0	.06	0	0	T	48.70
425B	San Gabriel Dam No. 1 - near Spillway	2.40	.60	1.24	26.38	7.79	7.44	1.65	0	.06	0	0	T	47.56
427	Downey - Jordan	.62	.20	1.28	8.57	3.05	2.89	.52	T	T	0	0	0	17.13
428	Altadena - Laity	1.53	.42	1.82	20.19	5.65	7.54	2.38	.14	.29	0	0	0	39.96
429	Red Box - State Highway Maint. Dept.	1.82	.54	1.38	29.55	10.10	8.62	2.31	0	0	0	0	T	54.32
430	Saugus - State Highway Maint. Dept.	.60	.04	.67	15.96	3.91	4.73	.95	0	0	0	0	0	26.86
431	Baldwin Hills - North side	1.00	.17	1.54	9.24	2.14	3.72	.70	0	.01	0	0	0	18.52
432	Santa Anita - Fern Lodge	2.25	.58	2.08	28.29	8.24	11.78	2.37	0	.13	0	0	T	55.72
433	Altadena - Co. F. S. Recreation Park	1.44	.48	1.55	18.48	6.32	7.47	2.12	0	.28	0	0	0	38.14
434	Malibu Hdqts. - Co. F. S.	.83	.90	1.41	16.87	3.49	5.33	.53	0	0	0	0	0	29.36
435	Monte Nido Canyon - Co. F. S.	.87	.06	1.14	16.22	4.37	3.92	.83	0	0	0	0	0	27.41
437	Hamilton Bowl - Long Beach	.46	.14	1.37	5.25	2.05	2.09	.63	.02	.03	0	0	0	12.04
438	Encino - Quirello	.90	T	1.05	16.44	4.43	4.13	.87	0	0	0	0	0	27.82
439B	Charlton Flats - U.S.F.S.	1.25	.38	1.14	23.76	7.98	8.00	1.74	0	0	0	0	.67	44.92
440	Chilao Guard Station - U.S.F.S.	.78	.37	1.03	21.62	Ino.	- - -	Discontinued	- - -	- - -	- - -	- - -	- - -	Ino.
440B	Chilao - C.F.S. Camp	Not Installed	-			8.60	7.40	1.60	0	0	0	0	.27	Ino.
441-E	Palmdale - Co. Road Maintenance Dept.	.71	.11	.23+	5.11	1.77	2.59	.72	0	0	0	0	.42	11.66
442	Mescal Creek (Near)	.32	.03	.21	6.38	2.54	1.95	1.35	0	0	0	0	.02	12.80
443	Latigo Canyon Roads Junction with Mulholland	1.45	.32	2.15	17.42	5.65	5.83	.89	0	.05	0	0	0	33.76
444	Rolling Hills - Palos Verdes	.62	.18	1.17	9.74	1.95	2.41	.58	0	0	0	0	0	16.65
445B	Live Oak Canyon at Dam	1.29	.63	1.59	15.42	5.96	5.42	2.12	0	0	0	0	0	32.43
446	Aliso Canyon - Santa Susana Mts.	1.40	1.09	1.63	18.53	4.92	7.48	1.32	0	0	0	0	0	36.37
447	Las Flores Canyon - Co. F. S.	.70	T	1.34	10.56	2.99	2.96	.79	0	.06	0	0	0	19.40
449	Eaton Dam	1.20	.40	1.27	18.81	4.64	7.99	1.51	.06	0	0	0	0	35.88
450	Eagle Rock	1.00	.30	1.08	14.15	5.08	6.05	.84	0	0	0	0	0+	28.50
451	Castaic Guard Station - Co. F. S.	.84	.15	.96°	11.31	2.03	4.54	.96	0	0	0	0	0	20.89
452	Studio City - Thayer	1.24	.39	1.06	16.33	3.53	4.54	0	0	0	0	0	0	27.09
453	Devils Gate Dam	1.02	.37	1.48	17.10	6.02	7.72	1.94	0	0	0	0	0	35.65
454	Los Angeles - W. J. Wood	.82	.20	1.26	9.21	2.47	3.58	.60	0	0	0	0	0	18.14
455	Lancaster - State Highway Maint. Dept.	.35	.04	.18	5.23	1.25	1.79	1.07	0	0	0	0	0	9.91
456	Yato Kya Indian Museum - Piute Butte	.38	0	.18	3.01	1.45	1.70	1.00	0	0	0	0	.10+	7.82
457	Los Angeles - Carlson	.66	.26	1.00	10.42	3.88	4.16	.46	0	T	0	0	0	20.84
458	Zuma Canyon - Co. Forestry Patrol Sta.	.86	.08	1.97	7.19	1.82	3.72	.35	.05	.02	0	0	0	16.06
460	Pleasant View Mesa - Matay	.56	0	.40	12.34	3.15	3.20	2.57	0	0	0	0	.83+	23.05
461	Baldwin Hills - Standard Oil Field Off.	.81	.15	1.29	Ino.	Ino.	Ino.	.80	0	.06	0	0	0	Ino.
462	Hillcrest Country Club	.86	.13	1.40	9.32	2.55	3.34	.73	0	T	0	0	0	18.33
463	Mar Vista - Southern California Water Co.	.60	.19	1.36	8.54	2.25	3.33	.75	0	T	0	0	0	17.02
464	Tujunga Canyon Honor Camp #5	1.15	.47	1.13	26.87	7.35	6.24	1.48	0	0	0	0	0	44.69
466B	Pacoima Canyon near Dutch Loui Canyon	1.09	1.02	1.85	19.61	6.61	6.55	1.68	0	.11	0	0	0	38.52
467B	Glendale - Clifford	Not Installed			16.87	4.88	5.45	.68	0	0	0	0	0	Ino.
468-E	Pickens Debris Basin	1.04	.42	1.29	20.85	5.12	6.53	1.08	.02	.07	0	0	0	36.42
469	Los Angeles	.81	.27	1.11	10.73	3.45	3.89	.57	T	T	0	0	0	20.83
470	Tujunga - Mill Creek	.66	.56	.99	11.93	4.23	4.06	1.93	0	0	0	0	.44	24.80
471	Little Tujunga - Gold Creek	.90	.60	1.27	17.38	5.40	4.21	1.22	0	0	0	0	0	30.98
473	Aqua Dulce Canyon - Blackwell Ranch	.65	.22	1.08	14.44	3.77	4.31	1.34	0	0	0	0	0	25.81
474	South Gate - Police Department	.70	.31	1.46	10.26	2.39	2.65	.63	0	0	0	0	0	18.40
475	Saugus - Newhall Land & Farming Company	.72	.22	.74	12.20	2.73	4.78	.83	0	0	0	0	0	22.22
476	Lobo Canyon	1.10	.11	1.54	17.92	4.18	4.84	.62	0	0	0	0	0	30.31
477	Santa Anita - Spring Camp	2.58	.55	1.58	37.96	9.62	11.14	2.45	0	.10	0	0	.11	66.09
478	Valyermo - U.S.F.S.	.25	.07	.13	11.41	2.84	2.39	.95	0	0	0	0	.08	18.12
479	Arcadia - Genter	Ino.	.70	1.41	10.66	- - -	- - -	No Record	- - -	- - -	- - -	- - -	- - -	Ino.
480	Temple City Times	.80	.28	1.42	11.88	4.53	4.79	.85	T	0	0	0	0	24.55
481	Glendora - Green	.79	.79	1.47	13.10	4.77	4.71	-	Discontinued	- - -	- - -	- - -	- - -	Ino.
482	Los Angeles - University of So. Calif.	.76	.20	1.31	9.77	2.83	3.96	.60	0	0	0	0	0	19.43
483	Josephine Mt. Lookout	.58	.67	1.48	20.47	6.57	6.32	1.61	T	.06	0	0	0	37.76

TABLE XII 1942-43 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
484	Ice House Canyon Resort	Not Installed - -				8.32	10.17	2.71	0	0	0	0	.35+	Inc.
X-3A	Rustic Canyon Fire Area - Josepha	.77	.15+	1.48	12.98	2.97	3.40+	.99	.08+	0	0	0	0	22.82
X-3C	Pacific Palisades Fire Area	.70	.13	1.37	12.40	2.48	3.02	.87	.07	0	0	0	0	21.04
X-5	Las Flores - Camp #7	.96+	0+	1.58	13.95	3.58	4.18	.86	0	0	0	0	0	25.11
508A	Flood Headquarters - Arroyo Seco	1.11	.50	1.57	23.01	6.79	7.66	1.15	T	.20	0	0	0	41.99
508B	Arroyo Seco Ranger Station	1.05	.48	1.44	19.29	6.95	7.57	1.47	.05	.21	0	0	0	38.51
516	Buena Park	.53	.14	1.27	7.86	2.58°	3.94+	.74+	0	0	0	0	0	17.06
517	Andersen Ranch (Burkhart)	Not Installed				16.34	4.40	3.40	1.50	0	0	0	.93	Inc.
529	Chino-American Beet Sugar Company	.53	.16	1.02	10.10	4.46	5.22	.55	0	.03	0	0	0	22.07
530	Conejo Ranch	.87	.14	1.35	12.10	2.92	4.40	.50	0	0	0	0	0	22.28
557	La Habra - Citrus Association	.63	.29	1.52	9.86	3.39	3.74	.69	0	0	0	0	0	20.12
564	Llano	.60	.09	.25	7.45	2.05	2.22	1.72	0	0	0	0	.15	14.38
577E	Los Angeles - 6th & Main Streets	.55	.22	.97	9.78	3.08	4.60	.48	T	T	T	0	T	19.68
577F	Los Angeles - U.S.W.B.	.58	.24	1.01	7.98	3.07	4.55	.50	T	0	T	0	T	17.93
588B	Mt. Lowe - Wurmser	1.82	.92°	2.28°	28.00°	9.28	10.17°	2.80	0	0	0	0	0	55.27
589	Mountain Springs Ranch	No Record -			14.33	5.44	6.87	No Record			0	0	0	Inc.
593B	Newhall Ranch	.84	.18	.88	17.13	3.06	6.03	.58	0	0	0	0	0	28.70
594	Newhall - S.P.R.R. Depot	.77	.08	.57	17.25	3.32	5.11	.81	0	0	0	0	0	27.91
597	Newbury Park	1.02	.23	1.45	12.98	2.43	4.02	.54	0	0	0	0	0	22.67
610A	Pasadena - Morris Jones	.99	.45	1.44	17.83	5.57	7.34	1.93	.10	.13	0	0	.02	35.80
610B	Pasadena - City Hall	1.14	.41	1.26	16.43	5.51	6.76	1.23	.03	.05	0	0	.01	32.83
611	Pasadena - Allen	1.49+	.42	1.62	19.41	5.81	7.55	2.01	.08	.14	0	0	T	38.53
612	Pasadena - Chlorine Plant	1.01	.46	1.38	21.00	6.55	7.53	1.54	.05	.15	0	0	0	39.67
613B	Pasadena - Hurlbut Fire Station	.48	.42	1.15	14.68	7.42	5.93	.78	0	0	0	0	0	30.86
618	Santa Susana - Wolff Ranch	.70	0	1.05	11.86	2.77	4.86	.90	0	0	0	0	0	22.14
623	San Fernando - U.S.W.B.	1.65	.40	1.46	12.28	3.62	4.77	1.53	.07	.05	0	0	0	25.83
634B	Santa Monica - City Hall	1.07	.10	1.40	8.20°	2.92	2.33	.72	0	0	0	0	0	16.74
649C	Glendora - Bradley	1.00	.59	1.42	13.85	5.42	6.02	1.87	0	.12	0	0	0	30.29
656B	Sunland - Bonner	1.19	.17	.71	13.94	4.43	4.43	.80	0	0	0	0	0	25.67
671B	Los Angeles S.C.E. Co. #3 Sub. Sta.	.77	.25	.99	11.60	3.31	4.99	.58	0	T	0	0	0	22.49
672	Eagle Rock S.C.E. Co. #3 Sub. Sta.	1.09	.38	1.17	12.98	5.57	6.80	1.22	.04	.01	0	0	T	29.26
673	Seal Beach - L. A. Power & Light Corp.	.45	.17	1.13	5.88	2.03	2.40	.70	T	0	0	0	0	12.76
674	Compton - American Beet Sugar Company	.44	.10	1.77	7.14	2.84	3.33	.52	0	0	0	0	0	16.14
676	Los Angeles - West 80th Street	.90	.24	1.47	8.34	2.45	3.79	.66	T	.02	0	0	0	17.87
677	Pasadena - Hayes	1.23	.43	1.51	18.63	6.51	7.51	1.46	.06	.04	0	0	.01	37.39
678	Pasadena - Sheldon Reservoir	1.26	.44	1.51	18.96	6.16	7.91	1.53	.04	.05	0	0	0	37.86
679	North Whittier Citrus Association	.68	.33	1.14	13.84	3.29	3.75	.88	0	0	0	0	0	23.91
680	U.C.L.A.	.75	T	1.74	11.98	2.69	3.36	.66	.02	.02	0	0	0	21.22
681	Santa Anita Ranger Station	.68	.57	1.69	25.21	6.02	8.93	1.70+	.06+	.13+	0+	0+	0+	44.99
682	Gould Station S.C.E. Co. Sub. Sta.	1.14	.60	2.01	19.71	6.62	4.73	.81	0	.20+	0	0	0	35.82
683	Sunset Guard Station - U.S.F.S.	1.19	.55	1.52	23.55	7.19	8.86	2.68	.08	.38	0	0	0	46.00
684	Arcadia Warehouse - U.S.F.S.	.89	.39	1.24	15.39	5.32	5.89	1.33	T	.01	0	0	0	30.46
685B	South Pasadena - Marsh	.95	.38	1.25	15.39	4.95	7.47	1.50	0	0	0	0	0	31.89
686	Big Dalton - Spreading Grounds	1.36	1.07	1.48	15.38	6.82	7.17	2.17	T	.24	0	0	0	35.69
689B	San Marino - Cooper	.87	.37	1.18	15.29	4.71	6.82	1.14	0	0	0	0	0	30.38
691	San Antonio Spreading Grounds	2.63	.55	1.39	16.24	5.96	5.87	2.48	.01	.12	0	0	.37	35.62
693	Bellflower - Anthony	No Record			1.45	9.50	2.42	- -	No Record		-	-	-	Inc.
694	Tujunga Canyon - Guard Sta. U.S.F.S.	1.35	.65	1.10	15.46	3.16	5.85	1.11	.03	.19	0	0	0	28.90
695	Tujunga Canyon - Valhalla Ranch	1.48	.74	1.24	26.69	8.51	6.41	1.23	0	.15	0	0	0	46.45
697	Venice - Sunset Pier	.68	.16	1.47	6.04	1.86	2.65	.60	0	0	0	0	0	13.46
699	Los Angeles - 30th & Trinity Streets	.67	.15	1.19	8.95	3.05	4.28	.53	0	0	0	0	0	18.78
700	Los Angeles - Slauson & Long Beach Avenues	.95	.18	1.20	8.60	2.62	3.81	.58	0	0	0	0	0	17.94
703	Glendale - McIntyre	.84	.31	1.12	13.51	4.30	5.47	.53	.05	.01	0	0	0	26.14
705	Alder Creek - Paradise Ranch	1.23	.68	1.51	16.02	4.58	5.14	1.38	0	.04	0	0	0	30.58
706	Rivera - Hadley Ranch	.65	.20	1.00	10.82	2.97	3.43	.45	0	0	0	0	0	19.52
707	Pasadena - Millard	1.04	.46	1.52	17.51	6.95	8.19	2.01	.26	.17	0	0	0	38.11
708	Glendora - Gordon Ranch	.88	.54	1.58	14.42	5.59	6.23	1.87	.04	.10	0	0	0	31.25
710	Millard Saddle	.97	.37	1.59	16.77	5.77	6.66	1.71	0	.33	0	0	0	34.17
711	Pine Canyon	1.20	.56	1.54	19.92	6.91	7.10	1.65	0	.30	0	0	0	39.18
712	Brown Mountain	1.55	1.08	2.01	18.22	7.22	9.06	2.75	0	.11	0	0	0	42.00
713	Mt. Lowe Ridge	1.32	.63	1.63	Inc.	6.23	6.97	1.94	0	.10	0	0	0	Inc.
714	Mt. Disappointment	1.45	.82	1.93	N.R.	7.95	8.48	2.27	0	.08	0	0	0	Inc.
715	Post Office Terminal - U.S.W.B.-L.A.#2	.65	.22	.97	10.91	3.31	5.16	.50	T	.01	T	0	T	21.73
716	Ducommun Street - L.A.W.D.	.66	.29	1.02	10.71	3.23	4.89	.50	0	0	0	0	0	21.30
717	Pasadena - Morris	1.09	.46	1.71	17.78	4.55	6.73	1.70	.06	.16	0	0	.01	34.25
718	1000 Oaks	No Record -			12.56	2.94	4.08	.55	0	0	0	0	0	Inc.
719	Duarte - Maddock Ranch	1.20	.75	2.00	20.23	7.20	8.09	2.88	0	0	0	0	0	42.35
720	Simi Valley - Smith Ranch	.93	.34	1.18	14.29	3.57	5.44	1.09	0	0	0	0	0	26.84

Legend

+---------Estimate from nearby station.
•---------Partly estimated.
I---------Incomplete record.
N.I.-------Not Installed.
N.R.-------No Record.

TABLE XIII

RAIN GAGE STATION LOCATION

SEASON 1942-43

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	North Lat. ° ' "	West Long. ° ' "	Observer	Location
2	S	22-25	1025	34 03 02	118 46 25	R. Currier	Upper Escondido Canyon
3	S	34-09	875	34 06 25	118 47 38	J. K. Ward	La Sierra Canyon at Cornell
5B	S	35-64	924	34 09 30	118 38 09	Tom Farmer	4801 El Canon Avenue, Calabasas
6	SA	24-01	747	34 05 08	118 35 58	Captain Barton	.4 miles South of Topanga Canyon Bridge
7C	S	24-55	90	34 02 28	118 32 45	Henry Rodriguez	Bel Air Bay Club, Roosevelt Highway
8	Sp	25-03	470	34 03 57	118 29 35	M. D. Gardner	Rear of Administration Building, Mandeville Canyon
9	Scw	48-37	815	34 13 34	118 28 03	Robert Larson	8535 Sepulveda Boulevard
10	SA	25-51	540	34 05 11	118 26 45	O. F. Bell	10601 Chalon Road, West Los Angeles
11C	SowA	37-87	867	34 07 14	118 24 38	F. S. Payne	Upper Franklin Reservoir
12	S	37-86	1175	34 07 48	118 24 42	City Firemen	Mulholland Highway at Franklin Canyon
13	S	38-34	593	34 09 47	118 22 17	Katie Blix	10834 East Blix, North Hollywood
14	Scw	49-46	1000	34 14 19	118 21 28	E. S. Merrill	Near mouth of La Tuna Canyon
15	ScwA	37-41	695	34 10 48	118 27 03	Frank Carr	Aetna and Vesper Streets, Van Nuys
17	S	37-07	1400	34 07 48	118 29 42	City Firemen	Sepulveda Canyon at Mulholland Highway
18	S	36-73	815	34 09 56	118 31 38	E. M. Sherman	Adohr Dairy, Ventura Boulevard
19	S	35-96	1520	34 08 23	118 36 00	Wm. A. Lunn	Summit-Topanga Canyon Road
20B	S	35-84	986	34 09 07	118 36 35	L.A.W.D.	Girard Reservoir
21	S	36-02	876	34 10 16	118 35 56	Carl Wyninger	Canoga Road, North of Ventura Boulevard
22	SA	46-58	930	34 12 37	118 38 39	Paul Johnson	23800 Cohassett Street, Bel Canyon, San Fernando Valley
23E	Scw	46-87	865	34 13 36	118 37 03	R. R. Melrose	East end Chatsworth Reservoir
24C	S	46-94	965	34 15 23	118 36 12	E. L. Johnson	10239 Jordan Avenue, Chatsworth
25B	Sp	47-57	795	34 13 44	118 32 53	Jack Andrews	19055 West Parthenia Street, Northridge
27	S	48-64	944	34 15 25	118 26 07	W. D. Miller	14163 Van Nuys Boulevard, Pacoima
28	S	48-32	950	34 16 15	118 27 54	B. Hanneman	11030 Sepulveda Boulevard, San Fernando
29B	S	47-81	1150	34 17 02	118 30 50	L.A.W.D. Operator	Mayerling Street at L.A.W.D. Pump Plant, Granada
30	Scw	59-28	1250	34 18 37	118 28 17	W. C. Simonds	Sylmar Olive Packing Plant
32E	S	58-61	1243	34 23 07	118 31 54	Mrs. Drake	Inland Highway ½ mile North of Newhall
33A'-E	SA	60-07	1500	34 19 48	118 23 59	L. L. Moore	Caretaker's House, below Pacoima Dam
38	S	49-34	1060	34 15 13	118 21 44	Sam Chappel	10100 Helen Street, Roscoe
39B	8-81"	50-19	1610	34 12 18	118 17 05	F. C. Employees	Sunset Dam, Burbank
42	S	7-15	50	33 50 28	118 23 22	City Clerk	Roof of City Hall, Redondo
43A	Sp	2-10	300	33 48 00	118 23 20	S. F. Bergstrom	75 Malago Cove Plaza, Palos Verdes Estates
43B	Sp	2-20	450	33 47 47	118 22 12	Gomer Sims	Golf Club - Palos Verdes Estates
44	Sp3"	1-85	125	33 44 30	118 24 38	A. Trittinger	Near Point Vicente Light House
46C-E	SA	51-10	2290	34 17 36	118 11 23	D. J. Robertson	West of Spillway, Big Tujunga Dam
47A	SA	51-22	3100	34 16 36	118 10 15	Mrs. H. H. Rogers	1.6 miles up Clear Creek, from Big Tujunga
48	S	51-15	1800	34 14 44	118 11 00	J. R. Phillips	Oak Wild Resort - Arroyo Seco
49	Sp	40-50	1345	34 11 45	118 08 58	Geo. S. Chiesa	221 East Foothill, Altadena
50B	S	40-10	1155	34 11 48	118 11 03	Henry Mack	352 Foothill, Flintridge
51	S	65-69	4650	34 18 12	117 50 30	Mrs. R. F. Hill	1 mile North of Coldbrook Camp (Little Cienega)
52B	SA	51-44	2800	34 15 32	118 09 14	Norman Wilson	Switzer's Camp, Long Canyon tributary to Arroyo Seco
52C	S	51-53	3290	34 15 58	118 08 37	U.S.F.S.	Waterman Guard Station - Arroyo Seco
53A	SA	62-89	3500	34 18 04	118 06 42	F. C. Employes	Sleepy Hollow Ranch (Colby's), Coldwater Canyon, Big Tujunga
54	SwbA	63-55	4050	34 20 30	118 02 56	Mrs. L. G. Loomis	Near Junction North and Middle Forks, Alder Creek
56	S	52-24	3450	34 15 13	118 04 28	Geo. Comstock	Kamp Kole (formerly Valley Forge Lodge), West Fork of San Gabriel
57B-E	SwbA	52-04	4350	34 15 13	118 05 50	J. F. Griffith	West Fork San Gabriel River
58	S	52-67	3225	34 13 15	118 02 19	Fred Meyer	Upper Big Santa Anita Canyon (Sturtevant Camp)
60A	SA	52-69	2750	34 12 32	118 02 02	LeRoy Haynes	West Fork Santa Anita Canyon (Hoegee's Camp)
63B-E	S	41-81	1400	34 10 57	118 01 22	Ben Harrison	Caretaker's House - Santa Anita Dam
64	S	41-71	1600	34 10 48	118 01 30	J. E. Clark	Clark's Half Way House on old Sturtevant Trail
66	S	41-54	665	34 09 29	118 02 36	C. J. Pegler	415 East Live Oak Avenue, Sierra Madre
67B	S	41-95	560	34 08 57	118 00 02	G. H. Duell	Roof - City Hall, Monrovia
68B	S	42-12	1378	34 10 35	117 59 15	R. E. Waddicor	Sawpit Dam
69	S	42-31	2000	34 11 10	117 57 55	R. E. Waddicor	Upper Sawpit Canyon
70	SA	42-93	800	34 09 48	117 54 17	Roger Dalton	Mouth of San Gabriel Canyon
73	S	43-54	1200	34 09 22	117 50 53	O. H. Englehart	Mouth of Englewilde Canyon
76B	S	54-57	1500	34 13 33	117 50 48	Ted Cooper	San Gabriel Dam #1 Camp
82	S	67-11	7500	34 22 53	117 41 05	S. C. Warner	Top of Table Mountain
83E	SA	67-02	6860	34 22 45	117 41 28	D. M. Rowe	Big Pines Recreation Park
85D	SwbA	56-46	4300	34 14 12	117 39 32	C. E. Huse	U.S.F.S. Guard Station, Camp Baldy
87	S	44-33	1500	34 09 56	117 46 02	L. L. Winters	San Dimas Canyon, at West Fork
88E	S	44-24	1350	34 09 05	117 46 28	G. W. Rodgers	San Dimas Canyon below Dam at Caretaker's House
90	S	44-44	1680	34 09 00	117 45 32	R. S. Brydon	North end of Brydon Road
91	S	44-87	1405	34 07 16	117 43 11	Robt. Balch	2945 Indian Hill Road, Claremont
92	SA	32-90	1190	34 05 52	117 42 34	Prof. St. John Barrett	Pomona College Observatory
93	S	32-80	1165	34 05 47	117 42 59	Paul Gordon	221 West Second Street, Claremont
94	S	31-60	805	34 06 00	117 50 02	Will G. Fields	1331 Covina Boulevard, San Dimas
95	S	43-99	960	34 06 28	117 48 22	Employees	114 East First Street, San Dimas
96E	S	31-90	1030	34 05 30	117 48 24	F. A. Pollard	Knoll above Caretaker's house - Puddingstone Dam
98	Swb	42-96	602	34 08 02	117 54 14	John Hibsch	325 Foothill, Azusa
99	S	43-06	615	34 08 00	117 53 37	Charles Stewart	962 Foothill, Azusa
100B	Swb	42-73	1050	34 10 09	117 55 30	E. E. Sloan	Above U.S.G.S. Gaging Station, Fish Canyon
101	S	30-53	358	34 03 51	117 57 00	Hurst Bros.	Southeast Corner Merced & Orange Streets, West Covina
102B	S	31-29	488	34 00 14	117 52 13	Sam Trout	4009 Pomona Boulevard, Walnut, South Hills Patrol Station
104	Sp	30-09	600	34 00 23	117 59 46	Bart Priest	South end of 7 Avenue, North Whittier Heights
105	S	16-64	215	33 57 33	118 01 49	Peter E. Sharples	1226 Laurel Avenue, Whittier
106	S	16-61	365	33 58 53	118 02 13	K. R. Warren	City Hall Roof, Whittier
107B	S	15-65	118	33 56 33	118 08 10	T. C. Loggins	224 West Second Street, Downey Fire Station
108B	SA	29-62	301	34 04 27	118 02 08	Martin Sorenson	126 South Tyler Street, El Monte Fire Station
109B	S	41-27	527	34 07 33	118 04 17	Mrs. Linden	1830 Arcadia Avenue, Arcadia
110	S	28-70	485	34 05 40	118 07 43	J. W. Clay	Northwest Corner Second & Main Streets, City Hall, Alhambra
111	Sp	40-48	660	34 06 58	118 09 05	Norval B. Krug	Northwest Corner Mound & Mission Streets, City Hall, South Pasadena
114	S	14-09	64	33 54 07	118 17 29	C. E. Rosecrans	Southeast Corner Vermont & Rosecrans, Gardena
116B	Sp	13-43	125	33 57 45	118 21 40	Eugene D. Wells	111 East Queen Street, Inglewood Fire Station
117B'	S	8-70	68	33 53 43	118 13 29	Capt. Edward Dowd	Fire Station, Compton
117D	S	8-70	68	33 53 30	118 15 38	G. D. Aumack	Compton Junior College
118B	S	3-41	40	33 47 20	118 15 32	E. A. Bishop	1251 Banning Boulevard, Wilmington
119C	S	25-44	355	33 03 25	118 27 17	L. P. Emerick	National Military Home, Sawtelle
120	S	74-51	3250	34 29 30	118 07 45	John B. Sigrist	1533 Sierra Highway, Vincent
121	S	112-79	2350	31 41 58	118 07 48	R. E. Lofinck	Union High School, Lancaster
122	S	98-29	3200	34 36 20	118 16 30	Juan Arrache	Bouquet Canyon Road, ½ mile South of Elizabeth Canyon Road
123	Sp	96-73	3250	34 40 00	118 25 20	Eli Munz	Between Elizabeth and Hughes Lakes
124B	Aow	84-31	3000	34 35 10	118 21 40	R. W. Mathews	Bouquet Canyon West of Orchard and Residence Yard
125	Scw	83-40	2100	34 35 20	118 27 10	Station Operator	Power Plant #1, Upper San Francisquito Canyon
126	S	12-41	7	33 59 18	118 27 33	A. S. Ede	Venice City Yards
127	Scw	70-71	1507	34 28 55	118 31 40	Jim Ray	Dry Canyon Reservoir
128	S	95-49	2041	34 36 25	118 33 26	Louis G. Klein	Elizabeth Lake Canyon at Radium Hot Springs
130B	S	106-85	4025	34 44 37	118 42 43	J. L. Ozanne	Quail Lake County Patrol Station
134	S	44-07	1110	34 07 39	117 47 45	A. L. Stevens	½ mile North of Foothill, West of Artesia Avenue, San Dimas
135	S	10-30	83	33 53 50	118 03 58	C. J. Hargitt	801 Bloomfield, Norwalk
136B	S	26-70	305	34 05 28	118 19 30	D. M. True	6225 Santa Monica Boulevard
137B	S	38-48	1125	34 06 51	118 21 13	F. C. Employees	East side Gurson Canyon near Mulholland Highway
139	Scw	27-54	300	34 03 08	118 14 48	J. Jones	Southeast Corner Second & Hill Streets, L.A.W.D. Roof
F.C. Roof	S	27-33	262	34 02 55	118 15 38	F. C. Employees	751 South Figueroa Street, F. C. Office Roof
140	S	25-55	232	34 02 44	118 26 57	W. B. Scott	Rear - 1620 South Purdue Street, West Los Angeles
143	S	42-96	607	34 08 04	117 54 17	Paul E. Smith	City Hall Park, Azusa
144	S	41-52	1100	34 10 34	118 02 32	B. F. Mobley	Foot of Sierra Madre Dam
150	SA	42-11	1800	34 11 09	117 59 14	R. E. Waddicor	Monrovia Canyon Falls
155B	S	87-79	2900	34 30 18	118 01 40	Gene Breslin	Little Rock Creek, 1.5 miles below Dam
156	S	10-81	86	33 53 15	118 00 58	Standard Oil Employees	Center Street and Lemont Avenue, La Mirada
157	Sp	12-88	135	33 54 55	118 25 10	Lac. Employees	Standard Oil Refinery, El Segundo
158	Sp4p	55-49	2700	34 12 21	117 45 34	U.S.F.S. Employees	West Fork San Dimas Canyon, Tanbark Flats
164	Sp 3"	41-93	690	34 09 32	118 00 25	Charles J. O'Connor	432 North Primrose, Monrovia
167	Sp	41-64	611	34 09 32	118 02 02	Scott M. Lee	89 Orange Grove Avenue, Arcadia Pump Plant
168	S	41-09	433	34 06 07	118 05 45	Richard Watts	309 East Live Oak Avenue, San Gabriel

TABLE XIII 1942-43 (Continued)

Sta. No.	Type Gage	Quad. Index	Elev. U.S.G.S.	North Lat. ° ' "	West Long. ° ' "	Observer	Location
169	Sp	41-63	700	34 09 49	118 02 23	B. F. Mobley	621 Sierra Madre Avenue, Sierra Madre Pump Plant
170B	S	29-15	297	34 02 34	118 04 54	J. M. Malneritch	3651 Walnut Grove, San Gabriel
171	S	41-35	635	34 08 48	118 04 05	W. E. Comerford	South Michillinda near East Colorado, Lamanda Park
174	Sp	43-86	965	34 07 57	117 49 10	H. C. Warren	Old Foothill - 2.75 miles East of Glendora
175B	S	50-87	2020	34 13 40	118 12 42	W. N. Carpenter	Northwest corner Alta Canada and Del Oro Drive
176	Sp	40-61	1125	34 10 55	118 08 16	J. H. Parsons	575 Sacramento Street, Altadena
177C	S	51-09	1255	34 12 12	118 11 36	P. L. Bradford	4607 Commonwealth Avenue, La Canada
178	A	43-09	545	34 06 24	117 53 58	E. B. Griffith	Bonita Street, near Citrus Avenue, Azusa
179B	SwbA	41-52	1125	34 10 22	118 02 46	Lily van Leer	666 North Mt. Wilson Trail Road, Sierra Madre
181B	S	29-94	293	34 03 10	118 00 06	R. S. Clifford	South side Valley Boulevard at Covina Boulevard, Bassett
182	Sp	30-41	378	34 05 17	117 57 35	S. Howard Leach	334 North Maine Street, Baldwin Park
185	S	43-46	822	34 08 23	117 51 33	L. M. West	460 East Bennett Street, Glendora
188B	S	44-08	1065	34 07 14	117 47 29	R. S. Brydon	1000 San Dimas Canyon Road, San Dimas
189	Sp	43-98	1000	34 06 47	117 48 28	J. R. Harris	112 West Sixth Street, San Dimas
192B	S	15-12	145	34 58 47	118 11 18	Jack Carroll	6320 Pine Street, Bell
193	S	31-21	575	34 04 57	117 52 28	W. B. Temple	748 Puente Street, Covina
196	S	44-39	1054	34 06 01	117 46 07	R. W. Young	2146 Third Street, La Verne
199B	S	14-81	175	33 59 21	118 13 06	W. E. Ford	City Yard, Slauson and Miles, Huntington Park
200	S	70-27	1093	34 25 23	118 34 32	M. B. Ball	2.5 miles West of Saugus Ridge Route
201	SA	17-00	860	34 59 40	117 59 30	Mrs. Blanche Lowry	Alta Mira Orchard, 1 mile Northeast of Summit Turnbull Canyon Road
205	Sp	30-79	374	34 00 34	117 55 46	E. C. Lester	S.C.E. Company Sub Station Valley Boulevard, 1.5 miles East of Puente
206	S	30-94	467	34 03 19	117 54 25	P. R. Jackson	2024 Azusa Avenue, Valencia Heights
208	Sp 5"	10-14	49	33 51 35	118 04 52	W. S. Russell	Barr Lumber Company, 1804 Pioneer Street, Artesia
209B	8.81"	62-49	2485	34 18 20	118 09 33	F. C. Employee	Big Tujunga at Edison Road
210B	SA	39-21	1250	34 11 19	118 16 21	F. C. Employee	Southwest Slope, 200 feet above tank, Brand Park
213	SA	26-43	177	34 03 48	118 21 19	F. C. Employee	La Brea Fossil Pits, 5801 Wilshire Boulevard
215B	S	9-71	73	33 52 56	118 07 29	Captain Cullem	917 East Flower Street, Bellflower Fire Station
216	Swb	39-43	620	34 09 55	118 15 01	J. E. Jones	318 East Randolph Street, Glendale
217	8.81"	14-75	110	33 56 37	118 13 45	J. S. Carver	2265 East 103rd Street, Watts
218	S	7-54	75	33 51 11	118 20 26	Marion E. Dice	2 miles Northwest of Torrance, General Petroleum Corporation
219	S	48-94	955	34 15 21	118 24 27	Warehouse Foreman	12605 Osborne Avenue, Pacoima
220	S	29-28	195	34 00 54	118 04 25	D. M. Cate	547 Friendship Avenue, near Montebello
221B	S	59-99	1375	34 18 32	118 24 20	F. Crabtree	Keiner Ranch, Pacoima Wash
222	Scw	38-10	732	34 11 55	118 23 18	Station Operator	11845 Vose Street, North Hollywood
223B-E	S	43-83	1575	34 10 13	117 48 30	Paul Keiser	Caretaker's house below Big Dalton Dam
224	S	4-03	30	33 46 05	118 11 35	R. E. Bixby	Building West of 22 Pacific Avenue, Long Beach
225	S	9-85	47	33 50 35	118 07 09	W. R. White	Montana Ranch, 3 miles Southwest of Artesia
226	S	38-91	665	34 10 55	118 18 24	F. Olohvary	125 East Third Street, Burbank Fire Station
227B	S	40-99	487	34 06 32	118 06 19	G. B. Gleason	424 North Milton Avenue, San Gabriel
228B	Ap	26-02	255	34 04 27	118 23 57	C. Valle Riestra	City Hall Roof, Beverly Hills
230C	Swb	44-68	1255	34 00 57	117 44 12	C. S. Elder	4055 North San Antonio Avenue, 0.6 mile North of Foothill Boulevard
234	S	31-23	630	34 03 39	117 52 38	Ben F. Thorpe	North side Cameron Avenue, .2 mile East of Barranca Street
235B	SpA	41-10	2550	34 11 36	118 05 20	County Forest Service Employees	Henninger Flats, Forestry Nursery, Mt. Wilson
236	S	59-88	1455	34 19 12	118 24 59	V. H. Craig	Craig Ranch, San Fernando, North end Hubbard Avenue
237	Scw	37-49	725	34 06 25	118 27 13	L.A.W.D. Employees	Stone Canyon Dam
238	Scw	38-68	750	34 07 04	118 19 55	L.A.W.D. Employees	Hollywood Dam
240B	S	60-67	1900	34 19 04	118 20 02	J. Oddous	5.0 miles up Little Tujunga Canyon, from old Foothill Boulevard
241	Sp	4-03	30	33 46 12	118 11 35	C. Bower	Utilities Building, Long Beach
246B	S	26-18	75	34 01 00	118 23 17	Bus Depot Employee	Corner Jefferson and Duquesne Streets, Culver City
248E	S	23-12	890	34 04 28	118 41 19	Ralph Ziehlke	West Slope Saddle Peak, above Crater Camp
249	S	84-48	2400	34 30 45	118 21 15	W. A. Dodrill	Mint Canyon Road - The Oaks Garage
250C	S	74-04	2550	34 27 02	118 11 52	L. M. Luglan	Soledad and Arrastre Canyon Roads, Acton
251	S	50-57	1565	34 13 28	118 14 24	H. A. Sheuner	2908 Foothill Boulevard, La Crescenta
253	S	13-95	235	33 56 54	118 18 35	Mrs. R. R. Bohmer	9625 South Western Avenue - L.A.W.D.
254	S	17-50	466	33 59 37	117 56 30	J. Iriate	Extension of Grazido Road and South edge of Rowland Ranch
255	S	31-55	770	34 02 51	117 50 50	E. H. Gammon	State Narcotic Hospital, near Spadra
256B	S	32-44	882	34 03 26	117 45 04	Chief A. E. Cooke	Fifth and Thomas Street, Pomona
257	SA	39-17	750	34 07 12	118 17 11	J. Kladler	2650 North Commonwealth Avenue, Griffith Park Nursery
258a	8.81"	38-97	1100	34 07 24	118 18 11	Louis Strauss	West of Tunnel, Point of Ridge, Griffith Park
258b	8.81"	39-07	1400	34 07 45	118 17 53	Louis Strauss	South Slope of Mt. Hollywood, Griffith Park
258c	8.81"	39-06	1600	34 07 54	118 17 54	Louis Strauss	North Slope of Mt. Hollywood, Griffith Park
259B	SA	46-92	1249	34 16 38	118 36 12	Geo. M. Cuthbert	21880 Mayon Drive, County Forest Service Twin Lakes Park
261E	SA	73-30	3075	34 29 51	118 15 56	H. F. Mellen	Escondido Canyon, North Branch, near Acton
263A	S	30-56	778	34 01 54	117 44 26	G. H. Grant	2211 S. Towne Street, Pomona
264	S	59-92	1900	34 22 42	118 24 28	J. C. Brooks	Sand Canyon - Coyote Canyon Branch, formerly Riley Ranch
265C-E	S	17-74	675	33 57 13	117 55 23	P. J. Weisel, Jr.	Anaheim Road, 1 mile North of Whittier Boulevard, Puente Hills
266	Sp	17-06	253	33 56 25	117 59 35	C. A. Hewitt	1234 Santa Gertrudes Avenue, Whittier
268E	SpA	7-94	57	33 51 32	118 18 33	Station Operator	190th and Western Avenue, S.C.E. Company Sub Station
269A	S	18-53	710	33 58 09	117 50 40	G. H. Hall	Diamond Bar Ranch #1, Brea Canyon Road
269B	Sp	18-62	760	35 58 42	117 49 54	Angel Reyes	Diamond Bar Ranch, Horse Camp
270	S	15-46	104	33 56 17	118 09 22	Clyde Morrow	County Farm #1, 741 Old River School Road
271	S	8-63	195	33 51 37	118 14 01	W. W. Wright	Dominguez Hills, South side of Reservoir - summit
272	S	38-94	473	34 09 21	118 18 20	E. B. Hon	West of North Entrance, Griffith Park, near Los Angeles River
273	S	2-12	1235	34 46 30	118 22 53	W. W. McCarrell	Top of San Pedro Hills, West end.
274	Sp	85-68	3250	34 30 50	118 14 10	Mrs. A. S. Hubbard	Mint Canyon Road, just East of Summit
275	Sp 3"	40-87	670	34 07 41	118 06 40	C. L. Brown	Huntington Estates, San Marino
277	S	108-17	3700	34 43 15	118 35 00	Clarence Scates	Sawmill Mt. Ranch, 8.9 miles Northwest of Lake Hughes
278B	S	26-86	203	34 02 00	118 18 58	Zack Lind	2205 West Adams, Los Angeles
279A	Sp	41-11	1325	34 10 50	118 05 04	Ross M. Lockhart	Kinneloa Ranch, East side Eaton Wash
280B	SA	40-01	1325	34 10 57	118 11 47	Station Employees	1028 Inverness Drive, Flintridge Fire Station
283a	SpA	65-67	5740	34 19 35	117 50 14	L. E. McDonald	Crystal Lake County Park - East Pine Flat
283b	Sp	65-58	5370	34 18 58	117 50 30	L. E. McDonald	Crystal Lake County Park - West Pine Flat
284	S	59-22	1480	34 22 38	118 28 42	D. F. Pollock	Placerita Canyon - formerly Dulin Ranch
285C	S	25-11	1025	34 05 10	118 28 57	Martin Bullinger	Mt. St. Mary's College - Santa Monica Mts.
286B	8.81"	49-22	1120	34 16 37	118 22 38	John Hermann	11332 Osborne Avenue, San Fernando
287	Sp	43-36	782	34 08 22	117 51 54	H. C. Warren	234 North Michigan Avenue, Glendora
289	Swb	15-52	140	33 58 38	118 08 45	S. C. Edison Co. Employee	Compton and Alonerria Road just North of Baker Avenue
290	S	28-75	375	34 02 45	118 07 43	S. C. Edison Co. Employee	La Merced Hills - Garfield Ave. at S. C. Edison Co. Sub Station
291	Aco	14-45	121	33 57 00	118 15 25	L. A. Co. Surveyors	96th and Central Streets, Los Angeles
292E	Scw	36-85	1000	34 08 56	118 30 52	L. E. Swinney	Crest of Encino Dam - 1 mile Southwest of Encino
293	Scw	48-11	1150	34 17 18	118 28 54	Damtender - L.A.W.D.	800 feet North and West end Lower San Fernando Dam
294	Sp	41-53	985	34 10 11	118 02 57	B. F. Mobley	Mira Monte Avenue Pump Plant, Sierra Madre
295F	S	39-34	530	34 09 07	118 15 40	Maurice Kennedy	415 West Lexington Avenue, Glendale
298	S	105-40	3830	34 47 50	118 51 07	J. L. Ralphs	Gorman, Ridge Route Northwest corner Los Angeles County,
299C	S	88-26	2835	34 32 10	117 58 39	Mrs. Lena Schwab	Little Rock
300B	Sp 3"	36-18	990	34 07 03	118 35 02	R. L. Peeler	Garrapata Canyon ¼ mile Northeast of Topanga Canyon Road
303B	SA	40-76	763	34 08 15	118 07 27	Prof. Michael and Students	Cal Tech Campus, East of Administration Building
304	S	42-30	2700	34 11 39	117 57 50	R. E. Waddicor	Deer Park 1½ miles above Sawpit Dam
305	S	21-01	1155	34 05 13	118 53 27	R. L. Mason	East Fork Arroyo Sequis, South of Road
306A	S	21-56	10	34 01 52	118 50 30	R. C. Carlton	Roosevelt Highway, Trancas Canyon
307	Sp	56-73	6500	34 16 05	117 37 35	Mrs. Nelson	Snow Crest Camp, Rear of Tavern
308	Sp	56-96	8300	34 13 50	117 36 22	H. S. Delker	Kelly's Kamp, 1¼ miles Northeast of Ontario Peak
309	Sp	45-05	1768	34 08 36	117 41 51	Kenneth B. Forbes	4064 Monte Vista Ave., Padua Hills
311b	SpAp	40-43	918	34 09 48	118 09 28	Pasadena Water Department	1083 Mentone Street, Pasadena
312	Sp	42-85	675	34 08 51	117 54 55	F. F. Kammerdiener	1 mile Northwest Azusa
315	Sp	43-15	865	34 08 51	117 52 53	J. M. Boggman	300 feet West of Ben Lomand Avenue on Sierra Madre Avenue
317	Sp	67-12	6750	34 22 24	117 41 00	D. M. Rowe	.6 mile Southeast of Main Road near Swartout - Valley Park Entrance
318	Sp	66-70	6075	34 23 30	117 43 40	D. M. Rowe	South edge Jackson Lake
320A	S	39-93	900	34 09 57	118 12 23	G. W. Burroughs	2816 East Chevy Chase Boulevard
321E	S	96-72	3400	34 40 27	118 25 49	County Forestry Employees	Guard Station Between Elizabeth and Hughes Lakes
322	8.81"	110-48	2600	34 42 50	118 21 15	E	Lancaster - Bailey Road 14 miles West of Lancaster
326B	S	24-43	500	34 04 08	118 33 34	E. R. Baer	2 miles in Santa Ynez Canyon from Sunset Boulevard
334E	SA	53-35	2335	34 14 34	117 58 00	E. K. DeVore	San Gabriel Dam #2 West Fork San Gabriel River
336	Scw	39-39	455	34 06 08	118 15 54	Reservoir Caretaker	Silver Lake Reservoir, Los Angeles
338A	Swb	52-47	5650	34 13 27	118 03 32	J. O. Hickox	50 feet South of 60" Telescope, Mt. Wilson
338B	SwbA	52-37	5709	34 13 36	118 03 57	V. W. Kellogg	¼ mile West of 60" Telescope, Mt. Wilson
339	Sp	31-49	533	34 00 13	117 51 11	Packing House Employee	¼ mile Southeast of Walnut, South side UPRR tracks
341	S	74-43	2900	34 27 51	118 09 25	Geo. J. Blum	Aliso Canyon - East of Acton

TABLE XIII 1942-43 (Continued)

Sta. No.	Type Gage	Quad Index	Elev. U.S.G.S.	North Lat. ° ' "	West Long ° ' "	Observer	Location
342	S	45-17	1550	34 07 13	117 40 48	R. C. Kadnum	1544 North Benson Street, Upland
343B	Sp	16-04	141	33 57 10	118 05 49	F. C. Collins	2625 Passons Boulevard, Rivera
347E	S	30-30	387	34 05 38	117 57 39	Various	Scott Place, 1 block West of Maine Street, Baldwin Park
348C	SA	55-36	2000	34 15 25	117 45 26	G. H. McKelvey	.6 mile North Northeast of Camp Bonita, East Fork San Gabriel Canyon
349B	S	54-46	1530	34 14 20	117 51 36	Mrs. C. M. Schmidt	Camp Rincon, 1.3 miles up West Fork San Gabriel Canyon
351D	Swb	86-82	2648	34 34 51	118 06 52	H. P. Schoeller	Avenue Q 7 between East 8th and East 9th Streets, Palmdale
352	SA	21-21	1530	34 04 50	118 52 38	L. Cesena	4 miles from Coast on Decker Road
353	Sp	42-26	458	34 07 58	117 58 43	E. S. Hart	Duarte Road at Buena Vista Street, Duarte
354B	S	56-27	4527	34 13 40	117 40 10	G. W. Oakley	Divide between Cow and San Antonio Canyons, 1½ miles Southwest of Camp Baldy
355	S	27-01	315	34 05 21	118 17 34	Frank S. Trueblood	855 North Vermont Avenue, Los Angeles
356	SpA	31-86	675	34 02 15	117 48 43	W. P. Collins	Spadra Office Diamond Bar Ranch, 0.5 mile Southeast Pomona Boulevard
357	Scw	59-08	1248	34 18 49	118 29 30	Station Operator	Power House #3 North of Upper San Fernando Reservoir
358B	S	77-16	4050	34 26 10	117 53 07	A. P. Aldrich	Pallett Creek 2½ miles Northwest Devil's Punch Bowl
360A	S	50-23	2150	34 15 36	118 16 38	G. W. Hutton	Haines Canyon Rock Crusher
362	Sp	40-23	1025	34 09 56	118 10 46	J. D. Hoffman	1475 El Mirador Drive, Pasadena
364	Swb	50-23	2450	34 15 50	118 16 13	F. C. Employee	50' East of USGS Gaging Station Haines Creek
366	S	77-45	3740	34 26 37	117 51 00	L. F. Noble	½ mile Northwest Valyermo ½ mile South of Big Rock Creek
367	SwbA	50-42	3450	34 16 18	118 15 07	F. C. Employee	At upper Fork near Head of Haines Canyon
372	Scw	82-76	1580	34 32 02	118 31 27	Station Operator	San Francisquito Canyon, 11 miles Northeast of Saugus
373	SA	50-76	2310	34 14 16	118 13 42	L. R. Bleitz	5613 Canyon Side Drive, Briggs Terrace
375B	S	39-16	650	34 08 02	118 17 18	C. W. Kens	Griffith Park Zoo, Los Angeles
377D	Sp	V-Co.	1075	34 09 00	118 53 35	T. E. Moody	North edge of Lake Sherwood - Ventura County
379B	S	54-86	1600	34 14 06	117 48 14	F. C. Employee	East Fork, 2.7 Miles above Fork, San Gabriel River
380	SA	28-11	553	34 04 54	118 11 02	Geo. P. Morgan	4566 Bedillion Street, El Sereno
381B	S	25-08	100	34 01 06	118 29 50	Paul F. Knief	1245 4th Street, Santa Monica
384B	S	40-26	825	34 06 43	118 12 02	F. B. Laverty	502 Lake View Road, Pasadena
385	Sp 3"	30-19	500	34 00 20	117 59 22	J. A. Smith	1058 Los Robles Avenue, North Whittier Heights
386B	Sp 3"	21-71	1500	34 04 58	118 49 38	R. H. Oakley	Dume Canyon, just Northwest of Vera Canyon
387B	Sp	31-01	508	35 05 02	117 53 57	W. A. Poole	227 South Hollenbeck Avenue, Covina
388B	S	9-40	71	33 53 30	118 09 33	Fire Station Employee	210 North Paramount Boulevard, Clearwater
389	Sp	43-35	825	34 08 49	117 52 04	Frank H. Brown	1000' North of Penn and Sierra Madre Avenue, Glendora
390B	Sp	43-21	1210	34 11 12	117 52 43	Fred Chapman	Morris Dam, San Gabriel Canyon
391B	S	28-98	205	34 00 40	118 06 17	Fire Station Employee	140 North Sixth Street, Montebello
392B	Sp	40-71	1335	34 11 20	118 07 21	C. W. Barton	1338 Hull Lane, Altadena
394	S	40-28	620	34 07 06	118 10 40	Robert H. Lindsay	6425 Elgin Street, Highland Park
395	S	59-57	1425	34 19 31	118 26 56	R. N. Loomis	Olive View Sanitarium, San Fernando
397B	Sp	50-25	1850	34 14 50	118 16 39	Philip Begue	6711 Shady Grove, Tujunga
400	Sp	40-63	1000	34 10 08	118 08 12	H. J. Sievert	Washington and Palm Terrace, Pasadena
402C	SA	65-23	6665	34 21 38	117 52 17	Geo. F. Charles	10.5 miles Northeast of Chilao
403	Sp	40-90	1360	34 11 26	118 06 32	F. C. Lindvall	2006 East Allen Drive, Altadena
404	S	39-54	653	34 09 29	118 14 25	John Opid	811 North Glendale Avenue, Glendale
405	S	73-06	2250	34 26 15	118 17 38	Fred Eckles	11.7 miles East of Solemint on Soledad Canyon Road
406C	S	42-88	505	34 06 53	117 54 58	L. James	710 West Broadway, West Azusa
407	S	58-82	1325	34 22 13	118 30 46	Ray McCormick	1 mile Southeast of Newhall-U.S.F.S.
408	S	71-58	1472	34 24 47	118 26 24	J. Mitchell	0.4 mile South of Soledad Canyon Road, 1.2 miles West of Junction Sand and Soledad Canyons
409	S	93-12	2425	34 40 34	118 46 53	Rex C. Farmer	18 miles North of Castaic Junction New Ridge Route
410A	S	91-13	2525	34 34 05	118 41 17	C. J. Burnison	7 miles North of Castaic, New Ridge Route
411	Sp	16-10	173	33 59 33	118 04 54	V. M. Robinson	345 South Passons Boulevard, Pico
412B	Sp	40-57	755	34 07 45	118 08 28	H. J. Sievert	East of Euclid Avenue, 100' South of Ohio, Pasadena
415	SA	4-30	115	33 47 49	118 10 03	Geo. I. Osborne	Signal Hill City Hall
416	Sp	40-40	1170	34 11 28	118 09 28	C. C. Curtis	2666 Lincoln Avenue, Altadena
417	Sp 3"	41-05	742	34 08 56	118 05 42	F. G. Webber	150 North Vineda Street, Lamanda Park
418	SA	50-94	4075	34 15 20	118 12 53	F. C. Employee	Upper end Pickens Canyon, USFS Experimental Plots
419	SA	61-92	5450	34 22 26	118 12 20	C. C. Brevidoro	Head of Pacoima Canyon on Santa Clara Ridge, Mt. Gleason
420A	S	74-07	3100	34 25 20	118 11 52	C. C. Brevidoro	3.3 miles South of Acton on Mt. Gleason Truck Trail
421	Scw	48-91	1173	34 17 07	118 24 14	Joseph Hand	12559 Filmore Street, San Fernando Valley
422B	S	60-35	2200	34 20 50	118 21 53	B. K. Walsh	2.25 miles above Pacoima Dam
423	S	75-08	3920	34 24 56	118 04 28	Earl W. Scribner	Aliso Canyon, 1.1 miles off Angeles Forest Highway
425A	SA	54-49	1470	34 12 23	117 51 25	F. C. Employee	East Abutment, San Gabriel Dam #1
425B-E	S	54-49	1481	34 12 21	117 51 25	F. C. Employee	Dam Crest, San Gabriel Dam #1
427	S	15-64	127	33 57 28	118 08 12	L. W. Jordan	751 West Florence Avenue, Downey
428	Sp	40-90	1340	34 11 31	118 06 17	H. J. Laity	2323 Rubio Drive, Altadena
429	S	51-83	4460	34 15 43	118 06 43	I. Bird	Angeles Crest Highway, 0.9 mile South of Red Box
430	S	70-57	1176	34 25 17	118 32 26	C. T. Warren	Saugus, at State Highway Maintenance Department
431	S	26-48	150	34 00 53	118 21 18	J. M. Donovan	3870 South La Brea Avenue, Baldwin Hills
432	Swb	52-89	2035	34 12 27	118 01 03	R. B. Hosford	Santa Anita Canyon, Fern Lodge
433	SA	51-69	1710	34 12 07	118 07 53	A. L. Goldenberg	Farnsworth Park, Altadena
434	S	34-46	800	34 07 57	118 45 08	B. O. Butler	Malibu Headquarters, Co. F. S. 1 mile South of Ventura Boulevard on Cornell Road
435	S	23-12	600	34 04 40	118 41 23	C. A. Bollman	Monte Nido Co. F. S. Brent's Mt. Crags Road
437	S	4-30	40	33 47 27	118 10 08	J. C. Vidmar	Hamilton Bowl, Long Beach
438	S	36-94	950	34 09 12	118 30 18	C. E. Quirello	17151 Oak View Drive, Encino
439B	SA	63-99	5500	34 18 18	118 00 03	Mrs. J. Allen	Charlton Flats, USFS Checking Station
440A	S	63-87	5150	34 19 45	118 01 10	Mrs. J. Allen	Chilao, USFS Guard Station
440B	S	63-97	5250	34 19 30	118 00 17	C. Keeney	Chilao, U.S.F.S. - C.P.S. Camp
441E	S	86-82	2662	34 34 31	118 06 53	James R. Nolan	Palmdale, County Road Department, Maintenance Yard
442	S	78-53	3810	34 28 09	117 44 45	E. A. Eberle	Near Mescal Creek on Fort Tejon Road, Desert
443	S	21-80	1725	34 05 50	118 48 55	W. A. Brandenberger	Junction Latigo Canyon Road and Mulholland Highway
444	S	2-52	475	33 46 45	118 20 58	E. Neal	"Rolling Hills", Palos Verdes Hills
445B	SA	44-56	1510	34 08 02	117 44 38	F. C. Employee	Live Oak Dam
446	SA	58-48	2367	34 19 00	118 33 27	C. A. Tidrick	5.5 miles above Devonshire Street in Aliso Canyon
447	S	23-65	138	34 02 43	118 38 17	T. E. Cheney	0.7 mile from Coast in Las Flores Canyon at Co. F. S. Guard Station
449	8.81"	41-03	902	34 10 08	118 05 28	F. C. Employee	Eaton Dam, Altadena
450	S	40-16	770	34 08 21	118 11 20	Carl A. Wohl	5052 Monte Bonita Street, Eagle Rock
451	S	69-83	1066	34 27 52	118 36 57	Joe Trout	24819 Route #99, Castaic
452	S	38-05	637	34 08 25	118 23 40	W. N. Thayer	3817 Mound View Avenue, Studio City
453	8.81"	40-21	1070	34 11 07	118 10 30	F. C. Employee	Devils Gate Dam, Pasadena
454	S	26-86	200	34 02 13	118 19 08	W. J. Wood	2210 3rd Avenue, Los Angeles
455	S	99-61	2395	34 40 57	118 08 03	L. R. Potter	Lancaster, State Highway Maintenance Department
456	S	102-54	2680	34 39 02	117 50 55	C. D. Williamson	Yoto Kya Indian Museum, 22 miles East, 3 miles South of Lancaster
457B	S	27-32	400	34 04 17	118 16 04	S. M. Hancock	425 Zalvidea Street, Los Angeles
458	S	22-08	115	34 01 10	118 47 46	Capt. Barnes	Roosevelt Highway, East of Walnut Creek, Zuma Patrol Station
460	S	76-65	4265	34 26 52	117 56 20	L. Matay	.2 mile West of Griffin Road, 250 feet North of Pallett Road, Pleasant View Mesa
461	SA	26-29	392	34 00 08	118 22 32	J. B. Humphry	1 mile North of Slauson Avenue, 1-1/8 mile Southeast Ballona Creek
462	S	25-94	196	34 03 05	118 24 06	William Stewart	.2 mile South of West Pico Boulevard, .5 mile Northeast of Motor Avenue
463	S	25-78	92	34 00 49	118 25 32	Leo Minniok	11637 Charnock Road, Southern California Water Company, Mar Vista
464	S	51-40	3300	34 17 59	118 09 35	W. J. Phillips	County Detention Camp #5, Angeles Forest Highway
466B	SA	60-74	3225	34 21 07	118 20 38	B. K. Walsh	Pacoima Canyon, Dutch Loui Canyon
467B	Sp	39-72	900	34 10 28	118 13 23	George P. Clifford	1820 Verdugo Knoll Place, Glendale
468E	8.81"	50-77	1600	34 13 15	118 13 45	F. C. Employee	Pickens Debris Basin
469	Sp	27-14	235	34 03 19	118 17 25	R. F. Crisler	1015 Magnolia Avenue, Los Angeles
470	SAed	63-10	4700	34 23 10	118 05 24	F. C. Employee	Angeles Forest Highway, near Tie Canyon Divide, Mill Creek, Tujunga
471	SAed	60-98	2700	34 18 57	118 18 02	U.S.E.D. Employee	Gold Creek Truck Trail, 1.2 miles above Watts Ranch, Gold Creek - Little Tujunga
473	8.81"	72-64	2050	34 27 24	118 19 59	H. A. Blackwell	Aqua Dulce Canyon
474	Sp	14-94	127	33 57 35	118 12 32	Chief J. C. Gutting	8437 Victoria Boulevard, Police Department, South Gate
475	Sp	70-48	1134	34 25 04	118 33 23	H. Metcher	Newhall Land and Farming Company Office, Saugus
476	8.81"	34-07	800	34 07 26	118 47 43	H. D. Warner	At Junction of Lobo and Triunfo Canyon, Santa Monica Mts.
477	SA	53-18	4880	34 12 57	117 58 48	F. C. Employee	Spring Camp at Head of East Fork - Santa Anita Creek
478	Sp	77-45	3715	34 26 44	117 51 02	U. S. Forest Ranger	USFS Headquarters, Pear Blossom Highway, Valyermo
479	8.81"	41-78	367	34 06 50	118 01 32	E. Gonter	138 East Longden Avenue, Arcadia
480	S	41-39	403	34 06 27	118 03 36	W. H. Anderson	110 North Sunset Boulevard, Temple City Times, Temple City
481	8.81"	43-36	805	34 08 13	117 51 34	C. Green	114 North Pasadena Avenue, Glendora
482	S	27-17	208	34 01 15	118 17 17	R. M. Fox	920 West 36th Place, Los Angeles, Civil Engineering Building, U.S.C.
483	S	51-41	5558	34 17 10	118 09 10	A. B. Giesen	Josephine Mountain Lookout
484	Sp	56-65	5100	34 14 54	117 38 20	Mr. Chapman	Ice House Canyon Resort
X-3A	S	24-82	580	34 04 40	118 31 03	W. Miller	2100 Rustic Canyon Road, Rustic Canyon
X-3C	S	24-74	434	34 03 10	118 31 25	W. C. Robertson	15015 McKendree Avenue, Pacific Palisades
X5	SA	23-53	1390	34 04 05	118 38 43	E. Hemingway	Las Flores Canyon

TABLE XIII 1942-43 (Continued)

Sta. No.	Type Gage	Quad Index	Elev. U.S.G.S.	North Lat. ° ' "	West Long ° ' "	Observer	Location
508A	SpAp	51-27	1430	34 12 42	118 10 20	W. L. Burns	U.S.F.S., Arroyo Seco Flood Headquarters
508B	S	51-39	1220	34 12 33	118 10 10	U. S. Forest Ranger	Arroyo Seco Canyon, at El Prieto Canyon, USFS
516	Sp 5"	0-Co.	75	33 51 40	117 59 55	Nelson Hardware Employee	932 Grand Avenue, Buena Park
517	S	77-18	4700	34 25 00	117 53 10	Mrs. B. M. Andersen	Pallett Creek, Andersen Ranch (Burkhart Ranch)
529	Sp 3"	S.B.Co.	720	34 00 35	117 41 14	J. Crane	Central and Chino Avenue, Chino
530	Sp	V-Co.	650	34 10 55	118 53 15	Guy M. Turner	Conejo Ranch, Ventura County
557	Sp 3"	O-Co.	300	33 55 44	117 56 48	Mr. Bray	La Habra, Citrus Association, 305 South Hiatt Street
564	Swb	77-80	3400	34 29 47	117 49 02	F. J. Lecher	0.7 mile South of Llano
577E	Awb	27-55	417	34 03 ±	118 15 ±	U.S.W.B. Employee	Central Building, 6th and Main Streets, Los Angeles
577F	Awb	27-54	548	34 03 ±	118 14 ±	U.S.W.B.	Federal Building, North Spring Street, Los Angeles
588B	S	51-87	4450	34 13 35	118 06 40	J. W. Wurmser	Mt. Lowe in Grand Canyon
589	Sp	44-25	1400	34 08 43	117 46 30	J. Barton	Mouth of San Dimas Canyon, Top of Hill, East edge of Canyon
593B	Sp	68-69	675	34 24 05	118 44 10	Mr. McGill	Newhall Ranch, 3.1 miles West of Los Angeles-Ventura County Line
594	Sp 3"	58-72	1270	34 22 47	118 31 36	A. B. Thatcher	Southern Pacific Railroad Depot, Newhall
597	Sp 3"	V-Co.	710	34 10 40	118 55 17	R. Heckman	Newbury Park, Ventura County
610A	Sp	40-73	980	34 10 04	118 07 21	Morris Jones	1250 North Holliston Street, Pasadena
610B	Sp	40-55	864	34 08 55	118 08 36	H. J. Sievert	City Hall, Pasadena
611	S	40-92	1052	34 10 34	118 06 23	W. Allen	1751 North Pepper Drive, Altadena
612	Sp	51-39	1181	34 12 27	118 10 00	H. J. Sievert	Chlorine Plant, near Mouth Arroyo Seco Canyon
613B	Sp	40-46	780	34 07 48	118 09 15	H. J. Sievert	900 South Pasadena Avenue, Pasadena
618	Sp	V-Co.	980	34 16 43	118 43 18	J. M. Fuller	1 mile West of Santa Susana, Wolff Ranch, Ventura County
623	Swb	48-12	960	34 16 25	118 29 20	Bert Hanneman	16401 Mission Avenue, San Fernando
634B	Sp	25-08	88	34 00 40	118 29 28	Mr. Kolesoft	City Hall, Santa Monica
649C	Swb	43-55	955	34 08 51	117 50 46	Ernest Bradley	Sierra Madre Avenue, 270' West of Loraine Avenue, Glendora
656B	8.81"	49-83	1350	34 16 05	118 13 43	John Bonner	10921 O'Dell Avenue, Sunland
671B	Sp	27-94	325	34 03 16	118 12 13	Station Operator	1006 North Breed Street, Los Angeles, S.C.E. Company Sub Station
672	Sp	40-14	1000	34 09 00	118 10 58	Station Operator	7888 North Figueroa Street, Eagle Rock, S. C. E. Company Sub Station
673	Sow	4-85	15	33 44 42	118 06 43	Station Operator	Seal Beach, Los Angeles Power plant, San Gabriel River at Ocean
674	Sp 3"	8-85	32	33 50 26	118 13 11	Operator American Beet Sugar Company	600 North Dominguez, 900 East Alameda
676	Sp 4½"	13-93	173	33 58 01	118 18 24	H. F. Parkinson	1727 West 80th Street, Los Angeles
677	Sp	40-22	983	34 10 19	118 10 38	Jack Hayes	1408 Ontario Avenue, Pasadena
678	Sp	40-32	1047	34 10 40	118 09 57	H. J. Sievert	Sheldon Reservoir, Pasadena
679	Spl Dial	30-27	310	34 01 15	117 58 37	H. I. Morrie	533 9th Avenue, North Whittier Heights Citrus Association
680	Sp	25-52	425	34 04 17	118 26 27	U.C.L.A. Students	U.C.L.A. Campus
681	Sp	41-63	890	34 10 11	118 01 54	U. S. Forest Ranger	North end Double Drive Santa Anita Avenue, Arcadia
682	S	51-17	1900	34 13 20	118 11 16	L. E. Murray	Gould Sub Station Angeles Crest Highway
683	Sp	51-58	2110	34 12 53	118 08 48	U.S.F.S. Employees	Sunset Guard Station between Millard and West Ravine Canyons
684	Sp	41-65	518	34 08 47	118 01 58	U.S.F.S. Employees	Arcadia Warehouse, U.S.F.S.
685B	Sp 3"	40-59	557	34 06 10	118 08 34	N. F. Marsh	1934 Milan Avenue, South Pasadena
686	Sp	43-64	1175	34 09 27	117 49 48	N. D. Meacham	Big Dalton Spreading Grounds
689B	Sp 6"	40-68	608	34 06 59	118 08 03	Carl V. Cooper	2814 Carlaris Road, San Marino
691	8.81"	45-14	2075	34 09 20	117 40 55	J. T. Corrington	San Antonio Spreading Grounds
693	Sp 3"	9-70	77	33 53 30	118 07 13	J. R. Anthony	237 North Cornuta Avenue, Bellflower
694	Sp	50-10	1500	34 17 52	118 16 55	O. W. Rutherford	Tujunga Canyon, U.S.F.S. Guard Station
695	Sp	50-60	1850	34 17 22	118 13 38	E. G. Ulrich	Tujunga Canyon, 7 miles above Foothill Boulevard
697	Ap Sp	12-21	0	33 59 02	118 28 16	A. J. Bernal	Sunset Pier, Venice
699	Aco	27-38	208	34 01 10	118 15 51	Mr. Hunstock	30th and Trinity Streets, Los Angeles
700	Aco	14-51	176	33 59 20	118 14 36	Mr. Hunstock	Slauson and Long Beach Avenue, Los Angeles
703	Sp	39-54	603	34 09 02	118 14 29	P. T. McIntyre	3515 North Adams, Glendale
705	Sp 6"	60-87	2330	34 19 48	118 19 03	D. M. Shiffer	Cecil B. DeMille Ranch, Alder Creek, Little Tujunga Canyon
706	Sp	15-92	155	33 58 42	118 06 08	W. H. Williams	Hadley Ranch, Rivera
707	Sp	51-39	1325	34 12 17	118 10 01	Alfred Millard	269 Canyon Crest Road, Pasadena
708	Sp 5"	43-66	878	34 08 10	117 50 05	G. Clark	½ mile East of Valley Center Avenue and Foothill Boulevard, Glendora
710	Sp	51-37	2400	34 13 30	118 09 +	W. L. Burns	Millard Saddle, Arroyo Seco
711	Ap	51-35	2900	34 13 +	118 10 +	W. L. Burns	Pine Canyon, Arroyo Seco
712	Sp	51-66	4166	34 14 ±	118 08 ±	W. L. Burns	Brown Mt., Arroyo Seco
713	Ap	51-86	4800	34 14 +	118 07 ±	W. L. Burns	Mt. Lowe Ridge, Arroyo Seco
714	Sp	51-95	5500	34 15 ±	118 06 30	W. L. Burns	Disappointment Ridge, Arroyo Seco
715	Swb	27-64	280	34 03 ±	118 14 +	U.S.W.B. Employee	Post Office Terminal Building, Los Angeles
716	Sow	27-64	295	34 03 10	118 14 13	P. McIntyre	410 Ducommun Street, Los Angeles
717	Sp	40-73	990	34 10 04	118 07 37	Marjorie Ann Morris	1277 North Michigan Avenue, Pasadena
718	Sp	33-52	870	34 10 16	118 50 35	C. E. Taylor	1000 Oaks, Ventura County
719	Sp	42-54	785	34 09 01	117 56 47	G. L. Norton	Maddocks Ranch - Duarte
720	Sp	46-44	1200	34 15 36	118 39 36	J. E. Smith	East End Simi Valley, Ventura County

LEGEND REGARDING GAGE TYPE AND OWNERSHIP

S - - - - Standard 8" gage unless followed by number showing diameter. Owned by Flood Control District.
A - - - - Flood Control District Automatic gage.
Sp - - - Private gage of standard type 8" diameter.
Sp 6" - - Private gage of standard type 6" diameter.
Sp 5" - - Private gage of standard type 5" diameter.
Sp 4½" - - Private gage of standard type 4½" diameter.
Sp 3" - - Private gage of standard type 3" diameter.
Dial - - - - Gage registers cummulative rainfall only.
8.81" - - - Uses glass graduate with special Henson type collector ring. (8.81" diameter.)
cw - - - - - Gage owned by the Los Angeles City Water Department.
co - - - - - Gage owned by Los Angeles County but not Flood Control.
Spl - - - - Special type gage.
wb - - - - - Gage owned by United States Weather Bureau.
Ap - - - - - Private automatic gage.

Quad Index Numbers

The "Quad" index numbers assigned to precipitation stations serve as a location guide. The portion of the index number preceding the hyphen indicates the number of the "six minute" or 1:24000 scale topographic quadrangle as published by the United States Geological Survey. These "Quads" have been numbered from left to right beginning with the most south westerly and ending with the most north easterly "Quad" in Los Angeles County. The two digits following the hyphen indicate the horizontal and vertical coordinates respectively of each "Quad". The "Quads" having been divided into ten equal divisions both horizontally and vertically numbered from 0 to nine reading from left to right and top to bottom respectively.


LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
LOCATION OF
ACTIVE RAINGAGES
AND
ISOHYETAL MAP
SEASON 1942-1943
LOS ANGELES COUNTY
APPROVED BY
CHIEF ENGINEER
SUBMITTED BY
CHIEF-HYDRAULIC DIVISION
RECOMMENDED BY
ASST. CHIEF ENGINEER
DATE
3-8-45
2-H 68
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
258-b 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.
SCALE
5 Miles
PACIFIC OCEAN
ANTELOPE VALLEY
MOHAVE DESERT
MAP I

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

258-b 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.

SCALE

1 0 1 2 3 4 5 Miles

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

LOCATION OF ACTIVE RAINGAGES AND ISOHYETAL MAP

STORM OF JAN. 21-23, 1943

APPROVED BY _____ 4/24/43
ACTING CHIEF ENGINEER

SUBMITTED BY	RECOMMENDED BY	DATE	
CHIEF HYDRAULIC ENG'R	SR. ASST. CHIEF ENGINEER	3-25-43	2-H56

COMPILED BY R.R.L. CHECKED BY _____ DRAWN BY R.R.

MAP II


LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
ISOHYETAL MAP
OF
MAXIMUM
24 HOUR RAINFALL
STORM OF JANUARY 21-23, 1943
APPROVED BY
ACTING CHIEF ENGINEER
SUBMITTED BY
Finley B. Laverty
CHIEF-HYDRAULIC ENGR.
RECOMMENDED BY
ASS'T. CHIEF ENGINEER
DATE
APR. 2, 1943
2-H59
COMPILED BY R.E.L.
CHECKED BY
DRAWN BY
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
258-b 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.
Lines of Equal Rainfall in Inches Depth
Lines of Equal Rainfall Estimated Inches Depth
NOTE – Maximum 24 hour rainfall amounts are based on records of automatic raingage stations and percentage relations of 24 hour to storm total amounts extended from automatic to adjacent standard raingage stations.
SCALE
5 Miles
PACIFIC OCEAN
ANTELOPE VALLEY
MOHAVE DESERT
SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
LOS ANGELES
HOLLYWOOD
PASADENA
LONG BEACH
Santa Monica
Lancaster
Palmdale
POMONA
MAP III

H-5

PLATE I

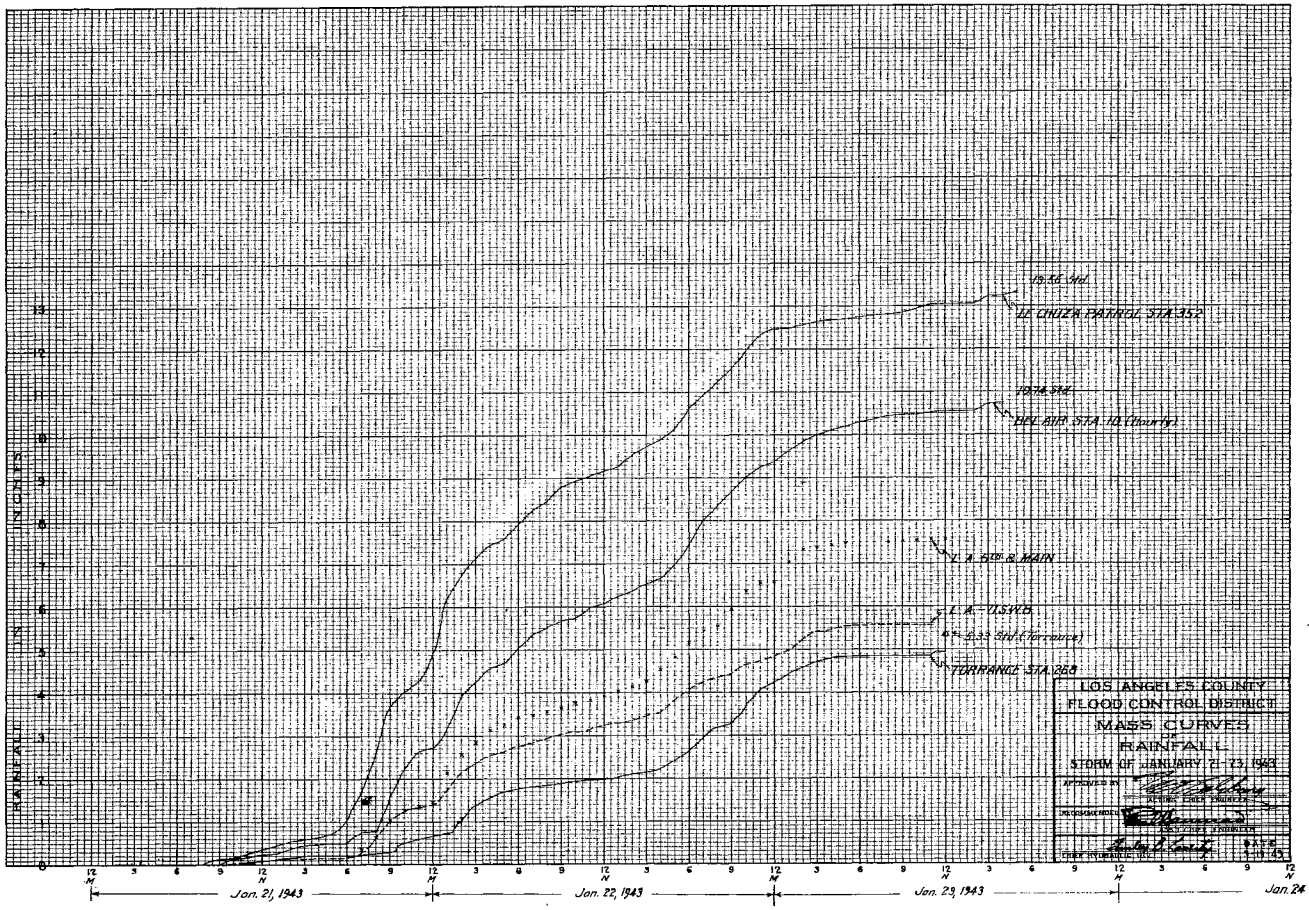
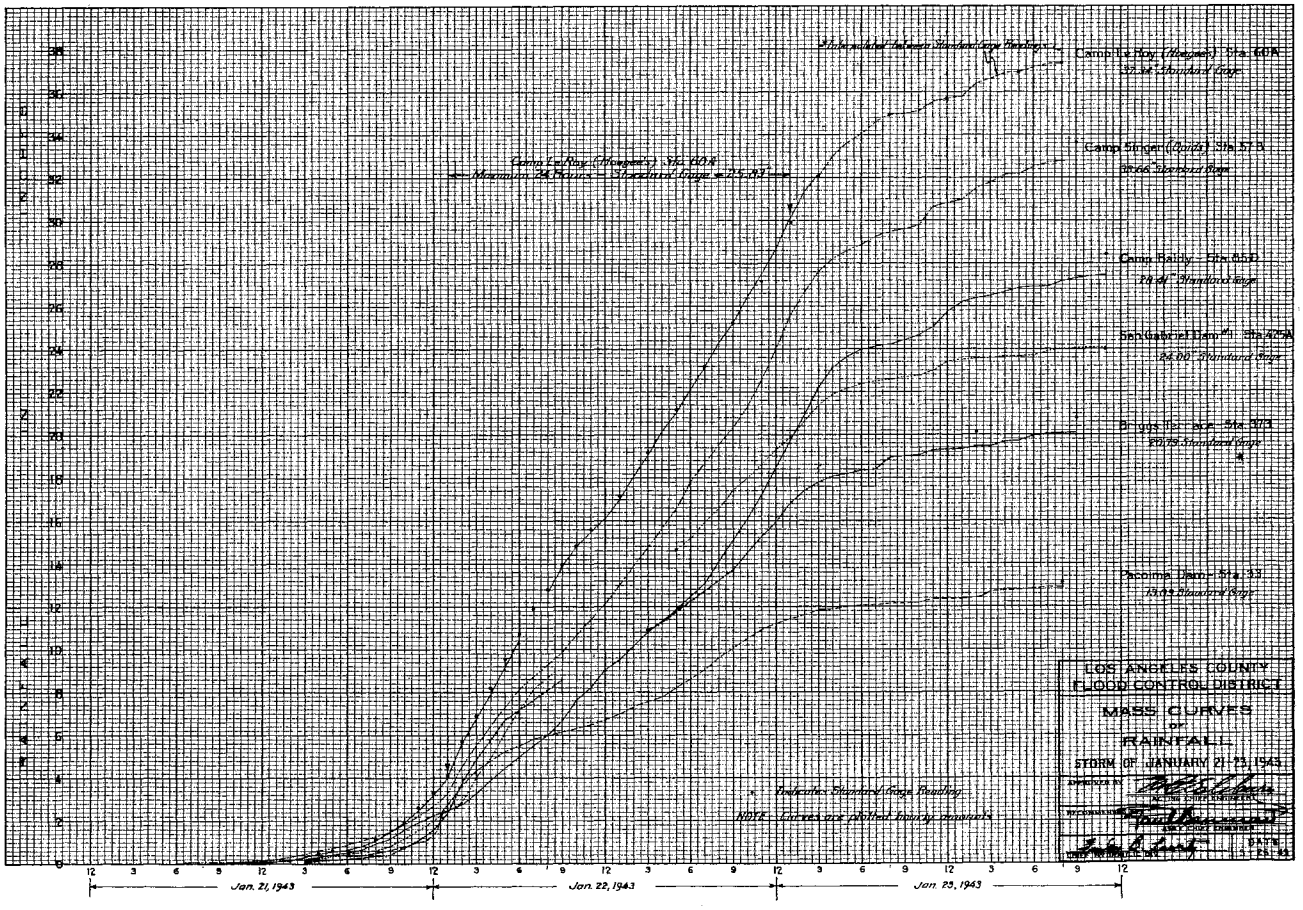


PLATE II



EVAPORATION RECORDS

EVAPORATION

FOREWORD

This report contains monthly and seasonal data for all stations reporting to the District during the 1942-43 season. Past records are available in the District's files.

SUMMARY OF SEASONAL EVAPORATION

The 1942-43 season's evaporation was slightly below normal, averaging about 94% of the seasonal normal.

The following table indicates the maximum and minimum rate of evaporation at District stations for the season.

Maximum Seasonal Amt. Inches	- Big Tujunga Dam	97.590	
Maximum Monthly Amt. Inches	- Big Tujunga Dam	13.125	in September
Maximum Daily Amt. Inches	- Big Tujunga Dam	0.575	July 26
Minimum Seasonal Amt. Inches	- Puente Hills	39.070	
Minimum Monthly Amt. Inches	- Camp Singer	0.120	in February

The minimum evaporation at any location in the District is largely influenced by the rainfall and sometimes by freezing weather.

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

Table I presents monthly evaporation data for the stations operated.

Daily evaporation data at most stations are available in the District's files.

Evaporation tanks are read at 5:00 p.m. at all District stations to be consistent with the rainfall readings.

LOCATION AND NUMBER OF STATIONS

The District receives records from 22 evaporation stations each month of which the District maintains 21. Eleven of these stations are at the larger reservoirs; the remaining 11 are distributed throughout the District.

San Gabriel Dams Number 1 and Number 2 and Encino Reservoir are equipped with both land and lake pans.

LENGTH OF RECORD

The first pan was installed at Santa Anita Dam in March, 1929. By October, 1931, the District was maintaining 24 evaporation stations throughout the District. The number of stations has varied slightly since 1931 due to lack of cooperative observers, insufficient readings and for various other reasons.

The District has 20 stations with records from 11 to 13 years in length. The Big Pines station is influenced by depth of snow and freezing weather; consequently the record is incomplete during the winter months. Several other mountain stations are frequently affected similarly.

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 normally at ground level. A one-quarter inch brass road 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 pans in use at San Gabriel Dams No. 1 and No. 2 are 30 inches square and 18 inches deep with a 6 inch wave baffle to prevent water splashing in. The pan is floated on suitable rigging and is submerged to make the reservoir surface and water level in the pan and the water temperatures practically identical.

The Los Angeles City Bureau of Water Works and Supply reservoir at Encino maintained a United States Weather Bureau type pan and a lake pan from which the District received data in addition to records from the District's pan. The Metropolitan Water District at Morris Dam maintained 6 foot and 4 foot diameter land pans from which the District received records.

The Baldwin Park Experimental Station, which is cooperatively maintained by several agencies and the District is equipped with the following instruments; an eight inch standard rain gage, maximum and minimum thermometers, hygro-thermograph, anemometer, four foot diameter evaporation pan of the United States Weather Bureau type, six foot diameter evaporation tank, two foot diameter evaporation tank, and a District two foot diameter evaporation tank. All tanks, except the one which is furnished by the District, are equipped with hook gages for reading the evaporation. The District's tank here, as all other District tanks, utilized for determination of evaporation a graduated cup which represents, when full of water, 0.025 inch depth of water in the pan. A sufficient number of cups and portions of cups of water are added to bring the pan water level to the level of the point gage.

Four stations are equipped with thermographs. Most stations included maximum and minimum thermometers as standard equipment.

TABLE I

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDRAULIC DIVISION

EVAPORATION RECORDS

IN INCHES Season 1942-43

Sta No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
23	Chatsworth	5.695	4.960	3.390	3.725	4.040	2.540	3.920	6.705	7.780	9.150	9.050	2.715	63.670
32	Newhall	4.715	4.775	3.450	2.790	2.865	2.855	3.560	5.845	6.365	7.060	7.970	7.735	59.985
33	Pacoima Dam	5.490	5.775	4.510	4.730	4.025	2.800	3.665	6.380	6.805	7.260	6.910	7.270	65.620
46C	Big Tujunga	8.480	6.680	5.060	4.440	4.290	3.610	5.980	9.375	10.575	13.050	12.925	13.125	97.590
57	Opid's	2.215	0.570	0.405	0.140#	0.120#	0.865	2.395	5.275	6.205	8.225	7.930	6.015+	40.360
63	Santa Anita	4.575	4.190	3.695	3.670	2.700	1.875	2.685	4.935	5.265	6.380	6.475	6.305	52.750
83	Big Pines Park	4.480#	N.R.	Gage Emptied for winter N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	8.795	10.135	9.970	7.900	Inc.
89	San Dimas Dam	6.200	5.400	2.825	1.795	1.200	0.965	1.445	4.475	6.125	8.400	8.850	8.850	56.530
96	Puddingstone	6.080	4.300	3.725	3.375	3.300	2.950	3.775	5.675	7.250	8.725	7.375	7.425	63.955
223	Big Dalton	4.725	4.480	3.830	3.335	2.805	1.730	3.195	5.370	6.120	8.880	8.305	7.965	60.740
248	West Saddle Peak	3.605	2.765	2.355	1.750	1.855	1.295	2.740	4.010	4.685	5.000	5.095	5.045	40.200
261	Acton (near)	6.780	4.630	3.745	3.455	3.535	3.155	4.940	8.585	9.155	10.510	10.875	9.330	78.695
265	Puente Hills	3.185	2.975	1.375	1.060	1.595	1.370	2.595	4.460	5.050	5.525	5.685	4.195	39.070
268	Torrance	4.070	1.480	1.265	1.110	1.270	2.705	4.130	6.590	7.130	7.510	7.595	6.265	51.120
292	Encino - F.C.	6.110	4.865	3.400	3.525	3.365	3.350	5.655	8.675	9.485	10.290	10.810	9.985	79.515
	" Lake	5.20	4.69	4.32	2.71	2.77	3.25	4.46	7.21	8.56	9.08	9.29	8.64	70.18
	" USWB	5.92	4.64	3.89	3.47	3.73	4.08	5.79	8.16	8.97	10.04	9.87	9.53	78.09
321	Pine Canyon Patrol	7.245	4.620	3.185	2.765	3.035	3.840	5.515	10.450	10.150	12.205	11.995	10.105	85.110
334	San Gabriel Dam #2	6.355	3.565	2.495	2.650	2.075	2.630	4.215	7.495	7.875	10.750	10.625	9.325	70.055
	" " " " Lake	N.R.	N.R.	Inc.	1.605	2.070	2.580	3.945	6.415	7.160	9.090	9.260	Inc.	Inc.
347	Baldwin Park - USWB	5.06	3.73	2.21	2.26	2.80	2.65	4.27	6.74	7.46	8.89	8.55	6.98	61.60
	" " 6 ft.	4.28	2.44	1.72	1.58	1.82	2.12	3.60	5.68	6.40	7.70	7.21	6.10	50.65
	" " FC	4.825	2.900	2.055	1.760	2.000	2.380	3.870	6.560	7.445	8.930	8.375	7.075	58.175
	" " 2 ft.	5.02	2.88	3.90	1.81	1.97	2.17	3.79	6.35	7.52	8.83	8.39	7.20	59.83
390B	Morris Dam - 6 ft.	4.272	2.784	2.040	2.112	1.908	2.040	3.456	6.204	6.336	8.004	7.884	6.828	53.868
	" " 4 ft.	4.392	2.988	2.208	2.424	2.400	2.376	4.048	6.756	7.056	8.868	8.592	7.644	59.752
441	Palmdale	5.310	N.R.	N.R.	N.R.	3.300	4.480	5.455	9.155	12.045	13.650	13.170	Inc.	Inc.
425	San Gabriel Dam #1	6.095	4.595	3.585	3.450	3.340	2.980	4.520	7.740	8.940	10.485	10.560	10.580	76.870
	" " " " Lake	4.740	3.500	2.675	Inc.	N.R.	N.R.	Inc.	6.305	7.180	7.665	8.420	7.495	Inc.
468	Pickens	5.590	3.720	2.805	2.855	2.535	2.120	3.860	7.410	8.810	9.380	9.050	9.415	67.550

Legend

+---------Partly estimated.
Inc.-------Incomplete record.
N.R.-------No record.
#---------Records Incomplete-Partly Frozen.

Note: Station numbers are identical with corresponding rainfall stations as shown on Map I.

RUNOFF RECORDS

RUNOFF

FOREWORD

This is the thirteenth report so published since the creation of the Hydraulic Division (formerly the "Hydrographic Department") in April 1927.° These reports cover 16 years of records on various streams and channels throughout the District.

SUMMARY

Runoff for the 1942-43 season was approximately 267% of the average seasonal runoff. The mountain streams averaged approximately 288% of the mean seasonal flow and the valley streams 225%.

The outstanding storm of the season occurred January 21-23. This storm, while producing rainfall of record breaking proportions throughout most of the District, did not produce runoff proportionately. This relatively light runoff can be attributed to the fact that the watersheds were extremely dry due to a pre-storm rainfall of but 30% of normal to January 21. Peak flows at all gaging stations were considerably below those experienced in the March 2, 1938 flood, and in some instances, valley stations produced greater amounts in the January 1, 1934, storm.

Peak flows during the 1942-43 season occurred during the January 21-23 storm at all the District's gaging stations, with but four exceptions. These exceptions were due to localized storms of February 22 and March 4 and occurred at valley stations only.

EXTENT AND METHOD OF COLLECTING AND PRESENTING DATA

I. Drainage Area and Stations

The Flood Control District operated 65 recording stream-flow stations during the 1942-43 season. These stations were distributed on the main streams and tributaries of the various drainage systems over the County as follows:

Drainage Area	No. of Stations
Los Angeles River	23
San Gabriel River	19
Rio Hondo	15

°Records prior to 1927 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.

(cont'd) Drainage Area	No. of Stations
Ballona Creek	3
Santa Monica Mountains Coastal	2
Santa Clara River	1
San Antonio Creek	1
Antelope Valley	1

The locations of all stations are shown on Map IV , page 37.

II. Types of Channels

The types of channels on which these stations are located are listed below in order of predominance:

(1.) Natural sections - shifting sand and gravel, clay or permanent rock.
(2.) Concrete lined or riprap channels with no definite control point.
(3.) Artificial controls - concrete, placed rock, flumes, and weirs.

III. Types of Recorders Used.

The flow stage is recorded by various types of automatic recorders usually mounted over a concrete or corrugated iron pipe stilling well. The types of recording instruments used at stations are determined by the importance of the particular record, gage height range, time scale required, and the practicability of frequent access by a district hydrographer and include the following:

Type	No. in Use	Time-Duration
Au	17	Continuous
°H.C.F.	32	Continuous
Stevens (Type A)	2	Continuous
Stevens (Type L)	6	Weekly or daily
Rational (Horizontal)	6	Weekly
Ration (Duplex)	1	12 days or daily
Friez (Horizontal)	1	Continuous

IV. Records of Recording Streamflow Stations

These records are, in general, published under each station in four sections, giving the following information:

(1.) Station Descriptions which present the pertinent data regarding location, drainage areas, channels and controls, available measurements, recorders, regulations, diversions, available records, extremes of discharge, accuracy of records and operation.

°The H.C.F. recorder was designed and developed in the District's Hydraulic Division to furnish a medium-cost, accurate, and dependable continuous water stage recorder.

(2.) Lists of measurements for all actual meter measurements together with observed water stage, areas of cross-section, and mean velocities. These lists include 3,105 measurements taken by the District during 1942-43 at 65 recorder stations.

(3.) Mean Daily Runoff Tabulations which show the 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 rate of 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 hydrographs on a major stream system might be compared.

V. United States Geological Survey, Water Resources Branch Records

Included in this report as additional information are the records of the thirteen permanent streamflow recording stations owned and operated in this District by the United States Geological Survey, Water Resources Branch. The Flood Control District cooperates with the U.S.G.S. by taking streamflow measurements at these stations. During the current season 260 such measurements were taken. The U.S.G.S., in turn, publishes the records of 24 District stations in their Water Supply Papers for Pacific Slope Basins in California.

VI. Staff Gage Station Measurements

Records of 753 measurements taken at various staff gage stations are also included herein. The 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. A graph of "Rising Water" showing mean monthly flow fluctuations for a period of 21 years is included on page 184.

VII. Miscellaneous Station Measurements

In various drainage areas throughout the County 346 miscellaneous measurements were taken. These data were collected for specific purposes and are insufficient to determine mean daily flow and are presented grouped by drainage areas.

VIII. Percolation Data

Thirteen sets of percolation measurements were taken on selected reaches of various streams. These are tabulated by streams.

IX. Limitations

For various reasons there are a number of incomplete recorder records at certain stations. Flows for periods of incomplete record are estimated by various methods. In general, estimates were made by comparison with other flow records and rainfall or by interpolation between known or measured values. Reference to such periods is made under "Accuracy" in the Station Descriptions.

In the tabulation of mean daily runoff, incomplete totals were avoided by estimating any missing or unreliable records. It was felt that estimating missing current records was more satisfactory than leaving the records incomplete. Familiarity with a current season's characteristics facilitates making such estimates, while leaving the record incomplete may make it necessary to provide the estimate in later years, when the reconstruction of the available data would be much more difficult.

Only meter measurements, pitot tube measurements, and quantities determined by float velocities taken with depth soundings or over a known cross-section are published; other determinations are omitted.

Due to shifting channel conditions at many locations, the accuracy of the record depends largely on measurements made at crucial points on each storm hydrograph.

RESPONSIBILITY

The collection of the field data was the responsibility of the following hydrographers:

District	Name
1A	G. H. Middleton assisted by E. W. Godfrey and E. K. DeVore
1B & 3	P. A. Haig assisted by J. H. Wallace
2	C. L. Brewster assisted by Floyd Smith
4	E. S. Bonadiman assisted by G. L. Walton
5A & 5B	T. E. Moon assisted by C. C. Andren
6	C. E. Bollinger assisted by G. D. Rickart
8	L. J. Turner assisted by E. J. Koch
7, 9, & 10	J. W. Luce assisted by M. V. Pardieck

The compilation of the records was performed under the immediate supervision of H. A. van der Goot and P. A. Haig, with the assistance of the above mentioned hydrographers.

All field and office work was under the direction of W. J. Wood, Assistant Chief - Hydraulic Division.

COOPERATION

Certain records included in this report were obtained through the cooperation of the San Gabriel River Water Committee, the U.S.G.S. Water Resources Branch, and the United States Engineer Department, Los Angeles Office. Acknowledgment is given with each individual record.

LEGEND

Stations are designated by numbers to which prefixes and suffixes are added to indicate ownership, operating agency, and type of stations. The letters used have the following connotation:

Prefix F - indicates the stations owned and operated by the Los Angeles County Flood Control District.
Prefix E - indicates stations owned and operated by the U. S. Engineer Department.
Prefix U - indicates stations owned and operated by U.S.G.S. Water Resources Branch.
Prefix P - indicates stations operated by the District and the U.S.G.S. Water Resources Branch, formerly operated by the Pasadena Water Department.
Prefix L - indicates station operated by the District and formerly operated in cooperation with the Little Rock-Palmdale Irrigation District.
Prefix S - indicates a station owned and operated by the San Gabriel River Water Committee.
Suffix R - indicates recorder station.
Suffix S - indicates staff gage station.
Suffix B or C - indicates that the station has been moved.
B - represents second location and
C - represents third location, etc.

In working up the chart gage height record, the following legend is used for indicating estimates:

"a" - No gage height record due to recorder or clock failure.
"b" - No gage height record due to obstructed communication or sanded well.
"c" - Gage height record affected by backwater.
"d" - Gage height record doubtful.
"f" - Gage height record partly estimated. (Estimated part represents less than 75% of the flow; otherwise a, b, c, or d is used)
"v" - Gage height-discharge relation failed due to extreme and undetermined shift or unusual drawdown in stilling well.

These letters are placed in the discharge column; letters are not used if the estimated portion of the record represents less than 10% of the mean daily flow or if the total flow is estimated at 0.05 C.F.S. or less.

Note: All data pertaining to runoff is based on Pacific War Time.

Accuracy

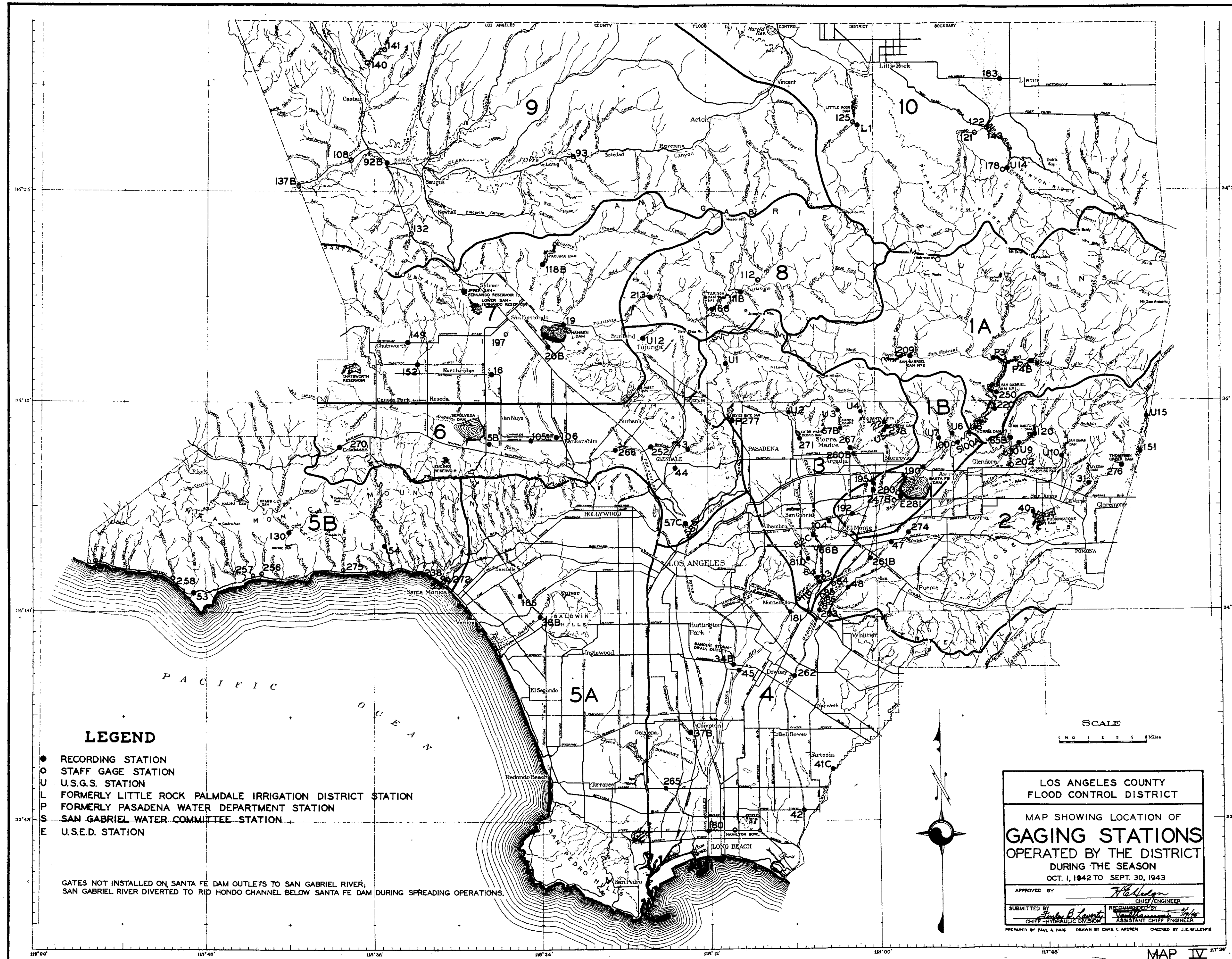
The legend used in plotting the hydrographs has the following significance:

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 stable and other measurements were applicable.

The dash line indicates computed flow based on water stage records and the stage discharge relation determined by float measurements or extrapolation.

The dotted line indicates estimated flow for periods when the water stage record was considered unreliable, or was not available due to inoperative equipment.

The mean daily Runoff Tabulations are qualified under "Accuracy" in the Station Description. "Excellent" indicates that error in the record is probably less than 5%. "Good" indicates a possible error greater than 5%, but probably less than 10%. "Fair" indicatesa possible error greater than 10%, but probably less than 20%. "Poor" indicates a possible error greater than 20%.


LEGEND
● RECORDING STATION
o STAFF GAGE STATION
U U.S.G.S. STATION
L FORMERLY LITTLE ROCK PALMDALE IRRIGATION DISTRICT STATION
P FORMERLY PASADENA WATER DEPARTMENT STATION
S SAN GABRIEL WATER COMMITTEE STATION
E U.S.E.D. STATION
GATES NOT INSTALLED ON SANTA FE DAM OUTLETS TO SAN GABRIEL RIVER;
SAN GABRIEL RIVER DIVERTED TO RIO HONDO CHANNEL BELOW SANTA FE DAM DURING SPREADING OPERATIONS.
PACIFIC OCEAN
SCALE
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
MAP SHOWING LOCATION OF
GAGING STATIONS
OPERATED BY THE DISTRICT
DURING THE SEASON
OCT. 1, 1942 TO SEPT. 30, 1943
APPROVED BY
CHIEF ENGINEER
SUBMITTED BY
CHIEF HYDRAULIC DIVISION
RECOMMENDED BY
ASSISTANT CHIEF ENGINEER
PREPARED BY PAUL A. HAIS DRAWN BY CHAS. C. ANDREN CHECKED BY J. E. GILLESPIE
MAP IV

RECORDER STATION RECORDS

STATION F81D-R

ALHAMBRA WASH near Short Street

LOCATION:

On the left (east) 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:

Channel-concrete 40 feet wide by 12.7 feet deep to bottom of invert with 0.5 foot fillets at vertical side walls.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge at station.

RECORDER:

Installed September 2, 1936, over a 3.25 ft. x 4.0 ft. concrete stilling well.
An H.C.F. recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

At station F81R:
January 14, 1930 to September 30, 1934.
At station F81B-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, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 4,480 second-feet March 4.
Minimum + flow at various times.
1929-1943 (Stations F81R, F81B-R, F81C-R, F81D-R)
Maximum 4,890 second-feet January 1 1934.
Minimum no flow at various times.

ACCURACY:

Good.
Flows occasionally estimated during low flows.

OPERATION:

Located, 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. Dist. Form 3E 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

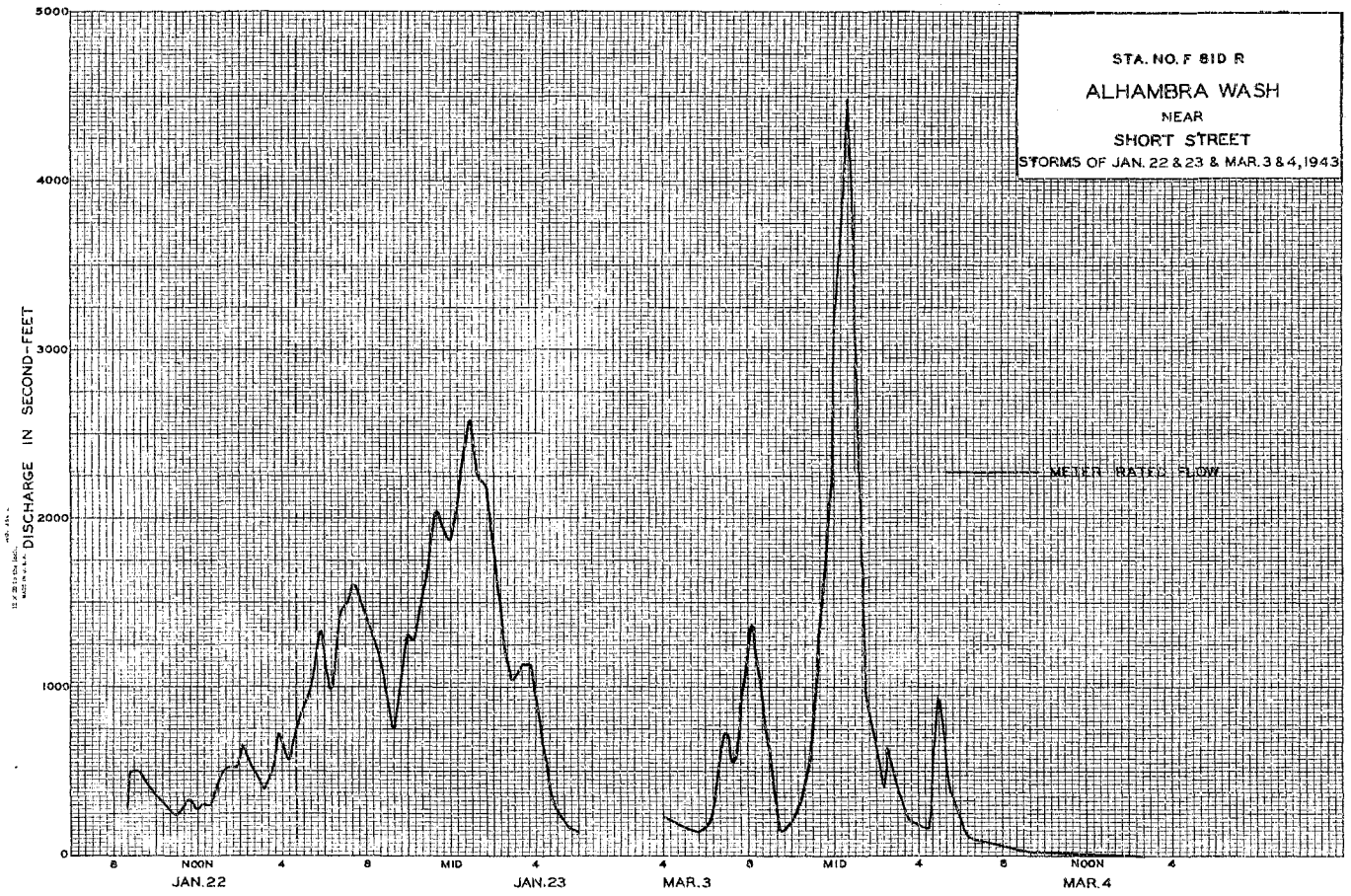
Sta. No. F81D-R

Daily discharge, in second-feet of ALHAMBRA WASH At Short Street, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.2	0.1	1.4	0.3	0.2	0.2	+	+	+	+
2	0.1	0.1	0.1	0.1	0.9	0.4	0.3	0.2	+	+	+	+
3	0.1	0.2	0.2	0.1	0.6	331	0.3	0.3	+	+	+	+
4	0.1	0.6	0.3	0.1	0.4	381	0.2	0.4	+	+	+	+
5	0.1	0.3	0.6	0.1	0.4	2.0	2.0	0.6	+	+	+	+
6	0.4	0.2	0.4	0.1	0.4	0.9	25	0.9	+	+	+	+
7	0.6	0.2	0.4	0.1	0.4	0.6	0.3	0.9	+	+	+	+
8	0.9	0.2	0.4	0.2	37	0.4	4.2	0.3	+	+	+	+
9	0.3	0.1	0.6	0.4	0.6	0.6	0.2	0.1	+	+	+	+
10	0.3	0.1	1.0	0.4	0.4	0.9	3.3	0.1	+	+	+	+
11	0.2	0.1	0.4	0.3	0.4	1.1	0.1	+	+	+	+	+
12	3.1	0.1	0.3	0.3	0.4	0.6	0.1	+	+	+	+	+
13	0.1	0.1	0.2	0.2	0.3	0.4	0.3	+	+	+	+	+
14	0.1	0.1	0.1	0.2	0.3	1.4	0.3	+	+	+	+	+
15	0.1	0.2	0.3	0.2	0.3	1.1	0.4	+	+	+	+	+
16	0.1	0.3	0.2	0.3	0.4	0.4	0.4	+	+	+	+	+
17	0	0.2	0.2	0.3	0.3	19	0.3	+	+	+	+	+
18	0	0.2	0.2	0.2	0.3	6	0.2	+	+	+	+	+
19	0	11	0.3	0.1	0.2	0.3	0.1	+	+	+	+	+
20	+	0.1	0.3	0.1	0.7	0.3	0.2	+	+	+	+	+
21	0.1	+	0.3	141	43	0.3	0.2	+	+	+	+	+
22	0.1	0	0.3	893	251	0.9	0.2	+	+	+	+	+
23	0.1	0	1.5	372	31	0.3	0.3	+	+	+	+	+
24	0.1	0.2	43	0.6	42	0.3	0.4	+	+	+	+	+
25	0.1	0.1	29	0.9	0.4	0.2	0.3	+	+	+	+	+
26	0.2	0.3	+	43	0.3	0.2	0.4	+	+	+	+	+
27	0.9	0.3	0.1	12	0.3	0.2	0.4	+	+	+	+	+
28	51	0.2	0.1	0.6	0.2	0.3	0.3	+	+	+	+	+
29	0.3	0.1	0.1	0.9		0.3	0.3	+	+	+	+	+
30	0.2	0.1	0.1	143		0.2	0.3	+	+	+	+	+
31	0.1		0.1	46		0.2		+		+	+	
	59.9	15.8	813	1666.9	4193	752.1	595	4.0	+	+	+	+
Mean	1.93	0.53	2.62	53.8	15.0	24.3	1.98	0.13	+	+	+	+
Acre-Feet	119.	31.3	161.	3310.	832.	1490.	118.	7.9	+	+	+	+

Remarks: + = 0.05 c.f.s. or less.

Year or Period Mean 8.38
Acre Feet 6070.



STATION F152-R

ALISO WASH at Nordhoff Street

LOCATION:

On the right (west) abutment of the highway bridge at Nordhoff Street about 1 mile northwest of Northridge.

DRAINAGE AREA:

7.15 square miles.

CHANNEL AND CONTROL:

Channel-clay and sand.
Control-channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of highway bridge.

RECORDER:

Installed November 3, 1939 over an 18 inch corrugated iron pipe stilling well.
An H.C.F. recorder was in service from October 1, 1941 to September 30, 1943.

REGULATION AND/OR DIVERSIONS:

None.

RECORDS AVAILABLE:

November 3, 1939 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 1750 second feet, on January 22.
Minimum no flow most of year.
1939-1943
Maximum not determined Feoruary 20, 1941.
Minimum no flow at various times.

ACCURACY:

Poor.
Due to extreme and undetermined shift.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F152-R

DISCHARGE MEASUREMENTS OF ALISO WASH

AT ~~NEAR~~ Nordhoff Street DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METER NO.	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
66	10-1	315P 320P	Luce	2.5	0.27	0.70	1.91	0.19		.6	3	+.01	FC 39
67	12-23	340P 345P	"	1.7	0.28	0.68	1.86	0.19		.6	4	0	"
68	1-22	1033A 1037A	Luce & Pardieck	13.5	7.80	4.73	1.61	36.9		.6	7	-.06	"
69	1-26	730P 732P	"	15.0	3.06	1.44	1.08	4.4		.6	5	0	"
70	2-23	1200N 1210P	Luce	12.5	1.58	1.72	1.50	2.7		.6	6	0	FC 41
71	2-24	716P 723P	Luce & Pardieck	13.0	2.16	1.72	1.58	37.1		.6	7	0	"
72	2-26	640P 645P	Luce	2.0	0.14	1.00	1.44	0.14		.6	8	0	FC 39
73	3-5	545P 550P	"	17.0	4.99	3.32	1.58	16.6		.6	8	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

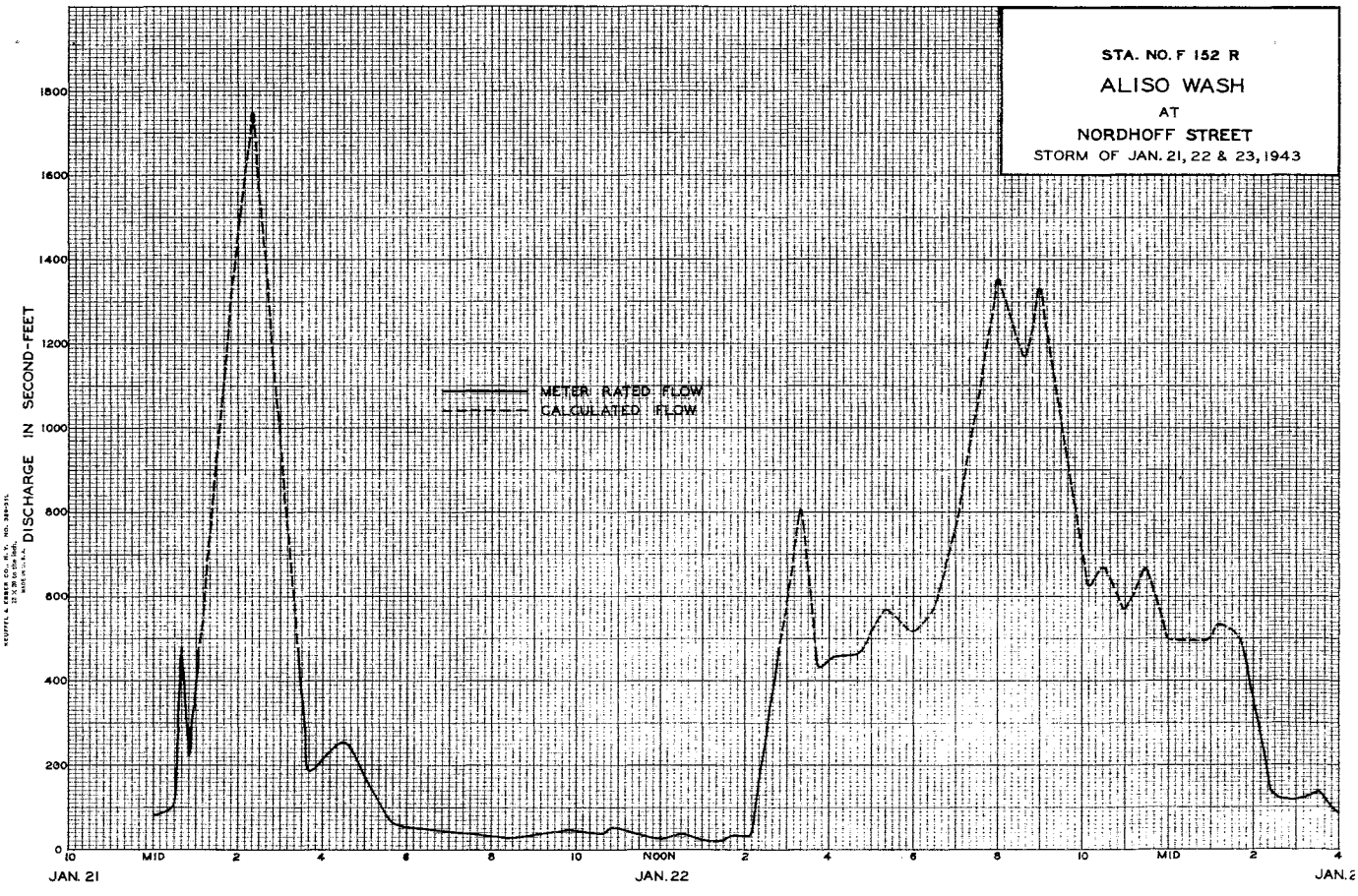
Sta. No F-152-R

Daily discharge, in second-feet of, ALISO CREEK At Nordhoff Street, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0	0	0	0.2	+	+	0	+	0	0	0
2	+	0	0	0	0.1	0	+	0	+	0	0	0
3	+	0	+	0	+	20.7	+	+	+	0	0	0
4	+	+	+	0	+	17.6	0	+	+	0	0	0
5	+	+	+	0	+	2.6	0.2	+	+	0	0	0
6	0.1	0	0	0	+	1.3	0.9	0	+	0	0	0
7	0	0	0	0	+	.7	0	0	+	0	0	0
8	0	0	0	0	+	3.5	+	0	+	0	0	0
9	0	0	0	0	0	1.5	0	0	+	0	0	0
10	0	0	0	0	0	+	0	0	+	0	0	0
11	0	+	0	0	0	0	0	0	+	0	0	0
12	0	+	0.1	0	0	+	0	0	+	0	0	0
13	0	+	0	0	0	0.2	0	0	0	0	0	0
14	0	0	+	0	0	0.3	0	0	0	0	0	0
15	0	0	0.1	0	0	+	0	0	0	0	0	0
16	0	0	0.1	0	0	+	0	+	0	0	0	0
17	0	0	0.1	0	0	0.1	0	+	0	0	0	0
18	0	0	0	0	0	0.2	0	+	0	0	0	0
19	0	0	0	0	0	0	0	+	0	0	0	0
20	0	+	+	0	0	0	0	+	0	0	0	0
21	0	+	0	3.6	+	+	0	+	0	0	0	0
22	+	+	+	449 f	53	+	0	+	0	0	0	0
23	+	0	+	172 f	20	+	0	+	0	0	0	0
24	0	0	0.4 b	62	46	+	0	0	0	0	0	0
25	0	0	0.3 b	20	22	+	0	0	0	0	0	0
26	0	0	0 "	11	3.0	+	0	0	0	0	0	0
27	0	0	0	0.9	0.1	+	0	+	0	0	0	0
28	0.4	0	+	+	+	+	0	+	0	0	0	0
29	+	0	0	+		+	0	+	0	0	0	0
30	0	0	0	2.3		+	0	+	0	0	0	0
31	0		0	1.2		+		+		0	0	
	0.6		1.1	753.5	144.4	434.8	1.1		+	0	0	0
		+						+				
Mean	+	+	0.04	24.3	5.16	14.0	0.04	+	+	0	0	0
Acre Feet	1.2	+	2.2	1490	286.	862.	2.2	+	+	0	0	0

Remarks: + = 0.05 c.f.s. or less.

Year or Period — Mean 3.66 — Acre Feet 2640.



STATION UIR

LOS ANGELES RIVER BASIN Arroyo Seco near Pasadena

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°13'20", long. 118°10'40", near north line of sec. 31, T. 2N., R. 12 W., 1½ miles upstream from Millard Can., and 5½ miles northwest of Pasadena. Altitude of gage, about 1,400 feet.

DRAINAGE AREA:

16.4 square miles.

RECORDS AVAILABLE:

December 1910 to September 1943

AVERAGE DISCHARGE:

29 years (1913-15, 1916-43), 10.7 second-feet

EXTREMES:

Maximum discharge during year, 5,660 second-feet Jan 23 from rating curve extended on basis of slope area and computed value (gage height, 11.86 feet); minimum daily, 0.4 second-foot on Oct. 1

1910-1943

Maximum discharge, 8,620 second-feet Mar. 2, 1938, by slope-area method; practically no flow for several months in most years.

REMARKS:

Records good. No diversions above station.

COOPERATION:

Results of 31 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U1R

DISCHARGE MEASUREMENTS OF ARROYO SECO

AT OR NEAR Pasadena, California DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1330	Oct. 1		U.S.G.S.				4.64	0.38		.6	7	0	
1331	5		"				4.64	0.53		.6	9	0	
1332	8	824A / 834A	Haig	3.5	0.96	0.65	4.64	0.62		.6	5	0	FC.33
1333	15		U.S.G.S.				4.65	0.67		.6	12	0	
1334	22	802A / 810A	Haig	3.5	0.93	0.75	4.64	0.70		.6	4	0	FC.33
1335	26		U.S.G.S.				4.66	0.82		.6	19	0	
1336	Nov. 4	1020A / 1030A	Haig	3.5	1.07	0.88	4.67	0.94		.6	6	0	FC.33
1337	11		U.S.G.S.				4.67	0.76		.6	9	0	
1338	19	337P / 345P	Haig	4.0	1.20	1.08	4.70	1.3		.6	5	0	FC.33
1339	30	312P / 322P	"	3.8	1.18	1.10	4.68	1.3		.6	4	0	"
1340	Dec. 1		U.S.G.S.				4.69	0.79		.6	8	0	
1341	15		"				4.68	1.0		.6	7	0	
1342	17	325P / 330P	Haig	3.8	1.04	0.96	4.69	1.0		.6	5	0	FC.33
1343	24		U.S.G.S.				4.75	1.8		.6	7	0	
1344	30	914A / 922A	Haig	3.5	1.32	1.29	4.72	1.7		.6	6	0	FC.33
1345	30		U.S.G.S.				4.72	1.8		.6	8	0	
	1943												
1346	Jan. 7	1115A / 1120A	Haig	3.2	1.12	0.89	4.70	1.0		.6	5	0	FC.33
1347	13		U.S.G.S.				4.71	1.3		.6	8	0	
1348	22		"	50	75.2	9.26	7.87	696.		.6	10	+.18 -.16	
1349	Jan. 23		U.S.G.S.	50.	97.2	12.0	7.80	1164.		Sur	10	-.15	
1350	26		"	Wading			6.39	82.		.6	20	-.04	
1351	28		"	"			6.24	56.		.6	21	0	
1352	Feb. 1		"	"			6.34	78.		.6	16	0	
1353	8		"	"			5.95	40.5		.6	16	-.01	
1354	Feb. 17		U.S.G.S.	Wading			5.30	17.6		.6	18	0	
1355	22		"	"			6.70	141		.6	18	+ -	
1356	24		"	"			7.06	218.		.6	21	0	
1357	27	925A / 945A	Haig	30.5	32.2	3.42	6.52	110.		.6	14		FC.33
1358	Mar. 3		U.S.G.S.	Wading			6.41	92.		.6	16	+.02	
1359	8		"	"			6.85	177.		.6 2-8	16	-.01	
1360	9		U.S.G.S.	Wading			6.72	143.		.6 2-8	22	0	
1361	13	945A / 1003A	Haig	22.5	26.6	2.83	6.38	75.		.6	13	+.02	FC.33
1362	19		U.S.G.S.	Wading			6.10	53.		.6	26		
1363	25		"	"			5.88	39.3		.6	14	0	
1364	26	845A / 858A	Haig	25.5	22.8	1.97	5.85	44.9		.6	13		FC.35
1365	30		U.S.G.S.	Wading			5.73	33.4		.6	14	0	
1366	Apr 6		"	"			5.91	38.9		.6	28	0	
1367	7	910A / 925A	Haig	28.0	22.2	1.50	5.74	33.3		.6	14	0	FC.35
1368	13		U.S.G.S.				5.54	26.0		.6	25	-.01	
1369	16	840A / 850A	Haig	22.0	16.2	1.38	5.43	22.2		.6	13	0	FC.35
1370	20		U.S.G.S.				5.35	22.5		.6	25	0	
1371	Apr 23	955A / 1008A	Haig	24.0	16.7	1.19	5.34	19.8		.6	14	0	FC.35
1372	28		U.S.G.S.				5.28	17.8		.6	24	0	
1373	May 5		"				5.24	17.7		.6	24	0	
1374	7	900A / 915A	Moon & Haig	22.0	13.3	1.16	5.22	15.4		.6	14		
1375	12		U.S.G.S.				5.15	13.2		.6	12	0	
1376	19		"				5.09	12.1		.6	12	0	
1377	21	446P / 456P	Moon	11.5	8.04	1.47	5.05	11.8		.6	8	0	FC.22
1378	26		U.S.G.S.				5.07	10.2		.6	12	+.01	
1379	June 1		"				5.02	9.9		.6	12	0	
1380	4	152P / 202P	Moon	11.5	7.52	1.48	5.02	11.1		.6	9	0	FC.22
1381	12		U.S.G.S.				5.73	9.4		.6	12	0	
1382	14		"				5.67	9.3		.6	23	0	
1383	14	422P / 433P	Moon	11.5	7.97	1.30	5.62	10.4		.6	11	0	FC.22
1384	17		U.S.G.S.				5.46	7.8		.6	22	-.02	
1385	19		"				5.38	6.6		.6	22	0	
1386	22		"				5.34	5.7		.6	22	0	
1387	25		"				5.27	5.8		.6	22	0	
1388	25	315P / 326P	Moon	11.0	6.34	1.01	5.26	6.4		.6	11	0	FC.22
1389	28		U.S.G.S.				5.25	5.2		.6	22	0	
1390	July 1		"				5.34	4.9		.6	22	0	
1391	2	354P / 405P	Moon	11.3	6.32	0.98	5.32	6.2		.6	11	0	FC.22
1392	5		U.S.G.S.				5.28	5.1		.6	22	0	
1393	9		"				4.78	4.4		.6	11	0	
1394	July 9	400P / 412P	Moon	11.6	6.29	0.79	4.78	5.0		.6	10	0	FC.22
1395	14		U.S.G.S.				4.79	4.7		.6	23	0	
1396	16	430P / 440P	Haig	4.2	2.13	2.21	4.79	4.7		.6	6	0	FC.33
1397	22		U.S.G.S.				4.77	3.9		.6	23	0	
1398	22	400P / 412P	Moon	11.4	6.01	0.72	4.77	4.3		.6	11	0	
1399	28		U.S.G.S.				4.77	2.9		.6	11	0	
1400	30	320P / 332P	Moon	11.5	5.93	0.71	4.77	4.2		.6	12	0	FC.22
1401	Aug. 6	310P / 322P	"	11.3	5.89	0.65	4.78	3.8		.6	11	0	"
1402	13		U.S.G.S.				4.79	3.2		.6	23	0	
1403	13	344P / 356P	Moon	12.0	4.66	0.69	4.77	3.2		.6	12	0	FC.22
1404	20	315P / 325P	"	11.7	5.21	0.61	4.77	3.2		.6	9	0	"
1405	25	340P / 354P	"	11.5	5.44	0.64	4.78	3.5		.6	12	0	"
1406	26		U.S.G.S.				4.76	2.1		.6	23	0	
1407	Sept 1	426P / 431P	Moon	4.8	3.06	0.82	4.77	2.5		.6	5	0	FC.22
1408	10		U.S.G.S.				4.76	2.1		.6	12	0	
1409	14	1250P / 100 P	Brewster	5.0	3.17	0.82	4.74	2.6		.6	5	0	FC.12
1410	24	1055A / 1103A	Moon	4.8	2.84	0.70	4.74	2.0		.6	6	0	FC.22
1411	24		U.S.G.S.				4.74	1.9		.6	11	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U1R

Daily discharge, in second-feet of ARROYO SECO Near Pasadena, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	1.0	1.0	1.5	81	34	30	16	10	4.7	4.2	2.6
2	0.5	0.9	1.0	1.4	65	79	28	16	10	4.7	4.2	2.6
3	0.5	0.9	0.9	1.3	56	126	27	15	10	4.9	4.2	2.6
4	0.5	0.9	0.9	1.2	50	476	26	16	10	4.9	4.2	2.4
5	0.5	0.8	1.0	1.1	46	434	30	16	9.5	4.9	4.0	2.4
6	0.5	0.8	1.0	1.1	41	294	40	15	9	4.5	3.8	2.4
7	0.6	0.8	1.0	1.0	40	236	33	15	9	4.5	3.8	2.4
8	0.6	0.8	1.0	1.0	40	191	37	14	8.5	4.4	3.6	2.2
9	0.6	0.8	1.0	1.1	33	150	33	14	8.5	4.4	3.6	2.2
10	0.6	0.8	1.0	1.1	30	126	30	13	8.5	4.4	3.6	2.1
11	0.6	0.8	1.0	1.1	28	104	29	13	9.5	4.4	3.4	2.1
12	0.8	0.8	1.0	1.2	24	89	27	13	10	4.4	3.4	2.1
13	0.7	0.8	1.1	1.2	22	74	26	13	9.5	4.6	3.3	2.2
14	0.7	0.8	1.1	1.2	20	68	25	13	9	4.6	3.3	2.4
15	0.6	0.9	1.0	1.2	19	67	23	13	8	4.6	3.3	2.2
16	0.6	0.9	1.0	1.3	18	63	22	13	7.5	4.6	3.3	2.2
17	0.6	1.0	1.0	1.3	17	61	21	13	7.5	4.4	3.3	2.2
18	0.6	1.2	1.1	1.4	16	60	20	12	7	4.4	3.3	2.1
19	0.7	1.6	1.1	1.4	14	54	20	12	6.5	4.4	3.3	2.0
20	0.7	1.2	1.1	1.4	14	51	20	11	6.5	4.4	3.3	2.0
21	0.7	1.2	1.2	2.1	37	49	20	11	6	4.4	3.3	1.8
22	0.7	1.2	1.2	1120	207	49	20	11	6	4.2	3.4	1.7
23	0.7	1.2	1.3	1760	206	45	19	11	6	4.2	3.4	1.6
24	0.8	1.1	2.0	314	202	42	19	11	6	4.0	3.4	1.8
25	0.8	1.0	5	134	169	40	19	11	5.5	4.0	3.4	2.0
26	0.8	1.0	2.2	91	128	37	19	11	5	4.0	3.4	2.1
27	0.8	1.0	2.0	79	109	36	18	10	5.5	4.0	3.3	2.4
28	1.4	1.0	1.6	56	95	35	18	10	5.5	4.2	3.1	2.4
29	1.1	1.0	1.7	49		34	18	10	5	4.2	2.9	2.2
30	1.0	1.0	1.7	62		33	16	10	4.9	4.2	2.9	2.1
31	1.0		1.6	129		32		9.5		4.2	2.7	
	21.7	29.2	42.0	3820.6	1826	3319	733	391.5	229.4	136.7	107.6	65.7
MEAN	0.70	0.97	1.35	123	65.2	107	24.4	12.6	7.65	4.41	3.47	2.19
ACRE-FEET	43	58	83	7580	3620	6580	1450	777	455	271	213	130

Remarks:

YEAR OR PERIOD — MEAN 29.4 — ACRE-FEET 21,260

STATION P277R

ARROYO SECO below Devils Gate Dam

LOCATION:

On the left (east) side of the channel about 0.5 mile below Devils Gate Dam and about 0.5 mile above Washington Street, Pasadena.

DRAINAGE AREA:

32.5 square miles.

CHANNEL AND CONTROL:

Natural channel of rock and sand from Devils Gate Dam to the station at intake structure to improved channel where an ogee section 80.2 feet wide and 18 feet high with a rectangular, broad-crested weir 14.2 feet wide and 2.0 feet high forms the control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from Washington Street bridge about 0.5 mile below station.

RECORDER:

Installed November 30, 1942, over a 32 inch diameter stilling well. An H.C.F. continuous recorder was in service from November 30, 1942, to September 30, 1943.

REGULATIONS:

Flow regulated by Devil's Gate Dam and Pasadena Water Department's gated diversion into channel above station.

DIVERSIONS:

Pasadena Water Department diverts flow approximately two miles above Devils Gate Dam for domestic use. Flow may be diverted to channel between Devils Gate Dam and station from Pasadena Water Department tunnel.

RECORDS AVAILABLE:

November 30, 1942, to September 30, 1943. For records prior to November 30, 1942, see Pasadena Water Department.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 5640 second-feet, January 23.
Minimum no flow several times.

ACCURACY:

Good.
Flows occasionally based on Devils Gate Dam outflows.

OPERATION:

Located, constructed, and operated by the Pasadena Water Department January 1940. The operation taken over by the Los Angeles County Flood Control District November 30, 1942, in cooperation with the Pasadena Water Department.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P277-R

DISCHARGE MEASUREMENTS OF ARROYO SECO

AT ~~XX~~ below Devil's Gate Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METER NO.	MEAN SEC. NO.	A. HT. CHANGE TOTAL	METER NO.
18	1-22	1135P	Haig & Wallace	48.0	157.	20.6	4.74	3230.	Floats	4			
19	1-24	1137A	Haig	36.0	21.2	12.2	1.50	259.	"	5			
20	1-26	550P 600P	"	20.2	6.77	11.6	0.83	78.6	.6	6	0		FC 33
21	1-29	848A 855A	"	15.0	3.64	8.80	0.45	32.0	.6	7	0		"
22	1-30	935A 945A	"	22.0	6.73	9.97	0.76	67.1	.6	2	0		"
23	1-31	540P 605P	"	35.0	21.2	14.2	1.40	300.	Surf.	9	0		"
24	2-1	610P 617P	"	23.0	8.44	10.4	0.95	87.8	.6	10	0		"
25	2-3	200P 210P	"	19.5	4.78	9.54	0.58	45.6	.6	9	0		"
26	2-4	520P 530P	"	27.5	8.35	10.2	0.94	84.9	.6	11	0		"
27	2-11	855A 905A	"	10.0	1.50	6.93	-	11.1	.6	9	0		"
28	2-18	955A 958A	"	4.0	0.24	2.71	-	0.65	.6	4	0		"
29	2-22	925A 935A	"	27.0	8.52	10.5	0.92	89.6	.6	8	+.02		"
30	2-22	435P 448P	"	50.0	23.6	11.2	1.45	265.	.6	6	0		"
31	2-22	940P 1000P	"	38.0	32.9	17.0	2.06	558.	.6 Surf.	9	-.01		"
32	2-24	420P 430P	Haig & Snyder	36.0	23.4	11.6	-	272.	Floats	5	0		-
33	2-25	415P 430P	Haig	50.0	23.1	12.9	-	297.	.6	8	0		FC 33
34	2-26	545P 600P	"	50.0	16.7	10.6	1.10	177.	.6	8	0		"
35	2-27	1016A 1030A	"	23.0	7.37	11.1	0.92	82.0	.6	10	+.01		"
36	3-2	500P 508P	"	21.0	5.88	10.7	0.72	62.8	.6	7	0		"
37	3-3	105P 115P	"	50.0	20.5	11.1	1.27	227.	.6	8	0		"
38	3-4	1145A 1210P	Haig & Ackerman	38.8	41.8	20.9	2.29	872.	.6	8	0		"
39	3-6	1100A 1120A	Haig	35.0	24.1	14.1	1.71	340.	.6 Floats	7	0		"
40	3-7	812P 824P	S. Blakely & T. Blakely	50.0	20.4	11.1	-	227.	.6	7	0		FC 44 Pitot Tube
41	3-8	405P 430P	Haig	36.2	21.7	15.5	1.77	337.	.6	11	0		FC 33
42	3-9	1010A 1025A	"	50.0	19.5	11.0	1.30	215.	.6	10	0		FC 33
43	3-10	840P 920P	Haig	37.2	24.5	15.3	1.89	374.			.6	8	-.02 Pitot Tube
44	3-11	420P 430P	"	50.0	17.7	9.77	1.21	173.			.6	8	0 FC 33
45	3-18	820A 832A	"	23.5	6.93	10.7	0.73	74.2			.6	9	0 FC 35
46	3-23	820A 826A	"	13.5	5.10	1.55	0.25	7.9			.6	7	-.01 "
47	3-26	950A 1000A	"	10.0	1.38	5.80	0.20	8.0			.6	6	0 "
48	3-31	840A 848A	"	8.5	1.53	4.97	0.24	7.6	Surf.		.6	7	0 "
49	4-7	1005A 1010A	"	5.0	0.39	2.18	0.13	0.85	Surf.		4	0	"
50	4-16	955A 1000A	"	5.0	0.50	2.20	0.15	1.1	"		4	0	"
51	4-22	1011A 1016A	Haig & Moon	5.0	0.54	1.65	0.12	0.89	"		5	0	"
52	4-28	820A 825A	Haig	5.0	0.51	2.16	0.12	1.1	"		5	0	"
53	5-7	940A 945A	Haig & Moon	6.0	0.48	3.12	0.13	1.5	"		6	0	"
54	5-14	352P 358P	Moon & Lindsay	7.0	1.72	0.87	0.11	1.5			.6	6	0 FC 22
55	5-21	402P 408P	Moon	7.5	2.12	0.61	0.10	1.3			.6	6	0 "
56	5-27	910A 920A	Haig	5.0	0.58	1.95	0.10	1.1			.6	5	0 FC 33
57	6-4	1230P 1235P	Moon	8.5	2.08	0.58	0.11	1.2			.6	5	0 FC 22
58	6-14	222P 227P	"	8.0	2.31	0.52	0.10	1.2			.6	5	0 "
59	6-18	200P 206P	"	7.0	1.64	0.67	0.10	1.1			.6	6	0 "
60	6-25	140P 146P	"	6.0	1.43	0.77	0.12	1.1			.6	6	0 "
61	7-2	215P 221P	"	6.0	1.40	0.79	0.12	1.1			.6	6	0 "
62	7-9	212P 217P	"	8.0	3.45	0.35	0.12	1.2			.6	5	0 "
63	7-16	450P 458P	Haig	6.0	0.64	1.56	0.12	1.0			.6	6	0 FC 33
64	7-22	257P 300P	Moon	2.5	0.91	1.03	0.11	0.94			.6	3	0 FC 22
65	7-30	125P 130P	Moon	3.3	1.18	0.59	0.10	0.70			.6	4	0 FC 22
66	8-6	205P 210P	"	3.2	1.19	0.64	0.05	0.76			.6	5	0 "
67	8-13	305P 309P	"	3.0	1.04	0.60	0.07	0.62			.6	4	0 "
68	8-20	232P 237P	"	3.0	0.92	0.57	0.06	0.52			.6	5	0 "
69	8-25	303P 307P	"	3.0	0.92	0.58	0.06	0.53			.6	4	0 "
70	9-8	1147A 1155A	Brewster	2.0	0.51	0.92	0.06	0.47			.6	4	0 FC 12
71	9-14	127P 135P	"	2.0	0.56	0.75	0.04	0.42			.6	4	0 "
72	9-24	811A 815A	Moon	3.0	0.48	0.58	0.02	0.28			.6	4	0 FC 22

P.C. Dist. Form 32 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

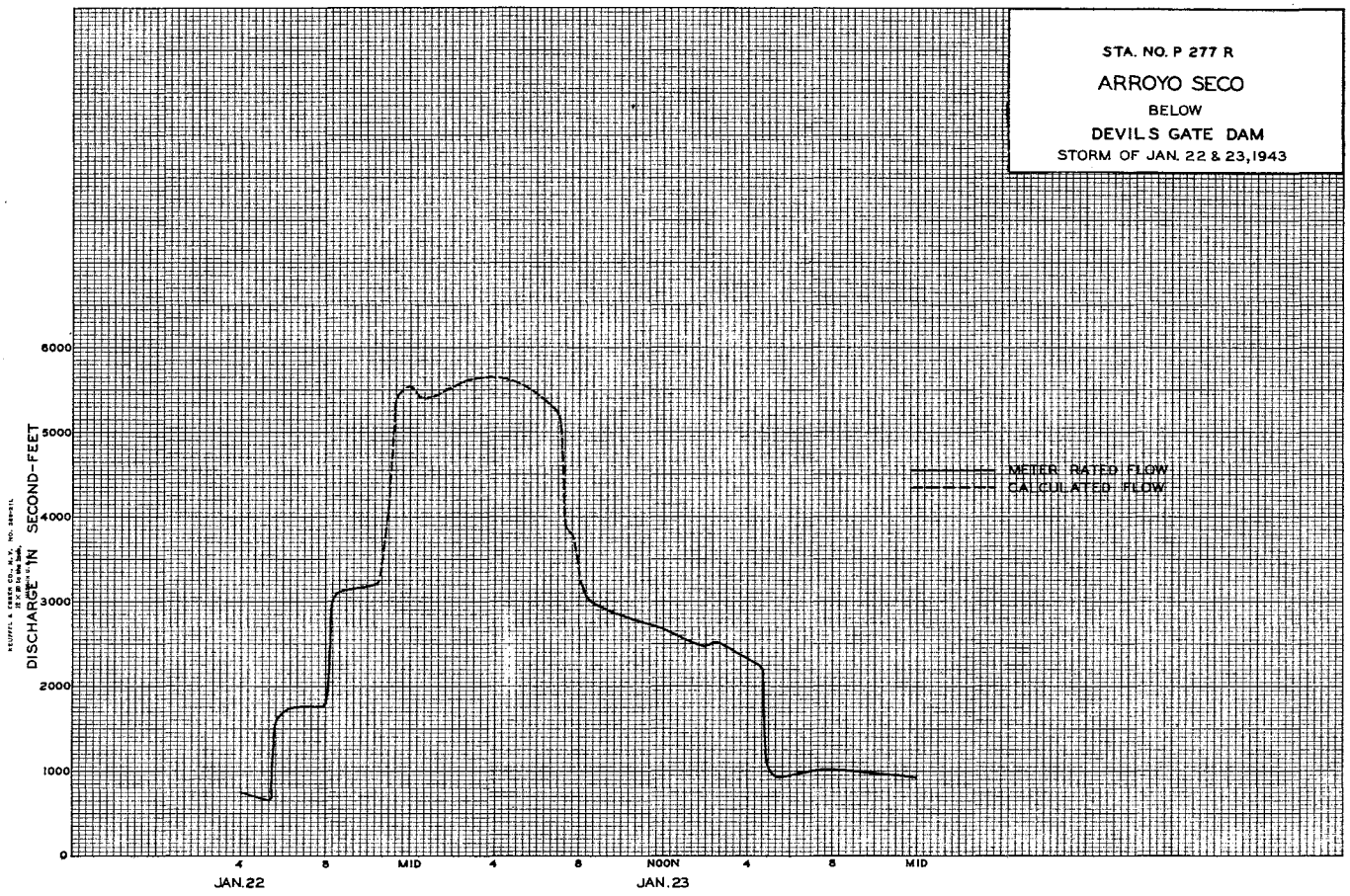
Sta. No. P277R

Daily discharge, in second-feet of ARROYO SECO Below Devil's Gate Dam, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	178	76	7	1.3	1.3	1.0	0.7	0.4
2	0	0	0	b 0.5	71	64	7	1.3	1.3	1.0	0.7	0.5
3	0	0	0	1.5	51	201	7.5	1.7	1.3	1.0	0.8	0.5
4	0	0	0	2.2	84	962	7.5	1.7	1.3	1.0	0.8	0.5
5	0	0	0	0	74	657	4.0	1.7	1.3	1.0	0.8	0.5
6	0	0	0	0	29	328	1.0	1.7	1.3	1.3	0.6	0.5
7	0	0	0	0	25	270	0.8	1.7	1.3	1.3	0.5	0.5
8	0	0	0	0	13	284	0.8	1.7	1.3	1.3	0.6	0.5
9	0	0	0	0	17	224	0.8	1.3	1.3	1.3	0.6	0.4
10	0	0	0	0	b 13	297	0.8	1.3	1.7	1.3	0.6	0.4
11	0	0	0	0	b 11	256	0.8	1.3	1.7	1.3	0.4	0.4
12	0	0	0	0	b 8	165	0.8	1.3	1.7	1.3	0.5	0.4
13	0	0	0	0	b 3.6	162	0.8	1.3	1.7	1.0	0.6	0.4
14	0	0	0	0	b 0.7	135	1.0	1.3	1.3	1.0	0.6	0.4
15	0	0	0	0	b 0.7	118	1.0	1.3	1.3	1.0	0.5	0.5
16	0	0	0	0	b 0.7	100	1.0	1.3	1.0	1.0	0.4	0.5
17	0	0	0	0	b 0.7	66	1.0	1.3	1.0	0.8	0.4	0.4
18	0	0	0	0	b 0.7	67	1.0	1.3	1.0	0.8	0.5	0.4
19	0	0	0	0	b 0.7	62	1.0	1.0	1.0	1.0	0.5	0.4
20	0	0	0	0	b 0.7	64	1.0	1.3	1.0	1.0	0.5	0.4
21	0	0	0	*	1.5	37	1.0	1.3	1.0	1.0	0.5	0.4
22	0	0	0	910	171	37	0.8	1.3	1.0	1.0	0.4	0.3
23	0	0	0	3190	336	15	0.8	1.3	1.0	1.0	0.4	0.3
24	0	0	0	409	319	9	0.8	1.0	1.0	1.0	0.4	2.0
25	0	0	0	93	274	8	0.8	1.0	1.0	1.0	0.5	4.3
26	0	0	0	71	193	8	1.0	1.0	1.0	0.8	0.4	4.3
27	0	0	0	68	82	7.5	0.8	1.0	1.0	0.7	0.4	4.0
28	0	0	0	27	82	6.5	1.0	1.0	1.0	0.7	0.5	3.3
29	0	0	0	39		7.5	1.3	1.0	1.0	0.7	0.4	3.6
30	0	0	0	71		7.5	1.3	1.0	1.0	0.7	0.4	3.6
31	0		0	201		7		1.3		0.7	0.4	
	0	0	0	5083.2	2041.0	4708.0	56.2	40.3	36.1	31.0	16.5	35.0
Mean	0	0	0	164.	72.9	152.	1.87	1.30	1.20	1.00	0.53	1.17
Acre-Feet	0	0	0	10100.	4050.	9340.	111.	80.	72.	61.	33.	69.

Remarks:

Year or Period Mean 33.0
Acre-Feet 23920



STATION F38B-R

BALLONA CREEK at Sawtelle Boulevard

LOCATION:

On the downstream side of Sawtelle Boulevard bridge near Culver City. Former station F38R was at Centinela Boulevard, 1 mile downstream.

DRAINAGE AREA:

111 square miles.

CHANNEL AND CONTROL:

Channel-heavy adobe overlaid with coarse gravel, and sand, with rock paved levees on a 3 to 1 slope. Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 300 feet above station.

RECORDER:

Installed at station F38R February 27, 1928.
Recorder removed April 27, 1936.
Installed at station F38B-R May 14, 1936, over an 18 inch diameter, corrugated iron pipe stilling well.
An An continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Stone Canyon Reservoir, Upper and Lower Franklin Canyon Reservoirs, Hollywood Reservoir and Silver Lake Reservoir.

DIVERSIONS:

Some small diversions for irrigation.

RECORDS AVAILABLE:

At station F38R
February 27, 1928 to April 27, 1936
At station F38B-R
May 14, 1936 to September 30, 1943

EXTREMES OF DISCHARGE:

1942-1943
Maximum 13,210 second-feet, January 22.
Minimum 1.4 second feet, August 27.
1928-1943 (Stations F38R and F38B-R)
Maximum 19000 second-feet, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Flows occasionally estimated due to clock failure.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F38B-R

DISCHARGE MEASUREMENTS OF BALLONA CREEK

AT Sawtelle Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
656	10-1	935A / 940A	Moon	Three Channels			1.14	5.1		.6	13	0	FC 22
657	10-8	1005A / 1022A	"	"	"		1.20	7.8		.6	17	+.01	"
658	10-12	830A / 840A	"	23.0	23.0	0.75	1.40	17.2		.6	8	0	"
659	10-15	947A / 1002A	"	Three Channels			1.11	3.9		.6	13	0	"
660	10-22	1225P / 1240P	"	"	"		1.15	4.2		.6	14	0	"
661	10-28	417P / 435P	Moon-Andren	80.0	254.	4.57	5.46	1160.		.6	9	-.52	"
662	10-29	1035A / 1051A	Moon	24.0	13.0	0.84	1.07	10.9		.6	8	0	"
663	11-5	921A / 933A	"	Two Channels			0.92	3.6		.6	8	0	"
664	11-12	1138A / 1148A	"	"	"		0.94	4.3		.6	9	0	"
665	11-19	1015A / 1038A	"	23.5	14.0	0.85	1.09	11.9		.6	9	0	"
666	11-25	1040A / 1050A	"	Two Channels			0.81	1.6		.6	8	0	"
667	12-3	1026A / 1037A	"	"	"		0.95	4.8		.6	9	0	"
668	12-11	1025A / 1035A	"	"	"		0.99	5.1		.6	10	0	"
669	12-17	937A / 950A	"	"	"		1.07	3.1		.6	11	-.04	"
670	12-23	1142A / 1152A	"	"	"		0.92	2.3		.6	9	-.01	"
671	12-25	1218P / 1237P	"	"	"		1.22	16.4		.6	13	-.01	"
672	12-30	1000A / 1015A	"	Three Channels			1.06	4.3		.6	14	-.01	"
673	1-8	1015A / 1030A	"	"	"		1.07	3.4		.6	13	0	"
674	1-15	1042A / 1057A	"	"	"		1.03	2.8		.6	12	0	"
675	1-22	655A / 728A	Moon-Andren	100.0	513.	7.00	7.98	3590.		.6	8	+.07 -.40	"
676	1-23	900A / 912A	" "	58.0	168.	3.74	3.82	628.		.6	7	-.07	"
677	1-24	1115A / 1135A	Moon	Two Channels			1.10	29.6		.6	16	0	"
678	1-27	1212P / 1228P	"	"	"		1.11	27.2		.6	15	-.01	"
679	1-29	1020A / 1037A	"	"	"		0.86	9.4		.6	15	0	"
680	2-1	859A / 917A	Moon	Two Channels			1.05	16.6		.6	16	0	FC 22
681	2-5	948A / 1008A	Moon-Fuller	"	"		0.95	9.4		.6	15	0	"
682	2-8	1038A / 1053A	Moon	"	"		1.24	37.0		.6	13	-.03	"
683	2-11	1120A / 1132A	"	"	"		0.90	6.9		.6	11	0	"
684	2-19	916A / 928A	"	"	"		0.87	5.3		.6	12	0	"
685	2-22	240P / 300P	Moon-Andren	46.0	86.1	1.92	2.33	165.		.6	7	-.24	"
686	2-23	225P / 242P	" "	52.0	168.	4.01	4.00	674.		.6	8	+.40	"
687	2-24	846A / 856A	" "	49.0	121.	2.74	2.83	331.		.6	9	-.15	"
688	2-26	1033A / 1048A	Moon	Two Channels			1.03	14.8		.6	13	0	FC 22
689	3-3	136P / 156P	Moon-Andren	98.0	409.	5.99	6.91	2450.		.6	10	-.38	"
690	3-3	945P / 1007P	" "	97.0	486.	6.69	6.97	3250.		.6	9	+1.24	"
691	3-4	110A / 129A	" "	100.0	467.	6.04	7.20	2820.		.6	9	-.20	"
692	3-4	1039A / 1048A	" "	38.0	91.4	1.97	2.21	180.		.6	9	-.04	"
693	3-5	309P / 319P	" "	45.0	43.4	1.70	1.48	69.7		.6	12	+.01	"
694	3-9	1046A / 1102A	Moon	30.0	37.0	0.72	1.08	26.8		.6	11	0	"
695	3-12	140P / 155P	Andren	14.5	8.68	2.30	0.93	20.0		.6	8	0	FC 2
696	3-18	834A / 849A	Moon	Three Channels			0.94	22.0		.6	14	-.02	FC 22
697	3-19	955A / 1009A	"	Two Channels			0.74	8.4		.6	12	-.02	"
698	3-26	910A / 924A	"	"	"		0.74	8.6		.6	12	+.03	"
699	4-6	807A / 817A	Moon-Andren	37.0	95.9	2.21	2.45	212.		.6	10	-.14	"
700	4-12	1020A / 1032A	Moon	Two Channels			0.68	4.4		.6	11	-.01	"
701	4-16	936A / 948A	"	"	"		0.63	3.6		.6	11	0	"
702	4-19	1002A / 1020A	"	"	"		0.78	11.3		.6	14	0	"
703	4-23	940A / 953A	Moon-Bollinger	"	"		0.72	7.5		.6	13	+.01	"
704	4-30	917A / 929A	Moon	Two Channels			0.71	4.8		.6	11	0	FC 22
705	5-7	947A / 1003A	Bollinger	"	"		0.74	7.5		.6	14	+.06	FC 6
706	5-15	1033A / 1045A	"	"	"		0.63	3.8		.6	12	0	"
707	5-19	1035A / 1047A	Moon	"	"		0.65	3.9		.6	11	0	FC 22
708	5-28	955A / 1006A	Bollinger	"	"		0.78	8.0		.6	13	0	FC 6
709	6-3	1013A / 1022A	"	"	"		0.66	3.9		.6	11	0	"
710	6-10	938A / 951A	"	"	"		0.63	2.7		.6	11	0	"
711	6-17	930A / 945A	"	"	"		0.76	5.6		.5	13	+.01	"
712	6-25	930A / 945A	"	"	"		0.77	5.0		.6	16	0	"
713	7-2	915A / 926A	"	"	"		0.76	4.2		.6	11	0	"
714	7-9	920A / 930A	"	14.0	5.89	0.73	0.75	4.3		.6	10	0	"
715	7-16	923A / 937A	"	14.0	7.12	0.79	0.82	5.6		.6	9	0	"
716	7-22	1000A / 1010A	Bonadiman	21.0	19.1	0.21	0.82	4.1		.6	5	0	FC 19
717	7-29	952A / 1008A	"	7.0	7.20	0.42	0.82	3.0		.6	4	0	"
718	8-6	953A / 1000A	Bollinger	14.0	7.19	0.78	0.90	5.6		.6	9	0	FC 6
719	8-13	902A / 910A	"	12.5	6.16	0.73	0.90	4.5		.6	8	0	"
720	8-20	928A / 935A	"	11.5	5.87	0.70	0.84	4.1		.6	5	-.02	"
721	8-27	913A / 922A	"	9.8	4.21	0.43	0.75	1.8		.6	8	0	"
722	9-3	925A / 933A	"	9.1	7.18	0.79	0.95	5.7		.6	9	0	"
723	9-10	917A / 926A	"	9.3	5.52	0.51	0.76	2.8		.6	8	-.02	"
724	9-17	955A / 1005A	"	9.0	5.77	0.71	0.89	4.1		.6	9	0	"
725	9-24	945A / 955A	"	9.6	6.04	0.79	0.92	4.8		.6	9	0	FC 5

P.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

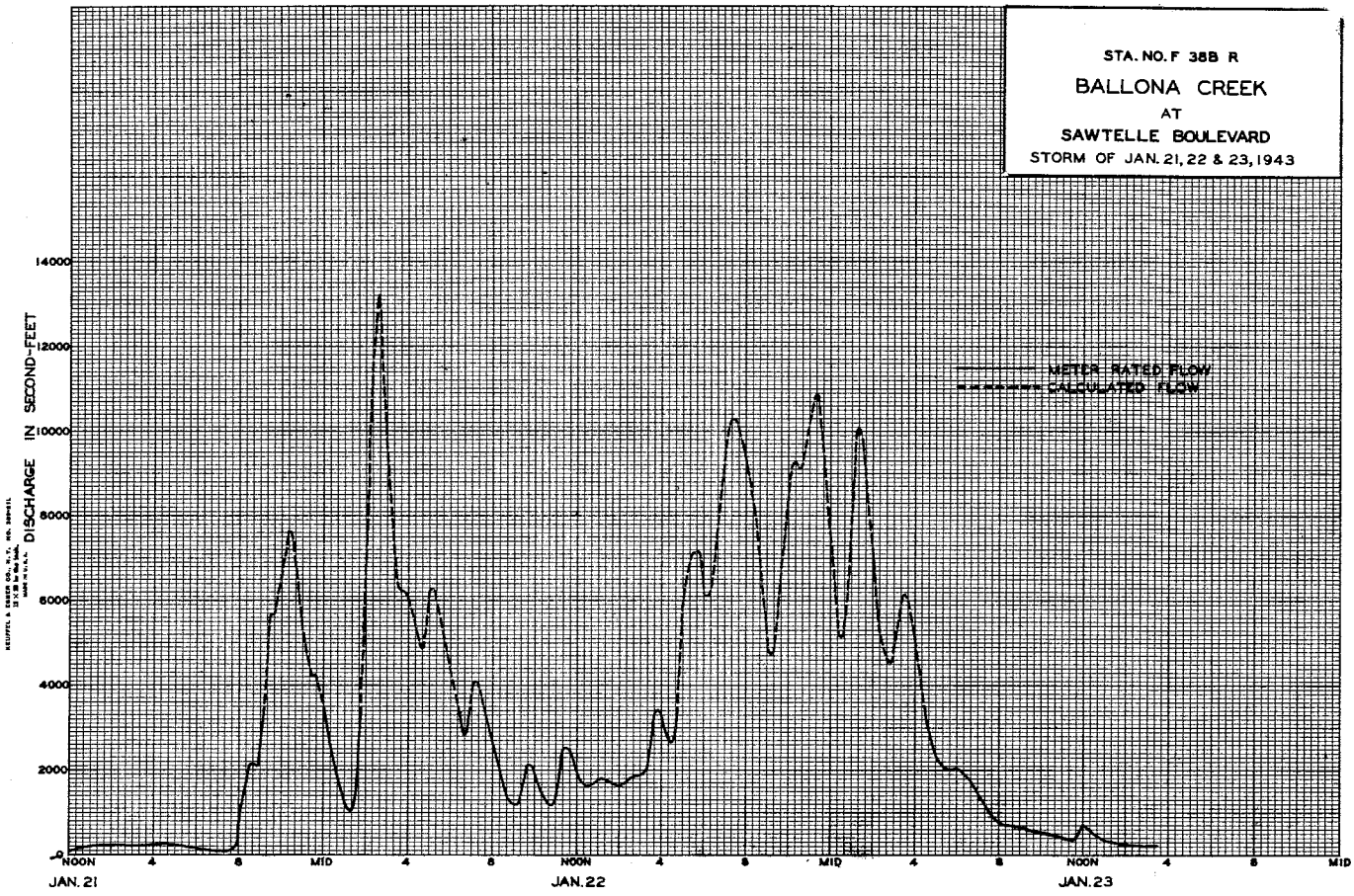
Sta. No F38B-R

Daily discharge, in second-feet of BALLONA CREEK At Sawtelle Boulevard for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	5.5	5.5	5.5	17	12	8	5	6.5	9	6	9
2	7.5	5.5	9.5	5.5	14	12	10	4.4	6.5	8	7	6
3	6.5	6	8.5	4.8	12	1690	12	6.5	6.5	10	9.5	7
4	5	17	9.5	5.5	10	917	10	9.5	7	8.5	9	8.5
5	5.5	5	6	5	12	74	119	7.5	7	8	13	8.5
6	6	5.5	4.8	6	9.5	44	152	9.5	5	11	11	9
7	5.5	5.5	6	5.5	9.5	31	7.5	9.5	6	7.5	11	12
8	6.5	5.5	6	9	155	24	7	7.5	7	9	9	12
9	6	5.5	a 4.8	4.2	9.5	24	7	7	5.5	10	7.5	8.5
10	5.5	5	a 4.8	3.7	7.5	20	7.5	7.5	7	11	7	9.5
11	4.8	4.8	a 4.8	6.5	7.5	19	6	7.5	6	9.5	9.5	9
12	21	5	4.0	4.8	7.5	20	6	9	7.5	9.5	10	14
13	5.5	5.5	5	4.5	7.5	19	5	7.5	6.5	10	11	14
14	7	5.5	9.5	5.5	7	19	6.5	8.5	7	7.5	9.5	10
15	6	5	a 7	4.8	10	22	6	7	8	8	7.5	12
16	6	4.8	a 6	4.8	10	18	7	5.5	7.5	7.5	11	10
17	6.5	7.5	4.5	3.4	8.5	177	8	6.5	9	7.5	7	11
18	5	7	5.5	4.0	7	53	6.5	7	8	7	9	12
19	5.5	49	5	4.0	7.5	10	8	7	7.5	8.5	8	10
20	8.5	4.5	4.5	4.0	11	9.5	8.5	7	5	10	8.5	8
21	7.5	3.7	5.5	829	151	9	8.5	9	7	10	11	7.5
22	7	3.4	9.5	4840	603	23	8.5	8	8	9.5	9	7.5
23	9	a 3.4	31	1660	350	9.5	8.5	8	8	9	8	8
24	6.5	a 3.4	262	30	385	9	8.5	8	9	8	8.5	8
25	6	a 3.4	279	48	20	9.5	7.5	7.5	9.5	7	9.5	7
26	6.5	a 2.6	7.5	493	15	9.5	8	8	12	8	8	5.5
27	7.5	a 2.6	6	124	12	10	7	8.5	8	8	9.5	6.5
28	327	5.5	6.5	12	12	10	6.5	9	10	7	8.5	8
29	13	5	5.5	11		29	7	7.5	10	6	9	7.5
30	8	5.5	4.8	397		9	7.5	7	10	7	8.5	4.7
31	6		7	227		8.5		7		7.5	9.5	
	541.3		745.5		1887.5		485.0		227.5		280.0	
		203.1		8772.0		3350.5		233.9		264.0		270.2
MEAN	17.5	6.77	24.0	283	67.4	108	16.2	7.55	7.58	8.52	9.03	9.01
ACRE-FEET	1070	403	1480	17400	3740	6650	962	464	451	524	555	536

Remarks:

YEAR OR PERIOD MEAN 47.3
ACRE-FEET 34240



STATION F120-R

BIG DALTON CREEK below Big Dalton Dam

LOCATION:

On the left (southeast) bank about 200 feet below the old tee wall on the downstream side of Big Dalton Dam and about 5 miles northeast of Glendora.

DRAINAGE AREA:

4.8 square miles.

CHANNEL AND CONTROL:

Channel- gravel and rock lined with willows.
Control - concrete cutoff with a Cipolletti weir and a removable V. notch weir.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
No facilities for measuring high flows.

RECORDER:

Installed June 3, 1940 over an 18 inch corrugated iron pipe stilling well. A Stevens type L recorder was in service from October 1, 1942 to September 30 1943.

REGULATION:

4.5 square miles regulated by Big Dalton Dam.
0.3 square miles unregulated flow from Keril Canyon.

DIVERSIONS:

None.

RECORDS AVAILABLE:

Reservoir outflow records from October, 1929 to June 3, 1940. Recorder records from June 3, 1940 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 111 second-feet, March 4.
Minimum no flow part of year.

1940-1943
Maximum 111 second-feet, March 4, 1943.
Minimum no flow part of year.

ACCURACY:

Good.
Flow estimated from Dam records on several days.

OPERATION:

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

F. C. D. FORM 104 3M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F120-R

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

~~AT~~ below Big Dalton Dam DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
78	10-7	1117A / 1121A	Brewster	0.5	0.12	0.50	-	0.06		.6	1	-	FC 12
79	10-14	1025A / 1030A	"	0.5	0.12	0.92	-	0.11		.6	1	-	"
80	10-21	1125A / 1130A	"	0.5	0.12	0.92	-	0.11		.6	1	-	"
81	10-28	1020A / 1025A	"	0.5	0.12	1.08	-	0.13		.6	1	-	"
82	11-4	1020A / 1024A	"	0.5	0.11	0.73	-	0.08		.6	1	-	"
83	11-13	1050A / 1054A	"	1.0	0.12	0.33	-	0.04		.6	2	-	"

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F120-R

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

~~At~~ below Big Dalton Dam DURING THE YEAR ENDING SEPTEMBER 30, 19~~42~~ 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
84	11-18	956A / 1000A	Brewster	1.0	0.12	0.33	-	0.04		.6	2	-	FC 12
85	11-27	1014A / 1017A	"	0.5	0.11	0.55	-	0.06		.6	1	-	"
86	12-2	1011A / 1015A	"	0.5	0.13	0.38	0.04	0.05		.6	1	0	"
87	12-9	1012A / 1015A	"	0.5	0.11	0.55	0.04	0.06		.6	1	0	"
88	12-16	302P / 305P	"	0.5	0.11	0.55	0.04	0.06		.6	1	0	"
89	12-22	1027A / 1030A	"	0.5	0.12	0.50	0.04	0.06		.6	1	0	"
90	12-29	347P / 350P	"	0.5	0.12	0.50	0.04	0.06		.6	1	0	"
91	1-7	300P / 303P	"	0.5	0.11	0.55	0.03	0.06		.6	1	0	"
92	1-14	1030A / 1033A	"	0.5	0.12	0.50	0.04	0.06		.6	1	0	"
93	1-21	1146A / 1150A	"	0.5	0.14	0.43	0.04	0.06		.6	1	0	"
94	1-22	735A / 745A	Brewster & Smith	22.0	7.46	4.77	0.84	35.6		.6	6	+.02	"
95	1-22	406P / 412P	" "	8.0	1.44	2.85	0.16	4.1		.6	4	0	"
96	1-23	914A / 918A	" "	1.5	0.24	1.21	0.70	0.29		.6	3	0	"
97	1-25	1025A / 1036A	" "	11.0	7.55	3.28	1.06	24.8		.6	6	-.01	FC 35
98	1-29	1145A / 1155A	Brewster	10.0	5.10	2.61	0.93	13.3		.6	5	0	"
99	2-4	1235P / 1250P	"	11.0	6.02	2.57	0.99	15.5		.6	6	0	FC 12
100	2-10	1156A / 1202P	"	8.0	2.16	0.69	0.80	1.5		.6	4	0	"
101	2-13	1140A / 1150A	Green	6.3	2.0	0.75	0.79	1.5		.6	7	0	FC 30
102	2-18	1105A / 1115A	Brewster	7.0	2.45	0.78	0.79	1.9		.6	5	0	FC 12
103	2-23	1035A / 1045A	"	11.0	7.15	2.99	1.06	21.4		.6	6	0	"
104	2-23	605P / 615P	"	13.0	8.10	3.86	1.17	31.3		.6	7	0	"
105	2-25	130P / 140P	"	11.0	7.65	3.12	1.02	23.9		.6	6	0	"
106	3-5	127P / 145P	Brewster & Smith	20.0	21.6	4.77	1.91	103.		.6	10	0	"
107	3-18	1245P / 100P	Brewster	13.0	7.30	1.78	0.94	13.0		.6	6	0	"
108	3-18	1135A / 1150A	"	14.0	8.40	1.95	1.03	16.4		.6	7	0	"
109	3-18	1232P / 1240P	Brewster	8.0	4.00	1.15	0.77	4.6		.6	4	0	FC 12
110	3-25	1020A / 1030A	"	12.0	5.00	1.48	0.88	7.4		.6	6	0	"
111	3-27	155P / 200P	Green	6.2	3.60	0.94	0.69	3.4		.6	7	0	FC 30
112	4-1	1033A / 1045A	Brewster	11.0	4.13	0.77	0.65	3.2		.6	6	0	FC 12
113	4-8	1039A / 1045A	"	3.0	0.60	0.83	0.46	0.50		.6	3	0	"
114	4-15	1031A / 1037A	"	3.0	0.60	0.47	0.40	0.28		.6	3	0	"
115	4-22	1054A / 1100A	"	4.0	0.78	0.47	0.40	0.37		.6	4	0	"
116	4-29	1050A / 1055A	"	3.0	0.56	0.48	-	0.27		.6	3	-	"
117	5-6	1015A / 1020A	"	3.0	0.76	0.51	-	0.39		.6	3	-	"
118	5-12	1044A / 1050A	"	3.0	0.68	0.65	0.47	0.44		.6	3	0	"
119	5-20	1050A / 1055A	"	3.0	0.70	0.59	0.48	0.41		.6	3	0	"
120	5-27	1055A / 1102A	"	6.0	2.66	0.64	0.86	1.7		.6	6	0	"
121	6-3	1140A / 1150A	"	6.0	2.70	0.63	0.85	1.7		.6	6	0	"
122	6-10	1033A / 1045A	"	6.0	2.73	0.62	0.84	1.7		.6	6	0	"
123	6-17	1223P / 1235P	"	5.0	2.44	0.70	0.84	1.7		.6	5	0	"
124	6-24	1045A / 1100A	Brewster	6.0	3.41	1.11	1.16	3.8		.6	6	0	FC 12
125	7-1	1020A / 1035A	"	6.0	3.68	1.01	1.14	3.7		.6	6	0	"
126	7-8	1118A / 1130A	"	6.0	3.74	0.96	1.13	3.6		.6	6	0	"
127	7-15	1220P / 1230P	"	6.0	3.49	1.00	1.12	3.5		.6	6	0	"
128	7-22	1010A / 1022A	"	6.0	3.73	1.47	1.32	5.5		.6	6	0	"
129	7-29	1115A / 1125A	"	6.0	3.64	1.48	1.30	5.4		.6	6	0	"
130	8-5	1052A / 1104A	"	6.0	3.65	1.40	1.30	5.1		.6	6	0	"
131	8-12	1045A / 1100A	"	6.0	3.61	1.33	1.26	4.8		.6	6	0	"
132	8-19	1218P / 1230P	"	6.0	3.62	1.24	1.23	4.5		.6	6	0	"
133	8-26	910A / 920A	Haig & Van der Goot	6.2	3.32	1.27	1.20	4.2		.6	7	0	FC 35
134	9-2	935A / 945A	Haig	6.2	3.24	1.14	1.17	3.7		.6	7	0	"
135	9-11	1108A / 1120A	Brewster	6.0	3.52	0.99	1.11	3.5		.6	6	0	FC 12
136	9-18	1054A / 1106A	"	6.0	3.26	0.89	1.03	2.9		.6	6	0	"
137	9-23	933A / 945A	"	6.0	3.27	0.98	1.08	3.2		.6	6	0	"

P.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F120-R

Daily discharge, in second-feet of BIG DALTON CREEK Below Big Dalton Dam, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.05	0.1	0.1	0.1	17.9	b24	2.9	0.3	1.7	3.7	5.1	3.7
2	0.05	0.1	0.1	0.1	16.5	20	1.3	0.3	1.7	3.7	5.1	3.7
3	0.05	0.1	0.1	0.1	15.9	21	0.5	0.4	1.7	3.7	5.1	3.7
4	0.05	0.1	0.1	0.1	14.8	71	0.5	0.4	1.7	3.7	5.1	3.7
5	0.05	0.1	0.1	0.1	8.9	103	0.5	0.4	1.7	3.7	5.1	3.6
6	0.05	0.1	0.1	0.1	3.2	b84	0.5	0.4	1.7	3.7	5.0	3.6
7	0.05	0.1	0.1	0.1	1.6	b50	0.5	0.4	1.7	3.6	5.0	3.6
8	0.05	0.1	0.1	0.1	1.6	b55	0.5	0.4	1.7	3.6	4.9	3.6
9	0.05	0.05	0.1	0.1	1.6	b35	0.4	0.4	1.7	3.5	4.8	3.6
10	0.05	0.05	0.1	0.1	1.4	b22	0.4	0.4	1.7	3.6	4.8	3.6
11	0.05	0.05	0.1	0.1	1.4	13.0	0.3	0.4	1.7	3.5	4.8	3.5
12	0.1	0.05	0.1	0.1	1.6	13.0	0.3	0.4	1.7	3.5	4.8	3.5
13	0.1	0.05	0.1	0.1	1.6	11.9	0.3	0.4	1.7	3.5	4.8	3.4
14	0.1	0.05	0.1	0.1	1.6	11.3	0.3	0.4	1.7	3.5	4.7	3.3
15	0.1	0.05	0.1	0.1	1.7	8.0	0.3	0.4	1.7	3.5	4.6	3.1
16	0.1	0.05	0.1	0.1	1.7	5.0	0.3	0.4	1.7	3.5	4.6	3.2
17	0.1	0.05	0.1	0.1	1.8	10.8	0.3	0.4	1.7	5.0	4.5	3.0
18	0.1	0.05	0.1	0.1	1.8	10.6	0.3	0.4	1.7	5.3	4.5	2.9
19	0.1	0.05	0.1	0.1	1.8	4.9	0.3	0.4	1.7	5.4	4.5	3.4
20	0.1	0.05	0.1	0.1	1.7	4.9	0.3	0.4	1.7	5.4	4.4	3.7
21	0.1	0.05	0.1	0.1	1.4	12.3	0.4	0.4	1.8	5.5	4.4	3.6
22	0.1	0.05	0.1	19.0	7.7	15.2	0.3	0.5	1.8	5.5	4.4	3.3
23	0.1	0.05	0.1	5.4	2.9	9.2	0.3	0.5	3.0	5.5	4.4	3.2
24	0.1	0.05	0.1	22	3.5	7.0	0.3	0.5	3.8	5.6	4.3	3.0
25	0.1	0.05	0.1	24	2.9	7.4	0.3	1.1	3.7	5.5	4.3	2.8
26	0.1	0.05	0.1	b25	b24	6.1	0.3	1.7	3.7	5.5	4.2	2.5
27	0.1	0.05	0.1	b19.0	b24	3.3	0.3	1.7	3.7	5.3	4.1	2.2
28	0.1	0.05	0.1	b12.0	b24	3.3	0.3	1.7	3.7	5.2	4.0	2.2
29	0.1	0.05	0.1	18.7		2.9	0.3	1.7	3.7	5.2	4.0	1.3
30	0.1	0.05	0.1	27		2.9	0.3	1.7	3.7	5.1	3.9	0
31	0.1		0.1	23		2.9		1.7		5.1	3.8	
	2.55		3.1		275.2		14.1		66.6		142.0	
		1.90		197.2		650.9		21.0		137.6		93.5
MEAN	0.082	0.063	0.10	6.36	9.83	21.0	0.47	0.68	2.22	4.44	4.58	3.12
ACRE-FEET	5.1	3.8	6.2	391.	546.	1290.	28.	42.	132.	273.	282.	185.

Remarks:

YEAR OR PERIOD MEAN 4.40
ACRE FEET 3180.

STATION U9R

SAN GABRIEL RIVER BASIN Dalton Creek near Glendora

LOCATION:

Water-stage recorder and broad-crested weir control, lst. 34°08'25", long. 117°49'55", in center of sec. 21, T. 1 N., R. 9 W., a quarter of a mile upstream from mouth of canyon, and 2½ miles northeast of Glendora. Altitude of gage, about 1,125 feet (from topographic map).

DRAINAGE AREA:

7.5 square miles.

RECORDS AVAILABLE:

December 1919 to September 1943

AVERAGE DISCHARGE:

23 years (1920-43), 1.37 second-feet.

EXTREMES:

Maximum discharge during year, 277 second-feet Jan. 24 (gage height, 2.43 feet) computed on the basis of V = kd2/3; no flow for several periods.

1919-1943

Maximum discharge, about 850 second-feet Mar. 2, 1938, from record of release from reservoir upstream; no flow for several months of each year.

REMARKS:

Records good. Glendora Irrigation Co. diverts water above gage through 10-inch pipe line. Regulation at flood-control dam about 1 mile upstream.

COOPERATION:

Results of 35 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U9R

DISCHARGE MEASUREMENTS OF DALTON CREEK

AT OR NEAR Glendora DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
764	Oct. 2		U.S.G.S.				0.03	0.04	Floats		0		
765	7	1050A / 1055A	Brewster	0.5	0.11	0.18	0.02	0.02			1	0	FC.12
766	14	955A / 1000A	"	1.0	0.12	0.17	0.03	0.02		.6	2	0	"
	15		U.S.G.S.				0.03	0.01	Est.			0	
	Nov24		"				0.02	0.00					
767	Dec 29		"				0.03	0.03		.6	1	0	
768	29	315P / 320P	Brewster	0.5	0.12	0.58	0.03	0.07		.6	1	0	FC.12
	1943												
769	Jan 5		U.S.G.S.				0.04	0.03		.6	1	0	
770	7	230P / 233P	Brewster	0.5	0.14	0.43	0.23	0.60		.6	1	0	FC.12
771	14	1003P / 1006P	"	0.5	0.11	0.36	0.03	0.04		.6	1	0	"
772	14		U.S.G.S.				0.03	0.02		.6	1	0	
773	21	1125A / 1130A	Brewster	0.5	0.12	0.33	0.02	0.04		.6	1	0	FC.12
774	22		U.S.G.S.				0.76	6.4		.6	12	-.02	
775	23		"				1.27	30.5		.6	10	0	
775a	24		"										
776	24		"				1.52	49.2		.6	13	+.03 -.01	
777	25		"				1.16	22.3		.6	12	+.01	
778	27		"				1.15	17.9		.6	12	0	
779	30	1000A / 1014A	Van der Goot Brewster	13.5	8.41	4.21	1.32	35.4		.6	11	-.01	FC.35
780	Feb.1		U.S.E.D.				1.15	18.2		.6	12	0	
781	4	150P / 208P	Brewster	12.0	6.72	2.81	1.05	18.9		.6	7	0	FC.12
782	5		U.S.G.S.				.94	9.8		.6	11	0	
783	Feb.9		U.S.G.S.				0.67	2.4		.6	9	0	
784	10	1108A / 1120A	Brewster	6.0	2.72	0.96	0.67	2.6		.6	6	0	FC.12
785	16		U.S.G.S.				0.64	2.2		.6	9	0	
786	18	1020A / 1032A	Brewster	6.0	2.74	1.06	0.64	2.9		.6	6	0	FC.12
787	22		U.S.G.S.				1.02	14.0		.6	12	-.05	
788	23		"				1.28	30.1		.6	13	-.01	
789	25	1215P / 1240P	Brewster	12.0	9.50	3.32	1.20	31.5		.6	12	0	FC.12
790	Mar.4	220 P / 240 P	"	16.0	17.4	6.15	1.86	107.		.6	8	-.04	"
791	6		U.S.G.S.				1.84	105.		.6	8		
792	7		"				1.61	54.		.6	16	0	
793	11	1130A / 1150A	Brewster	14.0	9.80	1.74	1.10	17.1		.6	7	0	FC.12
794	12		U.S.G.S.				1.08	17.8		.6	12	0	
795	15		"				0.85	7.6		.6	15	0	
796	18	1045A / 1103A	Brewster	13.0	10.8	1.87	1.11	20.2		.6	7	0	FC.12
797	18		U.S.G.S.				0.87	7.3		.6	11	0	
798	22		"				1.16	19.1		.6	12	0	
799	25	930 A / 945 A	Brewster	12.0	7.00	1.50	0.91	10.5		.6	6	0	FC.12
800	29		U.S.G.S.				0.76	4.8		.6	10	0	
801	April 1	950 A / 1002A	Brewster	11.0	6.00	0.93	0.74	5.6		.6	6	0	FC.12
802	5		U.S.G.S.				0.66	2.2		.6	9	0	
803	8	955 A / 1005A	Brewster	10.0	4.80	0.75	0.70	3.6		.6	5	0	FC.12
804	12		U.S.G.S.				0.66	2.2		.6	8	0	
805	15	943 A / 955 A	Brewster	10.0	4.28	0.58	0.65	2.5		.6	5	0	FC.12
806	21		U.S.G.S.				0.64	2.0		.6	9	0	
807	Apr.22	1005A / 1020A	Brewster	10.0	3.60	0.44	0.64	1.6		.6	5	0	FC.12
808	27		U.S.G.S.				0.62	1.7		.6	12	0	
809	29	1006A / 1018A	Brewster	6.0	2.32	0.91	0.62	2.1		.6	6	0	FC.12
810	May 4		U.S.G.S.				0.62	1.9		.6	12	0	
811	6	915 A / 930 A	Brewster	6.0	2.38	0.76	0.61	1.8		.6	6	0	FC.12
812	12	1050A / 1108A	Brewster	6.0	1.69	0.49	0.35	0.83		.6	6	0	"
813	13		"				0.31	0.50		.6	4	0	
814	17		"				0.28	0.37		.6	4	0	
815	20	1020A / 1028A	Brewster	2.0	0.68	1.15	0.35	0.78		.6	4	0	FC.12
816	21		U.S.G.S.				0.26	0.36		.6	4	0	
817	27	1015A / 1025A	Brewster	2.0	0.72	0.96	0.29	0.69		.6	4	0	FC.12
818	28		U.S.G.S.				0.26	0.35		.6	4	0	
819	June 2		"				0.27	0.42		.6	7	0	
820	3	1054A / 1100A	Brewster	2.0	0.62	0.89	0.27	0.55		.6	4	0	FC 12
821	10	1012A / 1020A	"	1.5	0.54	0.67	0.30	0.36		.6	3	0	"
822	11		U.S.G.S.				0.24	0.26		.6	5	0	
823	17	1153A / 1159A	Brewster	1.0	0.31	0.68	0.19	0.21		.6	2	0	FC.12
824	24	1011A / 1017A	"	1.0	0.29	0.79	0.20	0.23		.6	2	0	"
825	July 1	946 A / 950 A	"	1.0	0.24	0.62	0.15	0.15		.6	2	0	"
826	5		U.S.G.S.				0.12	0.07		.6	4	0	
827	8	1055A / 1100A	Brewster	1.0	0.24	0.42	0.10	0.10		.6	2	0	FC.12
828	15		U.S.G.S.				0.07	0.06		Float & .6	4		
829	15	1115A / 1119A	Brewster	1.0	0.22	0.41	0.07	0.09		.6	2	0	FC.12
830	July22	945 A / 950 A	Brewster	1.0	0.22	0.50	0.08	0.11		.6	2	0	FC.12
831	23		U.S.G.S.				0.07	0.07		Float	0		
832	29	1050A / 1055A	Brewster	0.5	0.12	0.42	0.05	0.05		.6	1	0	FC.12
833	30		U.S.G.S.				0.04	0.02		.6	1	0	
834	Aug. 5	1011A / 1015A	Brewster	0.5	0.11	0.18	0.03	0.02		.6	1	0	FC.12
835	12	1013A / 1017A	Brewster	0.5	0.12	0.17	0.03	0.02		.6	1	0	"
836	19	1141A / 1145A	Brewster	1.0	0.12	0.08	0.01	0.01		.6	2	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No 119R

Daily discharge, in second-feet of DALTON CREEK Near Glendora, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.1	23	18	4.4	1.7	0.4	0.2	0	0
2	0	0	0	0.1	19	15	3.5	1.7	0.5	0.2	0	0
3	0	0	0	0	19	25	2.7	1.8	0.5	0.1	0	0
4	0	0	0	0	19	111	2.7	1.9	0.4	0.1	0	0
5	0	0	0	0	11	155	2.8	1.9	0.4	0.1	0.4	0
6	0	0	0	0.3	37	125	3.9	1.4	0.3	0.1	0	0
7	0	0	0	0.6	21	54	2.7	1.1	0.3	0.1	0	0
8	0	0	0	0.6	26	63	3.3	1.2	0.3	0.1	0	0
9	0	0	0	0.4	23	46	3.0	0.9	0.3	0.1	0	0
10	0	0	0	0	26	29	2.7	0.8	0.3	0.1	0	0
11	0	0	0	0	23	18	2.6	0.8	0.3	0.1	0	0
12	0.1	0	0	0	23	18	2.4	0.7	0.3	0.1	0	0
13	0	0	0	0	23	16	2.3	0.6	0.3	0.1	0	0
14	0	0	0	0	23	16	2.1	0.6	0.2	0.1	0	0
15	0	0	0	0	24	11	2.1	0.6	0.2	0.1	0	0
16	0	0	0	0	24	7	2.1	0.6	0.2	0.1	0	0
17	0	0	0	0	26	14	2.0	0.5	0.2	0.1	0	0
18	0	0	0	0	26	14	1.9	0.5	0.2	0.1	0	0
19	0	0	0	0	26	7	1.9	0.4	0.2	0.1	0	0
20	0	0	0	0	22	7	1.9	0.5	0.2	0.1	0	0
21	0	0	0	0.1	21	12	1.8	0.4	0.2	0.1	0	0
22	0	0	0	26	15	17	1.8	0.4	0.2	0.1	0	0
23	0	0	0	49	41	10	1.8	0.4	0.2	0.1	0	0
24	0	0	0	40	46	9.5	1.7	0.4	0.2	0.1	0	0
25	0	0	0.2	25	38	10	1.7	0.7	0.2	0.1	0	0
26	0	0	0.1	21	28	8	1.7	0.5	0.2	0.1	0	0
27	0	0	0.1	16	24	5.5	1.7	0.5	0.2	0	0	0
28	0	0	0.1	11	20	5.5	1.7	0.4	0.2	0	0	0
29	0	0	0.1	20		4.8	1.7	0.4	0.2	0	0	0
30	0	0	0.1	38		4.8	1.7	0.4	0.2	0	0	0
31			0.1	36		4.6		0.4		0	0	
	0.1	0	0.8	284.2	342.4	860.7	70.3	25.1	8.0	2.8	0.4	0
MEAN	0.003	0	.03	9.17	12.2	27.8	2.34	.81	.27	.09	.01	0
ACRE FEET	0.2	0	1.6	564.	679.	1,710.	139.	50.	16.	5.6	.8	0

Remarks:

YEAR OR PERIOD — MEAN 4.37 — ACRE-FEET 3,170

STATION F274-R

DALTON WASH at Merced Avenue

LOCATION:

On the left (east) bank and on the downstream side of the Merced Avenue bridge about one-half mile above the junction with Walnut Wash and about one mile south of Baldwin Park.

DRAINAGE AREA:

28. square miles.

CHANNEL AND CONTROL:

Channel-earth, sand and gravel covered with weeds and grass during summer months.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of bridge.

RECORDER:

Installed November 11, 1940 over a 24 inch diameter iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Partially regulated by Big Dalton Dam, Big Dalton Spreading Grounds and Little Dalton Spreading Grounds. The Covina and Azusa Canals at times spread flows in both Big and Little Dalton Washes.

DIVERSIONS:

Glendora Mutual Water Co. diverts flow from both Big and Little Dalton Canyons.

RECORDS AVAILABLE:

November 11, 1940 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 1230 Second-feet January 22.
Minimum no flow part of year.
1940-1943
Maximum 1230 second feet, January 22, 1943.
Minimum no flow at various times.

ACCURACY:

Fair.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F274-R

DISCHARGE MEASUREMENTS OF DALTON WASH

at Merced Avenue DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
86	1-22	204P / 225P	Brewster & Smith	30.0	21.1	3.50	2.05	74.0		.6	8	0	FC 12
87	1-24	1130A / 1143A	"	27.0	12.1	2.36	1.84	28.5		.6	8	-.01	FC 35
88	1-25	314P / 320P	"	10.0	2.58	1.36	1.58	3.5		.6	4	+.01	"
89	1-27	320P / 330P	Brewster	14.0	4.02	1.44	1.65	5.8		.6	5	0	"
90	1-30	355P / 405P	"	20.0	9.20	2.68	1.82	24.7		.6	6	-.01	"
91	2-19	522P / 530P	"	8.0	1.64	1.22	1.46	2.0		.6	4	+.01	FC 12
92	2-21	335P / 345P	"	22.0	12.5	3.34	1.85	41.7		.6	6	+.04	"
93	2-22	115P / 130P	"	36.0	60.6	5.40	3.50	327.		.6	7	-.01	"
94	2-23	443P / 451P	Wadicor & Snyder	25.3	11.0	3.06	1.85	33.7		.6	9	0	FC 24
95	2-24	956A / 1005A	Wadicor & Blakely	28.6	28.1	4.77	2.56	134		.6	11	-.09	"
96	2-26	630P / 635P	Brewster	4.0	0.74	0.95	1.58	0.70		.6	4	0	FC 12
97	3-3	240P / 252P	Wallace	32.0	17.0	4.18	2.06	71.0		.6	9	+.05	FC 42
98	3-4	255P / 306P	"	33.0	35.6	5.80	2.80	206.		.6	9	0	"
99	4-6	1028A / 1035A	Brewster	8.0	1.72	1.10	1.58	1.9		.6	4	+.04	FC 12
100	4-9	402P / 410P	"	6.0	1.44	1.74	1.58	2.5		.6	4	0	"
101	4-16	354P / 400P	"	8.0	1.36	0.74	1.52	1.0		.6	4	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

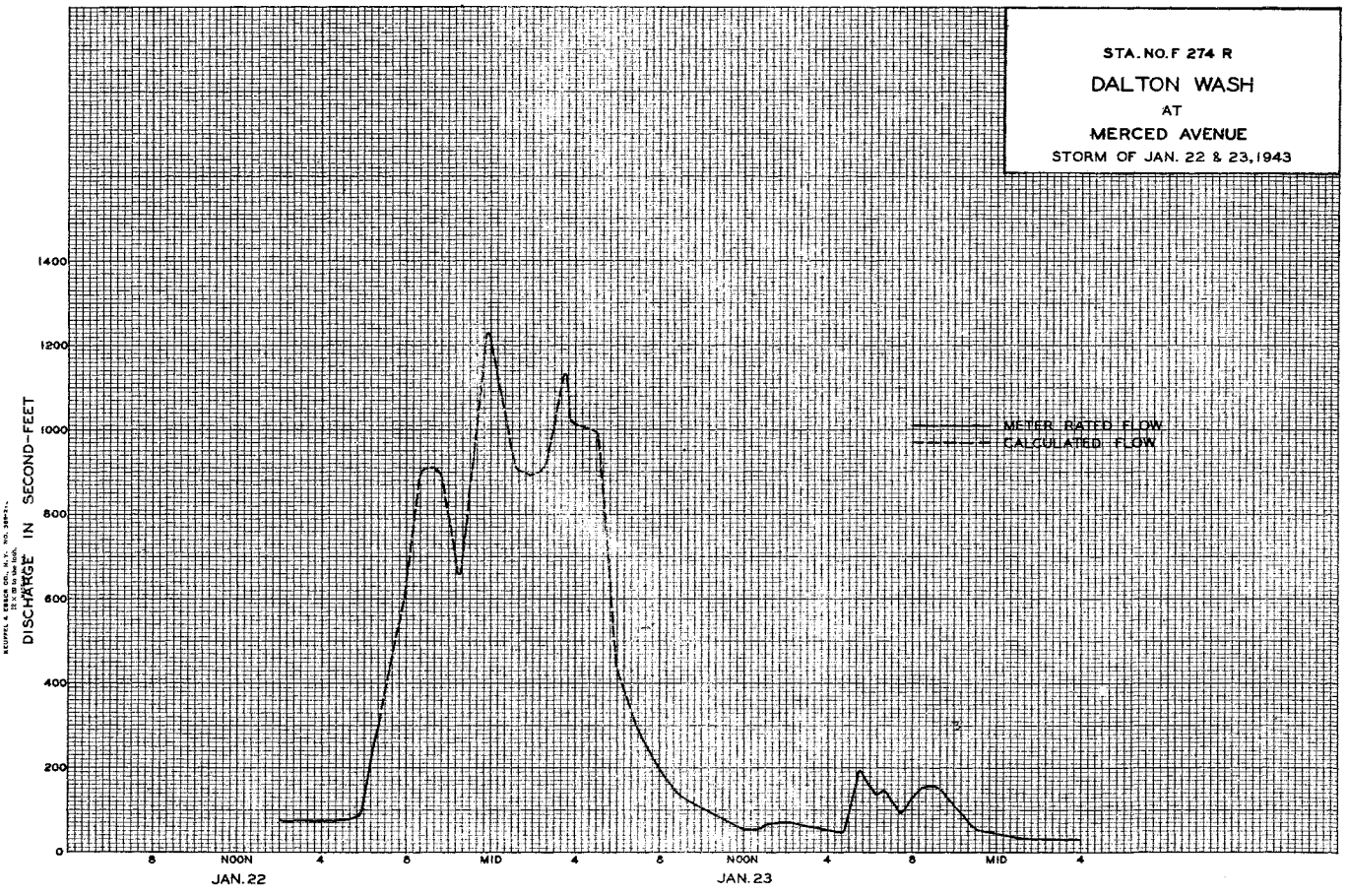
Sta. No F274R

Daily discharge, in second-feet of DALTON WASH At Merced Avenue, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.2	3.6	0	0	0	0	0	0
2	0	0	0	0	0.2	3.6	0	0	0	0	0	0
3	0	0	0	0	0	130	0	0	0	0	0	0
4	0	0	0	0	0	336	0	0	0	0	0	0
5	0	0	0	0	0	167	0	0	0	0	0	0
6	0	+	0	0	0	83	3.3	0	0	0	0	0
7	0	0	0	0	0	22	1.8	0	0	0	0	0
8	0	0.1	0	0	+	19	4.6	0	0	0	0	0
9	0	0	0	0	0	2.8	2.8	0	0	0	0	0
10	0	0	0	0	0	+	2.3	0	0	0	0	0
11	0	0	0	0	0	0	2.3	0	0	0	0	0
12	0	0	0	0	0	0	1.4	0	0	0	0	0
13	0	0	0	0	0	0	0.2	0	0	0	0	0
14	0	0	0	0	0	0	0.2	0	0	0	0	0
15	0	0	0	0	0	0	2.6	0	0	0	0	0
16	0	0	0	0	0	0	2.8	0	0	0	0	0
17	0	0	0	0	0	0	2.8	0	0	0	0	0
18	0	0	0	0	0	7.5	2.0	0	0	0	0	0
19	0	0	0	0	0.6	0	+	0	0	0	0	0
20	0	0	0	0	4.6	0	0.9	0	0	0	0	0
21	0	0	0	0	19	0	1.1	0	0	0	0	0
22	0	0	0	a280	81	0	+	0	0	0	0	0
23	0	0	0	329	45	0	0.2	0	0	0	0	0
24	0	0	0	22	42	0.0	0.1	0	0	0	0	0
25	0	0	2.1	3.6	b 1.4	2.4	0.2	0	0	0	0	0
26	0	0	12	12	b 1.0	0.3	1.7	0	0	0	0	0
27	0	0	0.2	15	1.4	+	0.2	0	0	0	0	0
28	0	0	0.1	0.1	2.3	0	+	0	0	0	0	0
29	0	0	0	3.8		0	0	0	0	0	0	0
30	0	0	0	25		0	0	0	0	0	0	0
31	0		0	51		0		0		0	0	
	0	0.1	14.4	740.5	198.7	777.2	33.5	0	0	0	0	0
Mean	0	+	0.46	23.9	7.10	25.1	1.12	0	0	0	0	0
Acre-Feet	0	0.2	29.	1470.	394.	1540.	66.	0	0	0	0	0

Remarks: + = 0.05 c.f.s. or less.

Year or Period — Mean 4.83 — Acre Feet 3500.



STATION F111B-R

BIG TUJUNGA CREEK above Edison Road

LOCATION:

On the right (northwest) bank 400 feet above Edison Road, about 4 miles above Big Tujunga Dam No. 1. Former Station F111R was about 300 feet downstream.

DRAINAGE AREA:

67 square miles.

CHANNEL AND CONTROL:

Channel - Gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured 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 over a 24 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1943.

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, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 14,800 second-feet, January 23.
Minimum 0.8 second-foot, October 1 to October 9.
1930-1943 (Stations F111R and F111B-R)
Maximum not determined March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Good at low flows.
Poor at high flows.
Flows occasionally estimated due to poor communication and undetermined shift of control.

OPERATION:

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

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F111B-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

AT OR NEAR Above Edison Road DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
341	10-1	1005A / 1015A	Turner	6.7	1.94	0.45	5.52	0.88		.6	8	0	FC 5
342	10-29	920A / 935A	"	7.5	2.96	0.84	5.60	2.5		.6	8	0	"
343	12-3	955A / 1005A	"	7.5	2.69	0.67	5.58	1.8		.6	8	0	"
344	12-30	1050A / 1100A	Turner & Robertson	8.0	3.43	0.77	5.59	2.6		.6	8	0	"
345	1-25	1140A / 1155A	Turner & Blakely	50.0	50.8	3.44	7.38	175.		.6	11	0	FC 44
346	1-27	1210P / 1230P	Turner	Two Channels			7.26	140.		.6	13	-.02	FC 23
347	2-10	1250P / 105P	"	25.0	10.0	4.02	7.24	40.2		.6	10	0	FC 5
348	2-19	1220P / 1235P	"	19.0	6.71	3.96	6.93	26.6		.6	11	0	"
349	2-25	1120A / 1140A	"	59.0	50.9	5.13	8.26	261.		.6	15	0	"
350	2-28	225P / 250P	Blakely & Young	58.5	29.4	4.12	7.84	121.		.6	17	0	FC 44
351	3-6	915A / 935A	Turner	60.0	80.6	5.40	8.73	435.		.6	13	-.02	FC 5
352	3-9	637P / 710P	Blakely & Strople	57.0	57.0	4.81	8.12	274.		.6	14	0	FC 44
353	3-12	1030A / 1055A	Turner	Two Channels			7.91	166.		.6	16	0	FC 5
354	3-15	1215P / 1240P	"	"	"		7.72	126.		.6	16	0	"
355	3-18	1140A / 1200N	"	33.0	23.1	5.06	7.37	117.		.6	13	0	"
356	3-22	1110A / 1130A	"	Two Channels			7.01	100.		.6	16	0	"
357	3-25	1100A / 1140A	"	"	"		6.87	79.8		.6	17	0	"
358	3-29	1120A / 1140A	"	24.0	19.7	3.49	6.74	68.8		.6	13	0	"
359	4-5	920A / 940A	"	23.7	19.1	2.91	6.61	55.6		.6	12	0	"
360	4-8	950A / 1010A	"	25.0	20.8	3.21	6.76	66.8		.6	12	0	"
361	4-13	955A / 1015A	"	24.0	19.9	2.91	6.67	58.0		.6	12	0	"
362	4-16	850A / 910A	"	24.0	18.6	2.86	6.62	53.2		.6	12	0	"
363	4-20	913A / 927A	Blakely	22.0	16.7	2.72	6.57	45.5		.6	9	0	FC 44
364	4-23	1000A / 1012A	Blakely & Turner	23.0	16.7	2.65	6.50	44.2		.6	11	0	FC 5
365	4-26	1130A / 1150A	Turner	22.0	15.4	2.64	6.45	40.6		.6	12	0	"
366	4-30	835A / 855A	"	22.5	13.9	2.50	6.41	34.7		.6	12	0	"
367	5-4	945A / 954A	Blakely	22.0	14.0	2.41	6.36	33.8		.6	8	0	FC 44
368	5-8	133P / 143P	"	21.0	12.8	2.18	6.26	27.9		.6	8	0	"
369	5-15	953A / 1003A	"	21.0	13.0	2.12	6.28	27.5		.6	8	0	"
370	5-22	1115A / 1135A	Turner	20.8	11.0	2.00	6.20	22.0		.6	13	0	FC 5
371	5-29	1120A / 1135A	"	20.8	10.4	1.96	6.16	20.4		.6	12	0	"
372	6-4	952A / 1002A	Blakely	20.5	10.9	2.01	6.16	21.9		.6	9	0	FC 44
373	6-11	950A / 1005A	Mellen	19.0	9.00	1.74	6.08	15.7		.6	10	0	FC 28
374	6-18	920A / 940A	"	19.0	8.15	1.68	6.02	13.7		.6	9	0	"
375	6-26	1139A / 1145A	Blakely	11.0	7.52	1.70	5.93	12.8		.6	7	0	FC 44
376	7-9	1037A / 1045A	"	11.0	6.28	1.48	5.87	9.3		.6	8	0	"
377	7-28	158P / 212P	"	10.5	5.12	1.07	5.75	5.5		.6	11	0	"
378	8-20	1004A / 1010A	"	10.0	4.63	0.97	5.72	4.5		.6	7	0	"
379	9-24	1155A / 1201P	"	10.0	3.99	0.95	5.69	3.8		.6	6	0	"

F. C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

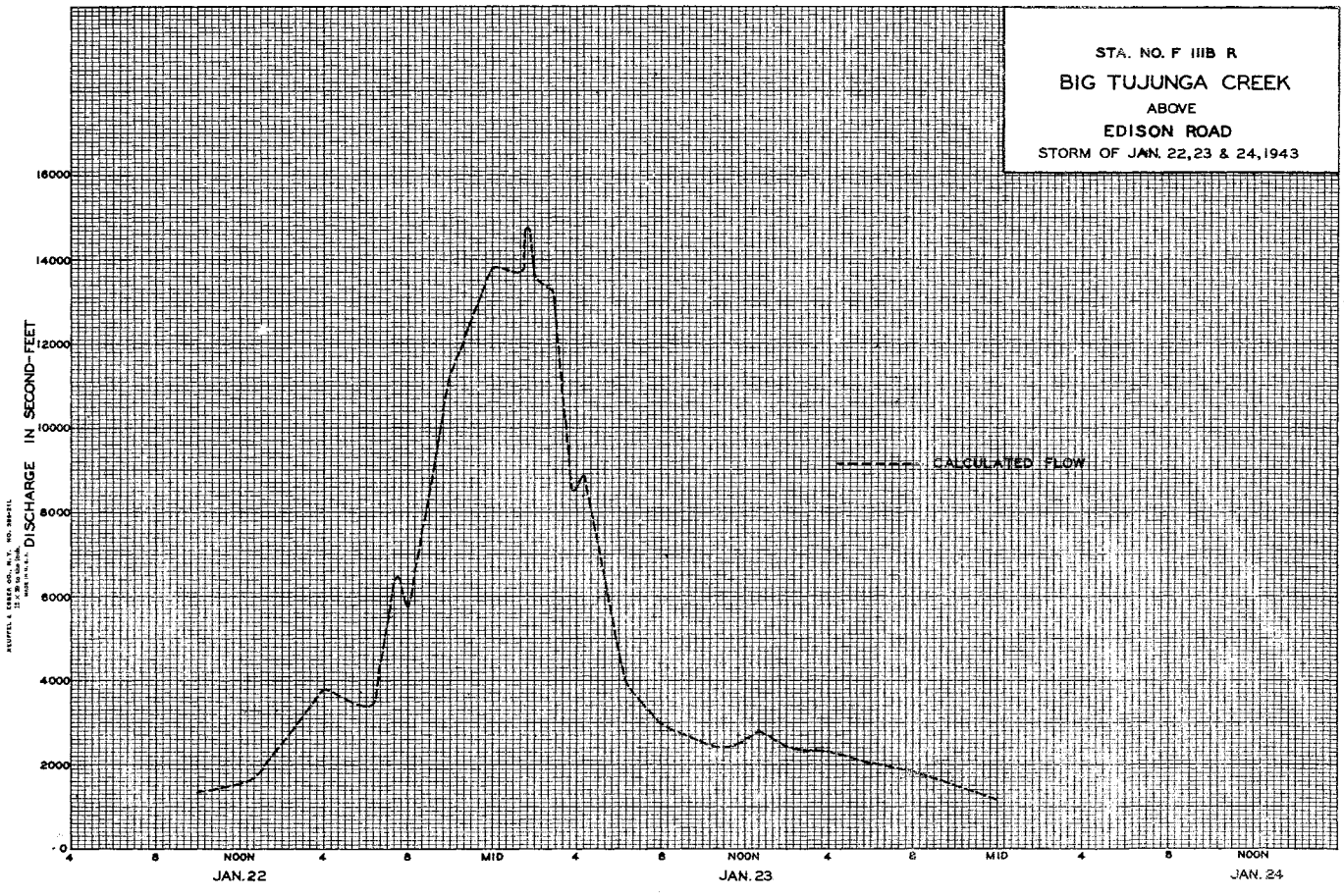
Sta. No F111 B-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK Above Edison Road, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	1.7	1.7	2.7	v 117	126	62	31	20	11	4.6	3.8
2	0.8	1.7	1.7	2.7	93	117	60	31	21	11	4.8	3.8
3	0.8	1.7	1.7	2.7	75	307	58	31	21	11	5.5	3.8
4	0.8	1.7	1.7	2.4	69	1310	57	32	21	10	5.5	3.8
5	0.8	1.7	1.7	2.4	64	819	64	31	21	9.5	5.0	3.8
6	0.8	1.7	1.7	2.4	60	417	83	30	19	9.5	5.0	3.8
7	0.8	1.7	1.7	2.4	57	332	68	30	18	9	4.8	3.6
8	0.8	1.7	1.7	2.4	65	301	66	29	17	9	4.8	3.6
9	0.8	1.7	1.9	2.4	50	274	62	29	16	8.5	4.6	3.6
10	0.9	1.7	1.9	2.4	45	244	60	29	16	8	4.6	3.6
11	1.0	1.7	1.9	2.4	44	208	59	28	15	8	4.6	3.3
12	1.3	1.7	1.7	2.4	45	165	58	27	16	8	4.4	3.3
13	1.1	1.7	1.7	2.4	39	154	56	26	16	8	4.4	3.3
14	1.1	1.7	1.7	2.4	34	144	54	26	15	8	4.4	3.3
15	1.1	1.7	1.7	2.4	34	128	54	27	14	7.5	4.4	3.3
16	1.0	1.7	1.7	2.4	31	117	53	26	13	7.5	4.2	3.3
17	1.0	1.7	1.9	2.4	30	108	50	25	13	7.5	4.4	3.3
18	1.0	1.9	2.0	2.4	28	113	47	24	12	7	4.4	3.3
19	1.0	2.3	2.0	2.4	27	96	45	23	12	7	4.4	3.3
20	1.0	2.0	1.9	2.4	29	90	43	22	12	7	4.2	3.3
21	0.9	1.9	1.9	3.5	87	93	43	21	f 12	6.5	4.2	3.1
22	0.9	1.9	1.9	3400	541	97	43	21	f 12	6.5	4.2	3.1
23	0.9	1.9	1.9	4510	460	90	42	20	f 12	6.5	4.2	3.1
24	1.0	1.9	2.8	b 549	394	84	40	20	f 12	6	4.2	9.5
25	1.5	1.7	6	f 182	v 250	79	41	20	f 12	6	4.2	7.5
26	1.1	1.7	3.3	136	183	77	40	20	f 12	5.5	4.0	4.2
27	1.1	1.7	2.9	152	v 150	74	39	19	12	5.5	3.8	3.8
28	2.7	1.7	2.7	100	118	72	37	19	11	5.0	3.8	3.6
29	2.4	1.7	2.7	78		69	35	19	11	5.0	3.8	3.1
30	2.0	1.7	2.7	v 104		68	32	19	11	5.0	3.8	2.9
31	1.9		2.7	v 190		64		19		4.8	3.8	
	34.7	52.9	67.1	9453.4	3219	6437	1551	774	445	2343	137.0	114.1
MEAN	1.12	1.76	2.16	305.	115.	208.	51.7	25.0	14.8	7.56	4.42	3.80
ACRE-FEET	69.	105.	133.	18750.	6380.	12770	3080.	1540.	883.	465.	272.	226.

Remarks:

YEAR OR PERIOD — MEAN 61.7 — ACRE-FEET 44670.



STATION F168R

BIG TUJUNGA CREEK below Big Tujunga Dam No. 1

LOCATION:

On the right (northwest) bank, 2800 feet below Big Tujunga Dam No. 1, and about 12 miles northeast of Sunland.

DRAINAGE AREA:

81.7 square miles.

CHANNEL AND CONTROL:

Channel - sand, gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 125 feet above station.

RECORDER:

Installed on November 8, 1932. Washed out during the March 2, 1938 storm.
Installed on May 31, 1938 in a concrete house over a 4 ft. x 4 ft. concrete well at approximately the same location as the old well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1943.

REGULATION:

Flow 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, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 17700 second-feet, January 23.
Minimum 0.2 second-foot at various times.
1932-1943
Maximum 33000 second-feet, estimated, March 2, 1938.
Minimum no flow several days in October, 1936.

ACCURACY:

Fair.
Due to excessive silt content, during periods of sluicing at the dam, communication to stilling well was unreliable.
Flows frequently estimated or interpolated between measurements.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F168-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

at ~~CANYON~~ below Big Tujunga Dam #1 DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
710	10-1	310P / 325P	Turner	11.0	6.06	2.81	8.36	17.0		.6	7	0	FC 5
711	10-8	115P / 130P	"	10.5	5.17	2.65	8.32	13.7		.6	10	0	"
712	10-9	1120A / 1135A	Robertson & Ealy	11.5	6.67	3.13	8.40	20.9		.6	7	0	FC 23
713	10-10	315P	Robertson	13.5	7.45	2.84	8.40	21.2		.6	8	0	"
714	10-12	1000A / 1015A	Robertson & Ealy	6.0	1.79	1.73	8.07	3.1		.6	6	0	"
715	10-15	245P / 255P	Turner	6.0	3.38	0.74	8.00	2.5		.6	7	0	FC 5
716	10-22	1030A / 1040A	"	7.4	3.83	1.78	8.11	6.8		.6	8	0	"
717	10-29	945A / 1000A	Robertson	11.5	5.42	2.42	8.40	13.1		.6	6	0	FC 23
718	10-29	225P / 240P	Turner	12.2	5.77	2.72	8.39	15.7		.6	12	0	FC 5
719	10-30	1045A / 1100A	Robertson	11.5	4.83	2.55	8.37	12.3		.6	6	0	FC 23
720	11-5	320P	Turner				8.34	0.07	V-Weir				
721	11-12	150P	"				8.25	0.02	"	"			
722	11-25	210P	"				8.13	+	"	"			
723	12-3	400P	"				8.42	0.15	"	"			
724	12-17	330P	"				8.38	0.11	"	"			
725	12-23	200P	Turner				8.30	0.05	V-Weir				
726	12-30	1000A	"				8.34	0.07	"	"			
727	1-5	1055A / 1105A	Robertson & Ealy	5.5	1.43	0.84	8.26	1.2		.6	7	0	FC 23
728	1-8	145P / 155P	Turner	6.5	2.59	0.93	8.12	2.4		.6	7	0	FC 5
729	1-15	950A / 1000A	"	7.5	2.73	1.28	8.07	3.5		.6	8	0	"
730	1-15	1020A / 1030A	"	6.5	3.42	0.96	8.07	3.3		.6	7	0	"
731	1-24	610P / 625P	Turner	50.0	140.	2.91	5.18	407.		.6	11	0	FC 5
732	1-25	1000A / 1030A	Robertson	49.0	112.	2.79	4.76	313.		.6	10	0	"
733	1-25	325P / 355P	"	47.0	97.1	1.85	4.41	180.		.6	10	0	"
734	1-26	220P / 240P	Turner	45.0	93.4	1.78	4.39	166.		.6	14	0	"
735	1-28	950A	Robertson	145.0	79.4	1.47	4.06	126.		.6	10	0	"
737	1-29	335P / 352P	Blakely & Ealy	50.0	116.	2.31	4.67	268.		.6	11	+.02	"
738	1-29	700P / 735P	Blakely	47.0	96.2	2.05	4.33	197.		.6	10	0	"
739	1-31	1115A / 1145A	Robertson	48.0	107.	2.29	4.79	245.		.6	10	0	FC 23
740	2-1	1130A	"	46.5	93.5	1.75	4.38	164.		.6	10	0	"
741	2-1	430P / 450P	Turner	50.0	92.1	1.14	4.03	105.		.6	10	0	"
742	2-2	330P / 345P	"	Two Channels			2.83	14.6		.6	11	+0.02	FC 5
743	2-2	545P / 600P	"	18.0	20.2	0.71	2.80	14.4		.6	12	0	"
744	2-2	825P / 840P	"	Two Channels			3.24	27.9		.6	11	0	"
745	2-4	745A / 800A	"	47.0	87.8	0.98	3.89	85.7		.6	10	0	"
746	2-9	145P / 205P	"	57.0	107.	0.77	3.82	82.7		.6	12	-0.01	"
747	2-9	345P / 405P	"	57.0	100.	0.68	3.67	67.6		.6	12	0	"
748	2-10	905A / 925A	"	57.0	100.	0.71	3.69	70.9		.6	12	0	"
749	2-11	1045A / 1103A	"	55.0	86.2	0.44	3.40	38.3	Surf.	.6	12	0	"
750	2-11	428P / 445P	"	57.0	93.1	0.59	3.49	55.0	Surf.	.6	12	-.01	"
751	2-12	845A / 905A	"	55.0	80.8	0.43	3.32	34.5	Surf.	.6	12	0	"
752	2-12	1115A / 1135A	"	56.0	86.0	0.49	3.42	41.9	Surf.	.6	12	0	"
753	2-12	325P / 345P	Turner	56.0	89.4	0.52	3.43	46.5	Surf.	.6	12	0	FC 5
754	2-13	1230P / 1245P	"	Two Channels			2.91	14.1		.6	11	0	"
755	2-13	345P / 405P	"	56.0	90.2	0.54	3.48	48.8	Surf.	.6	12	0	"
756	2-15	830A / 850A	"	56.0	88.2	0.49	3.42	43.5	Surf.	.6	12	0	"
757	2-16	520P / 530P	"	56.0	95.2	0.59	3.55	56.2	Surf.	.6	12	0	"
758	2-18	135P / 155P	"	54.5	81.2	0.42	3.31	34.0	Surf.	.6	12	0	"
759	2-21	100P / 120P	"	59.0	120.	0.86	3.95	104.		.6	12	0	"
760	2-22	920A / 940A	Turner & Ealy	62.0	151.	1.27	4.48	192.		.6	13	0	"
761	2-22	130P / 150P	" "	50.0	136.	2.82	5.21	383.		.6	12	0	FC 23
762	2-22	350P / 410P	Turner	53.0	163.	3.67	5.62	598.		.6	11	0	"
763	2-22	930P / 950P	"	60.0	221.	5.07	6.48	1120.		.6	12	0	"
764	2-23	1055A / 1120A	"	53.0	145.	3.46	5.46	502.		.6	11	0	FC 5
765	2-23	440P / 500P	"	49.0	116.	2.59	4.92	301.		.6	10	0	FC 23
766	2-24	905A / 925A	"	52.0	158.	3.73	5.63	589.		.6	11	0	"
767	2-25	700P / 720P	"	46.0	91.0	1.98	4.45	180.	Surf.	.6	10	0	"
768	2-26	810A / 830A	"	46.0	94.9	2.00	4.47	190.	Surf.	.6	10	0	"
769	2-27	1025A / 1045A	"	46.0	96.4	2.01	4.49	194.	Surf.	.6	10	0	"
770	2-28	540A / 605A	"	52.0	156.	3.47	5.55	541.		.6	11	0	"
771	2-28	820A / 845A	"	60.0	210.	4.76	6.65	1000.		.6	12	0	"
772	2-28	940A / 1010A	"	62.0	240.	5.46	6.92	1310.		.6	12	0	"
773	3-1	715A / 735A	"	52.0	149.	3.29	5.42	490.		.6	11	0	"
774	3-1	905A / 930A	Turner	58.0	206.	4.83	6.42	994.	Surf.	.6	12	0	FC 23
775	3-1	1135A / 1205P	"	60.0	228.	5.31	6.62	1210.	Surf.	.6	12	-.02	"
776	3-1	245P / 305P	"	54.0	185.	4.31	6.07	798.	Surf.	.6	11	0	"
777	3-1	425P / 445P	"	60.0	236.	5.21	6.72	1230.		.6	12	-.01	"
778	3-2	200P / 245P	Robertson	55.0	184.	4.21	6.09	774.		.6	11	-0.02	"
779	3-2	825P	Ealy & Robertson	45.0	79.5	1.43	4.11	114.		.6	9	0	"
780	3-3	1135A / 1155A	Turner	48.0	113.	2.39	4.88	270.		.6	10	+.01	"
781	3-3	645P / 705P	"	58.0	210.	4.25	6.27	893.	Surf.	.6	12	0	"
782	3-4	820A / 845A	"	67.0	260.	6.15	7.54	1600.		.6	13	0	"
783	3-4	1015A / 1035A	"	61.0	236.	5.89	7.13	1390.		.6	12	0	"
784	3-4	120P / 143P	"	59.0	217.	5.16	6.75	1120.	Surf.	.6	12	0	"
785	3-5	825A / 850A	"	57.0	199.	4.59	6.31	914.	Surf.	.6	12	0	"

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F168-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

at Below Big Tujunga Dam #1 DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
786	3-5	335P / 400P	Turner	53.0	179.	4.16	5.96	745.		.6	11	+.01	FC 5
787	3-6	500P / 530P	Robertson	50.0	116.	2.41	4.85	280.		.6	10	0	"
788	3-7	930A / 1000A	"	51.0	140.	3.27	5.39	458.		.6	10	0	"
789	3-7	730P / 800P	"	50.0	130.	2.92	5.18	380.		.6	10	0	"
790	3-8	830A / 900A	"	48.0	124.	2.81	5.07	349.		.6	10	0	"
791	3-8	745P / 810P	Turner	49.0	118.	2.64	4.99	311.		.6	10	0	"
792	3-9	820A / 845A	"	49.0	116.	2.63	4.99	305.		.6	10	0	"
793	3-10	915A / 945A	"	50.0	128.	2.74	5.07	351.		.6	11	0	"
794	3-11	820A / 845A	"	47.0	108.	2.42	4.71	261.		.6	10	0	"
795	3-13	820A / 850A	"	54.0	182.	4.33	5.96	788.		.6	11	0	"
796	3-15	835A / 855A	Turner	52.0	174.	4.16	5.92	723.		.6	11	-.01	FC 23
797	3-15	230P / 300P	Robertson	55.0	190.	4.43	6.12	842.		.6	11	0	"
798	3-17	910A / 930P	Turner	48.0	117.	2.46	4.93	288.		.6	10	-.01	"
799	3-18	715A / 735A	"	46.0	91.8	1.76	4.37	162.	Surf.	.6	10	0	"
800	3-22	405P / 425P	"	56.0	106.	0.94	3.94	99.6		.6	12	0	FC 5
801	3-23	1120A / 1140A	"	54.0	188.	4.23	6.06	795.		.6	11	-.15	"
802	3-24	305P / 325P	"	49.0	35.6	3.12	3.99	111.		.6	11	0	"
803	3-25	255P / 315P	"	43.0	22.0	3.46	-	76.2	Surf.	.6	15	0	"
804	3-27	230P / 250P	"	Two Channels			5.04	87.9		.6	16	0	"
805	3-29	300P / 330P	"	67.0	25.7	3.84	6.00	98.8		.6	12	0	"
806	4-5	115P / 135P	"	Three Channels			7.14	65.5		.6	10	0	"
807	4-6	845A / 905A	"	Two Channels			7.56	124.		.6	12	0	"
808	4-9	1125A / 1135A	"	74.0	22.1	3.52	7.94	77.8		.6	8	0	"
809	4-13	1255P / 115P	"	55.0	19.2	3.74	7.60	71.9		.6	14	0	"
810	4-16	110P / 125P	Turner	50.0	16.5	3.86	8.83	63.7		.6	10	0	FC 5
811	4-20	1056A / 1107A	Blakely	Three Channels			9.30	61.9		.6	11	0	FC 44
812	4-23	110P / 125P	Blakely & Turner	"	"		9.64	55.4		.6	10	0	FC 5
813	4-26	120P / 135P	Turner	"	"			51.0		.6	9	0	"
814	4-30	200P / 205P	Turner	5.0	0.46	1.09		0.50		.6	5	0	"
815	5-15	1120A / 1122A	Blakely	3.0	0.48	1.13		0.54		.6	2	0	FC 44
816	6-4	1120A / 1123A	"	3.2	0.43	1.00		0.43		.6	4	0	"
817	6-11	1130A / 1132A	Mellen	2.6	0.33	0.88		0.29		.6	2	0	FC 26
818	7-2	1245P / 1253P	Blakely	5.0	1.75	2.86		5.0		.6	7		FC 44
819	7-9	255P / 305P	"	6.0	2.33	1.89		4.4		.6	7		"
820	7-16	140P / 147P	"	6.5	2.29	2.31		5.3		.6	7		"
821	7-17	300P / 320P	Ealy	11.0	6.23	3.60		22.4		.6	10		FC 23
822	7-20	112P / 126P	Robertson	25.0	8.95	3.89		34.8		.6	13		"
823	7-22	1242P / 1255P	Blakely	25.0	9.22	2.94		27.1		.6	10		FC 44
824	7-29	315P / 330P	Robertson	20.5	9.79	3.88		38.0		.6	11		FC 23
825	7-30	1250P / 105P	Blakely	24.0	10.4	3.76		39.1		.6	13		FC 44
826	8-6	1000A / 1015A	"	22.9	10.0	4.10		41.2		.6	11		"
827	8-13	928A / 941A	"	16.5	9.14	3.87		35.4		.6	11		"
828	8-20	1127A / 1136A	"	11.0	10.5	3.09		32.4		.6	8		"
829	8-27	817A / 827A	"	16.5	7.77	3.76		29.2		.6	10		"
830	9-2	907A / 927A	Robertson & Ealy	30.0	12.2	3.34		40.7		.6	15		FC 23
831	9-3	918A / 926A	Blakely	20.5	10.0	4.34		43.4		.6	8		FC 44
832	9-7	315P / 330P	Robertson & Ealy	21.0	8.65	4.22		32.6		.6	11		FC 23
833	9-8	700A / 730A	Robertson	27.0	8.70	2.90		25.2		.6	14		"
834	9-10	1122A / 1134A	Blakely	13.0	10.8	1.94		21.0		.6	9		FC 44
835	9-13	145P / 215P	Robertson	21.5	9.15	3.43		31.4		.6	11		FC 23
836	9-14	1000A / 1020A	"	14.5	11.4	3.95		45.0		.6	8		"
837	9-17	1028A / 1036A	Blakely	18.0	13.4	2.83		37.9		.6	9		FC 44
838	9-24	145P / 152P	"	7.0	2.14	1.87		4.0		.6	5		"

F. C. Dist. Form 52 5-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F168R

Daily discharge, in second-feet of BIG TUJUNGA CREEK Below Big Tujunga Dam No. 1, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17.1	0.2	0.2	0.2	174	661	76	0.2	0.2	5.0	38	26
2	16.7	0.2	0.2	0.2	76	327	74	0.2	0.2	5.0	38	38
3	16.3	0.2	0.2	0.2	29	521	71	0.2	0.2	5.0	37	41
4	15.8	0.2	0.2	0.2	44	1110	70	0.2	0.2	4.9	37	40
5	15.4	0.2	0.2	1.6	0.5	746	79	0.2	0.2	4.8	36	39
6	14.9	0.2	0.2	3.4	0.5	585	102	0.2	0.2	4.7	36	38
7	14.5	0.2	0.2	3.4	0.5	394	84	0.2	0.2	4.6	36	32
8	13.4	0.2	0.2	3.4	0.5	348	81	0.2	0.2	4.5	36	25
9	17.1	0.2	0.2	3.4	37	255	78	0.2	0.2	4.4	35	23
10	20.3	0.2	0.2	3.4	62	323	77	0.2	0.2	4.6	35	21
11	16.3	0.2	0.2	5.2	48	232	76	0.2	0.2	4.7	35	20
12	4.9	0.2	0.2	3.4	50	213	74	0.2	2.0	4.9	35	20
13	3.0	0.2	0.2	3.4	32	458	72	0.2	0.2	5.0	35	28
14	3.0	0.2	0.2	3.4	49	179	69	0.2	0.2	5.1	35	39
15	2.5	0.2	0.2	3.4	45	587	66	0.2	0.2	5.2	34	39
16	2.5	0.2	0.2	3.4	47	226	64	0.2	0.2	12	34	34
17	3.1	0.2	0.2	3.4	53	139	64	0.2	0.2	24	34	21
18	2.6	0.2	0.2	3.4	41	151	63	0.2	0.2	24	33	5.0
19	2.6	0.2	0.2	3.4	31	134	62	0.2	3.5	21	33	4.0
20	2.6	0.2	0.2	3.4	28	124	62	0.2	5.5	23	32	4.0
21	5.8	0.2	0.2	2.3	70	85	59	0.2	5.5	29	31	3.8
22	6.9	0.2	0.2	826	401	119	57	0.2	5.5	29	31	3.8
23	4.0	0.2	0.2	6640	610	203	55	0.2	5.5	29	30	3.8
24	12.8	0.2	0.2	1410	197	102	53	0.2	5.5	29	30	3.8
25	15.3	0.2	0.2	289	44	96	52	0.2	5.5	29	29	11.6
26	8.0	0.2	0.2	166	189	93	51	0.2	5.5	29	29	9.2
27	0.6	0.2	0.2	161	193	90	50	0.2	5.4	29	29	5.1
28	0.6	0.2	0.2	115	716	87	48	0.2	5.3	29	28	4.6
29	7.6	0.2	0.2	138		84	16.7	0.2	5.2	34	28	4.4
30	3.2	0.2	0.2	158		82	0.5	0.2	5.1	39	27	3.8
31	0.2		0.2	219		78		0.2		39	27	
	2695	6.0	6.2	101795	3268.0	8832	1906.2	6.2	684	520.4	1023	590.9
MEAN	8.69	0.20	0.20	328	117	285	63.5	0.20	3.28	16.8	33.0	19.7
ACRE-FEET	535	12	12	20190	6480	17520	3780	12	136	1030	2030	1170

Remarks: Poor Records - see Accuracy

YEAR OR PERIOD MEAN 73.1 ACRE-FEET 52910

STATION F213R

BIG TUJUNGA CREEK Above Gold Canyon

LOCATION:

On the left (south) bank 2 miles above mouth of Canyon, 7 miles below Big Tujunga Dam No. 1 and about 4 miles northeast of Sunland. The former U.S.G.S. station U11R was about 1000 feet upstream at the location of a partly constructed and abandoned dam.

DRAINAGE AREA:

106 square miles.

CHANNEL AND CONTROL:

Channel composed of gravel and boulders. Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 90 feet below station.

RECORDER:

Installed in 1932 over a 36 inch corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1941 to September 30, 1943.

REGULATION:

Flow from 81.4 square miles regulated by Big Tujunga Dam No. 1.
Flow from 24.6 square miles unregulated.

DIVERSIONS:

There are several small irrigation diversions above the station.

RECORDS AVAILABLE:

October 1, 1932 to September 30, 1943.
(Records at U.S.G.S. Station, Tujunga Creek, near Sunland, are available from October 1, 1916 to September 30, 1932 in Water Supply Papers.)

EXTREMES OF DISCHARGE:

1942-1943
Maximum 23,000 second-feet, January 23.
Minimum 1.2 second-feet, November 10 to November 15.

1932-1943
Maximum 50000 second-feet, estimated, March 2, 1938.
Minimum 0.8 second-foot November 18, 1936.

ACCURACY:

Fair.
Due to loss of communication by sanding and undetermined shift of control.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F213-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

XXX above Gold Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
608	10-1	425P / 440P	Turner	16.0	8.70	2.04	7.56	17.8		.6	7	0	FC 5
609	10-8	255P / 310P	"	22.0	8.48	1.64	7.53	13.9		.6	11	0	"
610	10-15	430P / 445P	"	11.0	3.03	1.39	7.19	4.2		.6	8	0	"
611	10-22	935A / 945A	"	13.5	5.29	1.47	7.26	7.8		.6	8	0	"
612	10-29	405P / 420P	"	18.0	6.42	1.95	7.40	12.5		.6	10	0	"
613	11-5	420P / 430P	"	6.0	1.87	0.91	7.15	1.7		.6	6	0	"
614	11-12	255P / 305P	"	6.0	1.30	0.92	7.14	1.2		.6	7	0	"
615	11-19	420P / 430P	"	5.4	2.37	1.10	7.19	2.6		.6	6	0	"
616	11-25	305P / 315P	"	6.0	1.42	1.00	7.15	1.4		.6	7	0	"
617	12-3	550P / 600P	"	6.0	1.52	0.99	7.15	1.5		.6	7	0	"
618	12-9	1155A / 1205P	"	6.7	1.63	1.04	7.17	1.7		.6	7	0	"
619	12-17	445P / 455P	"	6.1	1.55	1.03	7.17	1.6		.6	7	0	"
620	12-23	340P / 350P	"	6.4	1.87	1.02	7.17	1.9		.6	8	0	"
621	12-30	845A / 855A	Turner	7.0	2.20	1.18	7.19	2.6		.6	8	0	FC 5
622	1-8	320P / 330P	"	7.0	2.57	1.17	7.24	3.0		.6	8	0	"
623	1-15	850A / 905A	"	12.6	4.24	1.39	7.28	5.9		.6	9	0	"
624	1-21	430P / 440P	"	13.0	4.65	1.46	7.30	6.8		.6	8	0	"
625	1-21	905P / 915P	"	12.5	4.68	1.62	7.31	7.6		.6	8	+0.01	"
626	1-22	230A / 245A	"	50.0	108.	8.65	9.75	934.		.6	7	+0.10	"
627	1-22	323A / 343A	"	55.0	118.	7.70	9.72	909.		.6	8	-0.05	"
628	1-22	840A / 855A	"	50.0	70.7	7.27	9.42	514.		.6	9	-0.08	"
629	1-22	220P / 330P	"	68.0	190.	8.53	11.40	1620.		.6	7	+0.42	"
630	1-22	630P / 700P	Turner	90.0	287.	9.8	12.53	2810.			9	+0.30	Floats
631	1-23	800A / 900A	"	155.	468.	14.7	12.9	6890.		.6	9	-0.20	FC 5
632	1-24	930A / 950A	"	88.	130.	9.46	12.07	1230.		.6	10	+0.40	"
633	1-26	1130A / 1145A	Waddicor & Blakely	Two Channels			13.32	399.		.6	11	-	FC 24
634	1-29	155P / 215P	Turner	46.0	37.2	5.89	12.43	219.		.6	10	0.0	FC 23
635	2-4	1600P / 1615P	"	32.0	20.6	3.34	-	69.1		.6	7	-	FC 5
636	2-9	1143A / 1155A	Bollinger	19.0	9.98	3.39	9.27	33.8		.6	11	0	FC 6
637	2-11	750A / 805A	Turner	31.0	18.4	4.07	9.80	74.9		.6	10	0	FC 5
638	2-13	845A / 900A	"	32.0	13.9	2.98	9.32	41.4		.6	10	0	"
639	2-19	420P / 435P	"	20.0	14.6	3.30	9.40	48.2		.6	9	0	"
640	2-22	1045A / 1109A	Luce & Pardieck	34.0	53.9	8.09	11.12	436.		.6	7	+0.16	FC 41
641	2-22	1145A / 1158A	"	35.0	59.5	7.76	11.28	462.		.6	7	-0.01	"
642	2-22	310P / 320P	"	39.0	65.9	8.52	11.42	561.		.6	8	+0.03	"
643	2-22	448P / 510P	"	45.0	81.7	9.79	11.45	800.		.6	9	-0.10 +0.06	"
644	2-26	215P / 235P	Turner	70.	63.7	5.65	11.11	360.		.6	13	0.0	FC 5
645	3-4	113P / 141P	Luce & Blakely	53.0	129.	11.1	10.20	1430.		.6	11	0.05	FC 41
646	3-6	325P / 350P	Turner	53.0	137.	6.61	10.16	905.		.6	11	0	FC 5
647	3-11	205P / 225P	"	50.0	98.5	3.80	9.35	374.		.6	11	0	"
648	3-17	135P / 157P	Blakely	49.0	89.4	2.46	9.00	220.		.6	12	0	FC 44
649	3-24	1205P / 1225P	Turner	57.0	75.0	2.21	8.72	166.		.6	14	-	FC 5
650	3-29	740A / 800A	Turner	49.0	50.1	2.81	8.59	141.		.6	15	0	FC 5
651	4-5	420P / 440P	"	40.0	29.6	3.61	8.56	107.		.6	12	0	"
652	4-8	340P / 410P	"	49.0	40.1	3.57	8.68	143.		.6	20	0	"
653	4-13	335P / 350P	"	42.0	30.0	3.29	-	98.8		.6	12	-	"
654	4-16	325P / 345P	"	40.	28.1	3.26	8.52	91.5		.6	12	0	"
655	4-20	245P / 255P	Blakely	30.5	22.5	3.72	8.65	83.6		.6	10	0.	FC 44
656	4-23	430P / 450P	Turner	40.5	21.4	3.34	8.70	71.4		.6	13	0.	FC 5
657	4-26	545P / 605P	"	40.8	22.0	3.29	8.71	72.4		.6	11	0.	"
658	4-30	520P / 535P	"	23.0	7.47	2.26	8.44	16.9		.6	13	0.	"
659	5-4	408P / 418P	Blakely	22.5	7.73	2.34	8.54	18.1		.6	8	0.	FC 44
660	5-9	1210P / 1221P	"	21.0	6.93	2.12	8.33	14.7		.6	8	-	"
661	5-15	250P / 300P	"	23.0	8.02	1.77	8.31	14.2		.6	8	-	"
662	5-22	550P / 605P	Turner	18.0	5.33	1.69	8.18	9.0		.6	9	-	FC 5
663	5-29	518P / 530P	"	18.5	5.49	1.60	8.17	8.8		.6	10	0	"
664	6-4	343P / 351P	Blakely	22.0	6.17	1.54	8.20	9.5		.6	8	0	FC 44
665	6-11	130P / 145P	Mellen	23.5	5.28	1.40	8.24	7.4		.6	7	0	FC 28
666	6-18	250P / 305P	"	15.0	4.43	1.31	8.16	5.8		.6	7	0	"
667	6-26	520P / 525P	Blakely	17.0	5.81	1.69	8.20	9.8		.6	6	0	FC 44
668	7-2	305P / 312P	"	18.7	5.61	1.73	7.5+	9.7		.6	7	0	"
669	7-6	313P / 321P	Blakely & Turner	19.5	5.02	1.67	7.61	8.4		.6	8	0	"
670	7-16	315P / 323P	Blakely	19.5	5.55	1.57	7.56	8.7		.6	7	0	"
671	7-23	315P / 328P	"	30.0	12.6	2.48	7.78	31.2		.6	10	0	"
672	7-29	1205P / 1215P	Blakely	32.5	11.4	2.62	7.83	29.9		.6	10	0	FC 44
673	8-6	402P / 412P	"	31.5	13.1	2.96	7.88	38.8		.6	10	0	"
674	8-14	958A / 1008A	"	32.0	13.9	2.60	7.93	36.1		.6	11	0	"
675	8-20	427P / 438P	"	33.0	12.8	2.70	7.95	34.5		.6	11	0	"
676	8-27	635A / 645A	S. Blakely & M. Blakely	33.0	11.1	2.71	7.98	30.1		.6	10	0	"
677	9-3	357P / 408P	Blakely	34.0	16.1	3.24	8.07	52.2		.6	11	0	"
678	9-10	325P / 339P	"	19.5	7.64	3.12	7.93	23.8		.6	10	0	"
679	9-17	308P / 320P	"	34.0	13.8	3.20	8.15	44.1		.6	10	0	"
680	9-24	412P / 421P	"	13.0	2.78	2.09	7.86	5.8		.6	8	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F213R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Gold Canyon, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	18	b 2.5	1.5	2.5	b315	770 v	v110	16	9	b 9.5	44	31
2	19	b 2.2	1.5	2.5	b190	375 v	v105	19	8.5	b 9.5	44	46
3	18	b 2.0	1.5	2.5	b120	655 v	v100	21	9	b 9	43	53
4	17	b 1.8	1.8	2.5	b125	1490 v	v100	18	9.5	b 9	42	51
5	16	1.8	1.8	2.5	b 70	1170 v	v115	18	8.5	b 9	40	53
6	16	1.8	1.5	3.1	b 60	950 v	v140	18	8.5	b 8.5	39	53
7	14	2.0	1.8	3.1	b 60	683	v115	17	8.5	8.5	42	45
8	14	1.8	1.8	3.1	b 70	600	v120	16	8	8.5	39	23
9	18	1.5	1.8	3.4	b 70	524	v110	14	8	9.5	36	23
10	23	1.2	1.8	4.6	b110	503	v105	13	8	9.5	35	23
11	22	1.2	1.6	7	b 90	383	v105	12	7.5	9.5	37	22
12	b 13	1.2	1.8	4.3	92	371	v105	13	8	10	37	22
13	b 6.5	1.2	1.8	4.3	61	v575	v 95	14	7.5	9.5	36	26
14	b 4.9	1.2	1.5	4.9	80	v280	v 95	14	7.5	9.5	36	35
15	4.3	1.2	1.5	6.5	67	v709	v 90	14	7	9	34	30
16	4.6	1.5	1.5	5.5	67	v315	v 90	14	6.5	12	32	28
17	4.6	1.5	1.5	5	74	v215	90	14	6.5	30	35	25
18	4.3	1.5	1.5	6	59	v230	88	12	6.5	31	37	9
19	4.3	2.5	1.5	6.5	45	v190	84	11	7	28	37	11
20	4.3	2.2	1.8	6.5	45	v190	82	10	8	25	35	8
21	5	2.0	1.8	7	91	v145	77	10	9	30	33	8
22	8	1.8	2.0	1740	481	v180	72	10	9	30	33	8
23	7	1.5	2.0	8000 v	v840	v200	72	10	10	31	33	7
24	9	1.5	2.5	1750 v	v520	v155	77	9	9.5	31	32	6.5
25	15	1.5	4.6	b500	v250	v140	77	8.5	9.5	32	32	14
26	12	1.5	3.4	b350	367	v140	74	8.5	10	32	31	10
27	5	1.5	2.8	b280	v340	v135	67	[illegible]	10	31	30	8.5
28	4.9	1.5	2.8	b200	v840	v125	69	[illegible]	b 10	32	30	5.5
29	8	1.5	2.8	b220		v120	47	8.5	b 10	39	31	5.5
30	7	1.5	2.5	b260		v120	17	[illegible]	b 9.5	43	31	6.0
31	b 3.1		2.5	b360		v115		9.5		43	31	
	329.8	49.6	62.7	13753	5599	12753	2693	397	254	637	1107	696
MEAN	10.6	1.65	2.02	444.	200.	411.	89.8	12.8	8.47	20.5	35.7	23.2
ACRE-FEET	654.	98.	124.	27260.	11110.	25280.	5340.	787.	504.	1260.	2200.	1380.

Remarks:

YEAR OR PERIOD — MEAN 105.
ACRE FEET 76020.

STATION F20B-R

TUJUNGA WASH at Glen Oaks Boulevard

LOCATION:

On the downstream side of the Glen Oaks Boulevard (formerly Remsen Avenue) bridge approximately 3 miles southeast of San Fernando and ½ mile below Hansen Dam.

DRAINAGE AREA:

148 square miles.

CHANNEL AND CONTROL:

Channel is wide and composed of sand, gravel, and boulders, boulders predominating. No artificial control.

DISCHARGE MEASUREMENT:

Low flows measured by wading.
High flows measured from cable car above station.

RECORDER:

Installed April 29, 1932 at Station F20-R at Stonehurst Avenue. Washed out during the March 2, 1938 flood. Reinstalled at Station F20B-R at Glen Oaks Boulevard, formerly, Remsen Avenue, July 25, 1940 over a 21 inch corrugated iron pipe stilling well. H.C.F. recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow regulated by Hansen Dam. Inflow to Hansen Dam partially regulated by Big Tujunga Dam No. 1 and by Haines Canyon Debris Basin.

DIVERSIONS:

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

RECORDS AVAILABLE:

January 1931 to April 1932 random measurements available. Recorder records from April 29, 1932 to December 31, 1933. No communication from December 31, 1933 to March 9, 1934, random measurements available. Recorder records from March 9, 1934 to March 2, 1938. From March 2, 1938 to July 25, 1940 random measurements available. Recorder records from July 25, 1940 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 1780 second-feet, January 23.
Minimum no flow most of year.
1932-1943 at Station F20R and F20B-R.
Maximum 54000 second-feet, estimated, March 2, 1938.
Minimum no flow part of each year.

ACCURACY:

Fair due to undetermined channel shift. Low flows occasionally estimated due to sand obstructed communication.

OPERATION:

Located and constructed by the Los Angeles County Flood Control District. Operated in co-operation with the United States Engineer Dept. and U.S.G.S. Water Resources Branch.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F20B-R

DISCHARGE MEASUREMENTS OF TUJUNGA WASH

AT OR NEAR Glen Oaks Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
271	1-23	120P 140P	U.S.G.S.	32.5	43.4	1.50	1.54	64.8		.6	15	0	2107
272	1-24	1216P 118P	U.S.E.D. #1	70.0	246.	6.47	3.86	1590.		.6	8	-.02	8
273	1-24	122P 200P	U.S.E.D. #2	70.0	243.	8.16	3.83	1980.		.6	8	-.02	"
274	1-25	1233P 106P	U.S.E.D. #3	68.0	231.	7.02	3.25	1620.		.6	8	0	"
275	1-25	112P 142P	U.S.E.D. #4	68.0	228.	7.15	3.25	1630.		.6	8	0	"
276	1-26	938A 958A	U.S.E.D. #5	48.5	58.4	1.02	0.23	59.4		.6	12	0	"
277	1-26	1005A 1015A	U.S.E.D. #6	56.0	39.0	1.26	0.23	49.3		.6	12	0	"
278	1-26	203P 244P	U.S.E.D. #7	68.0	229.	6.63	3.24	1520.		.6	14	-.01	"
279	1-27	1020A 1035A	U.S.E.D. #8	43.5	27.0	1.60	0.21	43.1		.6	9	0	"
280	1-28	1215P 1245P	U.S.G.S.	40.0	31.0	1.49	-	46.2		.6	21	0	2107
281	1-29	914A 942A	U.S.E.D. #9	61.0	125.	4.10	1.58	512.		.6	13	+.01	8
282	1-29	955A 1022A	U.S.E.D. #10	67.0	183.	5.28	2.29	967.		.6	13	+.77	"
283	1-29	1110A 1140A	U.S.E.D. #11	67.0	192.	5.52	2.58	1060.		.6	13	0	"
284	1-29	1215P 1245P	U.S.E.D. #12	67.0	198.	5.97	2.78	1180.		.6	13	0	"
285	1-29	100P 130P	U.S.E.D. #13	68.0	205.	6.15	2.88	1260.		.6	13	0	"
286	1-29	147P 219P	U.S.E.D. #14	68.0	209.	6.36	3.02	1330.		.6	13	0	"
287	1-29	245P 320P	U.S.E.D. #15	68.0	215.	6.42	3.02	1380.		.6	13	0	"
288	1-29	541P 630P	U.S.E.D. #16	66.5	194.	5.98	2.82	1160.		.6	14	0	"
289	1-29	645P 750P	U.S.E.D. #17	67.5	219.	6.62	3.14	1450.		.6	14	0	"
290	1-29	810P 900P	U.S.E.D. #18	66.5	226.	6.82	3.23	1540.		.6	14	+.02 -.02	"
291	1-30	1120A 1200N	U.S.E.D. #19	68.0	207.	6.28	2.97	1300.		.6	13	0	"
292	1-30	200P 245P	U.S.E.D. #20	66.0	169.	5.09	2.51	860.		.6	13	-.71	"
293	1-31	1215P 1245P	U.S.E.D. #21	65.0	170.	5.79	2.56	986.		.6	13	0	"
294	1-31	120P 148P	U.S.E.D. #22	65.0	160.	5.41	2.37	865.		.6	13	0	"
295	1-31	245P 312P	U.S.E.D. #23	63.0	135.	4.76	1.99	643.		.6	13	0	8
296	1-31	400P 425P	U.S.E.D. #24	66.0	195.	5.94	2.89	1160.		.6	13	0	"
297	2-1	100P 200P	U.S.G.S.	64.0	204.	6.02	2.70	1230.		.8	13	-.01	2107
298	2-2	1025A 1100A	U.S.E.D. #25	64.0	188.	6.07	2.82	1140.		.6	13	0	8
299	2-2	1105A 1145A	U.S.E.D. #26	64.0	174.	5.71	2.65	992.		.6	13	0	"
300	2-2	1240P 115P	U.S.E.D. #27	64.0	172.	5.47	2.48	940.		.6	13	0	"
301	2-2	140P 200P	U.S.E.D. #28	65.0	200.	6.45	2.90	1290.		.6	13	+.35	"
302	2-2	210P 245P	U.S.E.D. #29	65.0	185.	5.88	2.81	1090.		.6	13	-.20	"
303	2-8	1118A 1143A	U.S.E.D. #30	58.5	80.3	3.19	1.06	256.		.6	12	0	4
304	2-10	1225P 1247P	U.S.E.D. #31	34.0	62.2	1.18	0.33	73.7		.6	12	0	35636
305	2-13	225P 255P	U.S.E.D. #32	35.5	38.4	1.83	0.29	70.4		.6	13	0	8
306	2-17	925A 945A	U.S.E.D. #33	45.5	52.9	1.78	0.44	94.0		.6	11	0	4
307	2-22	1000A 1015A	U.S.E.D. #34	27.0	23.8	1.29	0.08	30.7		.6	11	0	"
308	2-22	118P 140P	U.S.E.D. #35	35.0	56.8	1.75	0.55	99.5		.6	13	0	"
309	2-22	240P 305P	U.S.G.S.	44.0	43.8	2.49	0.58	109.		.6	20	0	953
310	2-23	1000A 1030A	U.S.E.D. #36	62.0	120.	4.36	1.67	523.		.6	13	0	"
311	2-23	1245P 110P	U.S.E.D. #37	65.0	179.	5.51	2.58	987.		.6	13	0	"
312	2-24	1247P 119P	U.S.E.D. #38	70.0	186.	5.32	2.52	991.		.6	13	0	"
313	2-25	1015A 1034A	U.S.E.D. #39	60.0	102.	3.60	1.41	367.		.6	13	-.05	4
314	3-3	139P 153P	U.S.E.D. #40	33.0	52.7	1.57	0.52	82.6		.6	11	0	"
315	3-5	1136A 1200N	U.S.E.D. #41	65.0	171.	5.45	2.61	932.		.6	13	0	"
316	3-5	116P 127P	U.S.E.D. #42	64.0	175.	5.64	2.62	987.		.6	13	0	"
317	3-9	1235P 1245P	Luce	57.5	70.6	2.47	0.72	174.		.6	13	0	FC 39
318	3-11	1254P 118P	U.S.E.D. #43	65.0	176.	5.85	2.58	1030.		.6	13	0	35661
319	3-13	1155A 1220P	U.S.E.D. #44	63.0	150.	5.32	2.30	798.		.6	13	-.02	35661
320	3-17	1055A 1112A	U.S.E.D. #45	31.0	44.4	1.25	0.28	55.5		.6	12	0	"
321	3-18	251P 303P	Luce & Pardieck	32.5	34.7	1.84	0.31	64.0		.6	11	0	FC 39
322	3-19	105P 123P	U.S.E.D. #46	32.0	48.6	1.30	0.33	63.1		.6	11	0	35661
323	3-24	955A 1015A	U.S.E.D. #47	34.0	51.0	1.32	0.38	67.6		.6	11	0	"
324	3-25	1115A 1133A	Luce	28.0	37.0	2.30	0.40	85.0		.6	9	0	FC 39
325	4-2	515P 535P	"	52.0	56.0	2.29	0.62	127.		.6	13	0	"
326	4-5	158P 212P	U.S.E.D. #48	36.0	56.0	1.85	0.62	104.		.6	12	0	35636
327	4-9	915A 930A	Luce	52.0	55.3	2.33	0.61	129.		.6	13	0	FC 39
328	4-9	1042A 1107A	U.S.E.D. #49	36.0	58.2	1.98	0.60	115.		.6	15	0	35633
329	4-12	925A 955A	U.S.G.S.	41.0	43.8	2.17	0.49	95.		.6	20	0	953
330	4-13	315P 330P	U.S.E.D. #50	57.0	48.8	2.09	0.50	102.		.6	10	0	35633
331	4-15	1015A 1035A	U.S.E.D. #51	37.0	62.4	1.40	0.49	87.1		.6	12	0	"
332	4-16	125P 145P	Luce	51.0	51.6	2.09	0.49	109.		.6	13	0	FC 39
333	4-21	925A 951A	U.S.E.D. #52	37.0	63.7	1.57	0.50	100.		.6	12	0	35633
334	4-24	835A 850A	Luce	51.0	51.3	2.11	0.50	108.		.6	13	0	FC 39
335	4-28	1005A 1025A	U.S.E.D. #53	36.0	61.5	1.41	0.48	86.5		.6	12	0	35633
336	4-29	730P 742P	Luce	29.0	50.72	1.44	0.17	44.3		.6	13	0	FC 39
337	5-5	940A 957A	U.S.E.D. #54	33.0	44.8	0.86	0.16	38.3		.6	11	0	35633
338	5-7	320P 330P	Luce	Two Channels			0.15	41.9		.6		0	FC 39
339	5-13	900A 912A	"	"	"		0.17	43.9		.6		0	"
340	5-19	1040A 1050A	U.S.E.D. #55	29.0	36.8	0.94	0.12	34.6		.6	8	0	35633
341	5-20	1245P 105P	Turner	40.0	30.8	1.20	0.08	37.1		.6	10	0	FC 5
342	5-26	923A 939A	U.S.E.D. #56	33.5	46.9	0.68	0.09	32.0		.6	11	0	35633
343	5-27	305P 315P	Luce	24.0	23.2	1.41	0.08	32.7		.6	13	0	FC 39
344	6-1	415P 440P	U.S.G.S.	33.5	23.4	1.30	0.08	30.4		.6	21	0	953
345	6-3	1230P 1248P	U.S.E.D. #57	35.0	47.0	0.64	0.07	29.9		.6	10	0	35633
346	6-24	501P 516P	Luce	21.0	19.7	1.42	0.06	27.9		.6	11	0	FC 39
347	7-2	1140A 1150A	"	23.0	19.4	1.46	0.09	28.4		.6	12	0	"
348	7-3	1045A 1107A	U.S.E.D. #58	21.7	16.6	1.01	-.01	16.6		.6	12	0	35616
349	7-9	320P 330P	Luce	20.5	10.6	1.12	-.15	11.9		.6	9	0	FC 39
350	7-13	230P 255P	U.S.G.S.	22.2	9.68	1.06	-.15	10.3		.6	22	0	953
351	7-15	330P 340P	U.S.E.D. #59				-.15	12.1					
352	7-16	1050A 1100A	U.S.E.D. #60				-.16	11.0					
353	7-16	1230P 1240P	Luce	21.5	13.3	0.97	-.16	12.9		.6	8	0	FC 39
354	7-23	1110A 1130A	"	25.5	25.4	1.63	0.17	41.5		.6	12	+.06	"
355	7-24	105P 120P	U.S.E.D. #61				0.15	42.5					
356	7-29	955A 1015A	Turner	38.5	20.7	1.60	0.13	33.1		.6	13	0	FC 5
357	7-29	1237P 1250P	U.S.E.D. #62				0.13	30.1					
358	8-6	1245P 100P	Luce	25.0	21.4	1.76	0.22	37.6		.6	13	0	FC 39
359	8-12	355P 420P	U.S.G.S.	23.8	22.7	1.55	0.22	35.2		.6	24	0	1236
360	8-13	1130A 1145A	U.S.E.D. #63				0.21	35.1					
361	8-13	235P 245P	Luce	24.0	23.9	1.52	0.20	36.3		.6	12	0	FC 39
362	8-19	1200N 1215P	"	23.0	23.8	1.42	0.20	33.9		.6	12	0	"
363	8-25	215P 229P	U.S.E.D. #64				0.15	30.0					
364	8-27	725P 740P	Luce	24.0	20.3	1.18	0.09	24.0		.6	12	0	FC 39
365	9-3	630P 645P	"	23.0	24.6	1.48	0.22	36.4		.6	12	0	"
366	9-9		U.S.E.D. #65	17.0	18.0	1.34	0.03	24.2		.6	9	0	
367	9-10	700P 715P	Luce	22.8	18.5	1.26	-.04	23.4		.6	12	0	FC 39
368	9-17	140P 155P	"	22.5	21.4	1.32	0.06	28.3		.6	12	0	"
369	9-18		U.S.E.D. #66	15.5	13.0	0.94	-.17	12.2		.6	10	0	
370	9-23	630P 645P	Luce	18.0	8.21	0.78	-.38	6.4		.6	9	0	FC 39

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F105-R

Daily discharge, in second-feet of TUJUNGA WASH At Glen Oaks Boulevard for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	830	515	106	40	31	47	43	23
2	0	0	0	0	876	423	125	39	30	30	41	25
3	0	0	0	0	633	213	125	38	30	d 17	42	38
4	0	0	0	0	303	755	112	39	30	d 16	40	36
5	0	0	0	0	0	1020	96	38	30	d 15	39	35
6	0	0	0	0	63	1020	125	40	29	d 14	36	33
7	0	0	0	0	221	965	125	42	28	d 13	35	31
8	0	0	0	0	291	142	122	43	28	d 12	35	29
9	0	0	0	0	320	177	120	45	29	d 12	35	22
10	0	0	0	0	87	907	112	45	29	d 12	35	20
11	0	0	0	0	64	984	96	27	29	d 11	35	17
12	0	0	0	0	64	972	96	33	29	d 10	35	16
13	0	0	0	0	61	791	95	44	28	d 10	35	17
14	0	0	0	0	57	a 468	96	38	27	d 11	34	29
15	0	0	0	0	57	a 283	96	33	27	d 12	34	38
16	0	0	0	0	63	a 122	96	33	27	f 12	35	35
17	0	0	0	0	59	a 59	94	33	29	18	35	28
18	0	0	0	0	60	62	94	33	20	27	34	12
19	0	0	0	0	59	65	96	32	20	29	34	6.5
20	0	0	0	0 a	31	67	98	32	20	27	33	5
21	0	0	0	0 a	31	69	98	32	22	34	33	4.2
22	0	0	0	6.5 f	86	71	99	32	26	36	33	3.9
23	0	0	0	v 602	738	73	98	34	26	36	32	3.6
24	0	0	0	v 1610	957	74	96	35	26	36	30	3.9
25	0	0	0	v 1600	434	79	96	34	26	35	28	9
26	0	0	0	a 1140	322	80	96	33	23	34	26	12
27	0	0	0	a 587	321	82	94	33	23	34	25	10
28	0	0	0	a 46	429	82	94	33	38	34	23	9
29	0	0	0	777		84	75	32	52	35	23	8.5
30	0	0	0	1050		84	40	31	50	42	23	7
31	0		0	627		84		31		44	23	
	0	0	0	8045.5	7517	10876	3011	1107	862	755	1024	566.6
MEAN	0	0	0	260.	268	351.	100	35.7	28.7	24.4	33.0	18.9
ACRE-FEET	0	0	0	15960.	14910.	21570.	5970.	2200.	1710.	1500.	2030.	1120.

Remarks:

YEAR OR PERIOD — MEAN 92.5 — ACRE-FEET 66970.

STATION F105R

TUJUNGA WASH at Magnolia Boulevard

LOCATION:

On the downstream side of Magnolia Boulevard bridge, about 2 miles west of North Hollywood.

DRAINAGE AREA:

Indeterminate due to a natural split which divides the Tujunga Wash into two branches.

CHANNEL AND CONTROL:

Channel-loose sand.
No artificial control.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed August, 1930 over an 18 inch diameter corrugated iron pipe stilling well. Washed out in March 2, 1938 flood. Reinstalled on October 17, 1938 over a 21 inch diameter corrugated iron pipe stilling well. A Stevens type L recorder was in service from October 1, 1941 to September 30, 1943.

REGULATION:

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

DIVERSIONS:

Some water diverted for irrigation, near Mouth of Big Tujunga Canyon.

RECORDS AVAILABLE:

August, 1930 to February 17, 1938 and October 17, 1938 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 1350. second-feet, January 22.
Minimum + flow part of October.
1930-1943
Maximum not determined March 2, 1938.
Minimum no flow.

ACCURACY:

Fair.
Low flows usually interpolated between measurements.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F105-R

DISCHARGE MEASUREMENTS OF TUJUNGA WASH

at Magnolia Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
23	10-29	345P / 350P	Bollinger	2.4	0.36	0.36	7.26	0.13		.6	3	0	FC 6
24	12-10	1022A / 1024A	"	1.3	0.16	0.31	7.27	0.05		.6	2	0	"
25	1-22	457A / 505A	Bollinger & Belt	10.5	8.20	0.54	7.60	4.4		.6	5	-.03	"
26	1-22	516A / 520A	"	9.0	3.50	0.63	7.57	2.2		.6	4	-.04	"
27	2-13	435P / 440P	Bollinger	2.3	0.37	1.32	7.80	0.49		.6	4	0	"
28	2-19	218P / 223P	"	2.5	0.40	0.78	7.80	0.30		.6	3	0	"
29	2-26	325P / 329P	"	3.5	0.78	0.90	7.78	0.70		.6	4	0	"
30	3-12	555P / 600P	Luce	4.0	0.75	0.83	7.93	0.62		.6	4	0	FC 39
31	3-19	1145A / 1150A	Bollinger	4.0	0.73	0.78	7.88	0.57		.6	4	0	FC 6
32	3-26	1042A / 1047A	"	4.3	0.75	0.79	7.88	0.59		.6	4	0	"
33	4-16	1255P / 102P	"	3.2	0.63	0.75	7.93	0.47		.6	4	0	"
34	4-30	1005A / 1008A	"	4.0	0.98	0.66	7.84	0.65		.6	4	0	"
35	5-7	1000A / 1005A	Turner	2.5	0.71	0.80	7.96	0.57		.6	5	0	FC 5
36	6-11	347P / 353P	Bollinger	3.5	0.94	0.63	7.98	0.59		.6	5	0	FC 6
37	9-2	925A / 931A	"	2.8	0.44	0.75	-	0.33		.6	5	-	"
38	9-30	858A / 903A	"	2.9	0.53	0.66	-	0.35		.6	4	-	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

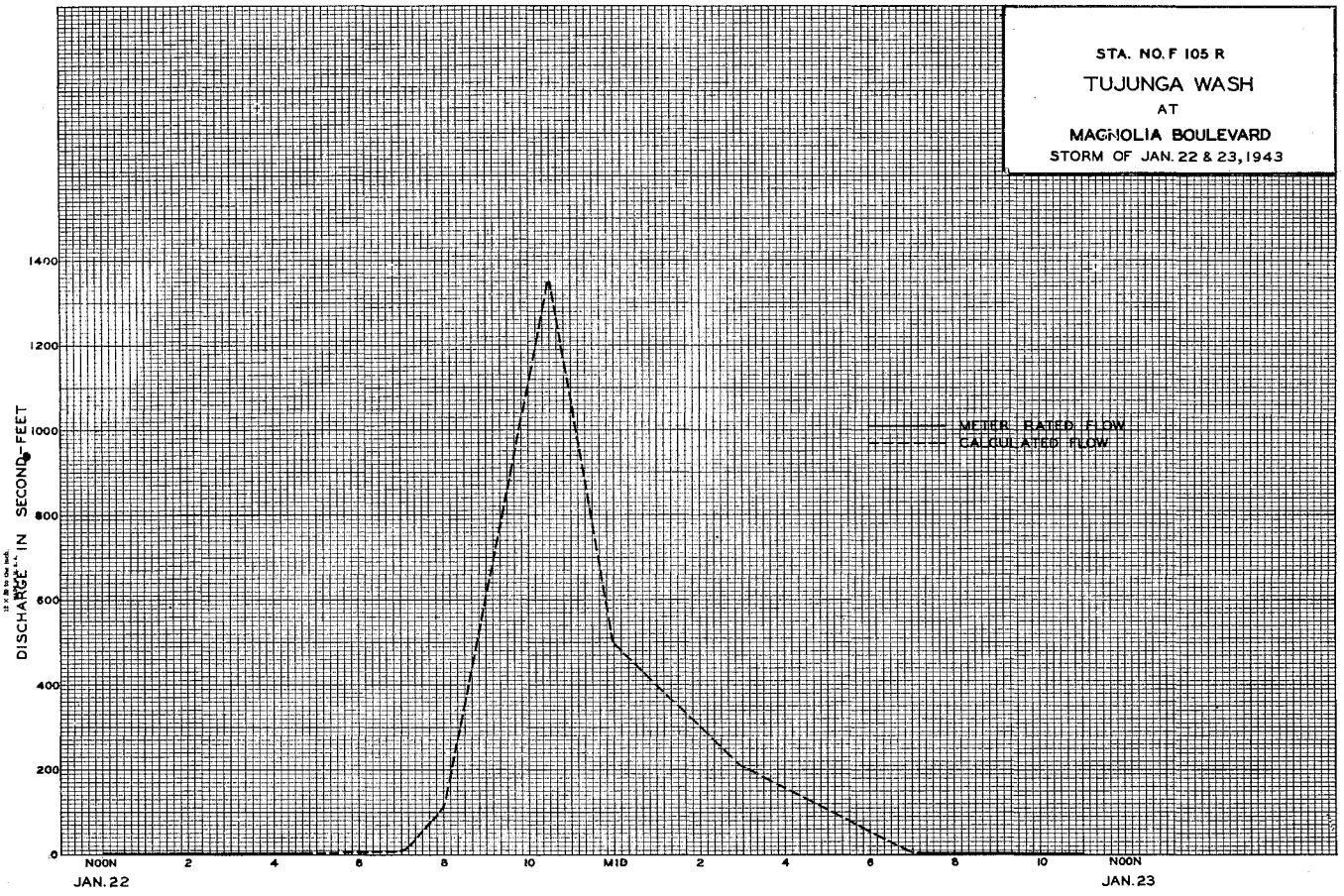
Sta. No. F 105R

Daily discharge, in second-feet of TUJUNGA WASH At Magnolia Boulevard, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.1	0.1	0.1	0.5	0.7	0.6	0.6	0.6	0.5	0.4	0.3
2	+	0.1	0.1	0.1	0.5	0.7	0.6	0.6	0.6	0.5	0.4	0.3
3	+	0.1	0.1	0.1	0.5	0.8	0.6	0.6	0.6	0.5	0.4	0.3
4	+	0.1	0.1	0.1	0.5	1.6	0.6	0.6	0.6	0.5	0.4	0.3
5	+	0.1	0.1	0.1	0.5	1	0.6	0.6	0.6	0.5	0.4	0.3
6	+	0.1	0.1	0.1	0.5	0.9	0.5	0.6	0.6	0.5	0.4	0.3
7	+	0.1	0.1	0.1	0.5	0.8	0.5	0.6	0.6	0.5	0.4	0.3
8	+	0.1	0.1	0.1	0.5	0.8	0.5	0.6	0.6	0.5	0.4	0.3
9	+	0.1	0.1	0.1	0.5	0.7	0.5	0.6	0.6	0.5	0.4	0.3
10	+	0.1	0.1	0.1	0.5	0.6	0.5	0.6	0.6	0.5	0.4	0.3
11	+	0.1	0.1	0.1	0.5	0.6	0.5	0.6	0.6	0.5	0.4	0.3
12	+	0.1	0.1	0.1	0.5	0.6	0.5	0.6	0.6	0.5	0.4	0.3
13	+	0.1	0.1	0.1	0.5	0.6	0.5	0.6	0.6	0.5	0.4	0.3
14	+	0.1	0.1	0.1	0.5	0.6	0.5	0.6	0.6	0.5	0.4	0.3
15	0.1	0.1	0.1	0.1	0.4	0.6	0.5	0.6	0.6	0.5	0.4	0.3
16	0.1	0.1	0.1	0.1	0.4	0.6	0.5	0.6	0.6	0.5	0.3	0.4
17	0.1	0.1	0.1	0.1	0.4	0.6	0.5	0.6	0.6	0.5	0.3	0.4
18	0.1	0.1	0.1	0.1	0.3	0.6	0.5	0.6	0.6	0.5	0.3	0.4
19	0.1	0.1	0.1	0.1	0.3	0.6	0.5	0.6	0.6	0.5	0.3	0.4
20	0.1	0.1	0.1	0.1	0.3	0.6	0.5	0.6	0.6	0.5	0.3	0.4
21	0.1	0.1	0.1	0.3	0.3	0.6	0.5	0.6	0.6	0.4	0.3	0.4
22	0.1	0.1	0.1	140	0.9	0.6	0.5	0.6	0.6	0.4	0.3	0.4
23	0.1	0.1	0.1	64	0.3	0.6	0.5	0.6	0.6	0.4	0.3	0.4
24	0.1	0.1	0.1	0.5	1.4	0.6	0.6	0.6	0.6	0.4	0.3	0.4
25	0.1	0.1	0.1	0.5	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.4
26	0.1	0.1	0.1	0.5	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.4
27	0.1	0.1	0.1	0.5	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.4
28	0.1	0.1	0.1	0.5	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.4
29	0.1	0.1	0.1	0.5		0.6	0.6	0.6	0.5	0.4	0.3	0.4
30	0.1	0.1	0.1	0.5		0.6	0.6	0.6	0.5	0.4	0.3	0.4
31	0.1		0.1	0.5		0.6		0.6		0.4	0.3	
	1.7	3.0	3.1	2103	14.8	35.6	16.2	18.6	17.4	14.4	10.8	10.5
MEAN	.055	0.10	0.10	6.78	0.52	1.15	0.54	0.60	0.58	0.46	0.35	0.35
ACRE-FEET	3.4	6.0	6.1	417.	29.	71.	32.	37.	35.	29.	21.	21.

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD — MEAN 0.98 — ACRE-FEET 708.



STATION F106R

TUJUNGA WASH - CENTRAL BRANCH at Magnolia Boulevard

LOCATION:

On the downstream side of Magnolia Boulevard bridge in North Hollywood.

DRAINAGE AREA:

Indeterminate due to a natural split which divides Tujunga Wash into two branches.

CHANNEL AND CONTROL:

Channel-loose sand.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading near gage.
High flows measured from highway bridge.

RECORDER:

Installed August 1930 at Station F106R at Magnolia Blvd. Removed March, 1936 due to new bridge construction. Installed temporarily March, 1936 at Station F106B-R at Chandler Blvd. Removed July, 1936. Reinstalled August, 1936 at Station F106R. Removed March 2, 1938 before bridge washed out.
Reinstalled September 25, 1939 at Station F106B-R at Chandler Blvd. Removed November 11, 1941. Reinstalled November 24, 1941 at Station F106R at Magnolia Blvd., over a 20 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

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

DIVERSION:

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

RECORDS AVAILABLE:

At Station F106B-R
March 20, 1936 to July 29, 1936.
September 25, 1939 to November 11, 1941.
At Station F106R
August, 1930 to March 18, 1936.
August 20, 1936 to March 2, 1938.
November 24, 1941 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942 - 1943
Maximum 1460. second-feet, January 24.
Minimum no flow most of year.
1930 - 1943
Maximum not determined March 2, 1938.
Minimum no flow most of year.

ACCURACY:

Poor due to extreme and undetermined channel shift.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F106-R

DISCHARGE MEASUREMENTS OF TUJUNGA WASH-CENTRAL BRANCH

AT Magnolia boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
74	1-22	321A / 336A	Bollinger & Belt	37.8	19.1	3.64	4.48	69.5		.6	9	-.02	FC 6
75	1-22	352A / 406A	" "	37.0	15.2	2.90	4.42	44.1		.6	9	-.01	"
76	1-23	903A / 910A	" "	8.8	2.61	2.03	4.17	5.3		.6	6	-.02	"
77	1-23	940P / 1020P	" "	73.5	128.	10.07	5.07	1370.		.6	10	-.10	"
78	1-24	1117A / 1145A	" "	78.4	128.	9.30	4.74	1190.		.6	12	+.02	"
79	1-25	330P / 407P	Bollinger	75.5	125.	6.91	4.90	864.		.6	9	-.06	"
80	1-31	1145A / 1215P	"	80.4	73.8	6.10	5.06	450.		.6	12	-.03	"
81	2-1	1025A / 1045A	"	74.5	58.9	5.11	4.78	301.		.6	17	+.10	"
82	2-4	121P / 128P	Bollinger & Moon	7.4	2.25	1.62	4.16	3.6		.6	6	-.02	"
83	2-23	500P / 520P	Bollinger & Belt	86.3	80.3	6.34	5.35	509.	Surf.	.6+	12	0	"
84	2-24	400P / 425P	" "	86.2	84.6	5.48	5.14	464.	Surf.	.6+	12	-.12	"
85	2-25	254P / 304P	Bollinger & Moon	25.0	15.6	4.29	4.81	66.9		.6	11	0	"
86	3-2	925A / 935A	" "	69.0	35.6	3.59	5.12	128.		.6	14	-.08	"
87	3-4	302A / 325A	Bollinger & Belt	70.6	50.0	5.38	5.08	269.	Surf.	.6+	10	+.05	"
88	3-4	820A / 833A	" "	82.3	64.3	5.76	5.10	376.	Surf.	.6+	13	+.01	"
89	3-5	200P / 225P	" "	80.4	82.3	6.59	5.12	547.	Surf.	.6+	11	+.12	"
90	3-6	205P / 220P	Moon & Bollinger	101.5	93.2	6.58	5.16	613.		.6	13	+.07	"
91	3-14	835A / 850A	Luce	54.0	35.0	4.11	5.01	144.		.6	11	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

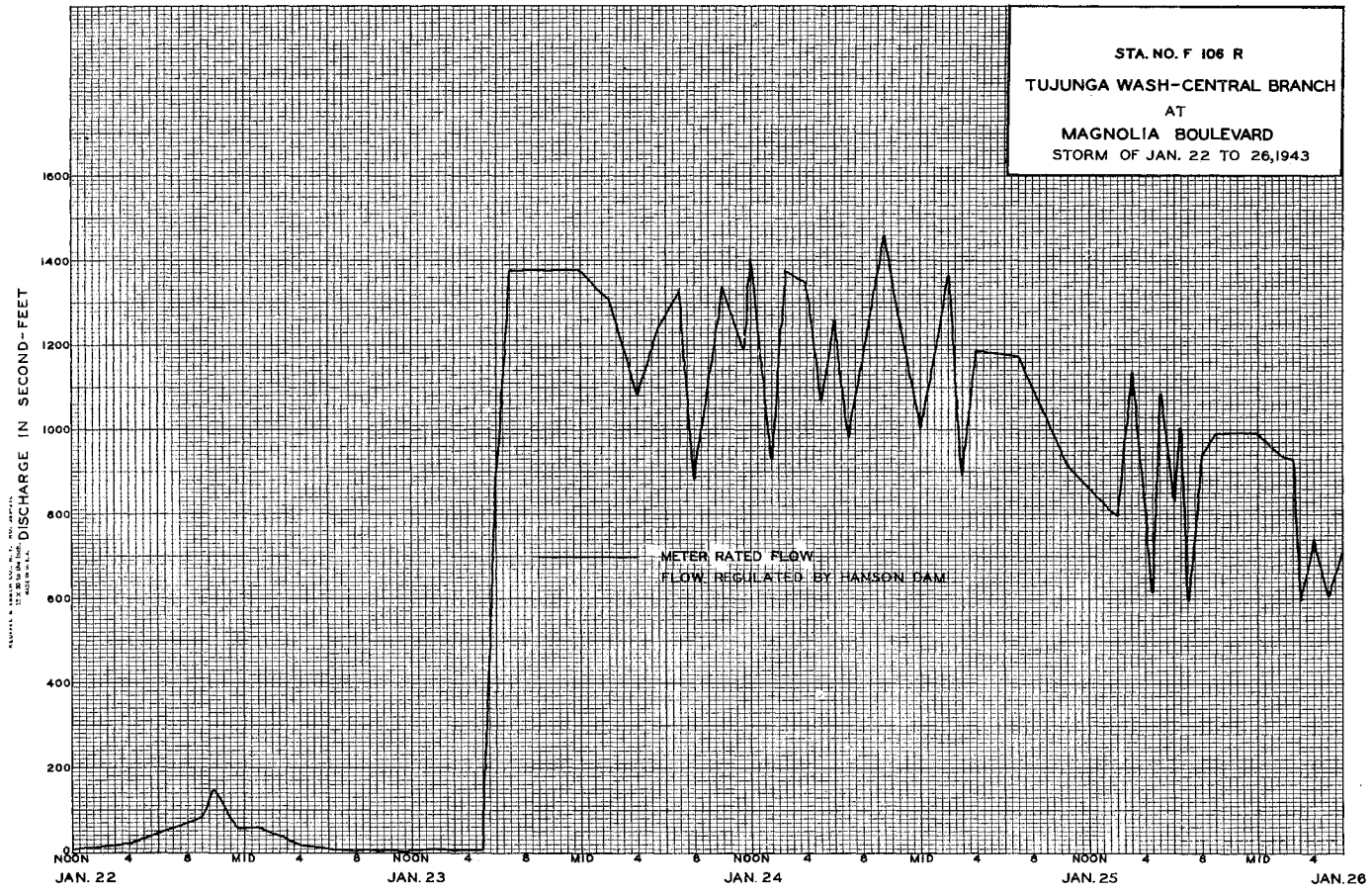
Sta. No F106R

Daily discharge, in second-feet of TUJUNGA WASH-CENTRAL BRANCH At Magnolia Boulevard for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	307	119	0	0	0	0	0	0
2	0	0	0	0	360	94	0	0	0	0	0	0
3	0	0	0	0	213	47	0	0	0	0	0	0
4	0	0	0	0	98	335	0	0	0	0	0	0
5	0	0	0	0	b 0	565	0.1	0	0	0	0	0
6	0	0	0	0	b 0	595	0.7	0	0	0	0	0
7	0	0	0	0	b 0	667	0	0	0	0	0	0
8	0	0	0	0	37	35	0	0	0	0	0	0
9	0	0	0	0	106	0.8	0	0	0	0	0	0
10	0	0	0	0	0.4	511	0	0	0	0	0	0
11	0	0	0	0	0	564	0	0	0	0	0	0
12	0	0	0	0	0	602	0	0	0	0	0	0
13	0	0	0	0	0	417	0	0	0	0	0	0
14	0	0	0	0	0	117	0	0	0	0	0	0
15	0	0	0	0	0	39	0	0	0	0	0	0
16	0	0	0	0	0	1.6	0	0	0	0	0	0
17	0	0	0	0	0	0.6	0	0	0	0	0	0
18	0	0	0	0	0	0.6	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	39	10	+	0	0	0	0	0	0
23	0	0	0	363	294	0	0	0	0	0	0	0
24	0	0	0	1220	390	0	0	0	0	0	0	0
25	0	0	0	998	129	0	0	0	0	0	0	0
26	0	0	0	480	81	0	0	0	0	0	0	0
27	0	0	0	274	94	0	0	0	0	0	0	0
28	+	0	0	0.1	115	0	0	0	0	0	0	0
29	0	0	0	215		0	0	0	0	0	0	0
30	0	0	0	318		0	0	0	0	0	0	0
31	0		0	201		0		0		0	0	
	+		0		2234.4		0.8		0		0	
		0		4108.1		4710.6		0		0		0
MEAN	+	0	0	133.	79.8	152.	.03	0	0	0	0	0
ACRE-FEET	+	0	0	8150.	4430.	9340.	.06	0	0	0	0	0

Remarks: + = 0.05 c.f.s. Or less.

YEAR OR PERIOD MEAN 30.3
ACRE FEET 21920.



STATION F270R

CALABASAS CREEK at Ventura Boulevard

LOCATION:

On the right (east) bank of Calabasas Creek near the upstream end of a concrete horse shoe culvert under Ventura Blvd., and about 100 feet west of the westerly city limits of Los Angeles.

DRAINAGE AREA:

2.4 square miles.

CHANNEL AND CONTROL:

Channel-sand and clay adobe.
Control-entrance to a concrete horse shoe culvert, 6.0 feet wide and 5.0 feet deep.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge 32 feet above station.

RECORDER:

Installed February 17, 1940 over a 24 inch corrugated iron pipe stilling well. A horizontal rational recorder was in service from October 1, 1941 to September 30, 1942.

REGULATION AND/OR DIVERSIONS:

The existence of small dams upstream has been verified by local residents. However, the extent of regulation is not known.

RECORDS AVAILABLE:

February 17, 1940 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 445. second-feet, Jan 23.
Minimum no flow most of year.
1940-1943
Maximum 551. second-feet, February 20, 1941.
Minimum no flow part of each year.

ACCURACY:

Fair

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F270-R

DISCHARGE MEASUREMENTS OF CALABASAS CREEK

~~XXX~~ Ventura Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METER OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
38	1-24	310P / 315P	Bollinger	6.0	1.85	1.30	1.74	2.4		.6	5	0	FC 6
39	2-26	650P / 655P	"	4.0	0.95	0.95	1.58	0.9		.6	4	0	"
40	3-4	650A / 656A	Bollinger & Belt	8.0	6.22	2.68	2.15	16.7		.6	7	-.02	"
41	3-9	235P / 240P	Bollinger	4.0	0.86	0.62	1.43	0.5		.6	4	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

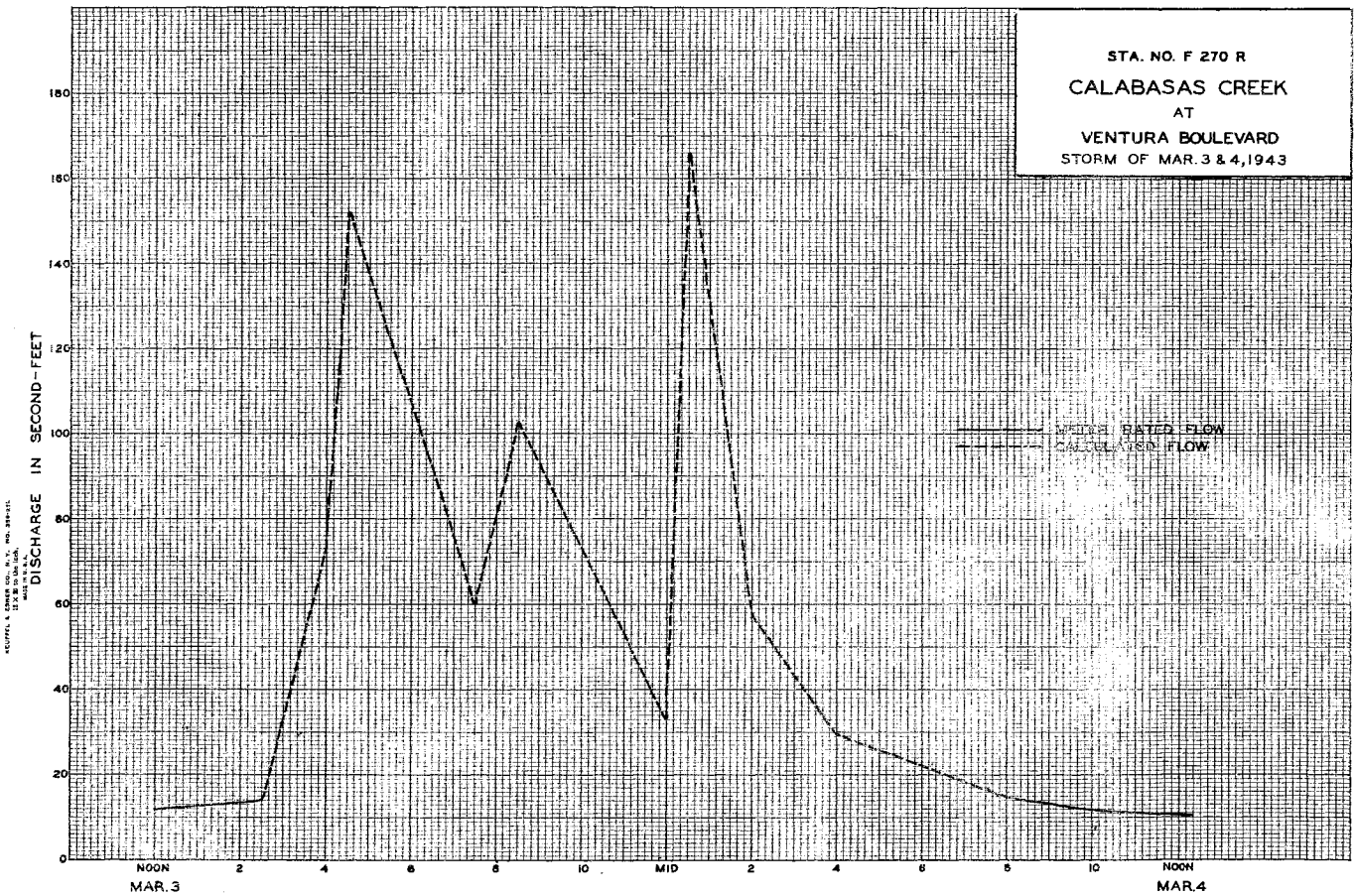
Sta. No. F270R

Daily discharge, in second-feet of CALABASAS CREEK At Ventura Boulevard, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.2	+	+	0	0	0	0	0
2	0	0	0	0	+	0.1	0.1	0	0	0	0	0
3	0	0	0	0	0.2	3.4	+	0	0	0	0	0
4	0	0	0	0	+	2.8	+	0	0	0	0	0
5	0	0	0	0	0	3.9	0.2	0	0	0	0	0
6	0	0	0	0	0	2.7	0.6	0	0	0	0	0
7	0	0	0	0	0	2.0	+	0	0	0	0	0
8	0	0	0	0	0.1	1.5	0.4	0	0	0	0	0
9	0	0	0	0	+	1.3	+	0	0	0	0	0
10	0	0	0	0	0	0.6	+	0	0	0	0	0
11	0	0	0	0	0	0.3	0.1	0	0	0	0	0
12	0	0	0	0	0	0.3	+	0	0	0	0	0
13	0	0	0	0	0	0.2	+	0	0	0	0	0
14	0	0	0	0	0	0.5	+	0	0	0	0	0
15	0	0	0	0	0	0.4	0	0	0	0	0	0
16	0	0	0	0	0	0.4	0	0	0	0	0	0
17	0	0	0	0	0	0.4	0	0	0	0	0	0
18	0	0	0	0	0	0.4	0	0	0	0	0	0
19	0	0	0	0	0	0.4	0	0	0	0	0	0
20	0	0	0	0	0	0.2	0	0	0	0	0	0
21	0	0	0	2.1	0.0	+	0	0	0	0	0	0
22	0	0	0	+	11.3	0.3	0	0	0	0	0	0
23	0	0	0	+	3.8	0.1	0	0	0	0	0	0
24	0	0	+	+	+	0.3	0	0	0	0	0	0
25	0	0	+	1.6	+	+	0	0	0	0	0	0
26	0	0	0	4.0	+	0.1	0	0	0	0	0	0
27	0	0	0	1.9	0.3	0.1	0	0	0	0	0	0
28	0	0	0	0.1	0.1	0.1	0	0	0	0	0	0
29	0	0	0	0	+	+	0	0	0	0	0	0
30	0	0	0	0.6		+	0	0	0	0	0	0
31	0		0	0.9		0		0		0	0	0
	0				28.7		1.4		0		0	
		0		93.6		78.6		0		0		0
MEAN	0	0	+	3.0	1.02	2.54	0.05	0	0	0	0	0
ACRE-FEET	0	0	+	186.	57.	156.	2.8	0	0	0	0	0

Remarks: + indicates 0.05 c.f.s. or less.

YEAR OR PERIOD — MEAN 0.55 — ACRE-FEET 402



STATION F37B-R

COMPTON CREEK near Greenleaf Drive

LOCATION:

On the left (east) bank of the concrete channel, 120 feet South of the center line of Greenleaf Drive extended and about one and one half miles Southwest of Compton.

DRAINAGE AREA:

30.3 Square miles.

CHANNEL AND CONTROL:

Channel-rectangular, concrete, 13.0 feet deep and 60 feet wide. Invert is 1.05 feet below bottom of vertical side walls.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 10 feet below gage.

RECORDER:

Installed January 22, 1928 at Station F37R at Rosecrans Avenue. Removed June 9, 1938 due to new channel construction by the U.S. Engineer Department.
Installed October 3, 1938 over a 4.0 ft. x 3.2 ft. concrete stilling well.
An H.C.F. recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

None.

DIVERSION:

None.

RECORDS AVAILABLE:

At Station F37R
January 22, 1928 to June 9, 1938.
At Station F37B-R
October 3, 1938 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 2050 second-feet, January 22,
Minimum 0.8 second-foot at various times.
1928-1943 (Stations F37R and F37B-R)
Maximum not determined, overflowed banks March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Good except for occasional clock stoppage.

OPERATION:

Located and constructed by the United States Engineer Department and operated by the Los Angeles County Flood Control District in conjunction with the United States Engineer Department.

F. C. D. FORM 104 3M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F37B-R

DISCHARGE MEASUREMENTS OF COMPTON CREEK

NEAR Greenleaf Drive DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
236	10-1	1049A / 1056A	Bonadiman	59.0	19.8	0.36	0.56	7.2		.6	6	0	FC 19
237	10-8	202P / 212P	"	59.0	20.4	0.37	0.55	7.5		.6	6	0	"
238	10-15	102P / 110P	"	59.5	17.9	0.29	0.52	5.1		.6	5	0	"
239	10-22	1242P / 1250P	"	59.5	15.9	0.31	0.55	5.0		.6	4	0	"
240	10-28	430P / 444P	Bonadiman & Walton	60.0	109.	2.31	1.97	252.		.6	9	+.13	"
241	10-29	301P / 310P	Bonadiman	59.5	20.3	0.30	0.55	6.8		.6	6	0	"
242	11-5	1017A / 1027A	"	58.5	21.5	0.27	0.54	5.9		.6	7	0	"
243	11-12	1052A / 1104A	"	57.0	19.2	0.26	0.54	4.9		.6	7	0	"
244	11-19	238P / 249P	"	59.0	21.0	0.47	0.59	9.8		.6	6	0	"
245	11-25	1042A / 1052A	"	57.0	18.8	0.26	0.54	4.8		.6	6	0	"
246	12-3	1252P / 102P	"	58.0	19.3	0.31	0.56	5.9		.6	7	0	"
247	12-11	1042A / 1053A	"	54.0	16.8	0.22	0.57	3.6		.6	6	0	"
248	12-17	1032A / 1042A	"	58.0	20.8	0.30	0.58	6.8		.6	7	0	"
249	12-23	942A / 950A	"	58.0	21.6	0.27	0.55	5.8		.6	7	0	"
250	12-25	325A / 350A	Bonadiman & Thompson	60.0	148.	4.83	2.64	715.		.6	9	0	"
251	12-30	1055A / 1105A	Bonadiman	59.0	19.0	0.19	0.52	3.6		.6	6	0	"
252	1-8	1102A / 1112A	"	58.5	20.7	0.48	0.55	9.9		.6	6	0	"
253	1-15	1032A / 1040A	"	58.5	19.7	0.23	0.55	4.6		.6	5	0	"
254	1-30	212P / 222P	"	60.0	71.2	2.25	1.38	160.		.6	9	-.10	"
255	2-11	312P / 323P	"	58.0	17.7	0.23	0.51	4.0		.6	6	0	"
256	2-19	242P / 250P	"	45.0	15.1	0.34	0.52	5.2		.6	4	0	"
257	2-21	1056A / 1112A	"	60.0	65.2	1.81	1.33	118.		.6	8	-.08	"
258	2-22	120P / 130	Bonadiman & Walton	60.0	106.	4.13	2.02	438.		.6	9	-.15	"
259	2-25	1116A / 1124A	Bonadiman & Walton	52.0	18.4	0.37	0.53	6.9		.6	5	0	FC 19
260	3-3	1232P / 1250P	Bonadiman	60.0	55.5	1.53	1.14	85.1	Surf	.6	8	0	"
261	3-18	212P / 220P	"	54.0	16.5	0.18	0.53	2.9		.6	5	0	"
262	4-2	331P / 338P	"	52.0	16.4	0.29	0.52	4.7		.6	4	0	"
263	4-6	1001A / 1018A	"	59.0	40.7	1.24	0.90	50.6		.6	8	-.06	"
264	4-8	1102A / 1112A	"	58.0	18.7	1.87	0.54	3.5		.6	6	0	"
265	4-16	300P / 310P	"	58.0	21.0	0.42	0.56	8.8		.6	5	0	"
266	4-22	400P / 410P	"	58.0	21.0	0.43	0.56	9.2		.6	5	0	"
267	4-30	322P / 332P	"	58.0	10.4	0.42	0.54	4.3		.6	5	0	"
268	5-8	320P / 330P	"	30.0	10.8	0.39	0.55	4.2		.6	4	0	"
269	5-15	252P / 300P	"	29.0	10.7	0.37	0.57	4.0		.6	4	0	"
270	5-26	935A / 945A	"	58.0	8.85	0.34	0.55	3.0		.6	5	0	"
271	6-4	952A / 1000A	"	57.0	16.5	0.29	0.55	4.8		.6	5	0	"
272	6-12	1000A / 1010A	"	57.0	18.3	0.26	0.55	4.7		.6	5	0	"
273	6-25	1002A / 1015A	"	58.0	18.6	0.33	0.58	6.1		.6	6	0	"
274	7-2	952A / 1003A	"	58.0	10.5	0.50	0.59	5.3		.6	5	0	"
275	7-9	1000A / 1010A	"	58.0	19.2	0.35	0.60	6.8		.6	5	0	"
276	7-16	1002A / 1010A	"	49.0	21.6	0.35	0.57	7.6		.6	6	0	"
277	7-23	1031A / 1040A	"	45.0	17.6	0.31	0.58	5.4		.6	6	0	"
278	7-30	1046A / 1052A	"	48.0	20.2	0.33	0.58	6.7		.6	6	0	"
279	8-6	1011A / 1020A	"	58.0	20.6	0.29	0.58	6.0		.6	6	0	"
280	8-13	1016A / 1024A	"	32.0	13.4	0.52	0.59	7.0		.6	4	0	"
281	8-20	1051A / 1109A	Smallin & Bonadiman	58.0	18.6	0.25	0.58	4.6		.6	6	0	"
282	8-27	1039A / 1045A	Moon	15.0	7.39	0.45	0.56	3.3		.6	6	0	FC 22
283	9-3	1022A / 1034A	Moon	Two Channels			0.55	4.0		.6	11	0	FC 22
284	9-10	1002A / 1012A	Bonadiman	58.0	19.9	0.22	0.59	4.4		.6	5	0	FC 19

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

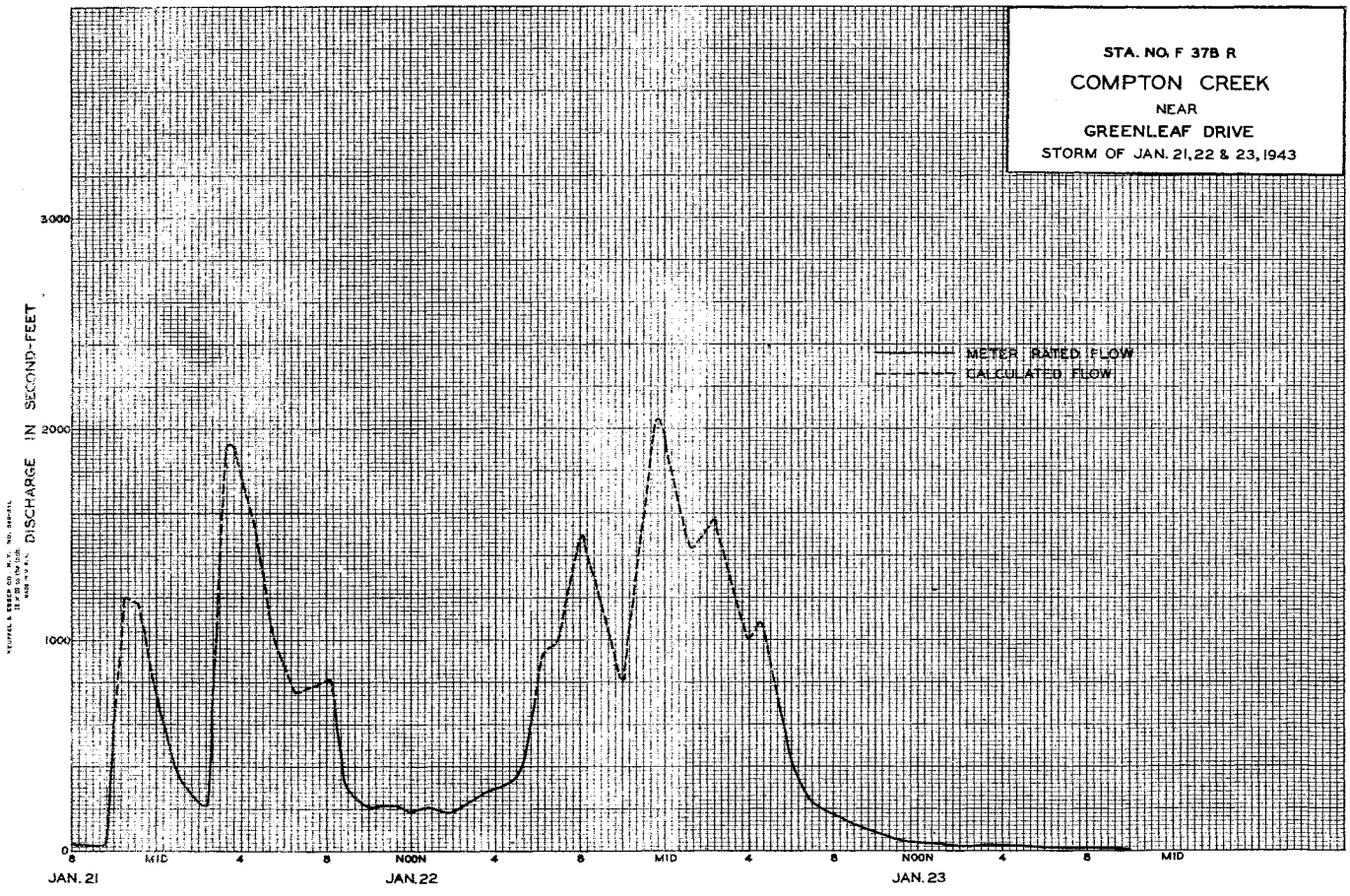
Sta. No F37B-R

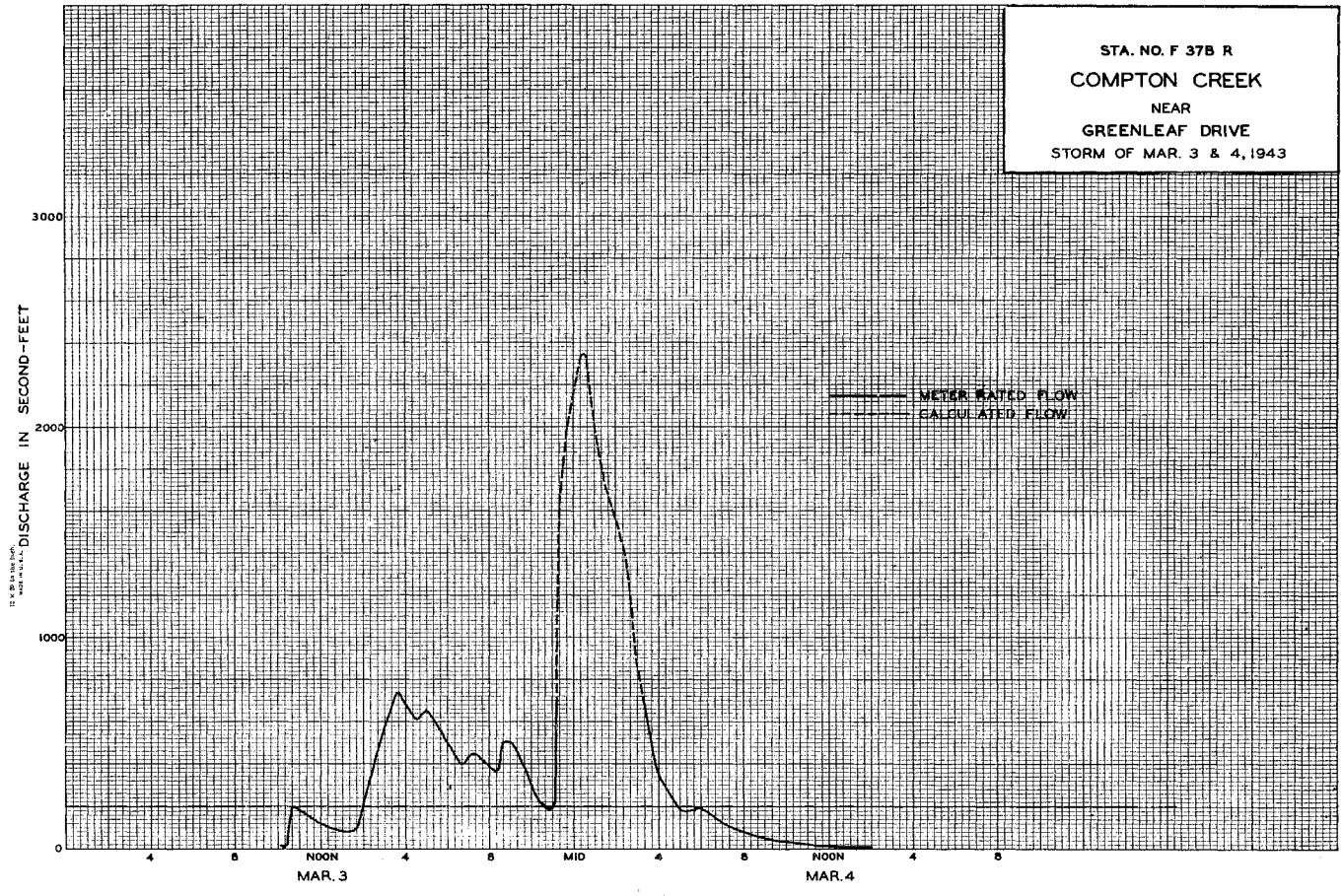
Daily discharge, in second-feet of COMPTON CREEK Near Greenleaf Drive, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	4.8	5.5	3.0	8.5	3.7	4.8	4.4	4.8	4.4	6.5	4.8
2	10	4.8	5.5	2.3	4.4	5.5	4.8	4.1	5.5	4.8	6.5	6.5
3	9.5	4.8	5.5	3.4	5.5	264	4.8	4.1	5.5	4.8	6.5	5.5
4	8.5	5.5	5.5	4.1	4.8	297	4.8	4.4	4.8	4.8	5.5	5.5
5	10	5.5	5.5	7	4.8	4.8	26	4.8	6.5	4.4	4.6	4.4
6	10	4.8	4.4	8	5.5	3.0	38	4.8	5.5	5.5	6.5	4.4
7	8.5	5.5	4.1	9.5	4.8	2.3	6.5	4.4	5.5	5.5	6.5	4.1
8	9.5	5.5	4.8	10	37	2.3	3.7	4.1	5.5	4.8	4.8	4.4
9	9.5	4.8	3.7	8.5	5.5	3.0	4.1	4.1	4.4	6.5	4.4	4.1
10	8.5	4.8	3.4	7	4.4	3.4	6.5	3.4	4.4	7	5.5	3.7
11	6.5	4.8	3.7	6.5	4.1	3.4	4.8	3.7	4.1	4.8	4.8	3.7
12	13	4.8	3.7	6.5	4.8	2.6	a 4.8	3.7	4.4	5.5	5.5	3.4
13	5.5	5.5	3.7	4.8	4.1	2.6	a 5.5	4.1	5.5	6.5	5.5	3.4
14	4.8	5.5	4.1	4.8	4.8	2.6	a 6.5	3.7	4.4	7	4.8	3.7
15	5.5	4.6	5.5	4.4	4.8	2.6	a 8	4.1	4.4	5.5	4.4	3.7
16	6.5	7	5.5	4.4	5.5	2.6	a 8.5	3.7	4.8	7	3.7	4.1
17	5.5	8	7	4.1	5.5	18	a 8	3.4	4.8	6.5	4.1	4.4
18	4.4	7	7	3.7	6.5	22	a 8	3.0	4.8	6.5	4.4	3.7
19	4.4	14	7	4.4	8	3.4	7	3.0	4.8	4.8	4.8	3.4
20	4.8	5.5	4.8	4.8	7	3.4	8.5	3.4	4.6	6.5	4.1	3.0
21	5.5	5.5	5.5	105	35	3.4	9.5	3.4	4.4	5.5	4.1	3.0
22	4.6	4.8	6.5	752	148	3.7	8.5	3.7	5.5	4.8	3.7	3.7
23	6.5	4.8	6.5	365	62	4.1	8.5	3.7	5.5	4.8	3.7	4.1
24	4.8	5.5	64	5.5	46	3.7	8	3.4	5.5	5.5	3.4	3.7
25	4.1	4.8	76	4.4	8	4.4	7	3.7	5.5	4.4	3.7	3.7
26	4.8	6.5	0.8	54	6.5	4.4	4.8	3.4	5.5	5.5	2.6	3.7
27	6.5	7	1.2	22	4.8	4.4	5.5	3.7	5.5	7	3.7	3.7
28	47	5.5	1.6	4.1	4.4	4.4	4.8	4.1	4.8	8	4.4	4.8
29	6.5	4.1	3.7	4.8		6.5	4.8	4.1	5.5	7	4.1	4.8
30	6.5	4.4	3.7	55		5.5	4.4	4.1	4.4	5.5	4.1	4.8
31	5.5		4.1	19		4.8		4.1		6.5	5.5	
	255.4	170.6	273.5	1502.0	455.0	701.5	239.4	119.8	151.3	177.6	146.6	123.9
Mean	8.24	5.69	8.82	48.5	16.2	22.6	7.98	3.86	5.04	5.73	4.73	4.13
Acre-Feet	507.	338.	542.	2980.	902.	1390.	475.	238.	300.	352.	291.	246.

Remarks:

Year or Period: Mean 11.8; Acre-Feet 8560.





STATION F41C-R

COYOTE CREEK at Del Amo Street

LOCATION:

On the right (west) abutment and downstream side of the 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-clay, covered by tules during the summer months only.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of P.E. Railroad trestle.

RECORDER:

Installed January 14, 1930 at Station F41R.
Moved to Station F41B-R on October 30, 1936.
Removed on February 17, 1937.
Installed February 18, 1937, at Station F41C-R over an 18 inch diameter, corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1942 to September 30, 1943.

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, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 1480 second-feet, Jan. 23.
Minimum no flow at various times.
1929-1943 (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:

Fair.
Due to clock failure February 19th to 23rd. and the effect of weeds in channel during August and September.

OPERATION:

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

REGULATION:

None.

DIVERSIONS:

None.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F41C-R

DISCHARGE MEASUREMENTS OF COYOTE CREEK

AT Del Amo Street DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
283	10-1	247P 250P	Bonadiman	5.0	2.10	0.76	4.02	1.6		.6	3	0	FC 19
284	10-8	1026A 1031A	"	10.0	4.00	0.55	4.11	2.2		.6	3	0	"
285	10-15	1010A 1014A	"	12.0	4.86	0.49	4.14	2.4		.6	3	0	"
286	10-22	926A 932A	"	6.0	2.00	0.60	4.07	1.2		.6	3	0	"
287	10-29	1122A	"	9.0	3.45	0.61	4.18	2.1		.6	4	0	"
288	11-5	202P	"	10.0	3.67	0.60	4.21	2.2		.6	4	0	"
289	11-12	232P	"	7.0	2.48	0.52	4.17	1.3		.6	3	0	"
290	11-19	1052A	"	8.0	2.80	0.68	4.20	1.9		.6	2	0	"
291	11-25	241P	"	9.0	3.90	0.46	4.14	1.8		.6	3	0	"
292	12-3	922A	"	10.0	4.58	0.37	4.17	1.7		.6	4	0	"
293	12-11	242P	"	8.0	3.20	0.43	4.12	1.4		.6	4	0	"
294	12-17	210P	"	3.0	0.60	0.36	3.92	0.22		.6	2	0	"
295	12-23	132P	"	6.0	1.98	0.51	4.05	1.0		.6	3	0	"
296	12-30	332P 340P	"	9.0	3.80	0.47	4.10	1.8		.6	4	0	"
297	1-8	302P 310P	"	8.0	3.10	0.39	4.13	1.2		.6	3	0	"
298	1-15	305P 312P	"	8.0	3.52	0.45	4.11	1.6		.6	4	0	"
299	1-22	1026A 1046A	Bonadiman & Walton	76.0	316.	1.77	9.00	558.		.6	7	+.09	"
300	1-23	317P 345P	" "	55.0	545.	1.49	10.31	810.	Surf.	.6	5	+.06	"
301	1-25	1030A 1044A	Bonadiman	56.0	328.	0.78	6.69	256.		.6	5	+.02	"
302	1-26	1056A 1106A	"	54.0	229.	0.38	5.08	87.4		.6	5	0	"
303	1-29	202P 212P	"	50.0	220.	0.05	4.70	10.1		.6	5	0	"
304	1-31	1235P 1237P	Bonadiman & Walton	71.0	422.	0.8[illegible]	7.58	342.		.6	8	-.04	FC 19
305	2-11	1003A 1100A	Bonadiman	16.0	6.96	0.57	4.44	4.0		.6	4	0	"
306	2-19	1047A 1055A	"	16.0	6.00	0.57	4.37	3.4		.6	4	0	"
307	2-22	531P 552P	Bonadiman & Walton	54.0	228.	0.53	6.21	120.		.6	5	-.04	"
308	2-23	1136P 150P	" "	54.0	206.	0.61	6.09	126.		.6	5	-.03	"
309	2-24	511P 524P	" "	52.0	195.	0.47	5.55	82.3		.6	6	-.02	"
310	2-25	402P 410P	" "	49.0	119.	0.15	5.00	17.9		.6	4	0	"
311	3-3	1032A 1050A	" "	81.0	535.	1.98	10.13	1060.	Surf.	.6	7	-.05	"
312	3-4	1151A [illegible]	" "	70.0	423.	1.72	8.75	728.		.6	6	0	"
313	3-10	1045A 1050A	Bonadiman	40.0	111.	0.33	5.04	37.2		.6	4	0	"
314	3-18	1013A 1021A	"	44.0	143.	0.28	5.11	39.8		.6	5	0	"
315	3-26	1104A 1112A	"	24.0	8.60	0.60	4.72	5.2		.6	4	0	"
316	4-2	1117A 1120A	"	10.0	5.75	0.84	4.63	4.8		.6	3	0	"
317	4-9	945A 954A	"	18.0	10.4	0.89	4.72	9.4		.6	5	0	"
318	4-16	1112A 1120A	"	12.0	6.20	0.56	4.60	3.5		.6	5	0	"
319	4-30	1112A 1117A	"	10.0	2.10	0.40	4.50	0.80		.6	3	0	"
320	5-8	1115A 1120A	"	10.0	3.10	0.84	4.50	2.6		.6	3	0	"
321	5-15	1043A 1047A	"	7.0	1.75	0.40	4.37	0.70		.6	2	0	"
322	5-26	131P 137P	"	12.0	2.80	0.64	4.43	1.8		.6	3	0	"
323	6-4	1227 [illegible]	"	12.0	3.20	0.63	4.42	2.0		.6	3	0	"
324	6-12	155[illegible] 210[illegible]	"	11.0	3.70	0.78	4.49	2.9		.6	4	0	"
325	7-8	210[illegible]	"	10.0	2.58	0.46	4.41	1.2		.6	3	0	"
326	7-9	21[illegible]	"	3.0	0.60	0.20	4.30	0.12		.6	2	0	"
327	7-23	220[illegible]	Bonadiman	10.0	4.00	0.38	4.51	1.2		.6	2	0	"
328	7-30	247P 250P	"	4.0	1.20	0.33	4.49	0.4		.6	2	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

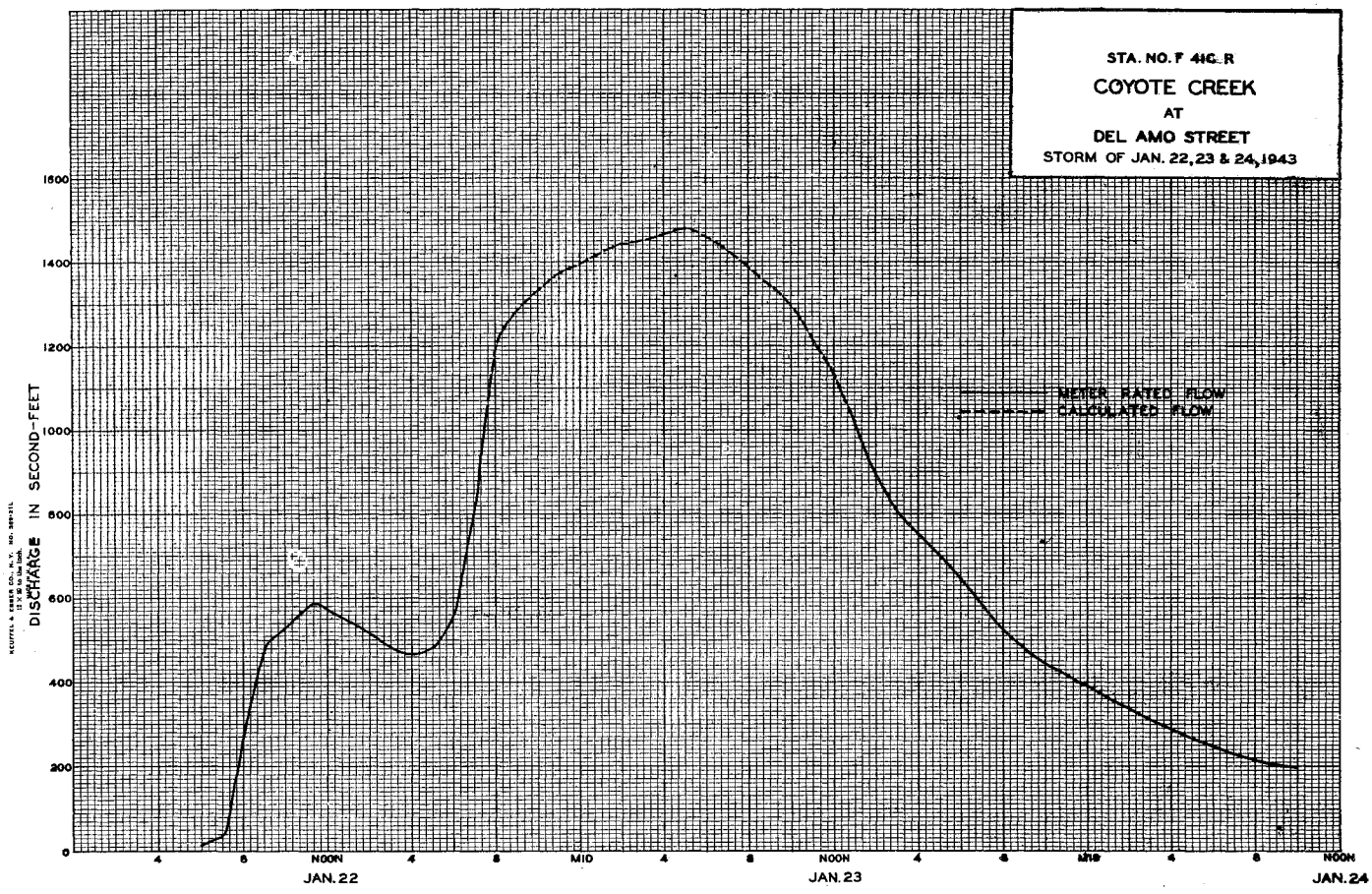
Sta. No. F41C-R

Daily discharge, in second-feet of COYOTE CREEK At Del Amo Street, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.7	2.0	1.7	1.6	41	6	5	1.1	2.8	1.4	0.3	1.5
2	1.7	2.0	1.7	1.4	16	23	4.8	1.1	2.6	1.2	0.4	1.5
3	2.1	2.0	1.7	1.2	9.5	374	5	1.5	2.6	0.7	0.5	1.5
4	2.2	2.1	1.7	1.1	17	796	5.5	1.5	2.4	1.1	0.6	1.5
5	2.2	2.0	1.8	1.2	7.5	376	6	1.4	2.5	1.1	0.7	1.5
6	2.2	1.8	1.5	1.5	5	132	8.5	1.5	1.3	1.4	0.8	1.5
7	2.1	1.8	1.6	1.4	4.4	87	9	1.9	0.7	0.7	0.9	1.5
8	2.2	1.7	1.6	1.3	20	63	8.5	2.4	0.7	0.6	1.0	1.5
9	2.4	1.7	1.6	1.4	11	49	9	1.6	1.3	0.2	1.1	1.5
10	2.4	1.5	1.6	1.5	4.8	38	7	1.6	1.8	0	1.2	1.5
11	2.2	1.2	1.4	1.6	3.7	37	6.5	1.3	2.4	0	1.3	1.5
12	2.2	1.1	0.9	1.6	3.6	32	5.5	1.1	2.2	0	1.4	1.5
13	2.2	1.1	0.7	1.7	3.2	30	5.5	1.0	1.4	0.2	1.5	1.5
14	2.2	1.1	0.6	1.7	3.2	30	4.8	0.9	2.1	1.9	1.5	1.5
15	2.2	1.3	0.9	1.6	3.2	30	4.1	0.6	2.1	1.5	1.5	1.5
16	1.3	1.4	0.6	1.6	2.9	50	3.4	0.4	2.2	1.1	1.5	1.5
17	0.7	1.4	0.3	1.6	2.7	29	3.2	0.5	1.2	1.2	1.5	1.5
18	0.4	1.4	0.2	1.4	2.9	38	2.9	1.0	0.9	0.7	1.5	1.5
19	1.1	1.9	0.2	1.4	a 3.2	27	2.7	1.1	1.4	1.8	1.5	1.5
20	1.5	1.9	0.5	1.4	a 3.3	20	2.5	1.1	1.1	1.8	1.5	1.5
21	0.8	1.9	0.6	1.4	a 3.3	16	2.2	1.3	0	1.3	1.5	1.5
22	1.0	1.6	0.9	509	a 71	15	2.1	1.1	0	1.4	1.5	1.5
23	0.6	1.2	1.0	1030	a 169	12	2.0	1.4	0	1.6	1.5	1.5
24	0.8	1.4	1.6	249	84	9.5	1.9	1.3	0	0.7	1.5	1.5
25	1.1	1.7	3.6	244	29	6.5	1.7	1.5	0.3	0.3	1.5	1.5
26	1.1	1.6	6	95	12	14	1.7	1.9	0	0.8	1.5	1.5
27	1.1	1.6	2.8	163	9.5	9	1.6	2.0	1.1	1.4	1.5	1.5
28	1.4	2.0	1.6	55	7.5	6	1.4	2.4	1.2	0.8	1.5	1.5
29	1.9	1.9	1.6	13		6	1.4	1.9	1.1	0.8	1.5	1.5
30	2.1	1.9	1.8	14		5.5	0.8	1.4	1.4	0.4	1.5	1.5
31	2.1		1.7	289		5.5		2.4		0.2	1.5	
	51.2	49.2	46.0	2691.6	553.4	2372.0	126.2	43.2	40.8	28.3	38.7	45.0
MEAN	1.65	1.64	1.48	86.8	19.8	76.5	4.21	1.39	1.36	0.91	1.25	1.50
ACRE-FEET	102.	*98.	91.	5340.	1100.	4700.	250.	86.	81	56.	77	89.

Remarks:

YEAR OR PERIOD MEAN 16.7
ACRE-FEET 12070.



STATION F265R

DOMINGUEZ CHANNEL at Carson Boulevard

LOCATION:

On the left (east) bank on the upstream side of the Carson Boulevard bridge about one half mile east of Avalon Boulevard.

DRAINAGE AREA:

56 square miles.

CHANNEL AND CONTROL:

Channel-dredged earth.
Control-Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of bridge.

RECORDER:

Installed November 23, 1938 over an 18 inch diameter corrugated iron pipe stilling well. A Horizontal Rational recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Regulated by Laguna Dominguez area, subject to ponding.

DIVERSIONS:

None.

RECORDS AVAILABLE:

November 23, 1938 to September 30, 1943.
For previous records, see earlier reports on station F46R, Nigger Slough at Wilmington Ave.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 706 second-feet, January 23.
Minimum 1.8 May 4.
1938-1943
Maximum flow which is confined to channel 706 second-feet, January 23, 1943
Minimum water ponded at gage, no measurable flow.

ACCURACY:

Fair.
Station is flooded at high flows.

OPERATION:

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

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F265R

DISCHARGE MEASUREMENTS OF DOMINGUEZ CHANNEL

AT Carson Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
70	10-1	1150A / 1200N	E.S.Bonadiman	Two Channels			6.78	5.5	.6	7	0		FC 19
71	11-12	1127A / 1140A	"	14.0	6.05	0.76	6.40	4.6	.6	4	0		"
72	11-19	130P / 140P	"	Two Channels			6.42	3.5	.6	5	0		"
73	11-25	1122A / 1132A	"	"	"		6.42	3.0	.6	6	0		"
74	12-3	1200N / 1210P	"	"	"		6.41	1.8	.6	4	0		"
75	12-11	1126A / 1135A	"	"	"		6.41	1.9	.6	5	0		"
76	12-17	1116A / 1125A	"	"	"		6.44	2.3	.6	4	0		"
77	12-23	1022A / 1031A	"	"	"		6.45	3.6	.6	5	0		"
78	12-30	1142A / 1152A	"	"	"		6.47	5.0	.6	6	0		"
79	1-8	1142A / 1156A	"	"	"		6.42	3.6	.6	5	0		"
80	1-15	1102A / 1112A	"	"	"		6.40	2.6	.6	5	0		"
81	1-23	150P / 205P	Walton & Bonadiman	"	"		10.00	663.	.6	8	0		"
82	1-24	1147A / 1200N	"	"	"		9.89	643.	.6	10	-.02		"
83	1-25	301P / 315P	Bonadiman	"	"		8.15	231.	.6	10	-.02		"
84	1-27	1153A / 1210P	"	"	"		7.28	119.	.6	9	0		"
85	1-29	1051A / 1102A	"	"	"		6.74	29.8	.6	8	0		"
86	1-31	826A / 832A	Walton & Bonadiman	"	"		6.85	49.7	.6	9	0		"
87	2-11	212P / 225P	Bonadiman	"	"		6.15	3.0	.6	7	0		"
88	2-19	201P / 212P	Bonadiman	Two Channels			6.08	6.2	.6	7	0		FC 19
89	2-23	839A / 852A	Walton & Bonadiman	"	"		6.74	37.8	.6	10	0		"
90	2-26	132P / 144P	Bonadiman	"	"		6.63	26.6	.6	8	0		"
91	3-5	1253P / 105P	Walton & Bonadiman	"	"		9.30	463.	.6	10	0		FC 19
92	3-12	202P / 212P	Bonadiman	"	"		6.23	11.4	.6	7	0		"
93	3-19	131P / 142P	"	"	"		6.12	10.4	.6	7	0		"
94	3-26	200P / 212P	"	"	"		5.90	5.0	.6	7	0		"
95	4-8	1202P / 1220P	"	"	"		6.46	12.4	.6	8	0		"
96	4-30	230P / 240P	"	13.0	10.1	0.25	6.12	2.7	.6	4	0		"
97	5-8	240P / 248P	"	12.0	9.70	0.26	6.12	2.5	.6	4	0		"
98	5-15	212P / 220P	"	13.0	11.3	0.23	6.13	2.6	.6	4	0		"
99	5-21	200P / 210P	"	9.00	8.00	0.28	6.12	2.2	.6	4	0		"
100	5-26	1022A / 1027A	"	13.0	11.3	0.43	6.21	4.9	.6	4	0		"
101	6-4	1032A / 1037A	"	12.0	11.0	0.45	6.22	4.9	.6	4	0		"
102	6-12	1021A / 1032A	"	14.0	13.7	0.36	6.22	4.9	.6	5	0		"
103	6-25	1100A / 1110A	"	14.0	12.8	0.43	5.99	5.5	.6	5	0		"
104	7-2	1032A / 1044A	"	15.0	14.4	0.48	6.02	6.9	.6	5	0		"
105	7-9	1047A / 1058A	"	15.0	14.2	0.54	6.08	7.6	.6	5	0		"
106	7-16	1052A / 1100A	"	15.0	13.3	0.43	6.06	5.7	.6	5	0		"
107	7-23	1102A / 1110A	"	15.0	15.5	0.47	6.08	7.3	.6	5	0		"
108	7-30	1132A / 1140A	"	16.0	18.4	0.49	6.13	9.1	.6	5	0		"
109	8-6	1032A / 1042A	"	14.0	15.2	0.51	6.08	7.7	.6	5	0		"
110	8-13	1138A / 1147A	Bonadiman	14.0	15.2	0.62	6.12	9.4	.6	5	0		FC 19
111	8-20	1155A / 1213P	Smallin & Bonadiman	14.0	13.8	0.42	6.11	5.8	.6	7	0		"
112	8-27	1112A / 1122A	Moon	16.0	13.4	0.57	6.11	7.6	.6	10	0		FC 22
113	9-3	1120A / 1129A	"	14.5	15.4	0.64	6.13	9.9	.6	9	0		"
114	9-10	1032A / 1042A	Bonadiman	15.0	17.3	0.50	6.15	8.7	.6	5	0		FC 19
115	9-17	1102A / 1112A	"	20.0	16.7	0.53	6.20	8.8	.6	6	0		"
116	10-8	1102A / 1112A	"	16.0	18.7	0.58	6.14	10.9	.6	6	0		"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

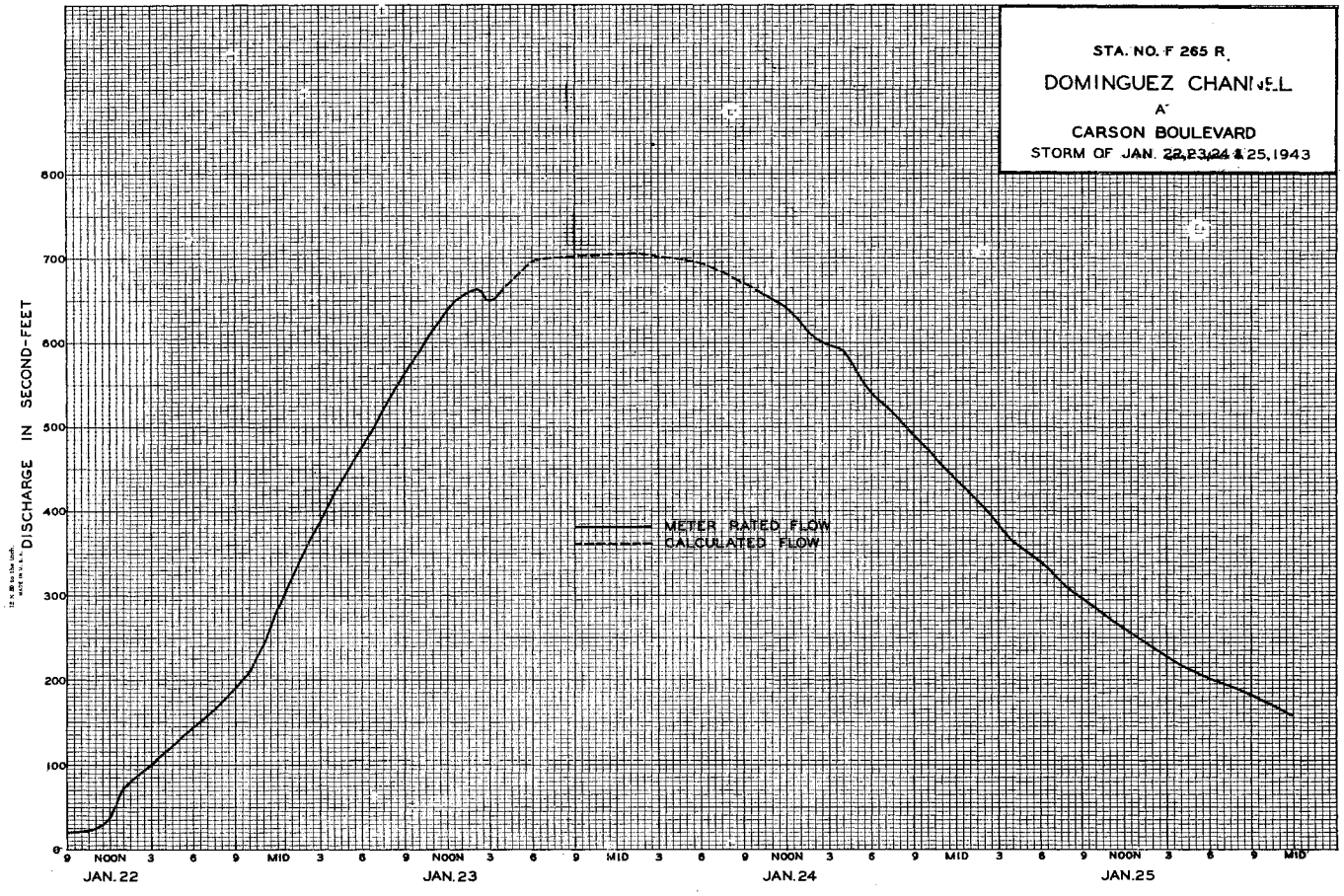
Sta. No F265R

Daily discharge, in second-feet of DOMINGUEZ CHANNEL At Carson Boulevard for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a 5.5	24	21	4.5	64	5.5	4.5	2.3	a 5.5	7	9	8.5
2	a 5.5	24	2.4	4.3	32	5	4.3	2.8	a 5.5	7	8.5	9.5
3	a 5.5	28	2.3	4.3	15	32	4.3	2.3	a 5.5	7	9	10
4	a 5.5	29	2.3	4.1	6	357	3.9	2.0	a 5.5	7.5	9	9.5
5	5.5	30	2.4	4.1	5.5	471	3.9	2.8	a 5.5	7	8.5	9
6	6	31	2.3	4.1	4.7	256	4.8	a 2.6	a 5.5	7	8.5	9
7	7	24	2.4	a 3.9	3.8	124	3.6	a 2.4	a 5.5	7	8.5	8.5
8	8.5	5	2.6	3.9	5.5	56	13	2.4	a 5.5	7	8.5	9
9	12	4.6	2.4	3.6	3.1	35	6	2.3	a 5.5	8.5	8	9.5
10	15	4.8	2.3	3.1	2.9	24	5	2.3	a 5.5	8.5	8.5	9
11	14	4.8	2.3	2.9	3.1	632	4.5	2.4	a 5.5	7	8	9.5
12	13	4.8	2.4	2.9	3.1	16	3.4	2.8	a 5.5	7	9	9.5
13	16	4.8	2.4	3.1	3.8	10	2.9	2.8	5.5	6.5	10	9.5
14	17	4.7	2.4	2.8	4.3	10	a 2.9	3.4	6	6	9	9.5
15	20	4.5	2.1	2.6	4.7	8.5	a 3.1	a 3.1	7	6	8	9.5
16	20	4.3	2.3	3.1	5	8.5	a 3.1	2.8	7	5.5	7	9
17	20	4.1	2.6	3.2	5	8.5	3.2	2.6	8	a 6	7	8.5
18	20	3.8	3.1	3.1	6	12	2.8	3.1	a 7.5	a 6	6.5	10
19	18	3.6	3.2	3.2	6	11	2.4	2.8	a 7	a 6.5	6.5	9
20	20	3.2	3.4	3.6	6	10	2.8	3.1	a 7	a 6.5	6	9.5
21	22	3.1	3.4	3.9	7	8	2.8	a 3.1	a 7	a 7	6.5	10
22	24	2.8	3.6	83	16	7	2.3	3.1	a 7	a 7	6.5	11
23	28	2.6	3.4	578	51	6	2.4	3.6	a 7	a 7.5	7	8
24	32	3.1	3.6	614	76	6.5	2.6	3.9	a 6.5	a 7.5	7	9
25	31	3.1	3.8	274	62	5.5	a 2.6	4.5	a 6.5	a 8	8	9
26	28	2.9	3.9	118	28	5	a 2.6	5	6.5	a 8	8.5	8.5
27	30	2.9	4.1	121	14	5.5	a 2.4	5.5	7	a 8.5	8	8.5
28	28	2.8	4.5	81	7.5	5	a 2.3	a 5.5	7	a 8.5	8.5	8.5
29	26	2.6	4.8	35		6	a 2.3	a 5.5	7	a 9	9	9
30	26	2.4	5	38		6	a 2.3	a 5.5	7	a 9	8.5	9.5
31	24		5	66		4.8		a 5.5		9.5	8.5	
	553.0	275.5	94.8	3062.5	453.0	1537.3	109.0	103.8	189.5	226.0	248.0	276.0
MEAN	17.8	9.18	3.06	67.1	16.2	49.6	3.63	3.35	6.32	7.29	8.00	9.20
ACRE-FEET	1100.	546.	188.	4130.	899.	3050.	216.	206.	376.	448.	492.	547.

Remarks:

YEAR OR PERIOD MEAN 16.8
ACRE-FEET 12200.



STATION F53R

DUME CREEK at Roosevelt Highway

LOCATION:

On the downstream side of Roosevelt Highway bridge, near Dume Point about ½ 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:

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

RECORDER:

Installed January 15, 1930. Removed November 26, 1937 due to construction of new bridge. Reinstalled November 3, 1938 over a 21 inch diameter galvanized iron pipe stilling well. A Stevens continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 15, 1930 to November 26, 1937.
November 3, 1938 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 1,440 second-feet.
Minimum no flow for several months.
1930-1943
Maximum not determined March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F53-R

DISCHARGE MEASUREMENTS OF DUME CREEK

~~XXX~~ Roosevelt Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
137	1-22	1016A / 1048A	Moon & Andren	74.0	90.0	6.26	5.94	563.		.6	12	-.15	FC 22
138	1-24	330P / 336P	Moon	12.0	4.20	0.76	4.66	3.2		.6	6	0	"
139	2-23	1005A / 1012A	Moon & Andren	16.0	7.10	2.34	4.95	16.6		.6	7	0	"
140	2-24	106P / 115P	" "	29.0	13.2	3.52	5.28	46.5		.6	10	+.03	"
141	2-26	312P / 321P	Moon	Two Channels			4.63	0.96		.6	9	0	"
142	3-4	728A / 753A	Moon & Andren	" "			5.82	132.		.6	20	-.02	"
143	3-5	1030A / 1044A	" "	35.0	16.9	3.30	5.74	55.8		.6	10	0	"
144	3-9	251P / 258P	Moon	9.0	2.42	1.53	5.94	3.7		.6	6	-.05	"
145	3-12	915A / 922A	Andren	8.0	1.40	1.00	5.86	1.4		.6	5	0	FC 2
146	3-19	452P / 458P	Moon	6.5	1.17	1.05	5.78	1.2		.6	6	0	FC 22
147	3-26	253P / 258P	"	4.0	0.74	0.72	5.70	0.53		.6	4	0	"
148	4-2	235P / 242P	Moon	4.0	0.94	0.93	5.73	0.88		.6	6	0	FC 22
149	4-9	223P / 228P	"	5.0	0.68	1.05	5.73	0.78		.6	5	0	"
150	4-16	120P / 125P	"	4.0	0.74	0.99	5.74	0.73		.6	4	0	"
151	4-23	230P / 235P	Moon & Bollinger	5.0	1.02	0.97	5.75	0.98		.6	5	0	"
152	4-30	208P / 214P	Moon	5.0	0.92	0.95	5.74	0.87		.6	6	0	"
153	5-7	253P / 258P	Bollinger	5.5	0.97	0.81	5.74	0.79		.6	5	0	FC 6
154	5-15	340P / 345P	"	4.5	0.85	0.75	5.74	0.64		.6	5	0	"
155	5-19	313P / 318P	Moon	5.0	0.86	0.94	5.73	0.81		.6	5	0	FC 22
156	5-28	458P / 503P	Bollinger	5.0	0.82	0.75	5.74	0.62		.6	5	0	FC 6
157	6-3	233P / 237P	"	5.5	0.65	0.72	5.74	0.47		.6	4	0	"
158	6-17	356P / 405P	"	4.0	0.60	0.73	5.74	0.44		.6	6	0	"
159	7-2	302P / 307P	"	3.6	0.73	0.66	5.72	0.48		.6	5	0	"
160	7-16	330P / 335P	Bollinger	3.7	0.61	0.54	5.72	0.33		.6	4	0	FC 6
161	8-6	237P / 240P	"	2.4	0.32	0.50	5.71	0.16		.6	3	0	FC 6
162	8-27	330P / 334P	"	1.5	0.13	0.38	5.82	0.05		.6	3	0	

F. C. Dist. Form 52 5-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

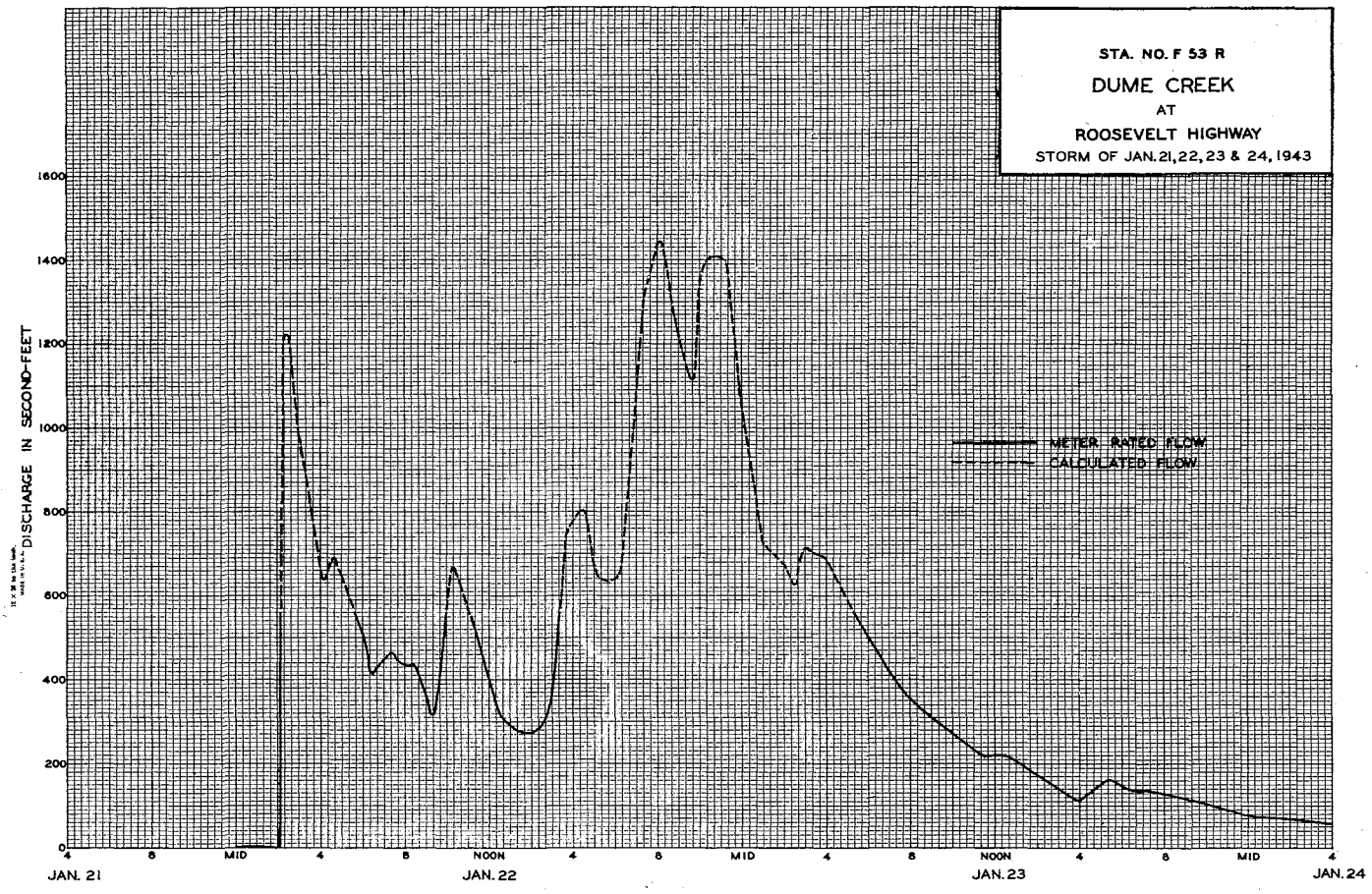
Sta. No F53R

Daily discharge, in second-feet of DUME CREEK Near Roosevelt Highway for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	a 0	0	0.7	0.9	0.5	0.5	0.2	0.1
2	0	0	0	0	a 0	0	0.8	0.9	0.5	0.5	0.2	+
3	0	0	0	0	a 0	126	0.9	0.9	0.5	0.5	0.2	+
4	0	0	0	0	a 0	115	0.9	0.8	0.5	0.5	0.2	+
5	0	0	0	0	a 0	43	0.9	0.8	0.5	0.5	0.2	+
6	0	0	0	0	a 0	9	0.8	0.8	0.5	0.4	0.2	+
7	0	0	0	0	a 0	6	0.8	0.8	0.5	0.4	0.2	0.1
8	0	0	0	0	a +	5.5	0.8	0.8	0.5	0.4	0.2	0.1
9	0	0	0	0	a 0	3.8	0.8	0.8	0.5	0.4	0.2	0.1
10	0	0	0	0	a 0	2.6	0.8	0.7	0.4	0.4	0.2	0.1
11	0	0	0	0	a 0	1.6	0.7	0.7	0.4	0.3	0.1	0.2
12	0	0	0	0	0	1.1	0.7	0.7	0.4	0.2	0.1	0.2
13	0	0	0	0	0	1.5	0.7	0.6	0.4	0.2	0.1	0.2
14	0	0	0	0	0	1.6	0.6	0.6	0.4	0.2	0.1	0.2
15	0	0	0	0	0	1.8	0.6	0.6	0.4	0.2	+	0.2
16	0	0	0	0	0	1.8	0.7	0.7	0.4	0.3	+	0.2
17	0	0	0	0	0	2.0	0.7	0.7	0.4	0.3	0.1	0.3
18	0	0	0	0	0	1.8	0.9	0.8	0.4	0.3	+	0.3
19	0	0	0	0	0	1.1	0.9	0.8	0.4	0.3	+	0.2
20	0	0	0	0	0	1.0	0.9	0.8	0.5	0.2	+	0.1
21	0	0	0	0	0	0.9	0.9	0.7	0.5	0.3	0.1	0.1
22	0	0	0	666	12	1.0	1.0	0.7	0.5	0.2	+	0.1
23	0	0	0	324	24	0.8	1.0	0.7	0.5	0.2	+	+
24	0	0	0	24	48	0.6	1.0	0.6	0.5	0.2	+	+
25	0	0	0	+	13	0.5	1.0	0.6	0.5	0.1	+	+
26	0	0	0	0	2.0	0.5	1.0	0.6	0.5	0.1	0.1	+
27	0	0	0	a 0	+	0.6	1.0	0.5	0.5	0.1	+	+
28	0	0	0	a 0	0	0.6	1.0	0.5	0.5	0.1	+	+
29	0	0	0	a 0		0.6	1.0	0.6	0.5	0.1	0.2	+
30	0	0	0	a +		0.7	0.9	0.6	0.5	0.1	0.2	+
31	0		0	a +		0.7		0.6		0.1	0.1	+
	0		0		99.0		25.4		14.0		3.2	
		0		1014		333.6		21.9		8.6		2.8
MEAN	0	0	0	32.7	3.54	10.8	0.85	0.71	0.47	0.28	0.10	0.09
ACRE-FEET	0	0	0	2010.	196.	662.	50.	43.	28.	17.	6.3	5.6

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 4.17
ACRE-FEET 3020.



STATION U2R

LOS ANGELES RIVER BASIN Eaton Creek near Pasadena

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°11'40", long. 118°06'15", in SE¼ sec. 2, T. 1 N., R. 12 W., at mouth of canyon, just upstream from bridge on old Mount Wilson toll road, and 4 miles northeast of Pasadena. Altitude of gage, about 1,230 feet (from topographic map).

DRAINAGE AREA:

6.5 square miles.

RECORDS AVAILABLE:

March 1918 to September 1943

AVERAGE DISCHARGE:

25 years, 2.88 second-feet. Average combined discharge of creek and diversion, 25 years, 4.07 second-feet.

EXTREMES:

Maximum discharge during year, 813 second-feet Jan. 23 from rating extended above 480 second-feet on basis of critical velocity over broad-crested weir (gage height, 3.49 feet); no flow for several months.

1918-1943

Maximum discharge, 2,400 second-feet Mar. 2, 1938, from record of inflow to Eaton flood-control reservoir; no flow for some periods in each year.

REMARKS:

Records good except those for Dec. 25, 26, and Jan 22-25 which are fair. Records do not include water diverted above station by city of Pasadena.

F. C. D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U2R

DISCHARGE MEASUREMENTS OF EATON CREEK

NEAR Pasadena DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH OD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
364	Jan 22		U.S.G.S.			10.9	2.74	480.		Float			
365	23		"	27.2	27.4	6.5	2.12	178.		Bur. Fl.			
366	24		"				1.63	105.		.6	17	-.02	
367	28		"				0.84	17.0		.6	20	0	
368	Feb. 2		"				0.93	26.8		.6	18	0	
369	5		"				0.77	17.6		.6	15	0	
370	10		"				0.71	13.9		.6	11	0	
371	17		"				0.37	4.4		.6	9	0	
372	21		"				0.76	16.1		.6	18	0	
373	22		"				1.77	139.		.6	12	+.06	
374	24		"				1.50	81.		.6	18	0	
375	27	1107A / 1120A	Haig	19.0	15.6	2.29	1.02	35.6		.6	11	0	FC.33
376	Mar. 3		U.S.G.S.				1.07	35.6		.6	17	-.01	
377	8		U.S.G.S.				1.51	75.		.6	24	0	
378	13	1120A / 1130A	Haig	23.0	22.9	1.89	1.30	43.2		.6	9	0	FC.35
379	19		U.S.G.S.				1.12	32.1		.6	23	0	
380	25		"				0.77	15.7		.6	17	0	
381	26	1250P / 105P	Haig	18.0	13.1	1.14	0.82	15.0		.6	10	0	FC.35
382	30		U.S.G.S.				0.90	17.4		.6	18	0	
383	Apr. 6		"				0.68	13.7		.6	15	-.03	
384	13		"				0.47	9.7		.6	15	0	
385	20		"				0.42	8.0		.6	15	0	
386	23	1112A / 1120A	Haig	14.0	8.98	0.53	0.37	4.8		.6	8	0	FC.35
387	Apr 28		U.S.G.S.				0.36	5.5		.6	9	0	
388	May 5		"				0.33	4.3		.6	9	0	
389	7	1055A / 1110A	Moon & Haig	13.5	7.02	0.46	0.32	3.2		.6	9	0	FC.35
390	19		U.S.G.S.				0.01	0.15		.6	1	0	
391	26		"				0.17	1.3		.6	6	0	
392	June 1		"				0.12	0.68		.6	8	0	
393	4	300P / 303P	Moon	3.0	1.20	1.17	0.19	1.4		.6	3	0	FC.22
394	12		U.S.G.S.				0.20	1.4		.6	14	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U2R

Daily discharge, in second-feet of EATON CREEK Near Pasadena, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	32	29	6	4.2	1.2	0	0	0
2	0	0	0	0	27	27	6.5	3.6	1.5	0	0	0
3	0	0	0	0	22	51	5.5	3.8	1.2	0	0	0
4	0	0	0	0	20	168	5.5	4.2	1.4	0	0	0
5	0	0	0	0	18	192	9.5	4.0	0.7	0	0	0
6	0	0	0	0	16	120	24	3.6	0	0	0	0
7	0	0	0	0	13	88	9	3.6	0	0	0	0
8	0	0	0	0	14	76	28	3.4	0	0	0	0
9	0	0	0	0	10	68	17	2.2	0	0	0	0
10	0	0	0	0	13	58	10	1.9	0	0	0	0
11	0	0	0	0	11	50	11	1.0	0.1	0	0	0
12	0	0	0	0	7.5	45	11	0.9	1.0	0	0	0
13	0	0	0	0	7	40	10	1.8	0.5	0	0	0
14	0	0	0	0	8	38	10	1.8	0	0	0	0
15	0	0	0	0	6	32	10	1.8	0	0	0	0
16	0	0	0	0	5.5	32	10	1.6	0	0	0	0
17	0	0	0	0	4.9	29	8	1.5	0	0	0	0
18	0	0	0	0	5	30	8	1.4	0	0	0	0
19	0	0	0	0	6	29	7.5	0.5	0	0	0	0
20	0	0	0	0	2.5	26	7.5	0.3	0	0	0	0
21	0	0	0	0	15	25	6.5	1.5	0	0	0	0
22	0	0	0	432	75	24	6	0.6	0	0	0	0
23	0	0	0	381	60	23	4.8	0.2	0	0	0	0
24	0	0	0	101	68	25	4.8	0.4	0	0	0	0
25	0	0	1.4	40	44	19	4.8	0.8	0	0	0	0
26	0	0	0.1	29	39	16	5.5	1.0	0	0	0	0
27	0	0	0	25	36	14	5.5	1.4	0	0	0	0
28	0	0	0	17	33	14	5.5	1.0	0	0	0	0
29	0	0	0	15		12	5	0.6	0	0	0	0
30	0	0	0	24		16	5	0.6	0	0	0	0
31	0		0	65		8		0.7		0	0	
	0	0	1.5	1129	618.4	1424	267.4	55.9	7.6	0	0	0
MEAN	0	0	.05	36.4	22.1	45.9	8.91	1.80	.25	0	0	0
ACRE-FEET	0	0	3.0	2240	1230	2820	530	111	15	0	0	0

Remarks:

YEAR OR PERIOD — MEAN 9.60 — ACRE-FEET 6,950

Diversion by City of Pasadena. Records furnished by City of Pasadena.

MEAN												
ACRE-FEET	32.8	44.2	47.1	90.1	226.5	239.9	307.6	336.8	280.8	192.2	133.5	98.7

Remarks:

YEAR OR PERIOD — MEAN — ACRE-FEET 2030

STATION F271-R

EATON WASH below Eaton Wash Dam

LOCATION:

On the right (west) bank of the concrete outlet channel 190 feet below the beginning of the open section at the base of Eaton Wash Dam.

DRAINAGE AREA:

9.5 square miles.

CHANNEL AND CONTROL:

Channel-rectangular, concrete 12 feet deep and 26 feet wide with 0.5 foot fillets. Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge at gage.

RECORDER:

Installed October 10, 1940 over a 4 ft x 4 ft concrete stilling well.
H.C.F. recorder was in service from October 1, to September 30, 1943

REGULATION:

Flow regulated by Eaton Wash Dam.

DIVERSIONS:

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

RECORDS AVAILABLE:

Reservoir outflow records from February 2, 1937 to October 10, 1940. Recorder records from October 10, 1940 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943

1080 second-feet January 23
Minimum no flow most of year.

1940-1943
Maximum 1080 second-feet January 23, 1943
Minimum no flow most of each year.

ACCURACY:
Fair - Sequence of gates operated at Eaton Wash Debris Dam affects gage height discharge relation. Sanded during sluicing operations.

OPERATION:

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

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F271-R

DISCHARGE MEASUREMENTS OF EATON WASH

at below Eaton Wash Debris Dam DURING THE YEAR ENDING SEPTEMBER 30, 1944

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
39	1-22	1035P	Haig & Wallace	25.9	33.3	23.1	1.30	769.	Float			0	
40	1-23	205A / 210A	" "	25.9	45.0	24.0	1.75	1080.		"		0	
41	1-24	1210P	Haig	25.9	12.2	7.79	0.48	95.0		"		0	
42	1-30	1030A / 1040A	"	24.5	4.37	3.00	0.24	13.1		.6	7	0	FC 33
43	1-31	430P / 440P	"	25.2	8.63	6.33	0.39	54.6		.6	7	0	"
44	2-1	503P / 510P	"	25.2	7.53	5.49	0.38	41.3		.6	7	-.02	"
45	2-1	520P / 530P	"	25.2	7.15	5.53	0.35	39.5		.6	7	0	"
46	2-3	108P / 115P	"	24.9	4.66	3.74	0.25	17.4		.6	7	0	"
47	2-10	1128A / 1135A	"	25.0	2.36	1.97	0.15	4.7		.6	6	0	"
48	2-22	1035A / 1045A	"	25.2	5.76	3.52	0.33	20.3		.6	7	+.02	"
49	2-22	320P / 326P	Haig & Wallace	25.7	9.84	7.82	0.45	76.9		.6	7	+.02	"
50	2-26	955A / 1008A	Haig	25.8	9.18	6.26	0.42	57.5		.6	7	0	"
51	2-27	1140A / 1150A	"	25.2	5.08	3.11	0.27	15.8		.6	7	+.01	"
52	3-3	935P / 1020P	Haig & Green	25.9	19.0	14.5	0.82	276.	Surf.	6	0		"
53	3-4	1020A / 1050A	Haig	25.9	18.4	15.9	0.93	293.		.6	9	-.01	Pitot Tube
54	3-5	256P / 314P	Haig & Wallace	25.9	12.3	12.0	0.59	147.		.6	14	0	"
55	3-6	1145A / 1210P	Haig	25.6	10.7	9.91	0.48	106.		.6	7	0	FC 33
56	3-7	209P / 224P	Blakely	25.9	10.5	8.60	0.43	90.3		.6	9	0	FC 44
57	3-9	1220P / 1230P	Haig	25.9	10.9	9.72	0.48	106.		.6	7	0	FC 33
58	3-10	1020P / 1055P	"	25.9	14.6	12.9	0.60	189.		.6	9	0	Pitot Tube
59	3-11	330P / 340P	Haig	25.9	9.56	6.72	0.40	64.2		.6	8	0	FC 33
60	3-18	1148A / 1155A	"	22.2	10.3	6.20	0.77	63.9		.6	8	-.01	FC 35
61	3-20	950A / 1000A	"	Two Channels			0.42	27.6		.6	8	+.01	"
62	4-16	1130A / 1140A	"	6.8	1.65	0.91	0.49	1.5		.6	7	0	"
63	4-22	930A / 935A	Haig & Moon	3.3	1.02	1.37	0.43	1.4		.6	5	0	"
64	4-28	950A / 956A	Haig	4.7	1.46	1.30	0.46	1.9		.6	6	0	"
65	5-7	1145A / 1150A	Moon & Haig	10.0	1.90	1.05	0.46	2.0		.6	7	0	"
66	5-14	255P / 305P	Moon & Lindsay	9.4	2.18	1.28	0.48	2.8		.6	8	0	FC 22
67	5-21	310P / 320P	Moon	9.0	2.23	1.17	0.46	2.6		.6	9	0	"
68	6-4	1130A / 1134A	"	1.2	0.20	1.45	-	0.29		.6	3	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F271R

Daily discharge, in second-feet of EATON WASH Below Eaton Wash Dam for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	44	20	+	2.5	0.5	+	0	0
2	0	0	0	0	31	16	+	2.0	1.0	+	0	0
3	0	0	0	0	18	51	+	2.0	+	+	0	0
4	0	0	0	0	18	294	+	2.0	0.3	+	0	0
5	0	0	0	0	8	177	+	2.0	0.3	+	0	0
6	0	0	0	0	5	113	+	2.0	+	0	0	0
7	0	0	0	0	5	81	1.0	2.0	0.9	0	0	0
8	0	0	0	0	5	86	1.8	1.8	+	0	0	0
9	0	0	0	0	4.5	92	4.5	1.8	+	0	0	0
10	0	0	0	0	4.5	102	4.5	1.8	+	0	0	0
11	0	0	0	0	4.5	109	4.0	1.8	+	0	0	0
12	0	0	0	0	4.5	v 78	3.5	2.2	+	0	0	0
13	0	0	0	0	1.7	v 60	2.5	3.0	+	0	0	0
14	0	0	0	0	0	v 48	2.3	3.0	+	0	0	0
15	0	0	0	0	0	v 40	2.2	3.0	+	0	0	0
16	0	0	0	0	0	v 42	1.5	2.5	+	0	0	0
17	0	0	0	0	0	v 32	1.5	2.2	+	0	0	0
18	0	0	0	0	0	v 35	1.0	1.8	+	0	0	0
19	0	0	0	0	0	v 24	1.2	1.0	+	0	0	0
20	0	0	0	0	0	v 18	1.5	1.8	+	0	0	0
21	0	0	0	0	0.3	+	1.5	2.5	+	0	0	0
22	0	0	0	183 f	36	+	1.5	3.0	+	0	0	0
23	0	0	0	663 f	76	+	2.2	3.0	+	0	0	0
24	0	0	0	110 f	72	+	3.0	3.5	+	0	0	0
25	0	0	0	28 f	67	+	2.5	3.0	+	0	0	0
26	0	0	0	15	58	+	2.0	1.6	+	0	0	0
27	0	0	0	15	16	+	2.0	+	+	0	0	0
28	0	0	0	10	18	+	2.0	+	+	0	0	0
29	0	0	0	6.5		+	1.8	b 1.0	+	0	0	0
30	0	0	0	13		+	1.8	b 6		0	0	0
31	0		0	36		+		b 9.5		0	0	
	0	0	0	1079.5	497.0	1518	53.3	75.3	3.0	+	0	0
MEAN	0	0	0	348	17.8	49.0	1.78	2.43	0.10	+	0	0
ACRE-FEET	0	0	0	2140	986	3010	106	149	6.0	+	0	0

Remarks: + indicates 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 8.84 ACRE-FEET 6400

STATION F104-R

EATON WASH at Ellis Lane

LOCATION:

On the downstream side of Ellis Lane bridge (formerly Sunset Avenue) about 1 mile northwest of El Monte.

DRAINAGE AREA:

18.4 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of bridge.

RECORDER:

Installed October 1, 1930. Removed December, 1930 due to bridge construction.
Reinstalled November 10, 1931 over an 18 inch corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by Eaton Wash Dam.

DIVERSIONS:

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

RECORDS AVAILABLE:

October 1, 1930 to September 30, 1943. From December 28, 1930 to November 10, 1931, the recorder was located at Broadway (designated as Station F104B-R).

EXTREMES OF DISCHARGE:

1942-1943
Maximum 2280 second-feet, January 23
Minimum no flow most of year.
1930-1943
Maximum 2280 second-feet, January 23, 1943
Minimum no flow most of each year.

ACCURACY:

Fair.
Shifting control.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F104-R

DISCHARGE MEASUREMENTS OF EATON WASH

at Ellis Lane DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
235	10-28	328P / 335P	Haig & Waddicor	15.0	4.6	1.48	3.66	6.8	.6	8	0		FC 33
236	1-22	210A / 228A	Waddicor & Blakely	45.0	88.9	11.5	5.35	1020.	Est. .6	6	-.30		FC 24
237	1-23	1228P / 1235P	"	44.0	67.8	8.76	7.31	594.	.6	7	-.03		"
238	1-24	445P / 455P	Waddicor	28.0	7.03	2.50	6.15	17.6	.6	10	0		"
239	1-25	1110A / 1115A	Haig	10.0	1.92	1.88	6.16	3.6	.6	6	0		FC 33
240	1-31	1030A / 1040A	"	21.0	1.86	0.86	5.93	1.6	.6	8	-.02		"
241	2-21	337P / 405P	Waddicor	8.0	1.74	1.90	4.14	3.3	.6	5	-.02		FC 23
242	2-22	925A / 937A	"	27.0	14.3	5.44	4.93	77.8	.6	10	+.16		FC 24
243	2-22	1144A / 1150A	Haig	29.0	30.1	6.88	5.15	207.	.6	7	+.10		FC 33
244	2-23	417A / 430A	Waddicor	31.7	12.3	3.55	5.34	43.7	.6	12	-.01		FC 24
245	2-23	1246P / 1255P	"	30.7	12.3	3.88	5.50	47.7	.6	12	-.01		FC 24
246	2-24	810A / 826A	Waddicor & Blakely	Two Channels			5.69	86.1	.6	12	-.08		"
247	2-26	1108A / 1118A	Haig	31.5	10.2	3.82	5.74	39.0	.6	9	0		FC 33
248	3-2	1145A	"	1.2	0.08	2.00	4.13	0.16	Float	2	0		
249	3-3	1015A / 1020A	"	4.0	0.65	4.77	4.15	3.1	.6	5	0		FC 33
250	3-3	1005P / 1019P	Waddicor	40.0	21.3	5.07	5.12	108.	.6	10	+.31		FC 28
251	3-6	1019A / 1034A	Wallace	40.0	17.6	4.61	5.58	81.2	.6	11	+.14		
252	3-10	855A / 905A	Haig	23.0	7.45	2.90	5.72	21.6	.6	8	-.02		FC 33
253	3-20	1115A / 1122A	"	Three Channels			6.06	10.0	.6	10	0		FC 35

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

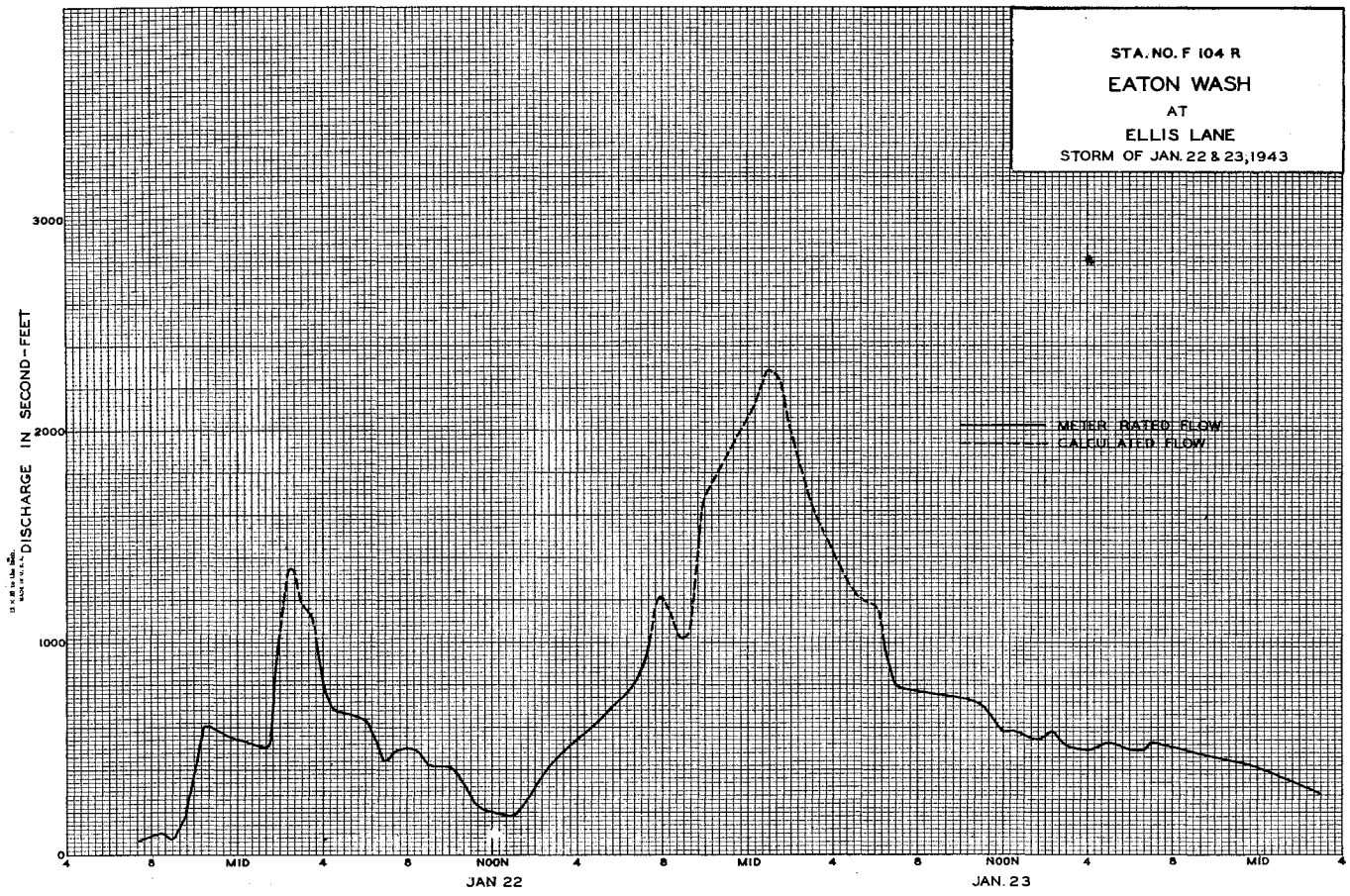
Sta. No F104R

Daily discharge, in second-feet of EATON WASH At Ellis Lane, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.1	0	44	1.1	0	0	0.2	0	0	0
2	0	0	0.1	0	7.5	b 0.4	0	0	0	0	0	0
3	0	0	0	0	+	109	0	0	0	0	0	0
4	0	0	0	0	0	404	0	+	0	0	0	0
5	0	0	0.1	0	0	145	0.7	0	0	0	0	0
6	0	0	0.5	0	0	99	0.4	0	0	0	0	0
7	0	0	0.1	0	0	68	0	+	0	0	0	0
8	0	0	0.2	+	+	69	0.3	0	0	0	0	0
9	0	0	0.4	0	0	64	0	0	0	0	0	0
10	0	0	0	+	0	44	0.3	0	0	0	0	0
11	0	0	0	0	0	105	0	0.2	0	0	0	0
12	0	0	0.1	0	0	63	0	0	0	0	0	0
13	0	0	0	0	0	41	0	+	0	0	0	0
14	0	0	0	0	0	34	0	+	0	0	0	0
15	0	0	0	+	0	31	0	0	0	0	0	0
16	0	0	0.1	0	0	34	0	0	0	0	0	0
17	0	0	0.7	0	0	25	0	0	0	0	0	0
18	0	0	+	0	0	22	0	+	0	0	0	0
19	0	1.3	+	0	0	24	0	0	0	0	0	0
20	0	0	0	0	0	10	0	0	0	0	0	0
21	0	0	0.3	73	0.3	0	0	0.2	0	0	0	0
22	0	0	0	v747	49	0	+	0	0	0	0	0
23	0	0	0.2	v885	48	0	+	0	0	0	0	0
24	0	0	11	b112	58	0	+	0	0	0	0	0
25	0	+	11	0.6	53	0	+	0.1	0	0	0	0
26	0	0	0	1.6	38	0	+	0	0	0	0	0
27	0	0	0	0.4	9.5	0	+	0	0	0	0	0
28	1.1	0.1	0	0	1.5	0	+	0	0	0	0	0
29	0	0.1	0	0		0	+	0	0	0	0	0
30	0	0	0	16		0	0.1	0	0	0	0	0
31	0		0	16		0		0		0	0	
	1.1	1.5	24.9	1851.6	308.8	1392.5	1.8	0.5	0.2	0	0	0
Mean	0.04	0.05	0.80	59.7	11.0	44.9	0.06	0.02	0.01	0	0	0
Acre-Feet	2.2	3.0	49.	3670.	612.	2760.	3.6	1.0	0.4	0	0	0

Remarks: + = 0.05 c.f.s. or less.

Year or Period — Mean 9.82 — Acre-Feet 7100.



STATION U7R

SAN GABRIEL RIVER BASIN Fish Creek near Duarte, Calif.

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°10'00", long. 117°55'25", in SW¼SW¼ sec. 15, T. 1 N., R. 10 W., three-quarters of a mile upstream from mouth of canyon and 3 miles northeast of Duarte. Altitude of gage, about 1,000 feet (from topographic map).

DRAINAGE AREA:

6.5 square miles.

RECORDS AVAILABLE:

July to September 1916, July 1917 to September 1943.

AVERAGE DISCHARGE:

26 years (1917-43), 4.64 second-feet.

EXTREMES:

Maximum discharge during year, 2,100 second-feet Jan 23 (gage height, 5.78 feet) from average of slope-area method and weir computation; minimum daily discharge, 0.1 second-foot Oct. 1-9.

1916-1943

Maximum discharge, about 2,180 second-feet Apr. 4, 1925; no flow during periods in 1919-21, 1924, 1929-30.

REMARKS:

Records fair. No diversions or regulation above station.

COOPERATION:

Results of 19 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer and M. E. Salsbury, acting chief engineer during the war emergency.

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U7R

DISCHARGE MEASUREMENTS OF FISH CREEK

AT OR NEAR Duarte DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1462	Sept17		U.S.G.S.				0.06	0.07		.6	7	0	
1463	Oct 2		"				0.08	0.09		.6	8	0	
1464	15		"				0.10	0.32		.6	10	0	
1465	22	1105A / 1110A	Haig	1.5	0.28	0.89	0.09	0.25		.6	3	0	FC.33
1466	27		U.S.G.S.				0.18	0.48		.6	8	0	
1467	Nov 5	950A / 955A	Haig	3.0	0.71	0.70	0.15	0.50		.6	4	0	FC.33
1468	13		U.S.G.S.				0.14	0.33		.6	8	0	
1469	19	108P / 115P	Haig	4.5	1.61	0.98	0.28	1.6		.6	5	0	FC.33
1470	24		U.S.G.S.				0.11	0.60		.6	10	0	
1471	Dec. 3	420P / 428P	Haig	4.4	1.19	0.50	0.12	0.59		.6	5	0	FC.33
1472	15		U.S.G.S.				0.11	0.52		.6	7	0	
1473	17	1140A / 1150A	Haig	4.5	1.20	0.47	0.13	0.56		.6	6	0	FC.33
1474	24		U.S.G.S.				0.21	1.4		.6	8	0	
1475	25		"				0.43	3.4		.6	13	-.02	
1476	Jan 5		U.S.G.S.				0.13	0.56		.6	7	0	
1477	8	100P / 106P	Haig	3.4	1.06	0.50	0.12	0.53		.6	5	0	FC.33
1478	13		U.S.G.S.				0.13	0.56		.6	7	0	
1479	25		"				1.38	53.0		.6	17	0	
1480	28		"				1.10	27.0		.6	17	-.02	
1481	Feb. 3		"				1.11	24.1		.6	17	0	
1482	Feb.11		U.S.G.S.				0.77	11.4		.6	14	0	
1483	17		"				0.58	7.5		.6	13	0	
1484	17	353P / 405P	Haig	12.5	5.04	1.42	0.58	7.2		.6	8	0	FC.33
1485	24		U.S.G.S.				2.11	138.		.6	13	-.03	
1486	Mar. 6		"				2.25	121.		.2 .8	11	0	
1487	10		"				1.57	47.6		2-8 .6	16	0	
1488	17		"				1.29	25.6		.6 2-8	18	-.01	
1489	20		"				1.19	23.5		.6	15	0	
1490	26		"				1.16	17.6		.6	14	0	
1491	Apr. 2		"				0.99	12.7		.6	13	0	
1492	9		"				1.12	15.0		.6	14	0	
1493	16		"				0.80	10.5		.6	13	0	
1494	21		"				0.65	9.8		.6	13	0	
1495	30		"				0.54	8.0		.6	12	0	
1496	May 7		"				0.57	7.6		.6	22	0	
1497	13	343P / 358P	Moon	12.0	6.94	0.78	0.53	5.4		.6	10	0	FC.22
1498	14		U.S.G.S.				0.55	5.7		.6	12	0	
1499	21		"				0.53	5.2		.6	10	0	
1500	28		"				0.52	5.0		.6	11	0	
1501	June 4		"				0.53	5.0		.6	20	0	
1502	12		"				0.49	4.1		.6	20	0	
1503	14	815A / 824A	Moon	9.8	5.50	0.84	0.48	4.6		.6	7	0	
1504	28	150P / 156P	"	10.3	5.20	0.69	0.39	3.6		.6	6	0	
1505	July 1	330P / 336P	Moon	9.8	4.92	0.55	0.40	2.7		.6	6	0	FC.22
1506	8	125P / 131P	"	10.2	4.12	0.68	0.38	2.8		.6	6	0	"
1507	9		U.S.G.S.				0.38	2.4		.6	19	0	
1508	14		"				0.41	2.4		.6	20	0	
1509	15	243P / 250P	Moon	10.0	4.31	0.65	0.43	2.8		.6	6	0	FC.22
1510	22	1043A / 1050A	"	10.0	3.84	0.65	.39	2.5		.6	6	0	"
1511	24		U.S.G.S.				.39	2.1		.6	19	0	
1512	29	245P / 252P	Moon	10.5	3.46	0.58	.35	2.0		.6	7	0	FC.22
1513	30		U.S.G.S.				.36	1.8		.6	9	0	
1514	Aug 5	312P / 320P	Moon	10.5	3.51	0.57	.35	2.0		.6	7	0	FC.22
1515	12	325P / 333P	"	10.5	3.06	0.49	.31	1.5		.6	8	0	"
1516	14		U.S.G.S.				.30	1.5		.6	18	0	
1517	19	230P / 238P	Moon	10.5	3.18	0.47	.29	1.5		.6	8	0	FC.22
1518	26	210P / 214P	"	4.0	1.23	1.06	.27	1.3		.6	4	0	"
1519	28		U.S.G.S.				.25	1.3		.6	8	0	
1520	Sept 2	155P / 159P	Moon	3.6	1.25	1.15	.16	1.4		.6	4	0	FC.22
1521	11		U.S.G.S.				.21	1.2		.6	7	0	
1522	15	135P / 145P	Brewster	3.0	1.04	1.06	.18	1.1		.6	6	0	FC.12
1523	23	225P / 229P	Moon	3.0	0.99	0.99	.16	.98		.6	4	0	FC.22
1524	24		U.S.G.S.				.17	1.0		.6	10	0	
1525	30	240P / 244P	Moon	3.0	1.08	1.11	.17	1.2		.6	4	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U7R

Daily discharge, in second-feet of FISH CREEK Near Duarte, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.5	0.6	0.6	45	28	15	8	4.7	2.5	1.6	1.1
2	0.1	0.5	0.6	0.6	28	24	14	7.5	4.9	2.5	1.6	1.1
3	0.1	0.5	0.6	0.6	24	96	12	7.5	4.9	2.5	1.7	1.0
4	0.1	0.5	0.6	0.6	22	263	10	7.5	4.7	2.5	1.8	1.0
5	0.1	0.5	0.6	0.6	19	211	13	7.5	4.3	2.5	1.8	1.0
6	0.1	0.5	0.6	0.6	16	122	20	7.5	3.9	2.5	1.7	1.0
7	0.1	0.5	0.6	0.6	14	89	13	7.5	3.7	2.3	1.6	0.9
8	0.1	0.4	0.6	0.6	18	68	16	7	3.7	2.2	1.5	0.9
9	0.1	0.4	0.6	0.6	15	58	16	6.5	3.5	2.2	1.5	1.0
10	0.2	0.4	0.6	0.6	13	51	15	6	3.5	2.2	1.5	1.2
11	0.2	0.4	0.6	0.6	13	42	14	6	3.7	2.0	1.5	1.1
12	1.3	0.4	0.6	0.6	12	39	13	5.5	4.1	2.0	1.4	1.1
13	0.4	0.3	0.6	0.6	11	34	12	5.5	4.1	2.3	1.4	1.1
14	0.4	0.3	0.6	0.6	10	32	11	5.5	4.1	2.3	1.4	1.1
15	0.3	0.4	0.6	0.6	9	31	11	5.5	3.5	2.5	1.4	1.1
16	0.3	0.4	0.6	0.6	8.5	29	10	5.5	3.1	2.7	1.3	1.1
17	0.3	0.4	0.6	0.7	7.5	28	10	5.5	3.0	2.5	1.3	1.1
18	0.3	0.4	0.6	0.7	7	29	10	5	3.0	2.5	1.3	1.0
19	0.3	1.4	0.6	0.6	6.5	26	10	4.9	3.0	2.3	1.3	1.0
20	0.2	0.8	0.6	0.6	6.5	24	10	4.9	3.0	2.2	1.3	1.0
21	0.2	0.6	0.6	1.8	25	22	9.5	4.7	3.0	2.2	1.3	1.0
22	0.2	0.6	0.6	874	139	21	9.5	4.5	3.0	2.1	1.3	1.0
23	0.2	0.6	0.7	771	138	20	8.5	4.5	3.0	2.0	1.3	1.0
24	0.3	0.6	1.3	103	144	19	8.5	4.5	3.1	1.8	1.3	1.0
25	0.4	0.6	3.2	59	97	18	8	4.5	3.1	1.7	1.2	1.0
26	0.4	0.6	0.8	49	66	17	8	4.7	3.0	1.7	1.1	1.1
27	0.4	0.6	0.6	46	45	17	8	4.7	2.9	1.7	1.1	1.2
28	1.3	0.6	0.6	28	34	17	8	4.5	2.7	1.7	1.0	1.2
29	0.8	0.6	0.6	23		17	8	4.5	2.7	1.7	1.0	1.2
30	0.6	0.6	0.6	39		17	8	4.7	2.5	1.7	1.0	1.2
31	0.6		0.6	73		16		4.7		1.6	1.1	
	10.5	15.9	22.2	2079.0	993.0	1525	339.0	176.8	105.4	67.1	42.6	31.8
MEAN	0.34	0.53	0.72	67.1	35.5	49.1	11.3	5.7	3.51	2.16	1.37	1.06
ACRE-FEET	21.	32.	44.	4120.	1970.	3020.	672.	351.	209.	133.	84.	63.

Remarks:

YEAR OR PERIOD — MEAN 14.8 — ACRE-FEET 10720.

STATION U12R

LOS ANGELES RIVER BASIN Haines Creek near Tujunga

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°15'50", long. 118°16'15", in NW¼NW¼ sec. 17, T. 2 N., R. 13 W., half a mile upstream from mouth of canyon and 1½ miles northeast of Tujunga. Altitude of gage, about 2,430 feet(from topographic map).

DRAINAGE AREA:

1.2 square miles.

RECORDS AVAILABLE:

February 1917 to September 1934, October 1935 to September 1943.

AVERAGE DISCHARGE:

25 years, 0.177 second-foot.

EXTREMES:

Maximum discharge during year, 142 second-feet Jan 23 (gage height, 3.93 feet); practically no flow at times in October, november and December.

1917-1934, 1935-43

Maximum gage-height, 11.0 feet Jan 1, 1934 (discharge not determined); no flow for periods in most years.

REMARKS:

Records good except those for days of no gage-height record which are poor. Water diverted for domestic use above and below gage.

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U12R

DISCHARGE MEASUREMENTS OF HAINES CREEK

AT NEAR Tujunga DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BASIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
320	9-10		U.S.G.S.				1.09	0.004		Vol.		0	
320a	10-1		"				1.09	0.003		Est.			
320b	10-15		"				1.13	0.002		Est.			
320c	10-26		"				1.16	0.002		Est.			
320d	11-11		"				1.07	0.003		Est.			
321	12-1		"				1.04	0.003		Vol.			
322	12-16		"				1.04	0.01		Vol.			
323	12-30		"				1.04	0.01		Vol.			
324	1-13		"				1.04	0.01		Vol.			
325	1-23		"					16.0		.6	4		
326	1-26		"				1.50	1.5		.6	10	0	
327	1-29		"				1.39	1.1		.6	6	0	
328	2-1		"				1.54	2.0		.6	9	0	
329	2-8		"				1.42	0.84		.6	5	0	
330	2-17		"				1.26	0.41		.6	4	0	
331	2-22		"				1.45	1.3		.6	7	0	

F. C. D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U12R

DISCHARGE MEASUREMENTS OF HAINES CREEK

NEAR Tujunga

DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
332	3-1		U.S.G.S.				1.46	1.7		.6	6	0	
333	3-3		"				1.49	1.6		.6	8	0	
334	3-8		"				1.76	2.6		.6	9	0	
335	3-19		"				1.42	0.98		.6	8	0	
336	3-25		"				1.38	0.99		.6	8	0	
337	3-30		U.S.G.S.				1.40	1.0		.6	8	0	
338	4-6		"				1.39	0.86		.6	8	0	
339	4-13		"				1.31	0.59		.6	6	0	
340	4-20		"				1.28	0.39		.6	6	0	
341	4-28		"				1.26	0.27		.6	4	0	
342	5-5		U.S.G.S.				1.25	0.42		.6	4	0	
343	5-12		"				1.23	0.24		.6	4	0	
344	5-19		"				1.19	0.23		.6	4	0	
345	5-26		"				1.19	0.17		.6	4	0	
346	6-1		"				1.19	0.22		Vol.		0	
347	6-9		"				1.16	0.21		Vol.		0	
348	7-3		"				1.11	0.08		Vol.		0	
349	7-14		"				1.11	0.09		Vol.		0	
350	7-22		"				1.08	0.04		Vol.		0	
351	7-28		"				1.09	0.04		Vol.			
352	8-13		"				1.08	0.04		Vol.			
353	8-26		"				1.06	0.02		Vol.			
354	9-10		"				1.06	0.01		Vol.		0	
355	9-24		"				1.06	0.01		Vol.			
356	10-5		"				1.05	0.01		Vol.			

P.C. Disc. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U12R

Daily discharge, in second-feet of HAINES CREEK Near Tujunga, for the year ending September 30, 19

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.002	0.003	e 0.003	a 0.01	2.0	1.7	0.88	0.29	0.21	0.09	0.04	0.02
2	0.002	0.003	e 0.003	a 0.01	1.9	1.6	0.88	0.32	0.21	0.09	0.04	0.02
3	0.002	0.003	e 0.003	a 0.01	1.4	3.5	0.83	0.35	0.24	0.09	0.04	0.01
4	0.002	0.003	e 0.003	a 0.01	1.2	6.5	0.83	0.39	0.24	0.09	0.04	0.01
5	0.002	0.003	e 0.003	a 0.01	1.1	3.4	0.83	0.42	0.24	0.09	0.04	0.01
6	0.002	0.003	0.01	a 0.01	1.0	3.0	0.88	0.39	0.24	0.09	0.04	0.01
7	0.002	0.003	0.01	a 0.01	0.88	2.8	0.73	0.35	0.24	0.09	0.04	0.01
8	0.002	0.003	0.01	a 0.01	0.83	2.5	0.78	0.32	0.24	0.09	0.04	0.01
9	0.002	0.003	0.01	a 0.01	0.73	2.4	0.73	0.32	0.24	0.09	0.04	0.01
10	0.002	0.003	0.01	a 0.01	0.64	2.2	0.69	0.29	0.24	0.08	0.04	0.01
11	0.002	0.003	0.01	a 0.01	0.57	1.9	0.64	0.29	0.24	0.08	0.04	0.01
12	0.002	0.003	0.01	a 0.01	0.53	1.7	0.60	0.26	0.24	0.08	0.03	0.01
13	0.002	0.003	0.01	a 0.01	0.49	1.6	0.57	0.26	0.24	0.08	0.03	0.01
14	0.002	0.003	0.01	a 0.01	0.49	1.5	0.57	0.26	0.24	0.08	0.03	0.01
15	0.002	0.003	0.01	a 0.01	0.46	1.4	0.53	0.26	0.21	0.08	0.03	0.01
16	0.002	0.003	0.01	a 0.01	0.42	1.2	0.49	0.26	0.21	0.08	0.03	0.01
17	0.002	0.003	0.01	a 0.01	0.42	1.2	0.46	0.26	0.19	0.08	0.03	0.01
18	0.002	0.003	0.01	a 0.01	0.39	1.0	0.42	0.24	0.19	0.06	0.03	0.01
19	0.002	0.003	0.01	a 0.01	0.39	1.0	0.39	0.24	0.19	0.06	0.03	0.01
20	0.002	0.003	0.01	a 0.01	0.39	1.0	0.39	0.24	0.17	0.06	0.03	0.01
21	0.002	0.003	0.01	a 0.02	0.49	1.0	0.39	0.21	0.17	0.06	0.03	0.01
22	0.002	0.003	0.01	a 14	1.7	1.0	0.35	0.21	0.17	0.05	0.03	0.01
23	0.002	0.003	0.01	a 35	1.5	1.0	0.35	0.19	0.17	0.05	0.03	0.01
24	0.002	0.003	0.01	a 5	3.4	1.0	0.35	0.19	0.17	0.05	0.03	0.01
25	0.002	0.003	0.01	a 2.5	2.1	1.0	0.32	0.17	0.15	0.05	0.03	0.01
26	0.002	0.003	0.01	a 1.7	1.9	1.0	0.29	0.17	0.15	0.04	0.02	0.01
27	0.002	0.003	0.01	1.8	1.8	1.0	0.26	0.19	0.13	0.04	0.02	0.01
28	0.002	0.003	0.01	1.3	1.8	1.0	0.26	0.19	0.13	0.04	0.02	0.01
29	0.002	0.003	0.01	1.2		1.0	0.24	0.19	0.11	0.04	0.02	0.01
30	0.002	0.003	0.01	2.3		0.93	0.26	0.19	0.09	0.04	0.02	0.01
31	0.002		a 0.01	3.2		0.88		0.21		0.04	0.02	
	0.062	0.090	0.275	68.22	30.92	53.91	16.19	8.12	5.90	2.13	0.98	0.32
MEAN	0.002	0.003	0.009	2.20	1.10	1.74	0.540	0.262	0.197	0.069	0.032	0.011
ACRE-FEET	0.12	0.18	0.55	135	61	107	32	16	12	4.2	1.9	0.63

Remarks:

YEAR OR PERIOD — MEAN 0.513 — ACRE-FEET 371

STATION F-149-R

LIMEKILN WASH at Devonshire Avenue

LOCATION:

In the center on the downstream end of a double box culvert under Devonshire Avenue about 2½ miles east of Chatsworth.

DRAINAGE AREA:

3.8 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and small boulders. Control-during the summer of 1942, a concrete apron was extended past the gage to insure low flow communication.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from top of culvert.

RECORDER:

Installed November 9, 1939, over a 12 inch iron pipe stilling well. A vertical rational recorder was in service from October 1, 1941, to September 30, 1943.

REGULATION:

None.

RECORDS AVAILABLE:

November 9, 1939, to September 30, 1942.

EXTREMES OF DISCHARGE:

1942-1943
Maximum estimated 300 second-feet, January 22.
Minimum no flow most of year.
1939-1943
Maximum 318 second-feet, February 17, 1941.
Minimum no flow most of year.

ACCURACY:

Poor due to poor control conditions part of year. Flows frequently estimated or interpolated.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F149-R

DISCHARGE MEASUREMENTS OF LIMEKILN WASH

AT Devonshire Avenue DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	WEAR SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
61	1-22	1001A / 1005A	Luce & Pardieck	6.5	3.97	3.24		12.9		.6	6		FC 39
62	1-26	635P / 637P	" "	3.0	0.76	1.40		1.1		.6	3		"
63	1-27	327P / 328P	" "	2.3	0.23	1.03		0.24		.6	2		"
64	1-29	1201P / 1202P	Luce	1.5	0.15	0.40		0.06		.6	2		"
65	2-1	420P / 425P	"	3.5	0.67	1.79		1.2		.6	4		"
66	2-23	1130A / 1135A	"	4.0	0.95	2.66		2.6		.6	4		FC 41
67	2-24	615P / 620P	"	3.0	0.51	1.04		0.53		.6	4		FC 39
68	2-24	651P / 656P	Luce & Pardieck	4.0	0.75	1.50		1.1		.6	4		FC 41
69	3-5	512P / 516P	Luce & Blakely	5.0	2.16	3.06		6.6		.6	6		FC 39
70	3-12	1225P / 1235P	Luce	3.5	0.65	1.26		0.82		.6	3		"
71	3-17	1021P / 1027P	Luce & Pardieck	6.5	2.54	3.19		0.81		.6	7		"
72	3-18	1010A / 1015A	" "	4.0	0.79	1.64		1.3		.6	5		"
73	3-25	502P / 504P	Luce	2.3	0.40	0.95		0.38		.6	4		"
74	4-2	1230P / 1235P	"	2.3	0.30	0.67		0.20		.6	3		"
75	4-16	1145A / 1150A	"	1.5	0.13	0.62		0.08		.6	3		"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F 149 R

Daily discharge, in second-feet of LIMEKILN CREEK at Devonshire Street for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	1.6	0.3	0.2	+	0	0	0	0
2	0	0	0	0	1.9	0.3	0.2	+	0	0	0	0
3	0	0	0	0	1.9	3.8	0.2	0	0	0	0	0
4	0	0	0	0	1.9	3.5	0.2	+	0	0	0	0
5	0	0	0	0	1.9	8	0.2	+	0	0	0	0
6	0	0	0	0	1.9	6	0.5	+	0	0	0	0
7	0	0	0	0	1.6	5	0.2	0	0	0	0	0
8	0	0	0	0	1.6	4.0	0.2	+	0	0	0	0
9	0	0	0	0	1.6	2.5	0.2	+	0	0	0	0
10	0	0	0	0	1.3	1.5	0.2	+	0	0	0	0
11	0	0	0	0	1.3	1.0	0.2	+	0	0	0	0
12	0	0	0	0	1.1	0.8	0.2	+	0	0	0	0
13	0	0	0	0	1.1	0.8	0.2	+	0	0	0	0
14	0	0	0	0	0.4	0.8	0.1	+	0	0	0	0
15	0	0	0	0	0.4	0.7	0.1	+	0	0	0	0
16	0	0	0	0	0.4	0.6	0.1	+	0	0	0	0
17	0	0	0	0	0.5	0.6	0.1	+	0	0	0	0
18	0	0	0	0	0.5	0.5	0.1	+	0	0	0	0
19	0	0	0	0	0.1	0.5	+	+	0	0	0	0
20	0	0	0	0	0.1	0.4	+	+	0	0	0	0
21	0	0	0	1.8	1.0	0.4	+	+	0	0	0	0
22	0	0	0	6.0	9	0.4	+	+	0	0	0	0
23	0	0	0	35	9.5	0.4	+	0	0	0	0	0
24	0	0	0	13	12	0.4	+	0	0	0	0	0
25	0	0	0	9	3.5	0.4	+	0	0	0	0	0
26	0	0	0	5.5	1.0	0.4	+	0	0	0	0	0
27	0	0	0	1.0	0.5	0.3	+	0	0	0	0	0
28	0	0	0	1.0	0.5	0.3	+	0	0	0	0	0
29	0	0	0	2.0	0.4	0.3	+	0	0	0	0	0
30	0	0	0	7		0.3	+	0	0	0	0	0
31	0		0	1.9		0.2		0		0	0	
	0	0	0	137.2	60.5	111.1	3.4	+	0	0	0	0
MEAN	0	0	0	4.43	2.09	3.58	0.11	+	0	0	0	0
ACRE-FEET	0	0	0	272	120	220	6.7	+	0	0	0	0

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 0.85 ACRE-FEET 619

STATION F65B-R

LITTLE DALTON CREEK above Mouth of Canyon

LOCATION:

On the left (east) bank about 120 feet above Glendora Mountain Road crossing, 3/4 mile above mouth of canyon and about 3 miles northeast of Glendora.

DRAINAGE AREA:

2.7 square miles.

CHANNEL AND CONTROL:

Channel-rock and gravel with wire mat riprap on sides.
Control-rubble and concrete checks in channel bottom.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from bridge crossing 122 feet below station.

RECORDER:

Installed January 1929 at Station F65R at mouth of canyon (drainage are 3.3 square miles). Removed November 23, 1938.
Reinstalled November 30, 1938 at Station F65B-R over a 21 inch diameter corrugated iron pipe stilling well.
An H.G.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

None.

DIVERSIONS:

Glendora Consolidated Mutual Water Company.

RECORDS AVAILABLE:

At Station F65R
January 28, 1929 to November 23, 1938.
At Station F65B-R
November 30, 1938 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 182 Second-feet, January 23.
Minimum no flow for several months.
1929-1943
Maximum 960 second-feet, estimated, March 2, 1938.
Minimum no flow several months each year.

ACCURACY:

Good for low flow.
Fair for high flows due to shifting control.

OPERATION:

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

F. C. D. FORM 104 3M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F65B-R

DISCHARGE MEASUREMENTS OF LITTLE DALTON CREEK

at above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
218	1-22	450A 500A	Brewster & Smith	15.0	11.2	3.79	2.15	42.4		.6	5	+.10	FC 12
219	1-22	645A 655A	" "	18.0	14.8	4.20	2.30	62.2		.6	5	-.04	"
220	1-22	320P 330P	" "	14.0	8.60	3.43	2.09	29.5		.6	4	+.02	"
221	1-22	738P 750P	" "	25.0	21.0	5.87	2.79	123.		.6	7	+.02	"
222	1-23	805A 820A	" "	16.0	12.0	9.50	2.76	114.		.6	4	+.04	"
223	1-23	208P 220P	" "	16.0	9.40	5.41	2.14	50.8		.6	4	+.02	"
224	1-24	920A 930A	" "	10.0	5.00	2.90	0.95	14.5		.6	5	0	FC 35
225	1-25	917A 926A	" "	10.0	4.20	2.29	0.76	9.6		.6	5	0	"
226	1-26	235P 245P	" "	9.0	3.20	1.72	0.74	5.5		.6	5	0	"
227	1-27	1035A 1045A	Brewster	9.0	3.05	1.93	0.75	5.9		.6	5	0	FC 12
228	1-29	1040A 1052A	"	10.0	3.55	1.41	0.72	5.0		.6	6	0	"
229	1-31	1015A 1025A	"	10.0	3.80	1.74	0.75	6.6		.6	5	0	"
230	2-4	955A 1005A	"	10.0	3.12	1.34	0.70	4.2		.6	5	0	FC 12
231	2-6	1025A 1035A	"	7.0	2.43	1.19	0.65	2.9		.6	5	0	"
231A	2-9	1110A 1120A	"	7.0	2.46	1.06	0.64	2.6		.6	5	0	"
232	2-10	1025A 1035A	"	6.0	2.18	1.10	0.62	2.4		.6	4	0	"
233	2-18	945A 955A	"	6.0	2.04	1.08	0.51	2.2		.6	4	0	"
234	2-21	230P 245P	"	10.0	4.80	1.94	0.84	9.3		.6	5	0	"
235	2-22	820A 830A	"	9.0	3.40	1.56	0.75	5.3		.6	5	0	"
236	2-23	940A 950A	"	10.0	5.00	2.36	1.37	11.8		.6	5	0	"
237	2-23	430P 440P	"	10.0	4.60	2.74	1.37	12.6		.6	5	0	"
238	2-24	500P 510P	"	10.0	5.00	3.04	1.52	15.2		.6	5	0	"
239	2-25	1125A 1135A	Brewster	10.0	4.75	2.78	1.44	13.2		.6	6	0	FC 12
240	3-1	405P 415P	"	9.0	3.40	2.29	1.14	7.8		.6	5	0	"
241	3-3	1210P 1220P	Brewster	9.0	3.95	2.35	1.28	9.3		.6	5	-.01	FC 12
242	3-3	543P 554P	Brewster & Smith	11.0	7.05	3.70	1.74	26.1		.6	5	-.01	"
243	3-4	855A 905A	"	13.0	12.5	5.74	2.02	71.8		.6	6	-.03	"
244	3-4	200P 210P	"	14.0	11.2	4.82	2.00	54.0		.6	7	-.01	"
245	3-5	828A 840A	"	14.0	11.0	4.46	1.95	49.1		.6	7	-.02	"
246	3-8	348P 400P	Brewster	14.0	8.40	2.26	0.98	19.0		.6	6	0	"
247	3-11	1105A 1115A	"	12.0	6.40	2.09	0.90	13.4		.6	6	0	"
248	3-15	1220P 1230P	"	11.0	5.45	2.09	0.75	11.4		.6	6	0	"
249	3-18	945A 955A	"	11.0	5.00	1.82	0.75	9.1		.6	6	0	"
250	3-22	1040A 1052A	"	11.0	4.85	1.55	0.74	7.5		.6	6	0	"
251	3-25	900A 912A	"	11.0	4.05	1.43	0.73	5.8		.6	6	0	"
252	3-29	1000A 1010A	"	10.0	3.80	1.32	0.72	5.0		.6	5	0	"
253	4-1	915A 925A	"	10.0	3.92	1.33	0.67	5.2		.6	5	0	"
254	4-5	210P 220P	"	10.0	3.40	1.24	0.65	4.2		.6	5	0	"
255	4-6	215P 225P	"	11.0	4.50	1.13	0.73	5.1		.6	5	0	"
256	4-8	930A 940A	"	10.0	4.40	1.14	0.72	5.0		.6	5	0	"
257	4-12	1020A 1030A	"	10.0	3.60	1.06	0.66	3.8		.6	5	0	"
258	4-15	905A 915A	"	10.0	3.60	0.94	0.65	3.4		.6	5	0	"
259	4-19	1025A 1035A	"	10.0	3.80	1.08	0.61	4.1		.6	5	0	"
260	4-22	920A 930A	"	10.0	3.60	0.92	0.60	3.3		.6	5	0	"
261	4-29	940A 950A	"	9.0	2.95	0.81	0.65	2.4		.6	5	0	"
262	5-6	847A 856A	"	9.0	2.71	0.96	0.64	2.6		.6	5	0	"
263	5-12	1006A 1015A	"	9.0	2.65	0.83	0.57	2.2		.6	5	0	"
264	5-20	952A 1000A	"	4.0	1.63	1.04	0.54	1.7		.6	4	0	"
265	5-27	910A 918A	Brewster	4.0	1.54	0.97	0.55	1.5		.6	4	0	FC 12
266	6-3	955A 1005A	"	4.0	1.63	0.98	0.50	1.6		.6	4	0	"
267	6-10	915A 925A	"	4.0	1.51	0.79	0.44	1.2		.6	4	0	"
268	6-17	1130A 1138A	"	4.0	1.32	0.71	0.40	0.94		.6	4	0	"
269	6-24	937A 945A	"	4.0	1.06	0.80	0.26	0.85		.6	4	0	"
270	7-1	902A 910A	"	3.0	0.69	1.04	0.24	0.72		.6	3	0	"
271	7-8	1014A 1020A	"	3.0	0.90	0.74	0.15	0.67		.6	3	0	"
272	7-15	1049A 1055A	"	3.0	0.60	1.18	0.17	0.71		.6	3	0	"
273	7-22	915A 920A	"	3.0	0.52	0.63	0.18	0.33		.6	3	0	"
274	7-29	1015A 1020A	"	1.0	0.30	0.93	0.14	0.28		.6	2	0	"
275	8-5	945A 950A	"	1.0	0.24	0.54	0.14	0.13		.6	2	0	"
276	8-12	941A 945A	"	0.5	0.11	0.55	0.11	0.06		.6	1	0	"
277	8-19	1122A 1125A	"	0.5	0.11	0.18	0.09	0.02		.6	1	0	"
278	8-26	836A 838A	Haig & van der Goot	0.67	0.09	0.44	0.10	0.04	Float		1	0	"

F. C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

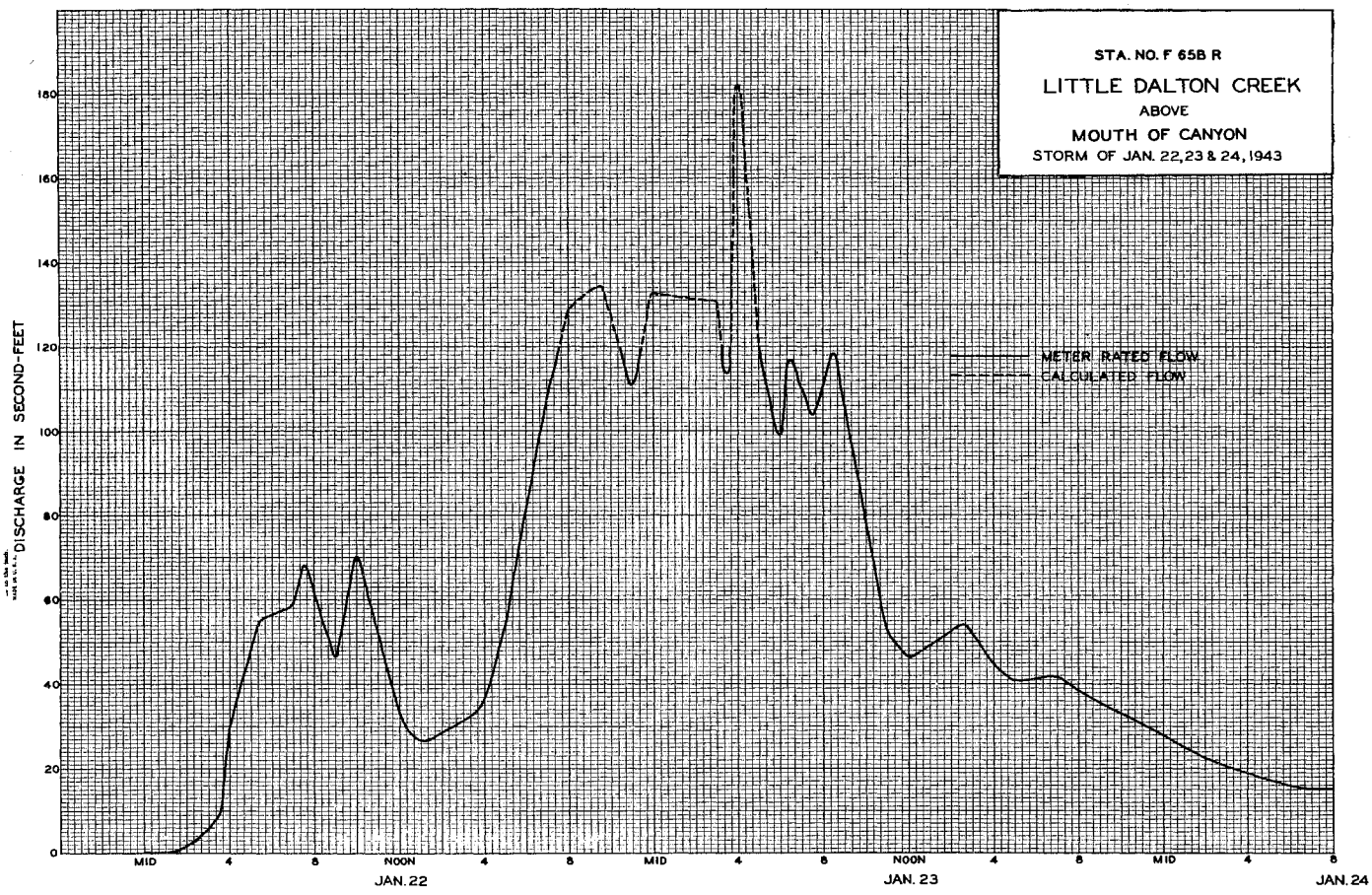
Sta. No. F65B-R

Daily discharge, in second-feet of LITTLE DALTON CREEK Above Mouth of Canyon, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	6	8	5	2.2	1.2	0.6	0.2	0
2	0	0	0	0	5.5	7	4.6	2.1	1.5	0.6	0.2	0
3	0	0	0	0	5	16	4.3	2.2	1.6	0.7	0.1	0
4	0	0	0	0	4.1	59	4.3	2.6	1.5	0.7	0.1	0
5	0	0	0	0	3.5	47	4.6	2.4	1.3	0.8	0.1	0
6	0	0	0	0	2.8 b	32	5	2.4	0.9	0.6	0.1	0
7	0	0	0	0	2.6 b	23	4.6	2.6	0.8	0.6	0.1	0
8	0	0	0	0	3.5 f	19	5	2.2	0.9	0.6	0.1	0
9	0	0	0	0	2.6	17	4.8	1.9	1.0	0.5	+	0
10	0	0	0	0	2.2	16	4.3	1.9	1.1	0.5	+	0
11	0	0	0	0	2.1	13	3.9	1.9	1.2	0.6	+	0
12	0	0	0	0	1.9	12	3.7	2.0	1.4	0.6	+	0
13	0	0	0	0	1.9	12	3.3	2.2	1.3	0.6	+	0
14	0	0	0	0	1.9	11	3.2	2.6	1.0	0.6	+	0
15	0	0	0	0	1.9	11	3.3	2.4	1.0	0.6	+	0
16	0	0	0	0	1.9	11	3.7	2.1	0.9	0.6	+	0
17	0	0	0	0	2.0	10	3.5	1.9	0.7	0.5	+	0
18	0	0	0	0	2.1	9	3.7	1.5	0.7	0.4	+	0
19	0	0	0	0	2.1	9	4.1	1.4	0.7	0.4	+	0
20	0	0	0	0	2.1	8.5	3.9	1.4	0.7	0.4	+	0
21	0	0	0	0	5.5	8	3.5	1.4	0.8	0.3	+	0
22	0	0	0	58	12	7.5	3.0	1.2	0.8	0.3	+	0
23	0	0	0	76	13	7	2.6	1.2	0.8	0.3	+	0
24	0	0	0	f 16	16	6	2.6	1.3	0.7	0.2	+	0
25	0	0	0	9.5	13	5.5	3.3	1.4	0.7	0.2	+	0
26	0	0	0	5.5	11	5.5	3.2	1.4	0.7	0.2	+	0
27	0	0	0	5.5	9.5	5	3.0	1.2	0.6	0.2	+	0
28	0	0	0	5	8.5	5	2.4	1.0	0.6	0.2	0	0
29	0	0	0	5		5	2.2	1.0	0.5	0.3	0	0
30	0	0	0	5.5		5	2.1	1.2	0.6	0.2	0	0
31	0		0	6.5		5		1.0		0.2	0	
	0	0	0	192.5	146.2	415.0	110.7	55.2	28.2	14.1	1.0	0
Mean	0	0	0	6.21	5.22	13.4	3.69	1.78	0.94	0.45	0.03	0
Acre-Feet	0	0	0	382.	290.	823.	220.	109.	56.	28.	2.0	0

Remarks: + = 0.05 c.f.s. or less.

Year or Period — Mean 2.64 — Acre Feet 1910.



STATION L1R

LITTLE ROCK CREEK above Little Rock Dam

LOCATION:

On the right (east) bank about 2 miles above Little Rock-Palmdale Irrigation District's Dam and approximately 1500 feet upstream from the junction of Little Rock and Santiago Creeks.

DRAINAGE AREA:

49.0 square miles.

CHANNEL AND CONTROL:

Channel-gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading near gage.
High flows measured from cable car 60 feet above gage.

RECORDER:

Installed September, 1930. Washed out during March 2, 1938 storm.
Reinstalled March 31, 1939 over a 4.0 ft x 4.0 ft. rubble masonry stilling well. Replaced masonry stilling well with a 24 inch corrugated iron pipe in May 1940. An Au continuous recorder was in service from October 1, 1940 to October 20, 1941.
An H.C.F. continuous recorder was in service from October 1, 1942 to May 20, 1943.
Station dismantled May 20,1943 and moved about 500 feet up stream.
H.C.F. continuous recorder in service May 25, 1943 to September 30, 1943.

REGULATION:

None;

RECORDS AVAILABLE:

October 1, 1930 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 5700, estimated, second-feet, January 23.
Minimum no flow part of year.
1930-1943
Maximum 17000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Poor from October 1 to May 25.
Flows frequently estimated due to extreme and undetermined channel shift and obstructed communication.
Good from May 26 to September 30.

OPERATION:

Originally located and installed by Little Rock-Palmdale Irrigation District, Reinstalled by the Los Angeles County Flood Control District and operated in co-operation with the U.S.G.S. Water Resources Branch.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. L1R

DISCHARGE MEASUREMENTS OF LITTLE ROCK CREEK

~~XXX~~ above Little Rock Dam DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
111	11-27	1105A / 1115A	Luce	5.0	1.30	0.83	0.84	1.1		.6	6	0	FC 39
112	12-19	125P / 135P	"	3.0	1.36	0.87	0.93	1.2		.6	5	0	"
113	1-16	1225P / 1230P	"	6.2	1.58	0.82	0.95	1.3		.6	6	0	"
114	1-24	635P / 650P	Luce-Pardieck	69.5	51.3	4.42	6.05	227.		.6	14	-.06	FC 41
115	2-20	1240P / 1250P	Luce	16.0	11.7	3.47	-	40.6		.6	8	-	FC 39
116	3-6	100P / 116P	Luce-Blakely	59.0	65.5	4.89	4.72	320.		.6	15	-.02	"
117	3-18	532P / 539P	Luce-Pardieck	36.0	33.3	2.55	-	84.9		.6	10	-	"
118	4-17	1145A / 1200N	Luce	18.5	19.9	3.06	-	61.0		.6	9	-	"
119	4-26	1135A / 1145A	"	16.0	16.3	2.93	-	47.9		.6	9	-	"
120	5-15	1220P / 1230P	"	13.0	10.9	1.85	-	20.2		.6	7	-	"
121	5-25	500P / 510P	"	16.5	9.89	1.15	4.00	11.4		.6	9	0	"
122	6-28	540P / 550P	"	15.0	5.03	0.78	3.71	3.9		.6	8	0	"
123	7-17	620P / 625P	"	13.5	3.56	0.56	3.57	2.0		.6	7	0	"
124	8-14	950A / 955A	"	3.6	1.27	0.87	3.49	1.1		.6	6	0	"
125	9-18	430P / 435P	"	3.0	0.95	0.78	3.40	0.74		.6	6	0	"

F.C. Dist. Form 53 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

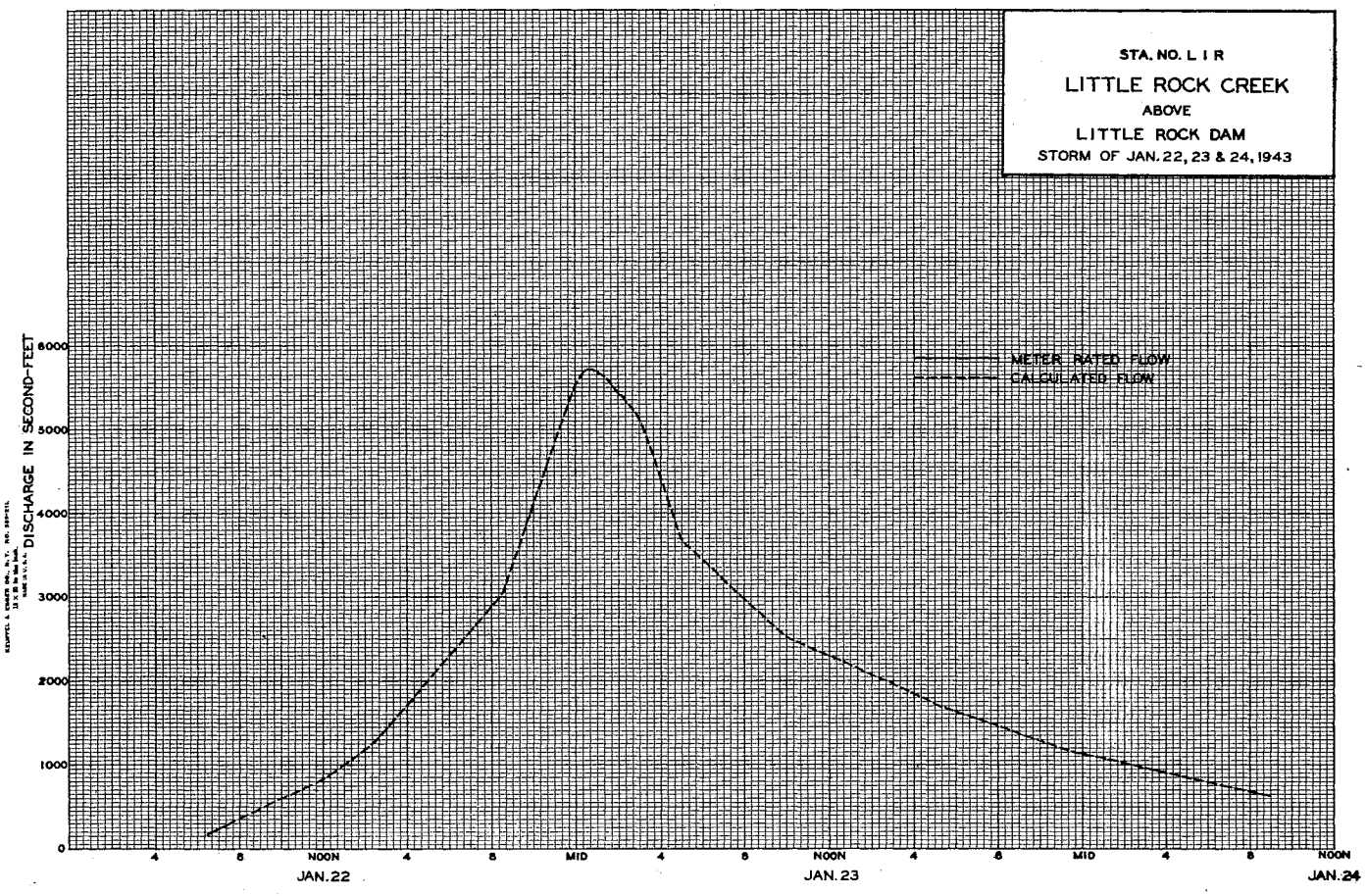
Sta. No. L1-R

Daily discharge, in second-feet of LITTLE ROCK CREEK Above Little Rock Dam, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	1.0	1.5	157	b 70	b 73	b 41	11	4.2	1.0	0.9
2	0	0	1.0	1.5	v112	b 60	b 74	b 40	11	4.4	1.1	0.9
3	0	0	1.0	1.5	v 90	208	b 73	b 38	10	4.4	1.3	0.8
4	0	0	1.0	1.6	v 75	1610	b 73	b 37	11	4.4	1.4	0.8
5	0	0	1.0	1.6	v 66	788	b 72	b 35	11	3.8	1.6	0.8
6	0	0	1.0	1.6	v 70	400	b 71	b 34	10	3.4	1.6	0.8
7	0	0	1.1	1.6	v 70	224	b 70	b 33	10	3.2	1.5	0.8
8	0	0	1.2	1.6	v 90	b150	b 70	b 32	9.5	3.0	1.4	0.8
9	0	0	1.2	1.5	v 82	b160	b 69	b 30	9	2.9	1.3	0.9
10	0	0	1.2	1.6	v 74	b160	b 68	b 28	9	2.8	1.1	0.9
11	0	+	1.2	1.6	v 67	b148	b 67	b 26	9	2.6	1.0	0.9
12	0	0.2	1.2	1.6	v 62	b134	b 66	b 25	9	2.6	1.0	0.8
13	0	0.4	1.1	1.5	v 57	b122	b 65	b 24	9.5	2.4	1.0	0.8
14	0	a 0.4	1.0	1.4	v 53	b112	b 64	b 22	9.5	2.4	1.0	0.8
15	0	a 0.5	1.0	1.3	v 50	b102	b 63	b 20	8.5	2.4	1.0	0.8
16	0	a 0.5	1.0	1.5	v 47	b 93	b 62	b 19	7.5	2.4	1.0	0.8
17	0	a 0.6	1.0	1.3	v 45	b 85	b 61	b 18	7	2.3	0.9	0.8
18	0	a 0.6	1.1	1.4	v 43	b 85	b 60	b 17	6.5	2.1	0.9	0.8
19	0	a 0.6	1.2	1.3	v 42	b 85	b 58	b 16	6	2.0	0.8	0.8
20	0	a 0.7	1.2	1.2	41	b 84	b 56	b 15	6	2.0	0.8	0.9
21	0	a 0.8	1.2	1.3	329	b 83	b 55	a 14	6	1.9	0.8	0.9
22	0	a 0.8	1.2	1400 v	655	b 82	b 53	a 13	5.5	1.9	0.8	0.8
23	0	a 0.8	1.2	2730 v	590	b 82	b 51	a 12	5.5	1.9	0.9	0.9
24	0	a 0.9	1.4	536 v	v340	b 81	b 50	a 11	5.2	1.8	0.8	1.0
25	0	a 1.0	1.9	240 v	v220	b 80	b 49	a 11	5	1.8	0.8	1.0
26	0	a 1.0	2.3	153 v	v150	b 79	b 48	11	4.8	1.5	0.8	1.0
27	0	a 1.1	2.1	110 v	v110	b 79	b 46	11	4.6	1.4	0.8	1.0
28	0	1.1	1.8	86 v	v 85	b 78	b 45	11	4.4	1.4	0.8	1.0
29	0	1.1	1.7	72 v		b 77	b 44	11	4.2	1.3	0.8	1.0
30	0	1.0	1.6	62		b 76	b 42	10	4.2	1.2	0.8	1.0
31	0		1.6	126		b 76		11		1.1	0.8	
	0	14.1	39.7	5545.8	3872	5753	1820	676	229.4	76.9	31.6	26.2
MEAN	0	0.47	1.28	179.	138.	186.	60.7	21.8	7.65	2.48	1.02	0.87
ACRE-FEET	0	28.	79.	11000.	7680.	11410.	3610.	1340.	455.	152.	63.	52.

Remarks:

YEAR OR PERIOD MEAN 49.5
ACRE-FEET 35870.



STATION U3R

LOS ANGELES RIVER BASIN Little Santa Anita Creek near Sierra Madre

LOCATION :

Water-stage recorder and control lat. 34°11'15", long. 118°02'35", near center of NW¼ sec. 9, T. 1N., R. 11 W., 2 miles northeast of Sierra Madre. Altitude of gage, about 2,200 feet (from topographic map).

DRAINAGE AREA:

1.9 square miles.

RECORDS AVAILABLE:

April 1916 to September 1943.

AVERAGE DISCHARGE:

26 years (1916-25, 1926-43), 1.01 second-feet.

EXTREMES:

Maximum discharge during year, 324 second-feet Mar. 4 from rating extended above 74 second-feet by logarithmic plotting (gage height, 3.75 feet); minimum daily, 0.1 second-foot many days.

1916-1943

Maximum discharge, 536 second-feet Mar. 2, 1938, computed on basis of inflow to Sierra Madre flood-control reservoir; no flow during periods in 1919, 1924, and 1925.

REMARKS:

Records good. No diversions above station.

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U-3-R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

AT OR NEAR Sierra Madre DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
703	10-2		U.S.G.S.				0.50	0.06		.6	7	0	
704	10-16		"				0.54	0.10		.6	7	0	
705	10-26		"				0.54	0.10		.6	14	0	
706	11-11		"				0.54	0.085		.6	7	0	
707	11-24		"				0.56	0.15		.6	7	0	
708	12-21		"				0.56	0.15		.6	5	0	
709	12-28		"				0.58	0.24		.6	6	0	
710	1-12		"				0.56	0.10		.6	5	0	
711	1-24		"				1.33	20.5		.6	20	0	
712	1-29		"				1.01	7.0		.6	10	0	
713	2-10		"				0.99	4.5		.6	10	0	
714	2-18		"				0.90	3.1		.6	10		
715	3-1		"				1.22	11.4		.6	17	0	
716	3-5		"				2.11	66.7		.6	23	0	
717	3-8		U.S.G.S.				1.54	30.9		.6	14	0	
718	3-11		U.S.G.S.				1.43	17.8		.6	13	0	
719	3-23		"				1.16	7.5		.6	12	0	
720	3-31		"				1.08	5.4		.6	11	0	
721	4-7		"				1.05	4.6		.6	11	0	
722	4-14		"				1.01	4.2		.6	11	0	
723	4-19		U.S.G.S.				0.99	3.5		.6	11	0	
724	4-26		"				0.96	3.1		.6	11	0	
725	5-3		"				0.93	2.5		.6	10	0	
726	5-10		"				0.90	2.7		.6	10	0	
727	5-31		"				0.84	1.7		.6	10	0	
728	6-12		"				0.83	1.6		.6	10	0	
729	7-10		"				0.76	1.0		.6	10	0	
730	7-14		"				0.75	0.89		.6	11	0	
731	7-25		"				0.71	0.72		.6	10	0	
732	7-26		"				0.73	0.69		.6	6	0	
733	8-16		"				0.68	0.57		.6	8	0	
734	9-13		"				0.64	0.36		.6	7	0	
735	9-27		"				0.66	0.52		.6	7	0	
736	10-8		"				0.63	0.37		.6	7	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U3R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK Near Sierra Madre, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.2	0.2	11	11	5	2.5	1.8	1.2	0.6	0.4
2	0.1	0.1	0.2	0.2	10	11	4.7	2.5	1.8	1.2	0.6	0.4
3	0.1	0.1	0.2	0.2	9.5	25	4.7	2.5	1.7	1.2	0.6	0.4
4	0.1	0.1	0.2	0.2	8	81	4.5	2.5	1.6	1.2	0.7	0.4
5	0.1	0.1	0.2	0.2	7	69	5	2.5	1.8	1.1	0.6	0.4
6	0.1	0.1	0.2	0.2	6	52	6	2.5	1.7	1.1	0.6	0.4
7	0.1	0.1	0.2	0.2	6	34	4.7	2.5	1.6	1.0	0.6	0.4
8	0.1	0.1	0.2	0.1	5.5	24	5.5	2.6	1.5	1.0	0.6	0.4
9	0.1	0.1	0.2	0.1	4.7	22	5	2.6	1.5	1.0	0.6	0.4
10	0.1	0.1	0.2	0.1	4.5	20	4.7	2.7	1.5	1.0	0.6	0.4
11	0.1	0.1	0.2	0.1	4.3	18	4.7	2.7	1.5	1.0	0.6	0.4
12	0.3	0.1	0.2	0.1	4.1	16	4.5	2.7	1.6	1.0	0.6	0.4
13	0.1	0.1	0.2	0.1	3.8	14	4.3	2.6	1.6	0.9	0.6	0.4
14	0.1	0.1	0.1	0.1	3.6	13	4.1	2.6	1.4	0.9	0.6	0.4
15	0.1	0.1	0.1	0.1	3.6	12	4.1	2.5	1.4	0.9	0.6	0.4
16	0.1	0.1	0.1	0.1	3.4	11	3.9	2.3	1.4	0.9	0.5	0.4
17	0.1	0.1	0.1	0.1	3.2	11	3.7	2.3	1.3	0.9	0.5	0.4
18	0.1	0.1	0.2	0.1	3.1	11	3.6	2.2	1.3	0.8	0.5	0.4
19	0.1	0.3	0.2	0.1	2.9	9.5	3.6	2.1	1.2	0.8	0.5	0.4
20	0.1	0.2	0.2	0.1	2.9	9	3.6	2.1	1.2	0.8	0.5	0.4
21	0.1	0.2	0.2	0.3	5.5	8.5	3.4	2.1	1.2	0.8	0.5	0.4
22	0.1	0.2	0.2	95	19	8	3.2	2.1	1.1	0.8	0.5	0.4
23	0.1	0.2	0.2	59	16	8.0	3.2	2.1	1.1	0.8	0.5	0.4
24	0.1	0.2	0.4	19	20	7.5	3.0	2.1	1.1	0.7	0.5	0.4
25	0.1	0.2	0.8	15	16	7	3.0	2.1	1.1	0.7	0.5	0.5
26	0.1	0.2	0.3	12	13	7	3.0	2.1	1.1	0.7	0.5	0.5
27	0.1	0.2	0.3	10	12	6.5	2.9	2.0	1.1	0.6	0.5	0.5
28	0.3	0.2	0.2	8	12	6	2.9	1.8	1.1	0.6	0.4	0.5
29	0.2	0.2	0.2	7		6	2.7	1.8	1.1	0.6	0.4	0.5
30	0.2	0.2	0.2	10		6	2.6	1.8	1.1	0.6	0.4	0.4
31	0.1		0.2	15		5.5		1.8		0.6	0.4	
	3.7	4.3	6.8	253.0	220.6	549.5	119.8	71.3	41.7	27.4	16.7	12.5
MEAN	.12	.14	.22	8.16	7.88	17.7	3.99	2.30	1.39	.88	.54	.42
ACRE-FEET	7.3	8.5	13	502	438	1090	238	141	83	54	33	25

Remarks:

YEAR OR PERIOD MEAN 3.64
ACRE FEET 2,630

STATION F67B-R

LITTLE SANTA ANITA CREEK below Sierra Madre Dam

LOCATION:

On the left (east) bank about 270 feet below Sierra Madre Dam and about 1½ miles northeast of Sierra Madre.

DRAINAGE AREA:

2.4 square miles.

CHANNEL AND CONTROL:

Channel-rubble masonry, depth 7.5 feet, width 24.6 feet at top and 22.5 feet at bottom. Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading near station. High flows measured from foot bridge 30 feet above station.

RECORDER:

Installed January 28, 1929 at Station F67R
About 1000 feet downstream from present location.
Removed May 20, 1936.
Reinstalled May 21, 1936 in a 4 ft x 3 ft combination concrete stilling well and house.
An H.C.F. recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

The 30 inch gate valve in the Sierra Madre Dam remains open except in emergency conditions.

DIVERSIONS:

Underground and surface flow developed and diverted by Sierra Madre Water Department.

RECORDS AVAILABLE:

At Station F67R
January 28, 1929 to May 20, 1936.
At Station F67B-R
May 21, 1936 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 533 second-feet, January 23.
Minimum no flow several months during year.
1929-1943
Maximum 620 second-feet, estimated, March 2, 1938.
Minimum no flow several months during each year.

ACCURACY:

Fair for low flows.
Poor for high flows.
Gage height discharge relation is inconsistent due to high velocities past gage, and irregularities in the channel bottom.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F67B-R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA

~~xxx~~ Below Sierra Madre Dam DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
173	1-7	140P	Haig				.05	.002	Vol.				
174	1-22	1135A 1145A	Haig & Clair	22.0	10.2	13.2	0.60	129.		.6	7		
175	1-24	1250P 1255P	"	13.0	3.27	12.7	0.40	41.5	Floats				FC 33
176	1-27	934A 940A	"	Two Channels			0.23	13.9		.6	7		"
177	1-31	405P 410P	"	" "			0.27	22.6		.6	6		"
178	2-4	442P 452P	"	" "			0.14	12.5		.6	12		"
179	2-10	1208P 1215P	"	" "			0.20	6.4		.6	6		"
180	2-18	1210P 1215P	"	" "			0.09	3.0		.6	6		"
181	2-22	256P 302P	"	" "			0.26	26.0		.6	7		"
182	2-24	305P 310P	"	" "									
183	3-4	230A 246A	"	22.6	15.4	22.05	0.94	340.		.6	7		"
184	3-9	130P 140P	"	Three Channels			0.27	29.8		.6	12		"
185	3-18	147P 155P	"	2	"		0.12	15.4		.6	7		FC 35
186	3-26	210P 220P	"	2	"		0.08	9.7		.6	6		"
187	3-31	1005A 1015A	"	3	"		.07	7.3		.6	8		"
188	4-6	105P 110P	"				.07	8.7		.6	5		"
189	4-16	135P 145P	"	Two Channels			.07	6.1		.6	5		"
190	4-22	902A 907A	"	" "			0.03	2.3		.6	5		"
191	4-28	1038A 1045A	"	" "			.04	2.8		.6	7		"
192	5-7	125P 135P	Moon	" "			.02	2.2		.6	5		"
193	5-14	205P 210P	"	" "			0.05	1.1		.6	5		FC 22
194	5-21	214P 218P	"	" "			0.04	0.65		.6	4		"
195	5-27	1045A 1055A	Haig	Four Channels			0.05	1.4		.6	7	0	FC 33
196	6-4	800A 802A	Moon	Two Channels			0.06	1.6		.6	4	0	FC 22
197	6-14	1212P 1213P	"	" "			0.02	0.58		.6	2	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F67B-R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK Below Sierra Madre Dam, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	+	18	12	6.5	3.0	1.2	+	+	+
2	+	+	+	+	16	15	5.5	3.0	1.7	+	+	+
3	+	+	+	+	15	50	5.5	3.7	1.7	+	+	+
4	+	+	+	+	12	124	6.5	3.7	1.2	+	+	+
5	+	+	+	+	9	90	6.5	3.0	0.8	+	+	+
6	0.3	+	+	+	11	69	9	2.3	0.3	+	+	+
7	0.1	+	+	+	16	48	9	3.0	0.3	+	+	+
8	+	+	+	+	13	38	9	3.0	0.3	+	+	+
9	+	+	+	+	9 d	29	9	3.0	0.3	+	+	+
10	+	+	+	+	6.5 d	27	9	3.7	0.5	+	+	+
11	0.2	+	+	+	6.5 d	25	9	3.7	0.5	+	+	+
12	+	+	+	+	5.5 d	25	9	3.0	0.5	+	+	+
13	+	+	+	+	4.5 d	23	7.5	2.3	0.5	+	+	+
14	+	+	+	+	3.7 d	20	7.5	1.2	0.5	+	+	+
15	+	+	+	+	2.3 d	20	6.5	1.2	0.3	+	+	+
16	+	+	+	+	2.3 d	18	6.5	0.8	0.3	+	+	+
17	+	+	+	+	3.0 d	16	5.5	0.5	0.3	+	+	+
18	+	+	+	+	3.0 d	16	4.5	0.3	0.3	+	+	+
19	+	+	+	+	3.0	15	3.7	0.1	0.5	+	+	+
20	+	+	+	+	3.7	13	2.3	0.1	0.5	+	+	0
21	+	+	+	4.1	5	12	3.7	0.3	0.3	+	+	0
22	+	+	+	1.7.7	26	10	3.0	0.3	+	+	+	0
23	+	+	+	2.0.8	29	10	3.0	0.3	+	+	+	0
24	+	+	+0.6	4.8	30	10	2.3	0.3	+	+	+	0
25	+	+	1.8	2.0	21	9	3.0	0.5	+	+	+	0
26	+	+		1.5	18	9	3.7	0.8	+	+	+	0
27	+	+	+	1.6	18	9	3.0	1.2	+	+	+	0
28	0.2	+	+	1.0	13	9	3.0	1.2	+	+	+	+
29	+	+	0.1	1.8		9	2.3	1.2	+	+	+	+
30	+	+	+	1.9		9	3.0	0.8	+	+	+	+
31	+		+	3.0		7.5		0.8		+	+	
	0.8		2.5	323.0		1675		12.8		+		
				565.1		796.5		52.3		+		+
MEAN	0.03	+	0.08	18.2	11.5	25.7	5.58	1.69	0.43	+	+	+
ACRE-FEET	1.6	+	5.0	1120.	641.	1580.	332.	104.	25.	+	+	+

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 52.6
ACRE-FEET 3810.

STATION F267R

LITTLE SANTA ANITA CREEK at Woodland Avenue

LOCATION:

On the left (northeast) channel wall about 30 feet from junction with Big Santa Anita Creek; about 20 feet east of the intersection of Woodland Avenue and First Street and about one mile North of Arcadia.

DRAINAGE AREA:

3.8 square miles.

CHANNEL AND CONTROL:

Channel-rectangular concrete, 6 feet deep and 10 feet wide.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from downstream road culvert headwall at station.

RECORDER:

Installed December 30, 1938 over an 18 inch diameter corrugated iron pipe stilling well. A Stevens type L recorder was in service from October 1, 1942, to September 30, 1943.

REGULATION:

Partially regulated by Sierra Madre Dam.
Usual regulation affects high flows only.

DIVERSIONS:

Underground and surface flow developed and diverted by Sierra Madre Water Department.
Flow also diverted about one mile above station for spreading in Sierra Madre Spreading Grounds.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 542 second-feet, January 23.
Minimum no flow most of year.
1938-1943
Maximum not determined.
Minimum no flow most of each year.

ACCURACY:

Fair.

OPERATION:

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

REMARKS:

Several prior years records are not published due to insufficient reliable records.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F267-R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

AT Woodland Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	C. HT. CHANGE TOTAL	METER NO.
32	10-29	1130A	Haig	10.0	0.20	0.70	0.02	0.14		FL	1		
33	1-21	915P / 917P	"	10.0	2.50	8.58	0.30	21.4		"	2		
34	1-21	1005P	"	10.0	2.80	7.93	0.35	22.2		"	4		
35	1-22	545A / 550A	Haig & Clair	10.0	8.80	13.1	0.89	115.		"	4		
36	1-22	1040A / 1045A	" "	10.0	8.50	10.9	0.75	93.0		"	4		
37	1-24	125P / 128P	Haig	10.0	2.80	10.3	0.28	28.8		"	1		
38	1-26	420P	"	10.0	2.00	5.00	0.20	10.0		"	2		
39	1-29	130P / 134P	"	10.0	1.67	3.83	0.30	6.4		"	4		
40	1-30	1130A / 1135A	"	10.0	2.63	5.02	0.30	13.2		.6	4		FC 33
41	1-31	330P / 335P	"	10.0	3.10	5.78	0.36	17.9		.6	4		"
42	2-3	1245P	"	10.0	1.60	4.80	0.16	7.7		FL	1		
43	2-4	355P	"	10.0	1.60	4.80	0.16	7.7		"	1		
44	2-5	425P	"	10.0	1.60	4.80	0.16	7.7		"	1		
45	2-6	305P / 310P	"	10.0	2.17	3.50	0.26	7.6		.6	6		FC 33
46	2-10	200P	"	10.0	0.50	1.05	0.04	0.51		FL	1		
47	2-21	710P / 713P	"	10.0	1.90	3.58	0.19	6.8		"	2		
48	2-22	1230P	"	10.0	4.80	8.89	0.48	42.7		"	4		
49	2-22	753P / 755P	"	10.0	4.64	8.25	0.45	38.3		"	4		
50	2-23	135P / 138P	"	10.0	2.80	6.07	0.26	17.0		"	2		
51	2-26	215P / 218P	"	10.0	2.40	5.75	0.24	13.8		"	4		
52	3-2	435P	"	10.0	1.56	3.59	0.24	5.6		"	4		
53	3-3	1107P / 1110A	Haig	10.0	2.00	4.98	0.20	10.0		FL	4		
54	3-3	240P	"	10.0	3.80	7.60	0.42	28.9		"	1		
55	3-4	140A / 155A	Haig & Snyder	10.0	14.0	16.9	1.32	237.		.6	5		
56	3-5	1140A	Haig	10.0	6.00	9.26	0.60	55.6		FL	1		
57	3-5	600P / 610P	Haig & Wallace	10.0	5.79	13.3	0.58	76.7		.6	7		FC 33
58	3-6	445P / 450P	Haig	10.0	7.35	8.82	0.98	64.8		FL	5		
59	3-7	635P / 641P	Blakely & Tulga	10.0	5.00	10.5	0.42	52.5		.6	5		FC 44
60	3-11	1215P / 1220P	Haig	10.0	3.12	7.40	0.30	23.1		.6	6		FC 33
61	3-13	115P / 118P	"	10.0	2.70	6.41	0.27	17.3		FL	4		
62	3-16	112P / 120P	"	10.0	2.00	6.75	0.20	13.5		.6	6		FC 35
63	3-18	425P / 430P	"	10.0	1.40	5.07	0.14	7.1		.6	6		"
64	3-26	400P	"	10.0	0.40	0.78	0.04	0.31	Surf.		1		"
65	3-31	1155A	"	6.0	0.36	1.20	0.04	0.43		.6	1		"
66	4-8	1150A	"	10.0	0.40	1.78	0.04	0.71		FL	1		

P.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

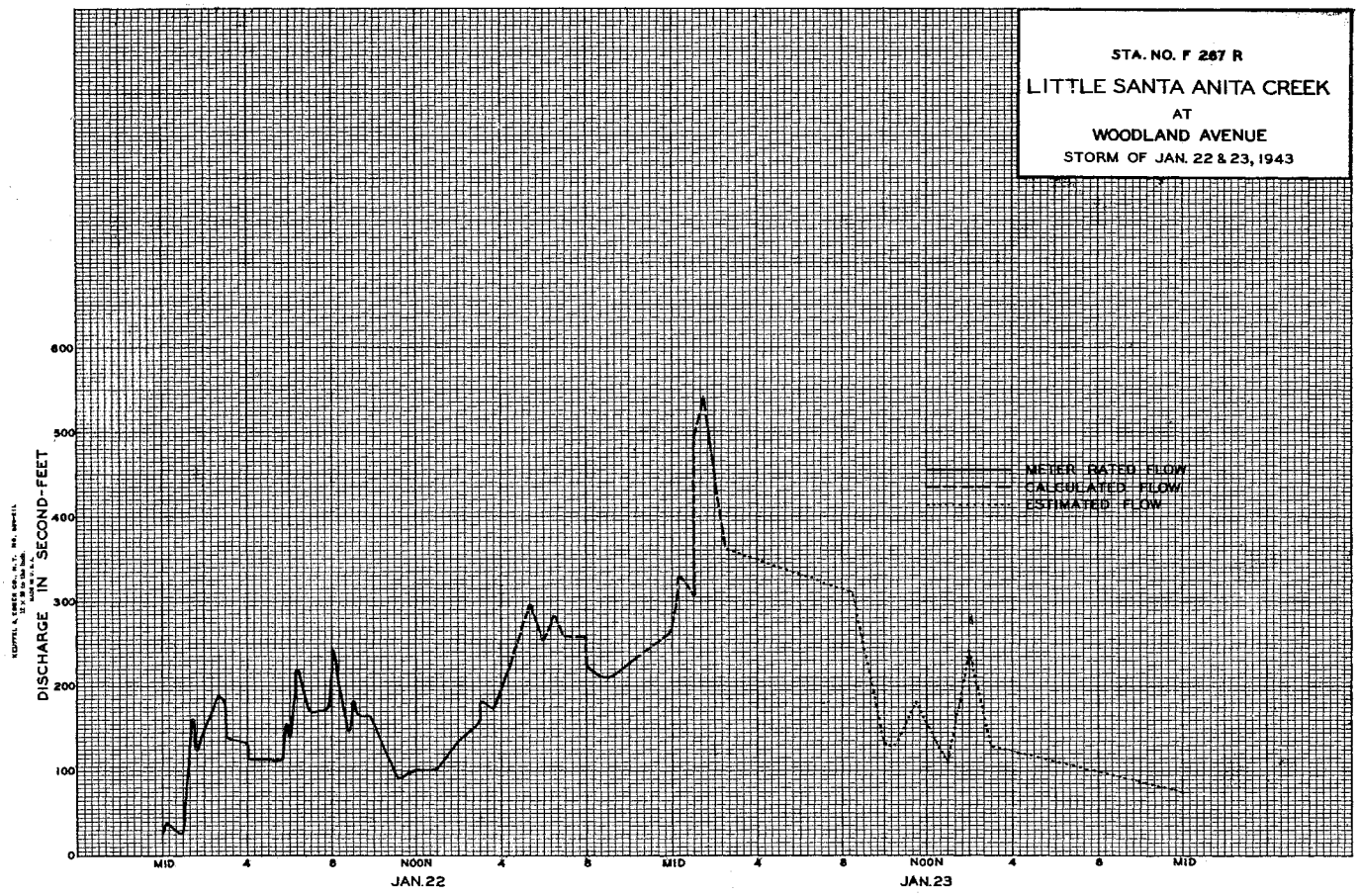
Sta. No. F267R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK At Woodland Avenue, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0	+	b 12	b 8	0.7	0.1	+	0	0	0
2	+	+	0	+	b 10	6	0.7	0.1	+	0	0	0
3	+	+	0	+	8	29	0.2	0.1	+	0	0	0
4	+	+	0	+	6	103	0.2	0.1	+	0	0	0
5	+	+	0	+	8	65	0.8	0.1	+	0	0	0
6	+	+	0	+	b 4.6	47	0.8	0.1	+	0	0	0
7	+	+	0	+	1.8	42	0.1	+	+	0	0	0
8	+	+	0	+	0.7	b 33	a 0.4	+	+	0	0	0
9	+	+	0	+	b 0.6	b 25	0.2	+	+	0	0	0
10	+	+	0	+	0.4	b 23	0.2	+	+	0	0	0
11	+	+	0	+	0.2	b 22	d 0.1	+	0	0	0	0
12	1.7	+	0	+	0.2	b 19	d 0.1	0	0	0	0	0
13	0.4	+	+	+	0.2	b 17	d +	0	0	0	0	0
14	0.2	+	+	+	0.1	b 16	d +	0	0	0	0	0
15	0.1	+	+	+	0.1	b 15	d +	0	0	0	0	0
16	+	+	+	+	0.1	b 13	d +	0	0	+	0	0
17	+	+	+	+	+	b 12	d +	0	0	+	0	0
18	+	+	+	+	+	b 10	d +	0	0	+	0	0
19	+	1.2	+	+	+	8	d +	0	0	+	0	0
20	+	+	+	+	0.1	6.5	d +	0	0	+	0	0
21	+	+	+	3.6	3.5	6	d +	+	0	+	0	0
22	+	+	+	172	b 28	39	0.1	+	0	+	0	0
23	+	+	+	b 216	20	27	0.1	+	0	+	0	0
24	+	+	0.3	b 40	17	14	d 0.1	+	0	+	0	0
25	+	+	0.8	17	14	10	d 0.1	+	0	0.5	0	0
26	+	+	+	12	13	0.4	d 0.1	+	0	+	0	0
27	+	+	+	12	b 13	1.4	d 0.1	+	0	+	0	0
28	0.2	+	+	b 8	b 10	6.5	d 0.1	+	0	+	0	0
29	0.1	+	+	6.5		7	d 0.1	+	0	+	0	0
30	0.1	+	+	13		1.0	0.1	+	0	+	0	0
31	+		+	18		0.4		+		+	0	
	2.8	1.2	1.1	518.1	171.8	551.2	5.4	0.6	+	0.5	0	0
MEAN	0.09	0.04	0.04	16.7	6.14	17.8	0.18	0.02	+	.02	0	0
ACRE-FEET	5.6	2.4	2.2	1030.	341.	1090.	11.	1.2	+	1.0	0	0

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD — MEAN 3.43 — ACRE-FEET 2480.



STATION F19R

LITTLE TUJUNGA WASH at Foothill Boulevard

LOCATION:

On downstream side of Foothill Boulevard bridge, ¼ miles east of San Fernando.

DRAINAGE AREA:

21.0 square miles.

CHANNEL AND CONTROL:

Channel-sand and silt.
Concrete control below gage was washed out January 21, 1943 and rebuilt June 1943.

DISCHARGE MEASUREMENTS:

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

RECORDER:

Installed December, 1928 over an 18 inch diameter corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

None.

DIVERSIONS:

None known.

RECORDS AVAILABLE:

December 26, 1928 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 3700 second-feet, estimated, January 23.
Minimum no flow part of year.
1929-1943
Maximum 8500 second-feet, estimated, March 2, 1938.
Minimum no flow part of each year.

ACCURACY:

Poor.
Low flows frequently interpolated or estimated due to communication being obstructed by sand.
Shifting control subsequent to January 21.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F19R

DISCHARGE MEASUREMENTS OF LITTLE TUJUNGA CREEK

AT Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
298	1-22	843A / 849A	Luce-Pardieck	30.5	21.5	6.40	3.77	138.		.6	9	-.02	FC 39
299	1-23	135A / 155A	" "	100.6	215.	8.40	4.94	1850.		.6	19	0	FC 41
300	1-23	245P / 300P	" "	Two Channels			4.28	348.		.6	8	0	"
301	1-26	1059A / 1103A	" "	13.7	3.99	3.27		13.1		.6	7		FC 39
302	1-29	1230P / 1240P	Luce	8.0	1.82	2.97		5.4		.6	5		"
303	2-5	1245P / 1255P	"	Two Channels				6.7		.6	8		"
304	2-23	630P / 638P	Luce-Pardieck	26.0	7.58	5.06		38.3		.6	8		FC 41
305	2-26	945A / 955A	Luce	21.0	8.65	4.93		42.6		.6	9		FC 39
306	3-3	340P / 350P	Luce-Blakely	Two Channels				42.6		.6	12		"
307	3-9	110P / 120P	Luce	16.0	8.95	4.92		44.0		.6	8		"
308	3-12	825A / 835A	"	13.0	7.60	3.95		30.0		.6	8		"
309	3-18	833A / 838A	Luce-Pardieck	13.0	7.78	2.76		21.5		.6	7		"
310	3-25	935A / 945A	Luce	10.0	5.51	2.23		12.3		.6	6		"
311	4-2	1020A / 1030A	"	8.5	4.93	1.74		8.6		.6	5		"
312	4-9	840A / 850A	"	9.0	5.26	2.00		10.5		.6	5		"
313	4-24	920A / 930A	"	4.8	1.96	3.58	4.28	7.0		.6	5	0	"
314	4-29	250P / 300P	"	5.0	1.58	2.47	4.22	3.9		.6	5	0	"
315	5-7	415P / 420P	"	6.0	2.44	1.39	4.16	3.4		.6	6	0	"
316	5-13	1030A / 1045A	"	6.0	2.35	1.11	4.12	2.6		.6	6	0	"
317	5-20	1205P / 1215P	Turner	7.0	1.68	0.89		1.5		.6	6	0	FC 5
318	5-27	142P / 150P	Luce	5.5	1.75	0.80	4.08	1.4		.6	6	0	FC 39
319	6-5	1010A / 1015A	"	5.0	1.38	0.80	4.07	1.1		.6	5	0	"
320	6-12	910A / 915A	"	4.0	0.80	1.12	4.07	0.90		.6	4	0	"
321	6-18	212P / 215P	Luce-Turner	1.7	0.28	1.14	3.91	0.32		.6	5	0	"
322	6-24	430P / 435P	Luce	1.5	0.12	0.50	3.82	0.06		.6	3	0	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

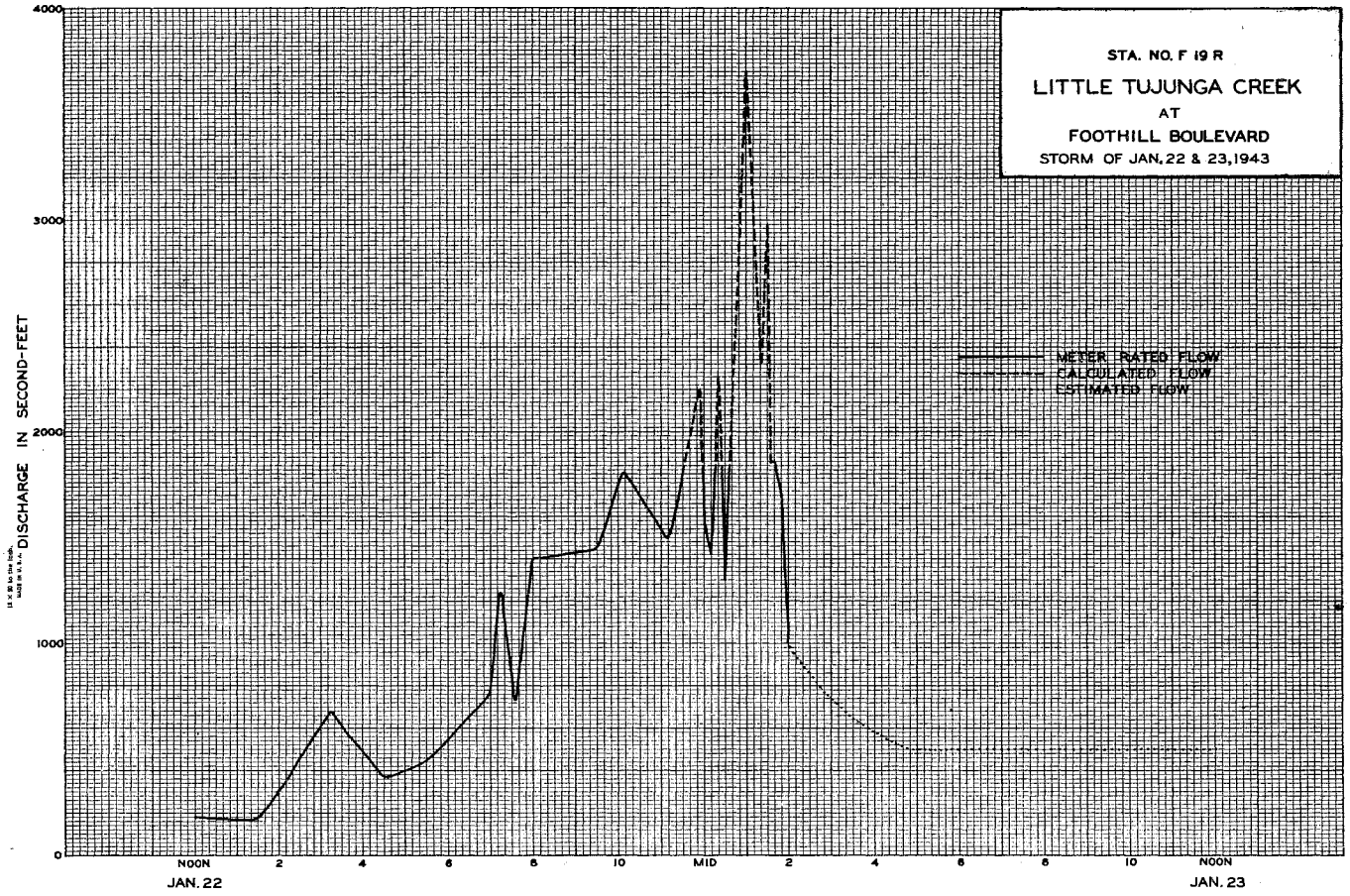
Sta. No F-19-R

Daily discharge, in second-feet of LITTLE TUJUNGA WASH At Foothill Boulevard, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	40	25	9	3.8	1.2	0	0	0
2	0	0	0	0	25	25	8.5	3.7	1.2	0	0	0
3	0	0	0	0	15	50	8	3.6	1.1	0	0	0
4	0	0	0	0	10	250	7.5	3.6	1.1	0	0	0
5	0	0	0	0	8	300	8.5	3.5	1.1	0	0	0
6	0	0	0	0	7	100	13	3.4	1.1	0	0	0
7	0	0	0	0	6	60	9	3.4	1.1	0	0	0
8	0	0	0	0	10	50	15	3.3	1.0	0	0	0
9	0	0	0	0	6	55	10	3.2	1.0	0	0	0
10	0	0	0	0	5	45	9	3.0	0.9	0	0	0
11	0	0	0	0	4.5	40	8.5	2.8	0.9	0	0	0
12	0	0	0	0	4.0	30	8.5	2.6	0.9	0	0	0
13	0	0	0	0	3.5	25	8.5	2.6	0.8	0	0	0
14	0	0	0	0	3.5	20	8.5	2.5	0.7	0	0	0
15	0	0	0	0	3.0	20	8	2.3	0.6	0	0	0
16	0	0	0	0	2.5	20	8	2.1	0.5	0	0	0
17	0	0	0	0	2.5	15	8	1.9	0.4	0	0	0
18	0	0	0	0	2.5	20	8	1.7	0.3	0	0	0
19	0	0	0	0	2.0	16	7.5	1.6	0.3	0	0	0
20	0	0	0	0	2.0	14	7.5	1.5	0.2	0	0	0
21	0	0	0	0	3.0	13	7.5	1.5	0.2	0	0	0
22	0	0	0	592	7	15	7.5	1.5	0.1	0	0	0
23	0	0	0	500	100	13	7	1.5	0.1	0	0	0
24	0	0	0	100	200	12	7	1.4	0.1	0	0	0
25	0	0	0	10	50	12	6.5	1.4	0.1	0	0	0
26	0	0	0	15	40	11	6	1.4	0.1	0	0	0
27	0	0	0	20	35	10	5.5	1.4	0.1	0	0	0
28	0	0	0	10	30	10	5	1.4	+	0	0	0
29	0	0	0	5		19	3.9	1.4	+	0	0	0
30	0	0	0	35		9.5	3.8	1.3	+	0	0	0
31	0		0	100		9.5		1.3		0	0	
	0		0		700.0		238.2		17.2		0	
		0		1387		1304.0		71.6		0		0
MEAN	0	0	0	44.7	25.0	42.1	7.94	2.31	.57	0	0	0
ACRE-FEET	0	0	0	2750.	1390.	2590.	472.	142.	34.	0	0	0

Remarks: + = 0.05 c.f.s. or less. Poor record - see Accuracy

YEAR OR PERIOD MEAN 10.2 ACRE-FEET 7380.



STATION F31R

LIVE OAK CREEK above Mouth of Canyon

LOCATION:

On the right (west) bank of stream near mouth of canyon, about ¼ 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.
Control-concrete with a 2 foot Cipolletti weir 12 inches deep.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from bridge 350 feet below station.

RECORDER:

Installed January 4, 1928 in a concrete house over a 3 ft x 4 ft concrete stilling well. An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow regulated by Live Oak Dam.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 4, 1928 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum-54 second feet January 23.
Minimum-No flow most of year.
1928-1943
Maximum 257 second-feet March 2, 1938.
Minimum no flow most of each year.

ACCURACY:

Good.

OPERATION:

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

F. C. D FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F31R

DISCHARGE MEASUREMENTS OF LIVE OAK CREEK

AT OR NEAR Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
85	1-22	835A / 843A	Brewster & Smith	4.0	1.06	0.92	0.28	0.97		.6	4	-.05	FC 12
86	1-22	1202P / 1208P	" "	3.0	0.44	0.48	0.07	0.21		.6	3	0	"
87	1-23	1043A / 1054A	" "	11.0	11.0	4.36	1.79	48.0		.6	6	-.02	"
88	1-24	400P / 415P	" "	7.0	7.74	3.13	1.42	24.2		.6	7	0	FC 35
89	1-25	412P / 424P	" "	7.0	8.10	2.83	1.40	22.9		.6	7	0	"
90	1-26	435P / 445P	" "	6.0	5.00	2.00	1.14	10.0		.6	6	0	"
91	1-27	422P / 430P	Brewster	4.5	2.93	0.92	0.50	2.7		.6	6	0	"
92	1-30	740A / 750A	"	5.5	4.02	1.37	0.84	5.5		.6	6	0	"
93	2-4	515P / 520P	"	1.0	0.33	0.36	0.06	0.12		.6	2	-.01	FC 12
94	2-10	207P / 210P	"	1.0	0.12	0.08	0.01	0.01		.6	2	0	"
95	2-22	855A / 900A	"	3.0	0.48	0.62	0.12	0.30		.6	3	+.01	"
96	2-22	550P / 558P	"	4.0	3.75	2.40	1.12	9.0		.6	4	0	"
97	2-23	1250P / 100P	"	5.0	5.77	2.72	1.29	15.7		.6	6	0	"
98	2-25	350P / 400P	Brewster	5.0	4.90	1.84	1.08	9.0		.6	5	0	FC 12
99	2-27	1205P / 1215P	"	5.0	3.45	1.10	0.63	3.8		.6	5	0	"
100	3-4	1127A / 1135A	Brewster & Smith	4.0	4.75	2.44	1.16	11.6		.6	4	0	"
101	3-5	1122A / 1130A	" "	5.0	6.52	3.53	1.40	23.0		.6	6	0	"
102	3-6	259P / 307P	" "	5.0	5.88	2.81	1.28	16.5		.6	6	0	"
103	3-8	1125A / 1135A	Brewster	5.0	5.90	2.68	1.27	15.8		.6	6	0	"
104	3-11	252P / 300P	"	3.5	0.69	0.88	0.19	0.61		.6	4	0	"
105	3-18	310P / 320P	"	7.0	3.75	1.15	0.72	4.3		.6	4	0	"
106	3-22	122P / 130P	"	4.0	1.96	1.02	0.38	2.0		.6	4	0	"
107	3-25	155P / 203P	"	4.0	1.95	0.82	0.37	1.6		.6	4	0	"
108	4-1	512P / 520P	Brewster	4.0	3.30	0.45	0.35	1.5		.6	4	0	FC 12
109	4-8	1212P / 1220P	"	4.0	1.65	1.33	0.40	2.2		.6	4	0	"
110	4-15	1215P / 1222P	"	4.0	2.55	0.55	0.35	1.4		.6	4	0	"
111	4-22	106P / 115P	"	8.0	2.28	0.53	0.33	1.2		.6	4	0	"
112	4-29	220P / 230P	"	8.0	2.04	0.59	0.32	1.2		.6	4	0	"
113	5-6	1138A / 1145A	"	9.0	1.83	0.33	0.20	0.61		.6	4	0	"
114	5-12	120P / 128P	"	7.0	1.23	0.47	0.19	0.58		.6	4	0	"
115	5-20	1219P / 1225P	"	3.0	0.81	0.53	0.15	0.43		.6	3	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F31R

Daily discharge, in second-feet of LIVE OAK CREEK near mouth of canyon, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	1.6	2.7	1.5	0.9	0	0	0	0
2	0	0	0	0	1.6	0.8	1.7	+	0	0	0	0
3	0	0	0	0	1.1	5.5	1.7	0.3	0	0	0	0
4	0	0	0	0	0.2	17	1.8	0.6	0	0	0	0
5	0	0	0	0	0.1	25	1.9	0.6	0	0	0	0
6	0	0	0	0	+	20	2.1	0.6	0	0	0	0
7	0	0	0	0	+	16	2.0	0.6	0	0	0	0
8	0	0	0	0	0.1	19	2.1	0.6	0	0	0	0
9	0	0	0	0	+	13	1.9	0.6	0	0	0	0
10	0	0	0	0	+	3.5	1.8	0.6	0	0	0	0
11	0	0	0	0	0	0.6	1.7	0.6	0	0	0	0
12	0	0	0	0	0	0.6	1.6	0.6	0	0	0	0
13	0	0	0	0	0	0.5	1.5	0.6	0	0	0	0
14	0	0	0	0	0	0.6	1.4	0.6	0	0	0	0
15	0	0	0	0	0	0.6	1.4	0.6	0	0	0	0
16	0	0	0	0	0	0.6	1.4	0.6	0	0	0	0
17	0	0	0	0	0	1.0	1.4	0.6	0	0	0	0
18	0	0	0	0	0	4.9	1.3	0.5	0	0	0	0
19	0	0	0	0	0	3.3	1.2	0.4	0	0	0	0
20	0	0	0	0	0	2.0	1.2	0.4	0	0	0	0
21	0	0	0	0	0.1	2.0	1.2	0.5	0	0	0	0
22	0	0	0	8.0	5	2.0	1.2	0.4	0	0	0	0
23	0	0	0	3.5	1.7	1.8	1.2	0.3	0	0	0	0
24	0	0	0	2.9	1.6	1.7	1.2	0.2	0	0	0	0
25	0	0	0	2.3	1.1	1.6	1.2	0.2	0	0	0	0
26	0	0	0	1.7	3.5	1.6	1.2	0.1	0	0	0	0
27	0	0	0	5.5	5.5	1.6	1.2	0	0	0	0	0
28	0	0	0	1.6	3.4	1.5	1.2	0	0	0	0	0
29	0	0	0	2.5		1.6	1.2	0	0	0	0	0
30	0	0	0	5.5		1.6	1.2	0	0	0	0	0
31	0		0	3.7		1.5		0		0	0	
	0	0	0	130.8	71.2	155.7	44.6	12.6	0	0	0	0
MEAN	0	0	0	4.22	2.54	5.02	1.49	0.41	0	0	0	0
ACRE-FEET	0	0	0	259.	141.	309.	88.	25.	0	0	0	0

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 1.14 ACRE-FEET 822.

STATION F5B-R

LOS ANGELES RIVER below Sepulveda Bouleward

LOCATION:

On the left (north) bank about 700 feet below Sepulveda Bouleward and about ½ mile below Sepulveda Dam.

DRAINAGE AREA:

157 square miles.

CHANNEL AND CONTROL:

Channel-natural adobe overgrown with weeds during summer months.
Control-concrete slab at gage.

DISCHARGE MEASUREMENTS:

At Station F5B-R
Low flows measured by wading.
High flows measured from cable car 7 feet above gage.

RECORDER:

Installed December 19, 1928 at Station F5R. Removed March 2, 1938. Reinstalled April 28, 1938.
Moved to station F5B-R on August 23, 1941 and installed over a 24 inch diameter, corrugated iron pipe stilling well. Communication to well is thru 31 feet of 36 inch corrugated iron pipe. An H.C.F. continuous recorder was in service from October 1, 1941 to November 27, 1941. An Au continuous recorder was in service from November 27, 1941 to September 30, 1943.

REGULATION:

Regulated by Sepulveda Dam. Inflow to Sepulveda Dam partially regulated by Chatsworth Reservoir, Upper and Lower San Fernando Reservoirs, Twin Lakes Dams, Encino Reservoir and several small dams in various mountain tributaries.

DIVERSIONS:

Several diversions for irrigation on the mountain tributaries.
Several water supply reservoirs divert flow.
Flow may include irrigation waste at various times.

RECORDS AVAILABLE:

At Station F5R
December 19, 1928 to March 2, 1938 and from April 28, 1938 to August 23, 1941.
At Station F5B-R
August 23, 1941 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 2710 second-feet, Jan 23.
Minimum 5.0 second-feet, Jan 20.
1929-1943
Maximum 12000 second-feet, estimated, March 2, 1938.
Minimum flow negligible at various times.

ACCURACY:

Fair.

OPERATION:

Located and constructed by the U.S. Engineer Department. Operated by the U.S. Engineer Department and the Los Angeles County Flood Control District.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F5B-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

XXX below Sepulveda Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
160	10-1	905A / 935A	U.S.G.S.	16.2	12.7	0.91	1.31	11.6		.6	21	0	2107
161	10-1	327P / 335P	Bollinger	9.5	13.7	1.01	1.56	13.8		.6	9	+.01	FC 6
162	10-8	220P / 232P	"	10.5	13.4	1.07	1.46	14.4		.6	9	0	"
163	10-15	357P / 407P	"	15.5	13.3	1.08	1.42	14.4		.6	11	0	"
164	10-22	352P / 357P	"	15.0	12.9	1.12	1.39	14.4		.6	9	0	"
165	10-23	1013A / 1027A	U.S.E.D. #1	17.0	13.3	1.03	1.42	13.7		.6	11	-.01	35629
166	10-28	327P / 336P	Bollinger	24.2	31.6	0.73	2.07	23.0		.6	9	+.01	FC 6
167	10-29	255P / 305P	"	17.5	15.0	1.04	1.44	15.6		.6	10	0	"
168	11-5	500P / 506P	"	10.0	5.70	1.16	0.57	6.6		.6	8	-.01	"
169	11-12	503P / 510P	"	10.7	5.45	1.06	0.55	5.8		.6	8	-.02	"
170	11-19	445P / 453P	"	13.8	13.9	1.00	1.31	13.9		.6	9	0	"
171	11-25	945A / 1015A	U.S.G.S.	14.0	13.7	0.98	1.31	13.4		.6	22	0	2107
172	11-25	1000A / 1013A	Bollinger	11.0	13.2	1.07	1.31	14.1		.6	11	0	FC 6
173	12-3	450P / 500P	"	14.5	11.5	1.03	1.17	11.8		.6	9	0	"
174	12-9	438P / 448P	"	11.0	5.36	1.09	0.44	5.8		.6	11	0	"
175	12-17	453P / 503P	"	10.9	5.29	1.08	0.46	5.7		.6	8	-.02	"
176	12-23	105P / 115P	"	11.0	5.57	1.11	0.46	6.2		.6	10	-.01	"
177	12-24	1042A / 1055A	U.S.E.D. #2	11.2	8.40	0.90	0.75	7.5		.6	11	-.06	8
178	12-30	122P / 145P	Bollinger	33.8	52.5	0.93	2.76	49.0		.6	16	+.02	FC 6
179	1-2	950A / 1035A	U.S.G.S.	32.5	44.5	1.11	2.68	49.6		.2 .8	25	0	2107
180	1-7	330P / 347P	Bollinger	29.5	43.7	1.16	2.61	50.6		.6	16	0	FC 6
181	1-14	212P / 226P	"	21.0	25.3	1.22	2.08	30.9		.6	12	-.02	"
182	1-20	152P / 205P	Bollinger & Haig	5.2	1.62	3.17	0.40	5.1		.6	6	0	"
183	1-22	743A / 820A	Bollinger & Belt	52.5	266.	4.99	7.34	1330.		.6	11	-.40	"
184	1-22	330P / 400P	U.S.G.S.	51.0	157.	4.43	6.40	695.		.2 .8	10	+.19	2107
185	1-23	453A / 550A	Bollinger & Belt	58.0	371.	7.55	9.39	2430.		.6	12	+.18	FC 6
186	1-24	1123A / 1210P	U.S.E.D. #3	59.0	349.	5.56	8.40	1940.		.6	12	-.10	7
187	1-24	1220P / 100P	U.S.E.D. #4	59.0	315.	5.58	8.32	1760.		.6	12	-.09	"
188	1-24	316P / 345P	U.S.E.D. #5	57.0	334.	5.24	8.05	1750.		.6	11	-.04	"
189	1-25	1018A / 1039A	U.S.E.D. #6	42.0	154.	2.94	4.96	453.		.6	9	-.31	"
190	1-25	246P / 303P	U.S.E.D. #7	33.0	107.	1.83	3.48	196.		.6	7	+.08	"
191	1-25	717P / 735P	Bollinger	20.0	67.2	1.33	2.66	88.5		.6	6	-.14	FC 6
192	1-28	1030A / 1115A	U.S.G.S.	17.0	17.5	1.24	1.50	21.6		.6	20	-.04	2107
193	1-31	755A / 813A	Bollinger	37.0	54.3	1.63	3.94	94.3		.6	7	+.04	FC 6
194	1-31	843A / 910A	"	38.0	101.	1.84	4.06	184.		.6	8	+.01	"
195	2-1	1050A / 1125A	U.S.G.S.	20.0	60.8	1.33	2.76	80.6		.2 .8	8	-.01	2107
196	2-5	130P / 142P	Bollinger	24.3	24.9	2.21	2.67	55.0		.6	11	0	FC 6
197	2-8	348P / 400P	"	24.0	23.4	2.34	2.86	54.8		.6	11	0	"
198	2-13	848A / 858A	Bollinger & Belt	30.0	18.9	2.30	2.72	43.6		.6	11	-.02	"
199	2-13	1135A / 1143A	" "	18.0	12.2	2.20	2.28	26.9		.6	9	-.01	"
200	2-16	315P / 320P	Bollinger & Fuller	18.8	12.8	2.54	2.52	32.4		.6	8	0	"
201	2-17	403P / 416P	U.S.E.D. #8	21.5	13.2	2.36	2.48	31.3		.6	10	+.02	4
202	2-19	125P / 135P	Bollinger	18.2	12.6	2.39	2.60	30.0		.6	11	0	FC 6
203	2-21	137P / 153P	Bollinger & Belt	21.0	17.4	2.17	2.92	37.7		.6	10	0	"

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO F5B-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at below Sepulveda Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
204	2-22	145P / 200P	Bollinger	28.0	35.5	2.67	3.20	94.7		.6	6	+.04	"
205	2-22	423P / 437P	U.S.G.S.	30.0	41.0	3.00	3.35	123.		.6	7	+.01	953
206	2-22	450P / 505P	U.S.E.D. #9	33.0	41.5	2.70	3.36	112.		.6	14	+.01	4
207	2-23	632P / 650P	Bollinger	31.0	95.5	0.94	3.08	90.2		.6	5	0	FC 6
208	2-24	947A / 1007A	U.S.E.D. #10	44.0	164.	3.27	5.21	536.		.6	8	-.02	4
209	2-25	404P / 419P	Bollinger & Moon	22.0	71.4	1.61	2.77	115.		.6	6	+.02	FC 6
210	3-3	1050A / 1059A	U.S.E.D. #11	25.0	52.0	1.92	2.81	100.		.6	5	+.02	4
211	3-3	545P / 610P	Bollinger & Odekirk	45.0	168.	4.51	5.60	757.		.6	9	+2.00	FC 6
212	3-3	815P / 900P	" "	54.0	345.	5.56	8.35	1920.		.6	12	+.10	"
213	3-3	946P / 1013P	U.S.E.D. #12	57.0	286.	5.31	8.45	1520.		.6	11	-.02	4
214	3-3	1016P / 1053P	U.S.E.D. #13	57.0	298.	4.98	8.42	1486.		.6	11	-.04	"
215	3-4	115A / 148A	U.S.E.D. #14	57.0	374.	5.35	8.72	2000.		.6	11	+.15	"
216	3-4	440A / 515A	U.S.E.D. #15	57.0	376.	5.67	8.92	2130.		.6	11	+.02	"
217	3-4	423P / 438P	U.S.E.D. #16	56.0	282.	4.88	7.54	1377.		.6	11	-.06	"
218	3-5	255P / 310P	U.S.E.D. #17	41.0	166.	2.59	4.87	430.		.6	7	-.06	"
219	3-5	405P / 425P	Bollinger & Belt	34.0	134.	2.28	4.48	306.		.6	8	-.06	FC 6
220	3-9	415P / 425P	Bollinger & Belknap	18.0	31.6	1.57	2.71	49.5		.6	4	0	"
221	3-12	505P / 520P	Luce	16.0	36.5	1.95	2.86	71.3		.6	5	+.02	FC 41
222	3-17	331P / 344P	U.S.E.D. #18	19.5	22.6	2.58	2.82	58.3		.6	9	-.01	35661
223	3-19	1030A / 1047A	Bollinger	21.5	26.3	2.38	2.88	62.7		.6	12	0	FC 6
224	3-24	312P / 323P	U.S.E.D. #19	21.2	21.9	2.60	2.58	55.8		.6	10	+.02	35661
225	3-26	948A / 1000A	Bollinger	23.3	24.6	2.20	2.64	54.1		.6	12	0	FC 6
226	4-2	1020A / 1033A	"	15.7	7.38	1.84	1.44	13.6		.6	10	+.01	"
227	4-9		Bollinger				1.56	14.5					
228	4-9	240P / 247P	U.S.E.D. #20	16.5	8.42	1.36	1.56	11.4		.6	8	0	35633
229	4-12	1030A / 1055A	U.S.G.S.	16.2	7.51	1.54	1.49	11.6		.6	16	0	953
230	4-15	210P / 225P	U.S.E.D. #21	28.0	28.6	1.82	2.68	52.2		.6	11	0	35633
231	4-16	1135A / 1152A	Bollinger	24.0	32.1	1.91	2.69	61.3		.6	12	0	FC 6
232	4-21	1248P / 102P	U.S.E.D. #22	22.5	31.3	1.80	2.75	56.5		.6	11	0	35633
233	4-22	130P / 145P	Bollinger & Turner	24.0	30.0	1.86	2.76	55.8		.6	10	0	FC 6
234	4-28	220P / 230P	U.S.E.D. #23	16.4	6.41	1.52	1.43	9.7		.6	9	0	35633
235	4-30	908A / 918A	Bollinger	16.5	7.20	1.49	1.41	10.7		.6	10	0	FC 6
236	5-5	156P / 211P	U.S.E.D. #24	15.0	6.29	1.53	1.37	9.5		.6	10	0	35633
237	5-7	900A / 915A	Turner	14.5	6.68	1.30	1.32	8.7		.6	11	0	FC 5
238	5-12	116P / 135P	U.S.E.D. #25	16.4	11.0	1.29	1.30	14.2		.6	12	+.01	35633
239	5-14	815A / 830A	Turner	14.5	7.31	1.29	1.24	9.4		.6	10	0	FC 5
240	5-21	815A / 830A	"	14.5	7.32	1.22	1.18	8.9		.6	10	0	"
241	5-28	825A / 840A	"	14.5	7.26	1.18	1.24	8.6		.6	9	0	"
242	6-1	330P / 345P	U.S.G.S.	14.0	7.91	1.24	1.12	9.8		.6	14	0	953
243	6-4	1125A / 1133A	Bollinger	13.5	7.75	1.19	1.14	9.2		.6	8	0	FC 6
244	6-11	315P / 325P	"	12.2	7.81	1.27	1.19	9.9		.6	9	0	"
245	6-18	310P / 315P	"	13.2	7.04	1.19	1.10	8.4		.6	10	0	"
246	6-25	835A / 850A	Turner	13.5	8.33	0.98	1.24	8.2		.6	10	0	FC 5
247	7-2	830A / 845A	"	15.0	11.6	0.66	1.40	7.7		.6	11	0	"
248	7-9	930A / 945A	"	15.0	8.43	0.94	1.37	7.9		.6	10	0	"
249	7-13	1225P / 1240P	U.S.G.S.	10.6	8.80	0.84	1.34	7.4		.6	13	0	953
250	7-16	825A / 840A	Turner	15.0	7.95	0.94	1.31	7.5		.6	10	0	FC 5
251	7-23	830A / 845A	"	15.0	8.20	0.96	1.15	7.9		.6	10	0	"
252	7-30	1055A / 1110A	"	15.0	7.44	0.95	1.13	7.1		.6	9	0	"
253	8-6	1015A / 1030A	"	13.5	10.6	0.61	1.12	6.5		.6	9	0	"
254	8-12	635P / 645P	U.S.G.S.	11.5	10.6	0.88	1.40	9.3		.6	18	0	1236
255	8-13	825A / 840A	Turner	13.0	9.44	0.86	1.23	8.1		.6	9	0	FC 5
256	8-20	900A / 915A	Turner	12.0	8.12	0.84	1.13	6.8		.6	8	0	FC 5
257	8-27	720A / 735A	"	11.0	8.19	0.72	1.18	5.9		.6	8	0	"
258	9-2	835A / 847A	Bollinger	11.8	9.38	0.81	1.26	7.6		.6	11	0	FC 6
259	9-8	1235P / 1245P	"	10.5	7.05	1.04	1.17	7.3		.6	9	0	"
260	9-17	920A / 935A	Turner	13.0	7.38	0.85	1.18	6.3		.6	9	0	FC 5
261	9-23	1110A / 1120A	Bollinger	13.5	12.2	0.74	1.58	9.0		.6	10	-.02	"
262	9-24	1020A / 1035A	U.S.G.S.	13.5	8.17	0.75	1.21	6.1		.6	14	0	
263	9-30	947A / 955A	Bollinger	11.0	7.92	0.87	1.22	6.9		.6	8	0	FC 6

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F5B-R

Daily discharge, in second-feet of LOS ANGELES RIVER Below Sepulveda Boulevard for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12	7	13	49	78	88	13	10	10	6.5	7	7
2	14	7	12	49	74	87	15	10	9.5	8	8.5	7.5
3	15	7	12	49	76	514	13	10	9.5	8.5	8	7.5
4	14	7	10	49	68	1650	13	10	9.5	9	7.5	7.5
5	14	7	6	50	61	561	15	9.5	9	8.5	7	8
6	14	6.5	6	52	59	95	36	9	9	9	6.5	7.5
7	14	6.5	6	52	60	46	14	9	9.5	8	7	7
8	15	6.5	6	50	61	40	12	9.5	9.5	8	6.5	7
9	15	6.5	6	50	62	45	13	10	9.5	8	6.5	7
10	15	6	6	51	61	43	13	12	9.5	8	7	7
11	15	5.5	6	43	59	40	12	12	10	8	7	7
12	16	6.5	6	31	35	56	12	14	9.5	7.5	8	6.5
13	15	10	6	32	34	102	12	12	9.5	7.5	7.5	6.5
14	15	15	6	32	35	120	25	9.5	9	7.5	7.5	6.5
15	15	15	6	34	35	83	51	9	9	7.5	7	6.5
16	15	14	5.5	30	33	65	60	9	9	7.5	7	6.5
17	15	14	6	29	32	63	62	9	8.5	7.5	7	6.5
18	15	14	5.5	16	33	86	60	9	8.5	7	7	6.5
19	14	14	5.5	5	31	59	52	9	8	7	7	6
20	14	14	6	5	27	33	54	9	8	6.5	7	6
21	14	14	6	22	31	35	56	9	8	6.5	6.5	6
22	15	14	6	1110	159	39	55	9	8	7	6.5	5.5
23	14	13	6.5	2370	207	38	30	9	8.5	8	6.5	6
24	14	14	8.5	1870	311	50	9	9	8.5	8	6	6
25	13	14	9.5	423	123	62	9	9	8	7.5	6	6.5
26	13	14	5.5	89	90	55	9.5	9	8	7.5	6	6.5
27	13	14	5	160	86	53	10	8.5	7.5	8	6	6.5
28	18	14	6	23	91	53	10	9.5	7	7.5	6.5	6.5
29	16	14	17	37		55	10	9.5	7	7.5	6.5	6.5
30	15	14	35	113		56	10	9.5	6.5	7.5	6	6.5
31	11		46	140		36		9.5		7	6.5	
	447	292.5		2112		767.5		260.5		212.5		
		328.0	7111		4408		300.0		236.0		200.0	
MEAN	14.4	10.9	9.44	229.3	75.4	142.	25.6	9.68	8.68	7.61	6.85	6.67
ACRE-FEET	887.	651.	580.	14100.	4190.	8740.	1520.	595.	517.	468.	421.	397.

Remarks:

YEAR OR PERIOD MEAN 45.7
ACRE-FEET 33070.

STATION F266R

LOS ANGELES RIVER at Mariposa Street

LOCATION:

On the left (north) channel wall about sixty feet east from the center line of Mariposa Street extended, and about 2 miles southeast of Burbank.

DRAINAGE AREA:

430 square miles.

CHANNEL AND CONTROL:

Channel-concrete 130 feet wide with 18 foot vertical side walls. Bottom forms a regular trapezoidal section 130 feet x 82 feet on the bottom by 1.25 feet deep.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from equestrian bridge 70 feet above station.

RECORDER:

Installed December 20, 1938 in a concrete house over a 4 ft x 4.3 ft. concrete stilling well. An H.G.F. recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION AND/OR DIVERSIONS:

Regulated partially subject to same regulation as Station F5B-R by Pacoima Dam, Hansen Dam and Big Tujunga Dam.

DIVERSIONS:

Several irrigation diversions in the mountain tributaries, other flow is diverted at the several water supply reservoirs, and the L.A.W.D. diverts flow for spreading above the station.

RECORDS AVAILABLE:

From December 20, 1938 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 7520 second-feet, Jan 23.
Minimum 11.0 second-feet, May 21.
1938-1943
Maximum 8450 second-feet, March 4, 1941
Minimum 6.8 second-feet, May 20 and 21, 1940.

ACCURACY:

Fair for high flows.
Low flows frequently estimated or interpolated.
Poor for low flows due to communication being obstructed by sand and mud.

OPERATION:

Located and constructed by the United States Engineer Department and operated by the Los Angeles County Flood Control District in conjunction with the United States Engineer Department.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F266-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT Mariposa Street DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
263	10-1	445P / 458P	Bollinger	90.0	26.3	1.35	0.30	35.5		.6	10	0	FC 6
264	10-8	1023A / 1039A	"	91.5	27.4	1.33	0.32	36.4		.6	12	0	"
265	10-15	137P / 152P	"	91.0	30.1	1.34	0.33	40.3		.6	11	0	"
266	10-22	1020A / 1040A	"	91.5	29.0	1.32	0.36	38.3		.6	15	0	"
267	10-29	1220P / 1238P	"	88.5	22.6	1.25	0.28	28.2		.6	14	0	"
268	11-5	1235P / 1250P	Bollinger	92.0	31.5	1.56	0.35	49.2		.6	14	0	FC 6
69	11-12	1133A / 1157A	"	93.5	31.8	1.48	0.36	47.1		.6	17	0	"
270	11-19	300P / 320P	"	96.0	39.8	1.56	0.41	66.0		.6	15	0	"
271	11-25	1245P / 107P	"	Two Channels			0.37	61.6		.6	15	0	"
272	12-3	1015A / 1035A	"	" "			0.35	53.9		.6	16	0	"
273	12-10	1143A / 1207P	"	" "			0.36	51.8		.6	18	0	"
274	12-17	1130A / 1150A	"	83.0	29.1	1.98	0.39	57.7		.6	15	0	"
275	12-23	245P / 307P	"	Two Channels			0.32	51.8		.6	18	0	"
276	12-30	320P / 350P	"	98.0	35.3	2.01	0.41	70.9		.6	18	0	"
277	1-8	153P / 210P	"	96.0	38.7	2.33	0.41	90.2		.6	17	0	"
278	1-15	1133A / 1153A	"	92.0	34.1	2.12	0.34	72.4		.6	17	0	"
279	1-23	951A / 957A	Bollinger & Belt	130.0	360.	11.5	2.98	4150.	Float		6	0	-
280	1-23	1003A / 1010A	" "	130.0	357.	11.9	2.96	4240.	"		6	-.02	-
281	1-23	1014A / 1021A	" "	130.0	359.	11.8	2.97	4230.	"		6	0	-
282	1-26	325P / 343P	Bollinger	97.0	70.4	4.47	-	315.		.6	15	-	FC 6
283	1-27	915A / 1000A	"	129.	135.	8.15	1.62	1100.		.6	15	-.01	"
284	1-27	240P / 300P	"	103.	58.1	4.22	-	245.		.6	15	-	"
285	2-5	245P / 257P	"	94.5	41.7	2.85	-	119.		.6	13	-	"
286	2-11	420P / 438P	Bollinger	96.5	43.9	2.87	-	126.		.6	13	-	FC 6
287	2-19	315P / 332P	"	99.0	36.9	2.45	-	90.4		.6	15	-	"
288	2-21	1205P / 1220P	"	98.0	45.1	3.30	-	149.		.6	14	-	"
289	2-22	320P / 336P	Bollinger & Belt	100.	53.2	3.83	-	204.		.6	13	-	"
290	2-25	140P / 154P	Bollinger & Moon	108.5	71.8	4.68	-	336.		.6	14	-	"
291	3-4	906A / 915A	Bollinger & Belt	130.	314.	10.73	2.60	3370.	Float		6	-.11	-
292	3-4	918A / 925A	" "	130.	308.	10.84	2.55	3340.	"		3	0	-
293	3-14	910A / 925A	Luce	103.	66.1	3.92	-	259.		.6	11	-	FC 39
294	3-19	112P / 125P	Bollinger	97.0	45.6	3.36	-	153.		.6	13	-	FC 6
295	3-26	1138A / 1152A	"	94.5	41.7	2.95	-	123.		.6	13	-	"
296	4-2	1255P / 113P	"	92.5	32.0	2.08	-	66.7		.6	17	-	"
297	4-9	210P / 232P	"	94.0	35.2	2.12	-	74.6		.6	18	-	"
298	4-16	200P / 215P	"	98.0	43.6	2.68	-	117.		.6	17	-	"
299	4-22	1113A / 1133A	Bollinger & Turner	96.0	42.8	2.83	-	121.		.6	13	-	"
300	4-30	1125A / 1145A	Bollinger	93.0	33.1	2.08	-	69.0		.6	19	-	"
301	5-7	1045A / 1105A	Turner	96.0	26.7	1.90	-	50.6		.6	14	-	FC 5
302	5-14	1025A / 1055A	"	83.0	25.0	2.09	-	52.2		.6	15	-	"
303	5-21	1000A / 1020A	"	76.0	12.8	0.86	-	11.0		.6	19	-	"
304	5-28	1055A / 1115A	"	86.0	16.4	1.21	-	19.8		.6	14	-	"
305	6-4	325P / 332P	Bollinger	88.0	18.8	1.34	-	25.1		.6	11	-	FC 6
306	6-11	1035A / 1048A	"	89.5	23.5	1.06	-	25.0		.6	13	-	"
307	6-18	930A / 946A	"	90.0	26.2	1.11	-	29.0		.6	17	-	"
308	6-25	1220P / 1240P	Turner	80.0	23.7	0.97	-	23.0		.6	19	-	FC 5
309	7-2	1100A / 1120A	"	80.0	25.2	0.98	-	24.7		.6	17	-	"
310	7-9	1110A / 1140A	"	80.0	28.3	0.91	-	25.7		.6	18	-	"
311	7-16	1135A / 1155A	"	83.0	27.6	0.96	-	26.6		.6	18	-	"
312	7-23	1255P / 130P	"	Two Channels			-	27.1		.6	19	-	"
313	8-6	1240P / 100P	"	79.0	21.4	1.04	-	22.2		.6	15	-	"
314	8-20	1045A / 1100A	"	86.0	19.9	1.17	-	23.3		.6	11	-	"
315	8-27	850A / 910A	"	90.0	20.0	1.08	-	21.5		.6	14	-	"
316	9-2	100P / 122P	Bollinger	90.0	18.6	1.20	-	22.4		.6	16	-	FC 6
317	9-8	232P / 248P	"	89.0	17.7	1.03	-	18.2		.6	16	-	"
318	9-17	1100A / 1120A	Turner	90.0	19.5	1.13	-	22.0		.6	11	-	FC 5
319	9-23	140P / 157P	Bollinger	75.0	18.8	1.17	-	22.0		.6	16	-	FC 6
320	9-30	108P / 127P	"	Two Channels			-	22.5		.6	17	-	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

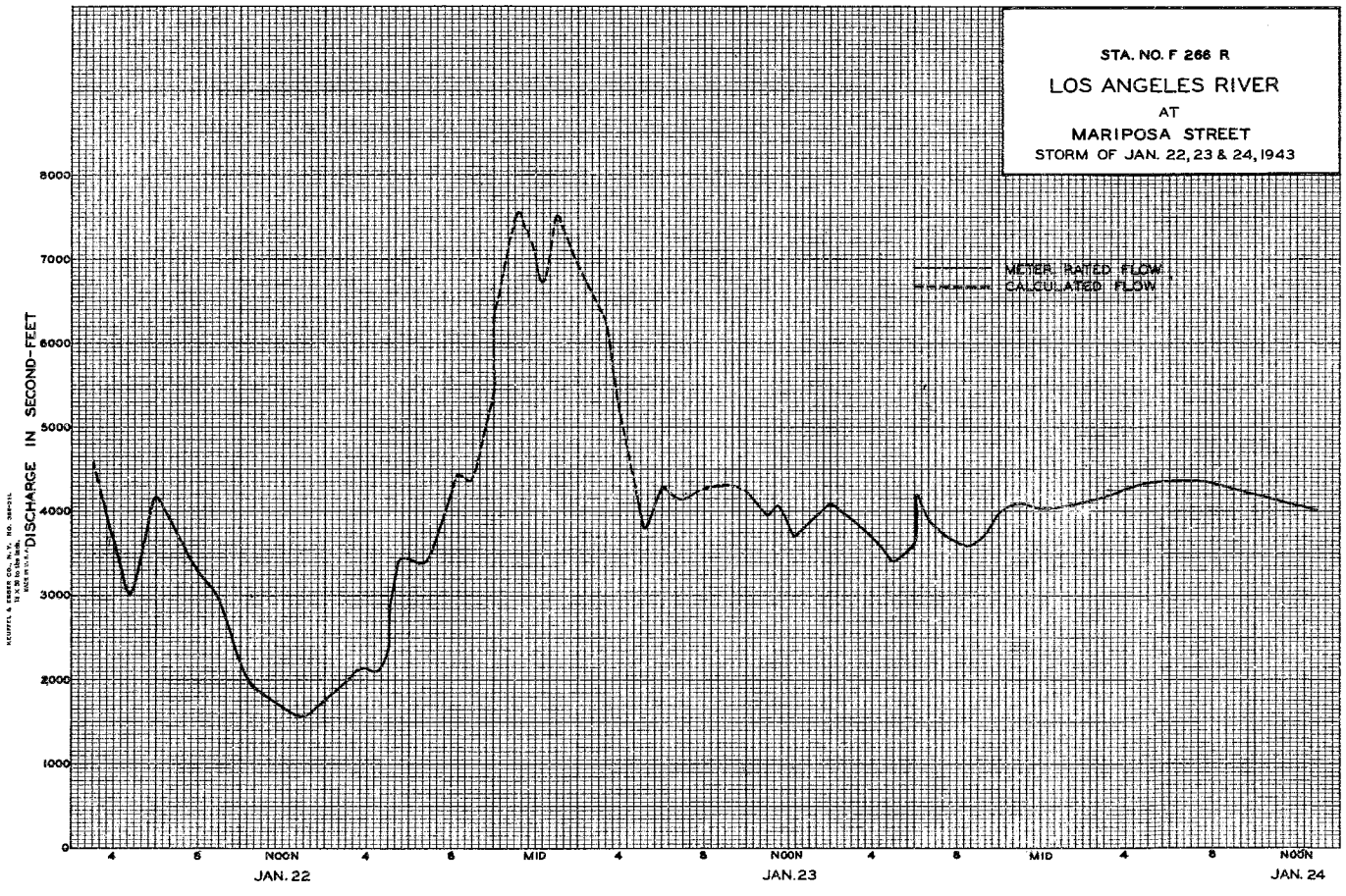
Sta. No F266-R

Daily discharge, in second-feet of LOS ANGELES RIVER At Mariposa Street, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	34	31	68	84	b440	b250	b 85	b 66	b 23	b 25	b 22	22
2	34	50	58	78	b500	b225	b 80	b 64	b 24	b 25	b 22	22
3	34	63	58	v 80	b350	1500 b	b 67	b 61	b 24	b 25	b 22	22
4	38	58	58	v 80	b250	3370	b 66	b 59	b 25	b 25	b 22	21
5	38	50	54	v 85	b120	1970	b100	b 56	b 25	b 25	b 22	20
6	38	50	50	v 85	b115	b700	b160	b 54	b 25	b 26	b 22	20
7	38	50	46	v 85	b110	b480	b 64	b 51	b 25	b 26	b 22	19
8	38	46	50	73	b200	b300	b 64	b 51	b 25	b 26	b 22	18
9	38	46	68	78	b170	b230	b 70	b 51	b 25	b 26	b 22	19
10	38	42	58	78	b120	b235	b 70	b 51	b 25	b 26	b 22	19
11	38	46	54	78	b125	b240	b 68	b 52	b 25	b 26	b 23	19
12	38	46	63	68	b100	b245	b 76	b 52	b 26	b 26	b 23	20
13	38	50	42	73	b100	b250	b 86	b 52	b 26	b 27	b 23	20
14	38	54	54	73	b100	b260	b 86	b 52	b 27	b 27	b 23	21
15	38	54	54	73	b100	b220	b105	b 52	b 27	b 27	b 23	21
16	38	54	46	78	b100	b180	b105	b 52	b 28	b 27	b 23	22
17	38	50	50	78	b 95	b195	b110	b 52	b 29	b 27	b 23	22
18	38	50	50	73	b 95	b270	b112	b 52	b 29	b 27	b 23	22
19	38	68	63	54	b 90	b190	b118	b 11	b 28	b 27	b 23	22
20	38	68	63	54	b 90	b165	b120	b 11	b 27	b 27	b 23	22
21	38	68	54	91	b200	b165	b120	b 11	b 26	b 27	b 23	22
22	38	63	54	3270	b600	b165	b120	b 12	b 26	b 27	b 23	22
23	46	63	58	4440	b800	b140	b 94	b 14	b 25	b 27	b 23	22
24	42	68	100	3940	1000 b	b135	b 67	b 15	b 24	b 27	b 22	22
25	42	63	94	b840	6300	b155	b 66	b 16	b 23	b 27	b 22	22
26	42	63	42	b600	b250	b125	b 66	b 17	b 23	b 27	b 22	22
27	42	63	54	b600	b250	b115	b 64	b 19	b 24	b 27	b 22	22
28	96	63	78	b200	b250	b110	b 66	b 20	b 24	b 27	b 22	22
29	63	63	68	b225		b115	b 64	b 21	b 24	b 27	b 22	22
30	31	68	78	b700		b105	b 64	b 21	b 24	b 27	b 22	22
31	31		100	b600		b 90		b 22		b 22		
	1259	1671	1887	18014	7020	12895	2603	1190	761	815	695	633
MEAN	40.6	55.7	60.9	581.	251.	416.	86.8	38.4	25.4	26.3	22.4	21.1
ACRE-FEET	2500.	3310.	3740.	35730.	13920.	25580.	5160.	2360.	1510.	1620.	1380.	1250

Remarks:

YEAR OR PERIOD MEAN 136.
ACRE-FEET 97060.



STATION F57C-R

LOS ANGELES RIVER above Arroyo Seco

LOCATION:

On the right (west) channel wall 800 feet above the junction with the Arroyo Seco. The former Station F57B-R was 450 feet above the junction with the Arroyo Seco.

DRAINAGE AREA:

510 square miles.

CHANNEL AND CONTROL:

Channel-rectangular concrete 177 feet wide and 29 feet deep with an invert 20 feet wide at top, 16 feet wide at bottom and 1 foot deep one-third distance from right wall. Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 15 feet above gage.

RECORDER:

Installed May 26, 1938 at Station F57B-R. Removed April 5, 1939. Installed at Station F57C-R December 8, 1939 in a 4.5 ft x 4.5 ft. concrete house and stilling well combined. A Friez continuous recorder, furnished by the United States Engineer Department, was in service from October 1, 1942 to September 30, 1943.

REGULATION AND/OR DIVERSIONS:

Subject to same regulation as Station F266-R. Several debris basins regulate flow on additional tributaries. The L.A.W.D. spills surplus flow into the channel from water developed in the Griffith Park area.

DIVERSIONS:

Several irrigation diversions in the mountain tributaries; other flow is diverted at the several water supply reservoirs, and the L.A.W.D. diverts flow for spreading.

RECORDS AVAILABLE:

At Station F57R
December, 1929 to May 26, 1938.
At Station F57B-R
May 26, 1938 to April 5, 1939. April 5, 1939 to December 8, 1939, bi-weekly measurements.
At Station F57C-R
December 8, 1939 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 23,880 second-feet, Jan. 23.
Minimum 13.6 second-feet, May 19.
1929-1943 (Stations F57R, F57B-R and F57C-R)
Maximum 68000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year from 1929-1930 to 1933-1934.

ACCURACY:

Fair, due to frequency of measurements.

OPERATION:

Located, and constructed by the United States Engineer Department. Operated by the Los Angeles County Flood Control District, and the United States Engineer Department with co-operation of the U.S.G.S. Water Resources Branch.

F. C. D. FORM 104 3M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F57C-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

xxx above Arroyo Seco

DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
492	10-1	920A / 933A	Bollinger	19.4	15.0	2.55	1.06	38.2		.6	11	0	FC 6
493	10-5	815A / 827A	"	19.1	14.4	2.99	1.09	43.1		.6	13	0	"
494	10-8	905A / 918A	"	18.6	12.4	3.24	1.10	40.2		.6	12	0	"
495	10-15	1100A / 1112A	"	19.8	17.7	2.62	1.08	46.4		.6	11	0	"
496	10-19	1000A / 1015A	"	19.9	17.8	2.86	1.08	50.9		.6	13	0	"
497	10-22	907A / 919A	"	19.9	17.1	2.67	1.05	45.7		.6	12	0	"
498	10-26	1040A / 1055A	"	19.8	17.1	2.72	1.05	46.6		.6	14	0	"
499	10-29	1010A / 1030A	"	19.9	18.5	4.70	1.10	86.9	Est.	.6	13	0	"
500	11-2	1027A / 1037A	"	18.8	12.8	3.07	1.01	39.3		.6	11	0	"
501	11-5	1050A / 1107A	Bollinger	19.2	15.5	3.37	1.03	52.2		.6	13	0	FC 6
502	11-9	1048A / 1103A	"	19.0	14.0	4.09	1.03	57.2		.6	15	0	"
503	11-12	930A / 945A	"	19.2	13.9	3.83	1.02	53.3		.6	14	0	"
504	11-16	937A / 954A	"	19.6	17.3	4.03	1.04	69.7		.6	14	0	"
505	11-19	1037A / 1100A	"	19.7	17.8	4.31	0.80	76.8		.6	16	0	"
506	11-25	223P / 242P	"	19.1	15.4	3.86	0.72	59.4		.6	15	-.01	"
507	12-2	150P / 205P	"	19.3	14.6	3.74	0.72	54.6		.6	13	0	"
508	12-10	220P / 237P	"	19.2	14.5	3.61	0.66	52.4		.6	16	0	"
509	12-17	947A / 1002A	"	18.5	12.5	4.43	0.68	55.4		.6	15	0	"
510	12-22	225P / 242P	"	18.5	12.5	4.21	0.66	52.6		.6	14	+.01	"
511	12-26	1105A / 1123A	"	19.4	15.8	3.77	1.10	59.6		.6	14	+.01	"
512	12-29	140P / 155P	"	18.5	13.1	4.65	0.74	60.9		.6	13	+.01	"
513	1-8	950A / 1005A	Bollinger & Belt	20.	22.2	4.41	1.04	98.0		.6	15	0	"
514	1-15	153P / 217P	Bollinger	20.	20.0	4.18	0.98	83.6		.6	15	-.01	"
515	1-19	320P / 340P	Bollinger	19.7	18.3	3.58	0.82	65.6		.6	15	0	FC 6
516	1-22	230A / 345A	U.S.E.D #1	177.	676.	16.5	4.49	11200.		.6	5	+.20 -.55	USED3
517	1-22	530A / 620A	" #2	177.	526.	11.1	3.55	5860.		.6	9	+.60	"
518	1-22	910A / 947A	" #3	177.	478.	9.00	3.88	4300.		.6	18	+.03 -.03	"
519	1-22	1102A / 1128A	" #4	177.	430.	8.93	3.51	3840.		.6	18	-.12	"
520	1-22	1225P / 1254P	" #5	177.	388.	8.09	3.42	3140.		.6	16	-.09	"
521	1-22	305P / 325P	" #6	177.	452.	8.71	3.66	3940.		.6	18	-.02	"
522	1-22	435P / 502P	" #7	177.	495.	10.0	4.19	4950.		.6	18	+.18	"
523	1-22	700P / 720P	" #8	177.	644.	11.1	5.15	7120.		.6	9	-.04	"
524	1-22	900P / 1000P	" #9	177.	837.	14.0	5.71	11700.		.6	9	+.57 -.13	"
525	1-23	1230A / 130A	" #10	177.	1400.	14.5	7.78	20200.		.6	9	+.70	"
526	1-23	905A / 949A	" #11	177.	579.	8.17	4.58	4730.		.6	18	+.12 -.19	"
527	1-24	210A / 300A	" #12	177.	545.	8.49	4.63	4630.		.6	18	-.06 +.07	"
528	1-24	810A / 840A	" #13	177.	477.	7.36	4.45	3510.		.6	18	+.04 -.11	"
529	1-24	250P / 320P	" #14	177.	435.	8.02	4.14	3490.		.6	18	+.02 -.02	"
530	1-24	530P / 547P	" #15	177.	423.	8.52	4.03	3600.		.6	18	+.03 -.02	"
531	1-25	100A / 140A	" #16	177.	386.	6.53	3.49	2520.		.6	18	-.06	"
532	1-25	640A / 705A	" #17	177.	317.	6.34	3.33	2010.		.6	18	+.02	"
533	1-25	800A / 830A	" #18	177.	299.	6.99	3.20	2040.		.6	18	-.04	"
534	1-26	128P / 205P	Bollinger	Two	Channels		1.76	338.		.6	18	+.03	FC 6
535	1-28	935A / 1010A	"	"	"		1.47	154.		.6	20	0	"
536	2-4	950A / 1013A	"	"	"		1.90	422.		.6	18	-.01	"
537	2-5	410P / 430P	"	70.4	41.0	3.64	1.52	149.		.6	17	0	"
538	2-8	845A / 922A	Bollinger	Two	Channels		1.66	248.		.6	23	-.01	FC 6
539	2-9	305P / 352P	Bollinger & Blakely	"	"		1.83	341.		.6	17	-.04	"
540	2-11	100P / 118P	Bollinger	70.0	35.4	3.75	1.51	133.		.6	16	-.01	"
541	2-17	805A / 826A	"	72.0	36.2	3.22	1.42	117.		.6	15	-.01	"
542	2-19	504P / 517P	"	72.0	34.8	3.16	1.40	110.		.6	12	0	"
543	2-21	1035A / 1100A	"	Two	Channels		1.88	423.		.6	20	-.04	"
544	2-22	1013A / 1100A	"	"	"		2.47	1090.		.6+ Surf	17	-.20	"
545	2-23	1030A / 1110A	"	"	"		1.95	731.		.6+ Surf		+.04	"
546	2-24	805A / 850A	"	177.	275.	5.96	2.88	1640.		.6+ Surf	18	-.01	"
547	2-25	1225P / 1248P	Bollinger & Moon	Two	Channels		1.95	470.		.6	20	0	"
548	3-1	232P / 358P	" "	"	"		1.93	372.		.6	21	+.01	"
549	3-3	152P / 222P	Bollinger, Odekirk & Belt	177.	266.	5.86	2.56	1560.		.6	20	+.48	"
550	3-3	530P / 600P	U.S.ED. #19	177.	327.	6.94	2.93	2270.		.6	18	+.47	USED3
551	3-3	625P / 650P	" #20	177.	516.	9.30	4.08	4800.		.6	18	+.98	"
552	3-3	1145P / 1215A	" #21	177.	566.	8.51	4.30	4820.		.6	18	-.37	"
553	3-4	245A / 340A	" #22	177.	556.	10.0	4.54	5560.		.6	18	-.04	"
554	3-4	1000A / 1030A	" #23	177.	423.	7.66	3.83	3240.		.6	18	-.16	"
555	3-4	340P / 410P	" #24	177.	566.	8.80	4.42	4980.		.6	18	-.15	"
556	3-4	805P / 900P	" #25	177.	369.	8.03	3.61	2960.		.6	18	-.03	"
557	3-5	920A / 955A	Bollinger & Belt	177.	281.	6.65	3.06	1870.		.6	21	+.03	FC 6
558	3-6	1040A / 1110A	Bollinger & Moon	Two	Channels		2.19	1080.		Surf .6	17	+.02	"
559	3-7	1032A / 1105A	Bollinger	"	"		3.98	905.		Surf .6	18	+.04	"
560	3-8	829A / 848A	Bollinger & Moon	"	"		1.86	385.		.6	19	+.01	"

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. 57C-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

XXX above Arroyo Seco

DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
561	3-14	1005A 1030A	Luce	Two Channels		1.81	316.		.6	19	-	FC 39
562	3-19	457P 520P	Bollinger	" "		1.48	211.		.6	23	0	FC 6
563	3-22	820A 845A	"	" "		1.43	218.		.6	20	0	"
564	3-26	343P 408P	"	" "		1.40	156.		.6	19	0	"
565	4-2	308P 327P	"	" "		1.32	91.		.6	21	0	"
566	4-6	753A 815A	"	" "		1.53	224.		.6	20	0	"
567	4-9	510P 525P	"	20.0	19.9	4.23	1.40	84.0	.6	12	0	"
568	4-16	418P 440P	"	95.5	62.1	2.00	1.42	124.	.6	17	0	"
569	4-22	955A 1015A	Bollinger--- Turner	Two Channels			1.39	145.	.6	22	0	"
570	4-30	443P 456P	Bollinger	17.7	12.9	5.11	1.30	66.8	.6	10	0	"
571	5-7	105P 135P	Turner	Two Channels			1.30	55.8	.6	21	0	FC 5
572	5-10	845A 900A	"	18.5	12.6	4.48	1.29	56.5	.6	10	0	"
573	5-14	1115P 1135P	"	Three Channels			1.27	50.8	.6		0	"
574	5-21	125P 143P	"	19.5	9.63	1.48	1.16	14.3	.6	11	0	"
575	5-24	845A 900A	"	13.5	7.62	3.02	1.22	23.0	.6	8	+.01	"
576	5-28	145P 200P	"	17.5	11.0	2.45	1.23	27.0	.6	10	0	"
577	6-4	452P 502P	Bollinger	19.8	13.7	1.98	1.24	27.1	.6	12	0	FC 6
578	6-11	932A 945A	"	19.9	14.2	2.13	1.26	30.3	.6	14	0	"
579	6-18	745A 800A	"	19.8	14.3	2.27	1.25	32.5	.6	15	0	"
580	6-25	155P 210P	Turner	18.2	11.8	2.05	1.23	24.2	.6	10	0	FC 5
581	6-28	820A 835A	"	18.4	11.5	1.96	1.22	22.6	.6	10	0	"
582	7-2	200P 215P	"	20.6	12.1	2.01	1.22	24.3	.6	12	0	"
583	7-6	900A 910A	Turner-Bakely	18.5	12.4	2.02	1.25	25.1	.6	11	0	FC 5
584	7-9	155P 210P	Turner	18.0	12.4	1.90	1.24	23.6	.6	11	0	FC 5
585	7-12	850A 905A	"	18.0	11.9	1.99	1.24	23.7	.6	10	0	"
586	7-16	150P 205P	"	20.0	13.1	1.85	1.24	24.2	.6	12	0	"
587	7-19	830A 845A	"	20.0	11.1	2.05	1.23	22.8	.6	10	0	"
588	7-23	245P 300P	"	20.0	12.6	1.63	1.22	20.5	.6	10	0	"
589	7-27	850A 905A	"	18.4	11.2	2.22	1.25	24.9	.6	8	0	"
590	7-30	155P 210P	"	16.7	11.0	2.13	1.23	23.4	.6	7	0	"
591	8-2	830A 845A	"	18.0	9.76	2.02	1.20	19.7	.6	8	0	"
592	8-6	200P 215P	"	18.0	9.83	1.94	1.22	19.1	.6	8	0	"
593	8-9	835A 850A	"	19.4	11.1	1.84	1.22	20.4	.6	8	0	"
594	8-13	1245P 100P	"	20.0	11.7	2.17	1.25	25.4	.6	8	0	"
595	8-16	825A 840A	"	18.0	10.6	2.18	1.23	23.1	.6	7	0	"
596	8-20	1155A 1210P	"	18.0	11.2	2.02	1.25	22.6	.6	8	0	"
597	8-24	900A 915A	"	20.0	11.6	2.17	1.25	25.2	.6	7	0	"
598	8-27	1130A 1145A	"	19.6	11.8	2.03	1.26	24.0	.6	7	0	"
599	8-30	900A 915A	"	19.6	12.1	2.05	1.28	24.8	.6	7	0	"
600	9-2	403P 416P	Bollinger	18.1	10.3	2.55	1.25	26.4	.6	14	0	FC 6
601	9-8	424P 438P	"	18.4	10.8	2.56	1.26	27.6	.6	16	0	"
602	9-14	835A 847A	"	18.4	11.5	2.46	1.28	28.3	.6	13	0	"
603	9-17	1230P 1245P	Turner	19.0	12.6	2.52	1.30	31.8	.6	10	0	FC 5
604	9-23	310P 322P	Bollinger	18.4	11.2	2.69	1.30	30.1	.6	13	0	"
605	9-27	800A 815A	"	18.5	10.8	2.92	1.30	31.5	.6	13	0	FC 6
606	9-30	333P 348P	"	18.5	10.7	2.90	1.32	31.0	.6	14	0	"

F.C. Dist. Form 55 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

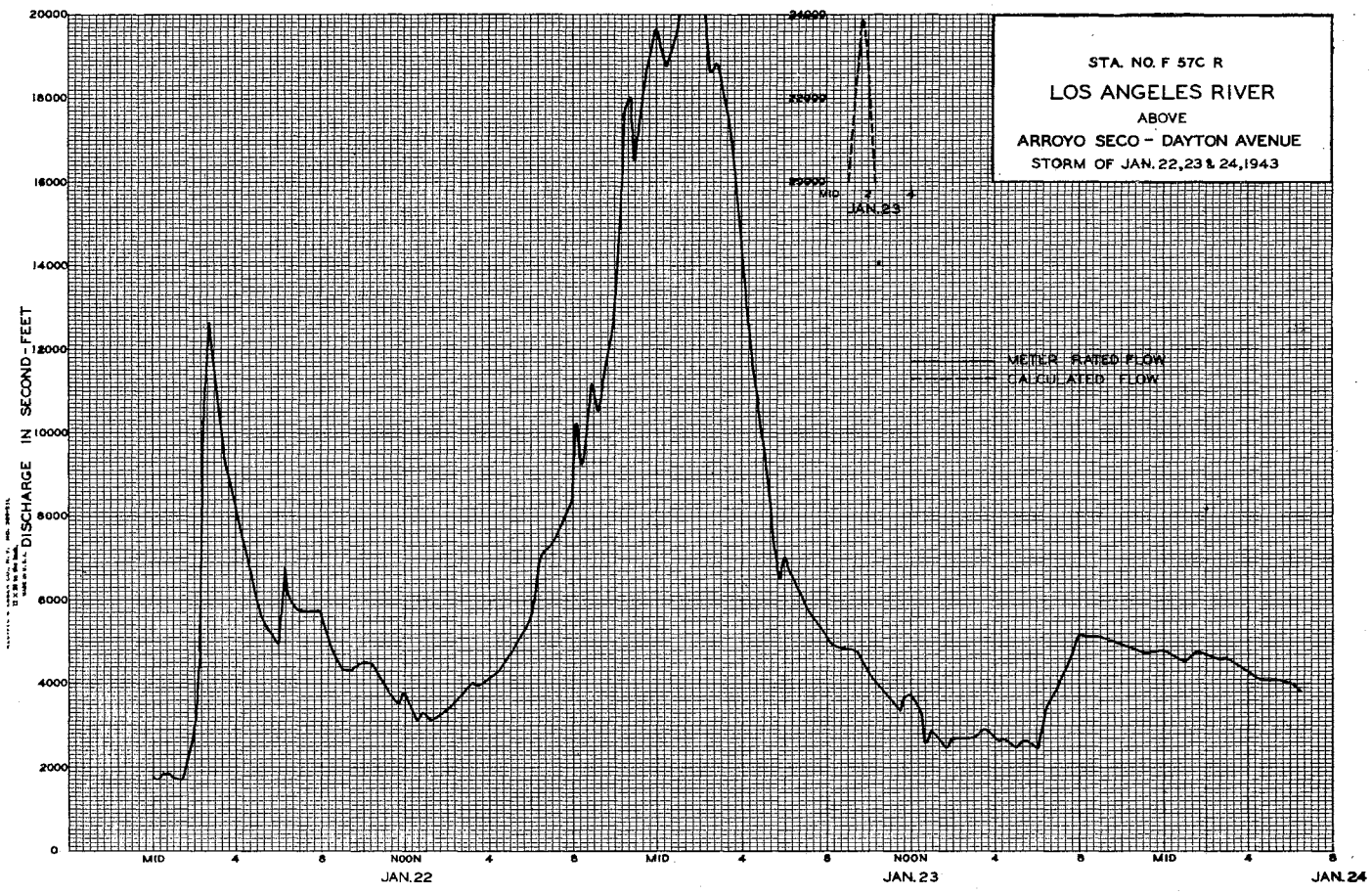
Sta. No. F57C-R

Daily discharge, in second-feet of LOS ANGELES RIVER Above Arroyo Seco, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	39	42	56	90	516	395	100	67	25	24	18	29
2	42	42	56	84	564	328	93	65	25	24	20	26
3	42	46	55	84	410	1940	93	63	25	25	21	26
4	42	52	46	90	333	3960	88	63	26	24	21	26
5	44	52	43	86	151	1880	108	62	28	24	20	25
6	42	52	48	93	147	1120 b	200	58	28	24	20	25
7	42	54	51	100	143	827 b	71	58	26	24	20	25
8	39	57	55	98	273	394 b	71	53	29	24	21	26
9	37	57	56	95	230	264	78	51	31	24	21	28
10	39	57	56	95	131	443	78	55	31	22	21	28
11	39	57	55	98	134	395	75	55	31	24	22	26
12	54	54	56	84	115	452	82	55	32	22	22	26
13	42	57	55	82	118	452	93	55	32	24	24	26
14	46	63	55	82	112	340	95	53	29	22	24	28
15	49	69	58	84	112	276	115	53	34	22	25	32
16	54	69	55	82	115	202	118	51	31	22	25	34
17	46	b 60	55	82	115	237	124	55	31	22	25	32
18	49	b 55	55	84	115	335	124	51	32	22	24	32
19	49	73	55	71	110	223	137	15	31	22	22	32
20	49	51	56	65	110	187	137	15	31	22	22	32
21	54	51	56	199	256	192	137	15	31	22	22	34
22	46	48	55	6580	796	192	147	17	31	21	22	37
23	54	49	59	7120	1050	162	143	20	29	21	22	37
24	54	55	154	3750	1260	155	69	22	26	22	25	31
25	46	60	143	1670 b	604	187	69	24	24	22	25	34
26	46	60	62	716 b	360	151	69	25	22	22	24	35
27	52	63	63	732	381	131	67	26	22	22	24	32
28	129	63	b 62	166	367	131	69	28	22	22	24	34
29	83	62	62	291		140	67	26	21	22	24	34
30	60	58	73	978		121	67	26	22	24	24	31
31	44		82	707		118		26		18	24	
	1553		1948	9128		2984		838		698		
		1688			24638		16330		1303		701	903
MEAN	50.1	56.3	62.8	795.	326.	527.	99.5	42.2	27.9	22.6	22.5	30.1
ACRE-FEET	3080.	3350.	3860.	48870.	18110.	32390.	5920.	2590.	1660.	1390.	1380.	1790.

Remarks:

YEAR OR PERIOD MEAN 172.
ACRE FEET 124400.



STATION F34B-R

LOS ANGELES RIVER at Firestone Boulevard

LOCATION:

On the downstream side of Firestone Boulevard bridge, about 3 miles west of Downey.

DRAINAGE AREA:

614 square miles.

CHANNEL AND CONTROL:

Channel-sand and silt, about 340 feet wide with 3:1 riprapped slopes.
Control-concrete sill across channel bottom about 150 feet below station.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of bridge.

RECORDER:

Installed April 11, 1938, over an 18 inch diameter corrugated iron pipe stilling well. An Au continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow is subject to same regulation as station F57C-R. In addition the flow is partially regulated by Devils Gate Dam.

DIVERSIONS:

Flow is subject to same diversions as Station F57C-R.
Several irrigation diversions in the mountain tributaries; some flow is diverted at several water supply reservoirs and the Los Angeles Water Department diverts flow for spreading. The City of Pasadena diverts water from the Arroyo Seco.

RECORDS AVAILABLE:

At Station F34R
March 1, 1928 to April 11, 1938. (For previous records see State of California division of Water Rights Bulletin No. 5.)
At Station F34B-R
April 11, 1938 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 27500 second-feet, January 23.
Minimum 18 second-feet, May 23.
1928-1943 (Stations F34R and F34B-R)
Maximum 79000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Flows frequently estimated by comparison with other stations or interpolated between measurements due to loss of communication or clock failure.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F34B-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at Firestone Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
533	10-1	955A / 1015A	Bonadiman	37.5	32.1	1.51	3.65	48.4		.6	12	0	FC 19
534	10-8	930A / 944A	"	38.5	35.4	1.58	3.67	55.9		.6	11	0	"
535	10-15	200P / 220P	"	37.0	37.3	1.76	3.69	65.7		.6	12	0	"
536	10-22	150P / 210P	"	38.5	40.8	1.32	3.71	53.9		.6	11	0	"
537	10-28	516P / 550P	Bonadiman & Walton	296.0	425.	2.54	4.80	1080.		.6	13	0	"
538	10-29	931A / 1010A	Bonadiman	Two Channels			3.87	126.		.6	11	0	"
539	11-5	934A / 950A	"	37.5	40.8	1.82	3.74	74.3		.6	11	0	"
540	11-12	937A / 952A	"	37.0	41.9	1.70	3.76	71.2		.6	11	0	"
541	11-19	925A / 952A	"	Two Channels			3.99	211.		.6	16	-.02	"
542	11-25	956A / 1010A	"	37.0	41.1	1.88	3.73	77.3		.6	11	0	"
543	12-3	210P / 232P	"	37.0	38.8	1.86	3.72	72.2		.6	9	0	"
544	12-11	1000A / 1015A	"	36.5	40.2	1.67	3.68	67.1		.6	10	0	"
545	12-17	930A / 950A	"	37.0	41.4	1.53	3.67	63.2		.6	11	0	"
546	12-23	900A / 916A	"	37.0	40.9	1.58	3.73	65.0		.6	10	0	"
547	12-24	1006A / 1030A	"	Two Channels			4.07	232.	Surf.	.6	16	+.03	"
548	12-25	212A / 242A	Bonadiman & Thompson	"	"		4.46	601.		.6	16	+.07	"
549	12-30	952A / 1010A	Bonadiman	"	"		3.65	75.2		.6	12	0	"
550	1-8	1000A / 1020A	"	38.0	56.2	2.31	3.80	130.		.6	12	0	"
551	1-15	950A / 1008A	"	36.5	50.6	2.27	3.77	115.		.6	10	0	"
552	1-21	1136P / 1200N	Bonadiman & Walton	339.0	1000.	6.76	6.13	6760.		.6	10	+.07 -.10	"
553	1-23	742A / 803A	" "	308.0	1290.	7.18	7.48	9280.		.6	10	-.15	"
554	1-24	1030A / 1055A	" "	303.0	845.	5.20	5.72	4390.		.6	11	-.04	"
555	1-25	352P / 410P	Bonadiman	300.0	536.	3.10	4.89	1660.		.6	10	0	"
556	1-27	650A / 710A	Bonadiman & Walton	266.0	495.	3.78	4.80	1870.		.6	9	0	"
557	1-29	942A / 956A	Bonadiman	190.0	196.	0.98	3.58	181.		.6	11	0	FC 19
558	1-30	1216P / 1236P	"	294.0	519.	3.10	4.70	1610.		.6	12	+.05	"
559	1-31	642A / 700A	Bonadiman & Walton	298.0	537.	3.31	4.73	1780.		.6	11	+.05	"
560	2-5	837A / 850A	Bonadiman	156.0	190.	1.41	3.63	268.		.6	10	0	"
561	2-8	1032A / 1050A	"	232.0	272.	1.79	3.94	488.	Surf.	.6	9	-.02	"
562	2-11	947A / 1000A	"	166.0	160.	1.33	3.54	213.		.6	10	0	"
563	2-19	930A / 942A	"	141.0	116.	1.26	3.52	146.		.6	9	0	"
564	2-21	1006A / 1026A	"	240.0	307.	2.07	4.08	637.		.6	14	+.17	"
565	2-22	826A / 855A	"	258.0	386.	3.15	4.50	1220.		.6	10	-.09	"
566	2-22	1006A / 1020A	Bonadiman & Walton	297.0	499.	3.60	4.75	1800.		.6	11	+.13	"
567	2-22	1211P / 1229P	" "	302.0	781.	5.75	5.65	4500.		.6	11	+.20	"
568	2-23	723A / 745A	" "	267.0	396.	2.42	4.47	958.	Surf.	.6	10	-.04	"
569	2-24	928A / 944A	" "	297.0	568.	3.94	4.99	2240.		.6	11	-.02	"
570	2-25	1032A / 1046A	Bonadiman	239.0	344.	2.55	4.26	879.		.6	10	-.05	FC 19
571	2-26	852A / 910A	Bonadiman	217.0	264.	1.88	3.95	496.	Surf.	.6	9	0	"
572	3-3	1137A / 1158A	"	260.0	304.	2.84	4.27	862.		.6	11	-.04	"
573	3-3	454P / 514P	"	304.0	645.	4.97	5.17	3200.		.6	10	-.02	"
574	3-4	1215A / 1250A	Bonadiman & Walton	316.0	1543.	7.80	8.28	12100.	Surf.	.6	12	-.30	"
575	3-5	214P / 228P	" "	269.0	490.	4.27	4.77	2099.		.6	10	0	"
576	3-12	902A / 918A	Bonadiman	248.0	352.	2.47	4.18	870.		.6	13	0	"
577	3-18	742A / 800A	"	248.0	239.	1.80	3.90	428.		.6	8	0	"
578	3-19	922A / 938A	"	215.0	239.	1.49	3.73	357.		.6	12	0	"
579	3-26	906A / 920A	"	175.0	175.	1.04	3.63	182.		.6	11	0	"
580	4-2	908A / 920A	"	160.0	116.	1.38	3.58	161.		.6	10	0	"
581	4-6	836A / 858A	Bonadiman	251.0	270.	1.91	3.99	515.		.6	10	-.02	FC 19
582	4-8	917A / 935A	"	179.0	138.	1.21	3.59	167.		.6	11	0	"
583	4-16	910A / 925A	"	179.0	138.	1.24	3.67	171.		.6	11	0	"
584	4-22	851A / 908A	"	186.0	134.	1.07	3.66	144.		.6	11	0	"
585	4-30	830A / 850A	"	137.0	82.8	1.18	3.54	98.1		.6	11	0	"
586	5-8	840A / 900A	"	Two Channels			3.57	72.3		.6	14	0	"
587	5-15	845A / 858A	"	52.0	48.8	1.34	3.54	65.5		.6	9	0	"
588	5-21	933A / 945A	"	18.5	18.8	1.45	3.37	27.2		.6	6	0	"
589	5-26	902A / 913A	"	29.0	29.8	1.04	3.42	31.0		.6	8	0	"
590	6-4	922A / 931A	"	35.0	33.6	1.22	3.44	40.8		.6	7	0	"
591	6-12	903A / 920A	"	43.0	30.0	1.27	3.47	38.2		.6	10	0	"
592	6-19	955A / 1015A	Moon	50.0	28.6	1.38	3.48	39.6		.6	17	0	FC 22
593	6-25	920A / 932A	Bonadiman	33.0	30.2	1.39	3.45	42.0		.6	8	0	FC 19
594	7-2	913A / 925A	"	31.0	27.7	1.25	3.44	34.6		.6	9	0	"
595	7-9	910A / 920A	"	30.0	26.9	1.43	3.45	38.6		.6	7	0	"
596	7-16	912A / 925A	"	35.0	29.8	1.13	3.44	33.8		.6	7	0	"
597	7-23	923A / 938A	"	27.0	26.2	1.40	3.43	36.6		.6	7	0	"
598	7-30	1002A / 1015A	"	32.0	26.1	1.46	3.46	38.2		.6	8	0	"
599	8-6	920A / 933A	"	33.0	27.2	1.31	3.47	35.5		.6	8	0	"
600	8-13	940A / 952A	"	35.0	29.8	1.16	3.48	34.7		.6	8	0	"
601	8-20	948A / 1006A	Smallin & Bonadiman	21.0	14.4	2.33	-	33.6		.6	6	-	"
602	8-27	946A / 954A	Moon	12.5	9.51	3.64		34.6		.6	8	-	FC 22
603	9-3	920A / 928A	Moon	12.5	10.1	3.99	-	40.3		.6	8	-	"
604	9-10	915A / 932A	Bonadiman	53.0	29.0	1.51	3.40	43.8		.6	9	0	FC 19
605	9-17	930A / 950A	Bonadiman	45.0	33.3	1.40	3.47	46.6		.6	10	0	FC 19
606	9-23	140P / 156P	"	44.0	39.3	1.56	3.54	61.3		.6	10	0	"

F.C.Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

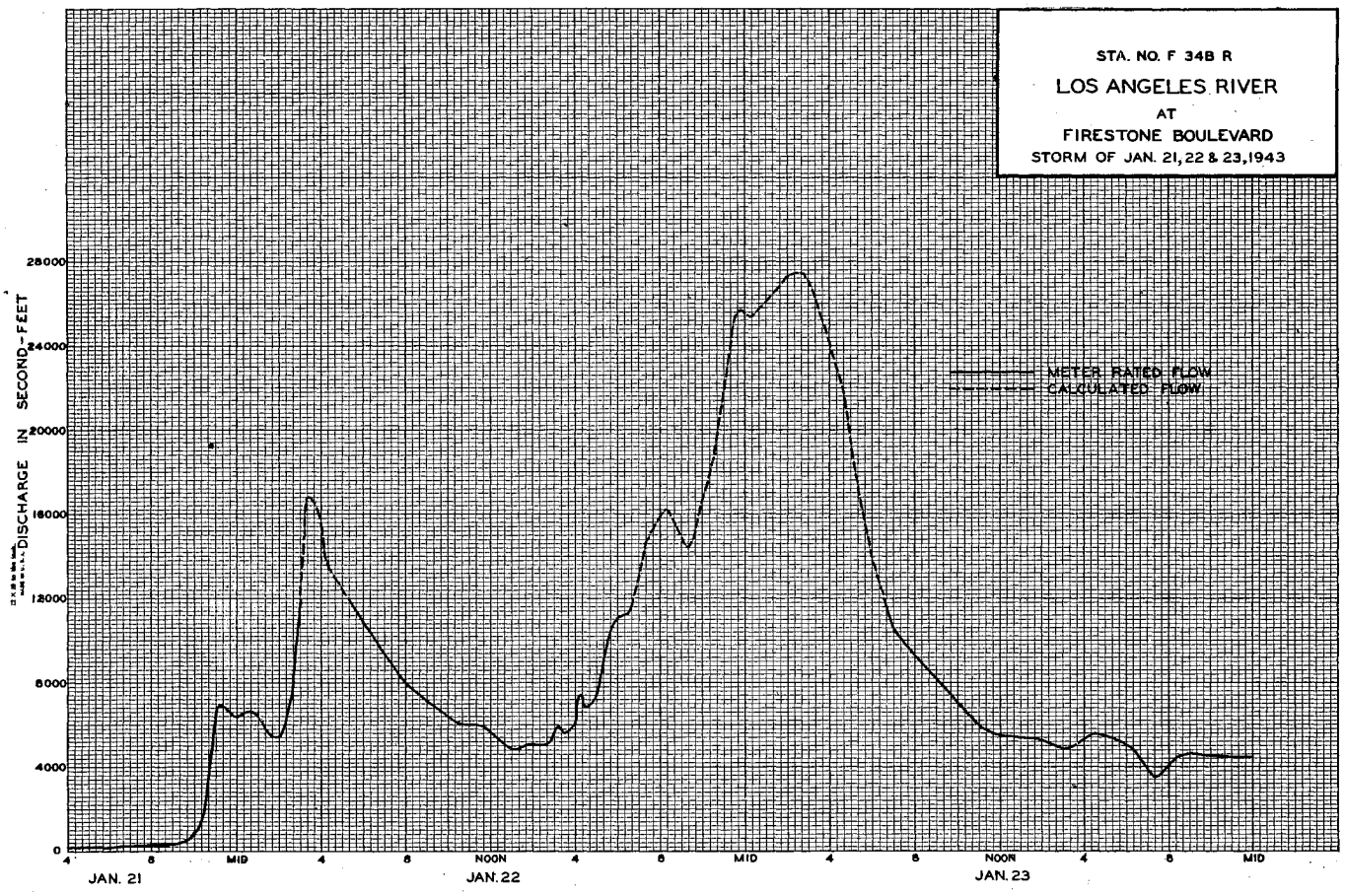
Sta. No F34B-R

Daily discharge, in second-feet of LOS ANGELES RIVER At Firestone Boulevard, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	59	38	78	116	842	473	167	93	43	43	21	d 38
2	55	38	74	116	887	368	160	82	51	29	26	d 39
3	47	47	74	104	740	2270	152	82	43	24	29	d 40
4	51	74	70	132	672	a 8680	138	88	41	24	31	d 40
5	55	74	82	132	295	a 5380	216	78	36	24	36	d 40
6	55	70	78	138	218	1390	445	70	36	36	36	d 41
7	55	55	74	138	196	1240	b 261	70	41	38	33	41
8	55	55	70	138	460	723	b 174	66	41	36	26	43
9	51	55	74	138	270	627	152	59	38	36	29	43
10	59	62	66	152	196	868	127	62	33	33	29	43
11	59	62	66	160	210	1060	116	70	36	26	29	47
12	78	66	62	145	174	932	116	78	43	31	33	38
13	51	62	59	121	188	878	116	74	47	33	36	41
14	59	70	62	116	160	522	116	66	43	33	36	43
15	66	78	66	116	160	424	160	62	51	36	33	43
16	59	74	66	121	160	295	181	62	43	36	36	51
17	66	62	62	121	152	435	167	66	41	31	d 36	51
18	62	55	59	127	152	512	152	70	38	33	d 35	51
19	51	129	62	104	145	368	145	43	38	38	d 34	51
20	51	59	59	99	138	326	167	26	33	43	d 34	47
21	62	59	62	482	445	278	145	26	36	41	d 34	51
22	59	66	70	10360	1630	252	144	19	47	38	d 34	55
23	59	70	66	10710	1210	210	160	18	51	36	d 34	62
24	59	70	221	3970	1580	188	110	19	43	36	d 35	47
25	55	82	d 733	2000	819	188	78	29	41	36	d 35	47
26	55	82	d 160	1300	522	181	78	33	47	31	d 35	47
27	62	99	d 99	1230	379	188	88	38	38	38	d 35	41
28	315	104	d 93	218	368	210	88	43	36	41	d 36	43
29	126	88	d 88	269		210	88	43	43	41	d 36	47
30	55	70	82	1560		210	93	38	47	38	d 37	43
31	43		110	1360		203		33		33	d 38	
	2094	2075	3147	35993	13368	30089	4500	1706	1245	1072	1027	1354
Mean	67.5	69.2	102.	1161.	477.	971.	150.	55.0	41.5	34.6	33.1	45.1
Acre-Feet	4150.	4120.	6240.	71390.	26520.	59680.	8930.	3380.	2470.	2130.	2040.	2690.

Remarks:

Year or Period: Mean 268.
Acre-Feet 193700.



STATION F180R

LOS ANGELES RIVER at Pacific Coast Highway, (formerly State Street), Long Beach

LOCATION:

On the downstream side of Pacific Coast Highway about 1-3/4 miles from the Pacific Ocean.

DRAINAGE AREA:

Not determined.

CHANNEL AND CONTROL:

Channel-fine sand and silt, 570 feet wide with riprapped levees.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of Pacific Coast Highway bridge.

RECORDER:

Installed October 31, 1931, over an 18 inch diameter corrugated iron stilling well.
A Stevens continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow is subject to the same regulation as Station F34B-R and Station F45R.

DIVERSIONS:

Several water supply reservoirs in the Los Angeles River area divert flow.
The City of Pasadena diverts water from the Arroyo Seco, from Eaton Creek, and from the San Gabriel River.
Various parties and agencies have miscellaneous irrigation diversions. Several agencies divert flow at various locations for spreading.

RECORDS AVAILABLE:

October 31, 1931 to September 30, 1943
For earlier records see Station F36R, Los Angeles River at Willow Street.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 37900 second-feet, January 23.
Minimum 32 second-feet, several days.
1931-1943
Maximum 99000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times in 1934.

ACCURACY:

Fair.
Flow occasionally compared with upstream tributaries due to obstructed communication.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F180-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

AT (NAME) Pacific Coast Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
533	10-1	1230P / 100P	Bonadiman	2	Channels		7.32	81.2		.6	20	0	FC 19
534	10-8	1135A / 1200N	"	"	"		7.32	75.4		.6	18	0	"
535	10-15	1125A / 1200N	"	3	"		7.28	64.2		.6	21	0	"
536	10-22	1045A / 1114A	"	"	"		7.28	70.0		.6	22	0	"
537	10-28	940P / 1000P	Bonadiman & Walton	221.5	297.		8.20	902.		.6	11	+.11	"
538	10-29	105P / 135P	Bonadiman	2	Channels		7.69	220.		.6	13	0	"
539	11-5	1140A / 1220P	"	"	"		7.29	126.		.6	9	0	"
540	11-12	1246P / 106P	"	"	"		7.27	94.2		.6	11	0	"
541	11-19	1220P / 1240P	"	"	"		7.42	140.		.6	12	+.03	"
542	11-25	1220N / 1244P	"	"	"		7.24	108.		.6	13	0	"
543	12-3	1110A / 1130A	"	3	"		7.26	103.		.6	13	0	"
544	12-11	1205P / 1240P	"	"	"		7.25	105.		.6	15	0	"
545	12-17	1147A / 1220P	Bonadiman	3 Channels			7.30	108.		.6	12	0	"
546	12-23	1110A / 1130A	"	"	"		7.30	78.5		.6	13	0	"
547	12-25	440A / 500A	Bonadiman & Thompson	251.0	308.	2.42	8.24	745.		.6	13	+.07	"
548	12-30	1230P / 1250P	Bonadiman	2	Channels		7.33	106.		.6	14	0	"
549	1-8	1210P / 1235P	"	150.0	152.	0.94	7.38	143.		.6	12	0	"
550	1-15	1140A / 1210P	"	3	Channels		7.40	164.		.6	17	0	"
551	1-22	335A / 400A	Bonadiman & Walton	461.0	1820.	3.92	11.31	7130.		.6	11	-.20 +.15	"
552	1-23	855A / 920A	" "	456.0	2860.	5.75	13.10	16590.		.6	10	-.40	"
553	1-24	1242P / 110P	" "	3	Channels		8.46	8010.		.6	19	0	"
554	1-25	210P / 230P	Bonadiman	"	"		7.33	3180		Surf. .6	14	0	"
555	1-27	1100A / 1128A	Bonadiman	Two	Channels		7.24	1860.		.6	12	-.04	FC 19
556	1-29	1150A / 1210P	"	56.0	120.	2.15	-	258.		.6	6	0	"
557	1-30	400P / 430P	"	239.0	627.	6.06	7.56	3790.		.6	11	+.03 -.06	"
558	1-31	904A / 922A	Bonadiman & Walton	239.0	474.	4.96	7.77	2350.		.6	13	-.06	"
559	2-6	220P / 236P	Bonadiman	127.0	156.	1.53	6.42	238.		.6	9	0	"
560	2-9	132P / 150P	"	132.0	198.	1.48	6.47	292.		.6	9	0	"
561	2-11	135P / 150P	"	132.0	110.	1.31	6.33	144.		.6	9	0	"
562	2-19	122P / 140P	"	Two	Channels		6.22	127.		.6	11	0	"
563	2-22	327P / 407P	Bonadiman & Walton	"	"		9.65	5670.		Surf. +.6	17	-.30	"
564	2-23	1012A / 1032A	" "	219.0	412.	2.51	7.55	1030.		Surf. +.6	14	-.02	"
565	2-24	1022A / 1041A	" "	274.0	737.	6.52	8.89	4800.		.6	15	+.09	"
566	2-25	1227P / 1240P	" "	186.0	254.	4.04	7.25	1030.		Surf. .6	12	-.02	"
567	2-26	1234P / 1250P	Bonadiman	132.0	234.	2.41	7.01	563.		Surf. .6	10	0	"
568	3-3	652P / 718P	"	Two	Channels		9.90	6430.		.6	15	-	"
570	3-4	802A / 832A	Bonadiman & Walton	"	"		10.40	11900.		.6	14	-.20	"
571	3-5	1212P / 1222P	" "	136.0	812.	5.96	-	4840.		.6	8	-	"
572	3-6	310P / 326P	" "	136.0	448.	4.93	7.50	2210.		.6	9	0	"
573	3-10	317P / 330P	Bonadiman	133.0	288.	3.13	7.42	902.		.6	9	0	"
574	3-12	140P / 152P	"	133.0	294.	3.58	7.58	1060.		.6	9	0	"
575	3-17	110P / 122P	"	131.0	194.	1.60	7.38	310.		.6	9	0	"
576	3-18	107P / 128P	"	133.0	176.	3.36	7.34	591.		.6	9	0	"
577	3-19	1202P / 1220P	Bonadiman	133.0	194.	1.47	7.27	286.		.6	9	0	FC 19
578	3-26	132P / 146P	"	Two	Channels		7.02	217.		.6	10	0	"
579	4-1	220P / 245P	"	133.0	132.	1.23	7.01	162.		.6	9	0	"
580	4-2	222P / 237P	"	Two	Channels		6.90	140.		.6	11	0	"
581	4-6	1052A / 1108A	"	143.0	262.	3.67	7.63	962.		.6	10	0	"
582	4-16	132P / 144P	"	142.6	126.	1.50	6.93	189.		.6	10	0	"
583	4-22	230P / 250P	"	Two	Channels		-	155.		.6	9	0	"
584	4-30	152P / 202P	"	28.0	65.8	1.61	6.80	106.		.6	4	0	"
585	5-8	138P / 200P	"	Three	Channels		6.83	89.8		.6	11	0	"
586	5-15	130P / 145P	"	75.0	60.6	1.35	6.72	81.6		.6	8	0	"
587	5-21	1305 / 138P	"	34.0	33.7	0.95	-	31.9		.6	5	-	"
588	5-26	1100A / 1112A	"	40.0	36.2	1.12	-	40.6		.6	6	-	"
589	6-4	1052A / 1110A	"	51.0	39.6	1.14	6.69	45.2		.6	9	0	"
590	6-12	1100A / 1120A	"	48.0	39.6	1.22	6.75	48.2		.6	8	0	"
591	6-19	128P / 150P	Moon	54.0	38.3	1.21	6.72	46.2		.6	20	0	FC 22
592	6-25	120AP / 1220P	Bonadiman	51.0	39.6	0.99	6.70	39.4		.6	11	0	FC 19
593	7-2	1132A / 1150A	"	58.0	41.1	0.88	6.70	36.0		.6	12	0	"
594	7-9	1127A / 1200N	"	68.0	43.5	0.91	6.68	39.4		.6	10	0	"
595	7-16	1132A / 1150A	"	74.0	41.8	1.07	6.73	44.7		.6	10	0	"
596	7-23	1152A / 1210P	"	60.0	36.7	1.06	6.67	39.0		.6	9	0	"
597	7-30	1212P / 1230P	"	66.0	47.1	0.94	6.72	44.5		.6	10	0	"
598	8-6	1130A / 1150A	"	37.0	28.3	1.16	6.68	32.7		.6	8	0	"
599	8-13	1230P / 1250P	"	41.0	34.5	1.04	6.68	36.0		.6	6	0	"
600	8-20	1128P / 203P	Smallin & Bonadiman	Three	Channels		6.74	32.6		.6	23	0	FC 19
601	8-27	117P / 140P	Moon	Five	Channels		6.72	40.8		.6	21	0	FC 22
602	9-3	1245P / 110P	"	Three	Channels		6.75	40.3		.6	22	0	"
603	9-10	1150A / 1210P	Bonadiman	34.0	30.8	1.10	6.76	33.9		.6	5	0	FC 19
604	9-17	1155A / 1210P	"	47.0	37.4	1.12	6.80	42.1		.6	7	0	"
605	9-23	1002A / 1030A	"	Three	Channels		6.78	53.9		.6	20	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

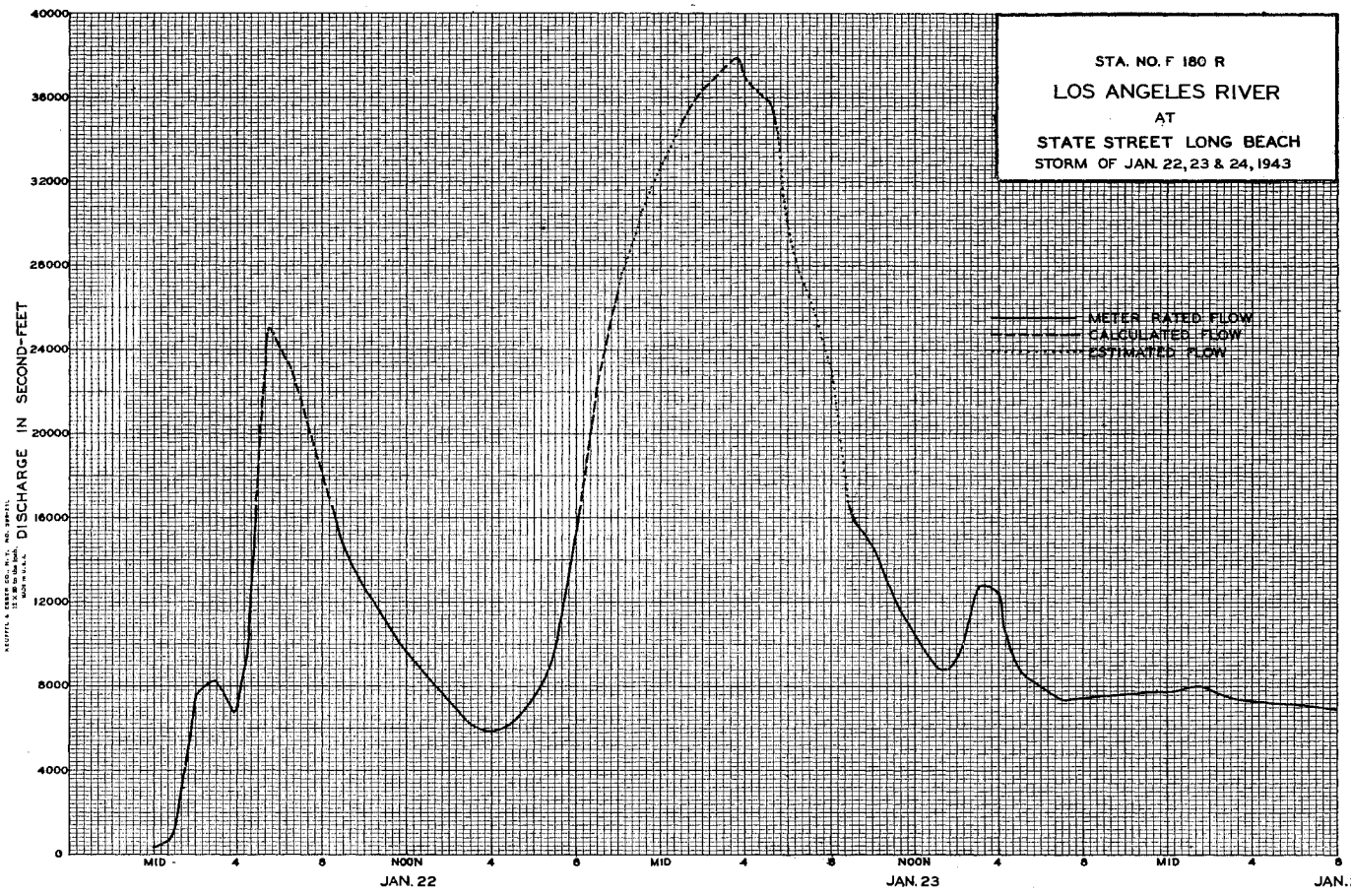
Sta. No. F180R

Daily discharge, in second-feet of LOS ANGELES RIVER At Pacific Coast Highway, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	83	112	102	133	b 890	910	164	105	a 50	36	42	36
2	74	108	102	119	b 950	786	139	100	47	39	36	42
3	74	119	102	119	b 780	3350	157	90	42	33	42	42
4	77	140	108	112	b 680	10700	150	105	42	36	39	44
5	74	126	108	126	b 400	b5980	139	100	39	36	36	47
6	77	119	102	137	238	b2210	732	90	b 39	36	33	39
7	74	115	99	149	202	1840	b 366	90	b 39	42	33	36
8	74	112	105	140	662	1560	b 171	86	b 39	44	39	36
9	74	105	112	140	327	1230	192	71	b 39	42	28	36
10	74	108	112	144	250	1100	164	67	b 39	39	36	36
11	69	102	108	149	141	1220	171	71	39	39	36	36
12	80	96	105	158	171	1080	139	78	44	39	39	33
13	74	96	102	158	202	932	139	74	42	36	39	33
14	64	96	99	158	161	786	139	78	42	39	36	33
15	69	99	108	162	141	630	157	82	50	39	39	33
16	72	102	108	176	141	508	192	78	50	44	31	39
17	64	99	108	176	141	b 357	206	74	42	a 43	33	42
18	61	92	112	167	130	a 859	206	78	42	a 43	36	42
19	59	152	105	167	130	b 440	199	a 63	42	a 42	36	44
20	64	144	96	149	151	b 340	229	a 48	42	a 41	36	44
21	67	137	99	172	827	b 310	220	32	36	a 40	39	50
22	67	133	83	13300	3540	b 280	213	a 34	44	a 40	42	52
23	69	b 122	74	18060	1250	b 240	206	a 35	42	39	42	59
24	72	b 115	253	b7510	2080	b 200	164	a 37	44	44	42	59
25	69	108	734	b4400	b1030	b 195	128	a 38	39	42	44	55
26	64	108	162	1450	624	229	116	41	39	42	44	55
27	69	112	130	b1270	611	274	116	a 43	36	39	42	52
28	194	112	112	b 280	508	256	116	a 44	33	47	44	52
29	337	115	108	b 258		229	116	a 46	42	50	42	52
30	108	102	108	2200		213	105	a 47	42	47	39	50
31	105		122	1980		192		a 49		50	33	
	2652	3406	4078	53821	17358	39506	5651	2074	1247	1268	1178	1309
MEAN	85.5	114	132	1736	620	1274	188	66.9	41.6	40.9	38.0	43.6
ACRE-FEET	5260	6760	8090	106750	34430	78360	11210	4110	2470	2520	2340	2600

Remarks:

YEAR OR PERIOD — MEAN 366 — ACRE-FEET 264900



STATION F130R

MALIBU CREEK at Crater Camp

LOCATION:

At upper end of Malibu Gorge, about ½ mile downstream from Crater Camp in the Santa Monica Mountains.

DRAINAGE AREA:

195 square miles.

CHANNEL AND CONTROL:

Channel-coarse sand and gravel lined with brush and trees.
A check dam of sand bags was constructed on April 21, 1943, to act as a low water control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 10 feet below gage.

RECORDER:

Installed January 17, 1931 over an 18 inch diameter, corrugated iron pipe stilling well. An An continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATIONS AND/OR DIVERSIONS:

Lake Sherwood Dam, Lake Eleanor Dam, Malibu Lake Mountain Club Dam, and Grags Dam. Other low dams built for recreational purposes affect the low summer flows.

RECORDS AVAILABLE:

January 17, 1931 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 12,240 second-feet, January 22.
Minimum 0.1 second-foot Oct. 1-4, 1942.
1931-1943
Maximum 12240 second-feet, January 22, 1943.
Minimum no flow at various times.

ACCURACY:

Fair.
Flows frequently estimated by comparison or interpolated between measurements due to extreme channel scour which prevented communication to well and clock failure on several days. This condition existed between Oct. 1, and Jan 20 and also between April 11, and Sept. 30.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F130-R

DISCHARGE MEASUREMENTS OF MALIBU CREEK

AT NEAR Crater Camp DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
253	10-1	155P / 138P	Bollinger	2.5	0.24	0.50	4.09	0.12		.6	3	0	FC 6
254	10-22	1245P / 1251P	"	3.3	0.52	0.62	-	0.32		.6	4	-	"
255	10-28	140P / 144P	"	3.5	0.98	0.95	4.18	0.93		.6	5	0	"
256	11-5	302P / 307P	"	4.0	0.64	0.63	4.13	0.40		.6	5	0	"
257	11-12	257P / 302P	"	3.5	0.65	0.71	4.12	0.46		.6	5	0	"
258	11-18	120P / 126P	"	4.0	0.69	0.64	4.13	0.44		.6	5	0	"
259	11-24	105P / 110P	"	4.0	0.97	0.93	4.13	0.90		.6	6	0	"
260	12-3	120P / 125P	"	4.0	1.01	0.56	4.14	0.57		.6	5	0	"
261	12-9	120P / 125P	"	4.0	0.75	0.60	4.15	0.45		.6	4	-	"
262	12-17	255P / 303P	"	4.0	0.97	0.78	4.14	0.76		.6	5	0	"
263	12-23	1057A / 1103A	"	4.0	0.87	0.71	4.14	0.62		.6	6	0	"
264	12-30	1054A / 1100A	"	4.1	1.06	0.78	4.15	0.83		.6	6	0	"
265	1-14	1132A / 1138A	"	4.0	0.99	0.86	4.15	0.85		.6	6	0	"
266	1-22	1222P / 112P	Bollinger & Belt	80.0	490.	6.98	10.64	3420.		.6	14	+ 23	"
267	1-29	112P / 128P	Bollinger	51.0	47.2	2.20	5.03	104.		.6	13	0	"
268	2-5	1010A / 1022A	"	33.8	31.6	1.87	4.78	59.3		.6	11	0	"
269	2-13	227P / 235P	"	28.1	26.0	0.96	4.51	24.9		.6	11	0	"
270	2-16	1220P / 1232P	Bollinger & Fuller	19.0	11.4	2.10	4.47	23.9		.6	11	0	"
271	2-26	535P / 550P	Bollinger	50.0	59.7	2.46	5.07	147.		.6	17	0	"
272	3-2	313P / 323P	Bollinger & Moon	47.5	49.4	1.51	4.47	74.5		.6	13	0	"
273	3-9	1135A / 1153A	Bollinger	53.0	73.4	2.34	4.89	172.		.6	13	0	"
274	3-18	322P / 335P	"	43.2	47.7	1.73	4.35	82.6		.6	13	0	"
275	3-23	345P / 357P	Bollinger & Moon	44.8	36.7	1.49	4.12	54.7		.6	13	0	FC 22
276	4-1	115P / 127P	Bollinger	23.2	19.8	1.88	4.02	37.2		.6	14	0	FC 6
277	4-9	912A / 928A	"	23.2	18.3	1.72	3.92	31.5		.6	13	-.01	"
278	4-16	923A / 938A	"	22.6	13.8	1.51	3.86	20.8		.6	11	0	"
279	4-21	155P / 210P	Bollinger & Turner	18.0	11.9	1.42	4.12	16.9		.6	11	0	"
280	4-29	907A / 918A	Bollinger	14.0	9.73	1.46	4.04	14.2		.6	11	0	"
281	5-6	140P / 155P	Turner	9.5	6.69	1.70	3.94	11.4		.6	10	0	FC 5
282	5-12	1235P / 1247P	"	8.5	5.82	1.34	4.14	7.8		.6	9	0	"
283	5-18	1215P / 1230P	"	9.5	6.59	1.18	4.16	7.8		.6	10	0	"
284	5-27	240P / 300P	"	Two Channels				7.1		.6	15	0	"
285	6-4	930A / 945A	Bollinger	"	"			7.2		.6	15		FC 6
286	6-11	145P / 155P	"	10.0	6.35	0.94		6.0		.6	11		"
287	6-18	104P / 115P	"	10.5	5.83	0.77		4.5		.6	12		"
288	6-24	230P / 245P	Turner	Two Channels				3.4		.6	15		FC 5
289	6-29	241P / 250P	Turner & Bollinger	7.5	3.41	0.73	3.89	2.5		.6	8	0	"
290	7-8	135P / 145P	Turner	7.5	2.44	0.82	3.96	2.0		.6	8	0	"
291	7-15	250P / 305P	"	Two Channels				1.8		.6	15		"
292	7-22	155P / 205P	"	6.5	2.05	0.83	4.05	1.7		.6	8	0	"
293	7-28	245P / 255P	"	6.5	1.72	0.64	3.88	1.1		.6	7	0	"
294	8-14	200P / 210P	"	6.5	1.74	0.69	3.93	1.2		.6	7	0	"
295	8-26	205P / 215P	"	5.5	1.42	0.61		0.87		.6	6		"
296	9-8	1000A / 1005A	Bollinger	4.5	1.45	0.68	3.97	1.0		.6	5	0	FC 6
297	9-23	923A / 928A	"	4.2	1.37	0.43		0.59		.6	6		"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

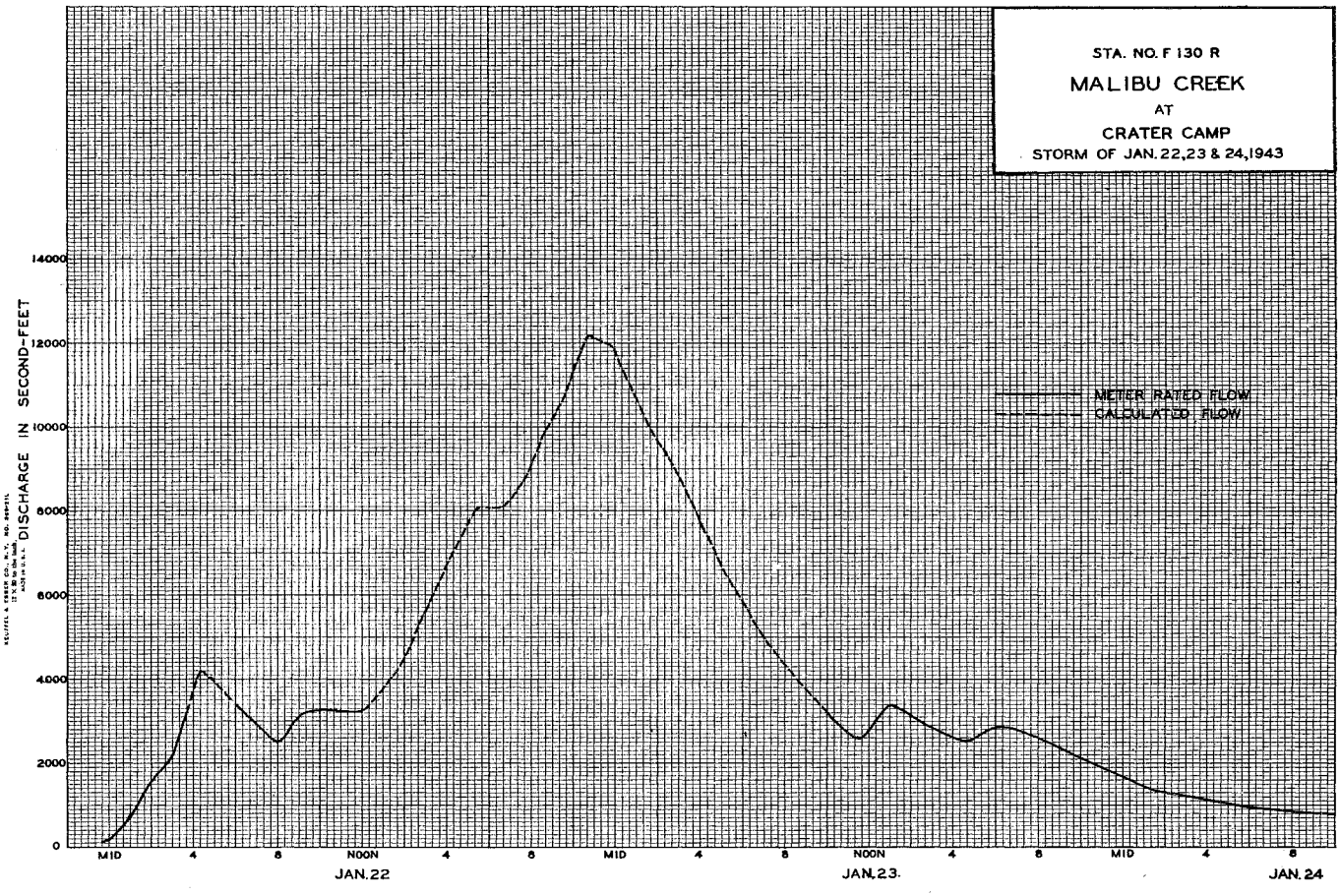
Sta. No. F130R

Daily discharge, in second-feet of MALIBU CREEK Near Crater Camp, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	d 0.1	a 0.6	d 0.6	d 0.8	135	69	37	d 14	d 7	d 2.4	d 1.1	d 0.9
2	d 0.1	a 0.5	d 0.6	d 0.8	98	76	34	d 13	d 7	d 2.3	d 1.1	d 1.0
3	d 0.1	a 0.4	d 0.6	d 0.8	85	1270	32	d 13	d 7	d 2.3	d 1.1	d 1.0
4	d 0.1	a 0.4	d 0.5	d 0.8	69	90	32	d 12	d 7	d 2.2	d 1.1	d 1.0
5	d 0.2	a 0.4	d 0.5	d 0.8	60	834	32	d 12	d 7	d 2.2	d 1.1	d 1.0
6	d 0.2	a 0.4	d 0.5	d 0.8	55	461	40	11	d 7	d 2.1	d 1.2	d 1.0
7	d 0.2	a 0.4	d 0.5	d 0.8	51	315	37	d 11	d 6.5	d 2.1	d 1.2	d 1.0
8	d 0.2	a 0.4	d 0.5	d 0.8	45	231	33	d 10	d 6.5	d 2.0	d 1.2	d 1.0
9	d 0.2	a 0.4	d 0.5	d 0.8	41	187	31	a 10	d 6.5	a 2.0	d 1.2	d 1.0
10	d 0.2	a 0.4	d 0.5	d 0.8	37	154	31	a 9.5	d 6	a 1.9	d 1.2	d 1.0
11	d 0.2	a 0.5	d 0.5	d 0.8	33	133	d 29	a 8.5	d 6	a 1.9	d 1.2	d 0.9
12	d 0.2	a 0.5	d 0.6	d 0.8	31	114	d 28	8	d 6	a 1.8	d 1.2	d 0.9
13	d 0.2	a 0.5	d 0.6	d 0.8	25	100	d 26	8	d 5.5	a 1.8	d 1.2	d 0.9
14	d 0.2	a 0.4	d 0.6	d 0.8	25	92	d 24	8	d 5.5	a 1.8	d 1.2	d 0.8
15	d 0.3	a 0.4	d 0.7	d 0.8	25	86	d 23	8	d 5	a 1.8	d 1.2	d 0.8
16	d 0.3	a 0.4	d 0.7	d 0.8	24	78	21	8	d 4.9	a 1.8	d 1.2	d 0.8
17	d 0.3	a 0.4	d 0.8	d 0.8	25	74	d 20	8	d 4.7	a 1.8	d 1.2	d 0.8
18	d 0.3	a 0.4	d 0.7	d 0.8	24	81	d 19	8	d 4.5	a 1.8	a 1.2	d 0.7
19	d 0.3	a 0.5	d 0.7	d 0.8	23	75	d 18	a 8	d 4.3	a 1.7	a 1.1	d 0.7
20	d 0.3	a 0.6	d 0.7	d 0.8	22	70	d 18	a 7.5	a 4.2	a 1.7	a 1.1	d 0.7
21	d 0.3	a 0.7	d 0.7	35	27	65	d 17	a 7.5	a 4.0	a 1.7	a 1.1	d 0.6
22	d 0.3	a 0.7	d 0.6	5370	283	69	d 17	a 7.5	a 3.8	a 1.7	a 1.0	d 0.6
23	a 0.3	a 0.8	d 0.6	4480	601	61	d 16	a 7.5	a 3.6	a 1.6	a 1.0	d 0.6
24	a 0.5	a 0.9	d 0.6	804	796	d 52	d 16	a 7.5	a 3.4	a 1.5	a 1.0	d 0.6
25	a 0.6	d 0.9	d 0.7	265	370	d 50	d 16	a 7.5	d 3.2	a 1.4	a 0.9	d 0.6
26	a 0.8	d 0.8	d 0.7	200	178	d 48	d 15	a 7	d 3.0	a 1.3	a 0.9	d 0.6
27	a 0.9	d 0.8	d 0.7	426	122	d 46	d 15	a 7	d 2.8	a 1.2	d 0.9	d 0.6
28	a 0.9	d 0.8	a 0.8	157	105	d 45	d 15	d 7	d 2.7	a 1.1	d 0.9	d 0.6
29	a 0.9	d 0.7	d 0.8	102		d 43	14	d 7	d 2.5	d 1.1	d 0.9	d 0.6
30	a 0.8	d 0.7	d 0.8	107		d 41	d 14	d 7	d 2.4	d 1.1	d 0.9	d 0.6
31	a 0.7		d 0.8	170		d 38		d 7		d 1.1	d 0.9	
	11.2	16.7	19.7	12132	3415	7149	720	275	149.5	54.2	33.7	23.9
MEAN	.36	.56	.64	391.	122.	231.	24.0	8.87	4.98	1.75	1.09	0.80
ACRE-FEET	22.	33.	39.	24060.	6770.	14180.	1430.	545.	297.	108.	67.	47.

Remarks:

YEAR OR PERIOD — MEAN 65.8 — ACRE-FEET 47600.



STATION F22R

MONROVIA CREEK above Sawpit Creek

LOCATION:

On the right (south) bank of the creek 200 feet above junction with Sawpit Creek, and about 2½ miles north of Monrovia.

DRAINAGE AREA:

1.9 square miles.

CHANNEL AND CONTROL:

Channel-rock and gravel.
Control-natural channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge at station.

RECORDER:

Installed November 10, 1927 in a concrete rubble house over a 4 ft x 3 ft concrete stilling well.
An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

None.

DIVERSIONS:

Monrovia pipe line diverts water above gage.

RECORDS AVAILABLE:

November 10, 1927 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum Not determined due to extreme and undetermined shift.
Minimum flow less than 0.03 second-feet October 1-8.
1927-1943
Maximum not determined March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Good for low flows.
Poor for high flows due to extreme and undetermined shift. High flows compared, on a drainage area basis, with the inflow to Sawpit Dam.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F22R

DISCHARGE MEASUREMENTS OF MONROVIA CREEK

XXX above Sawpit Creek DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
409	10-1	1120A / 1122A	Haig	0.5	0.07	0.29	4.20	0.02		.6	1	0	FC 32
410	10-8	1107A / 1108A	"	0.5	0.07	0.29	4.20	0.02		.6	1	0	"
411	10-15	106P / 108P	"	0.6	0.12	0.38	4.21	0.05		.6	1	0	"
412	10-22	1033A / 1035A	"	0.6	0.13	0.48	4.22	0.05		.6	1	0	"
413	10-28	555P / 558P	Haig & Waddicor	0.6	0.15	0.67	4.25	0.10		.6	2	0	"
414	11-4	326P / 330P	Haig	0.6	0.14	0.43	4.24	0.06		.6	2	0	"
415	11-12	1026A / 1028A	"	0.6	0.14	0.43	4.24	0.06		.6	2	0	"
416	11-25	1122A / 1124A	"	0.6	0.14	0.43	4.25	0.06		.6	2	0	"
417	12-3	512P / 514P	"	0.6	0.15	0.47	4.25	0.07		.6	2	0	"
418	12-10	1124A / 1127A	"	0.6	0.14	0.43	4.25	0.06		.6	2	0	"
419	12-17	1226P / 1230P	"	0.6	0.14	0.29	4.25	0.04		.6	2	0	"
420	12-23	1213P / 1215P	"	0.6	0.15	0.40	4.25	0.06		.6	2	0	"

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F22R

DISCHARGE MEASUREMENTS OF MONROVIA CREEK

XXX above Sawpit Creek DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
421	12-25	1244P / 1246P	Haig	0.7	0.18	0.56	4.27	0.10		.6	2	0	FC33
422	12-30	1238P / 1240P	"	1.0	0.30	0.23	4.29	0.07		.6	3	0	"
423	1-8	1222P / 1225P	"	1.0	0.26	0.38	4.30	0.10		.6	3	0	"
424	1-15	325P / 327P	"	1.0	0.24	0.38	4.23	0.09		.6	3	0	"
425	1-21	1119P / 1122P	Haig & Clair	1.1	0.36	0.64	4.27	0.23		.6	2	0	"
426	1-24	540P / 548P	Haig & Wallace	6.8	4.57	2.08	3.97	9.5		.6	8	0	"
427	1-27	1110A / 1115A	" "	4.5	1.68	2.03	3.83	3.4		.6	7	0	"
428	1-31	215P / 220P	Haig	6.5	3.73	1.95	3.91	7.3		.6	7	0	"
429	2-4	210P / 215P	"	5.0	1.58	1.08	3.68	1.7		.6	6	0	"
430	2-11	120P / 125P	"	2.2	0.89	0.90	3.63	0.80		.6	4	0	"
431	2-17	525P / 530P	"	2.2	0.75	0.59	3.57	0.44		.6	4	0	"
432	2-21	318P / 322P	"	2.2	0.93	1.29	3.69	1.2		.6	4	0	"
433	2-22	215P / 222P	Haig & Wallace	11.0	9.30	3.44	4.36	32.0		.6	9	0	FC 33
434	2-23	828P / 833P	Haig	8.0	9.50	0.96	4.03	9.1		.6	6	0	"
435	2-26	410P / 415P	"	2.6	1.46	2.33	3.87	3.4		.6	5	+.01	"
436	3-2	340P / 345P	"	2.6	1.27	1.97	3.82	2.5		.6	5	0	"
437	3-4	602P / 605P	Wallace & Henderson	11.0	6.18	4.85	4.29	30.0		.6	8	0	FC 42
438	3-5	1043A / 1055A	Wallace	12.0	8.03	3.76	4.17	30.6		.6	10	0	"
439	3-8	215P / 225P	Haig	9.8	5.37	1.70	3.97	9.1		.6	9	0	FC 35
440	3-12	235P / 250P	"	10.0	5.87	0.92	3.90	5.4		.6	10	0	"
441	3-19	1120A / 1130A	"	10.0	4.46	0.76	3.82	3.5		.6	7	0	FC 35
442	3-25	440P / 450P	"	9.7	5.14	0.44	3.79	2.3		.6	8	0	"
443	3-31	224P / 230P	"	4.0	1.62	1.48	3.77	2.4		.6	5	0	"
444	4-6	1110A / 1116A	"	6.0	2.04	2.01	3.88	4.1		.6	6	0	"
445	4-15	1012A / 1015A	"	4.0	0.88	1.82	3.81	1.6		.6	4	0	"
446	4-22	415P / 420P	Haig & Moon	3.5	0.76	1.70	3.76	1.3		.6	4	0	"
447	4-30	1135A / 1145A	Haig	3.5	0.79	1.41	3.75	1.1		.6	6	0	"
448	5-6	305P / 310P	"	3.3	0.56	1.43	3.74	0.80		.6	5	0	"
449	5-14	838A / 843A	Moon & Lindsay	3.5	0.57	1.25	3.76	0.71		.6	4	0	FC 22
450	5-21	856A / 901A	Moon	3.0	0.61	1.38	3.76	0.84		.6	5	0	"
451	5-27	250P / 255P	Haig	2.7	0.52	1.17	3.72	0.61		.6	5	0	FC 35
452	6-3	318P / 324P	Moon	3.0	0.45	1.16	3.72	0.52		.6	6	0	FC 22
453	6-14	935A / 940A	"	3.0	0.42	0.95	3.70	0.40		.6	5	0	"
454	6-18	826A / 831A	"	3.0	0.44	0.91	3.73	0.40		.6	5	0	"
455	6-24	312P / 316P	"	3.0	0.40	1.22	3.74	0.49		.6	4	0	"
456	7-2	830A / 831A	"	2.0	0.20	1.00	3.71	0.20		.6	2	0	"
457	7-9	845A / 849A	Moon	2.0	0.19	0.79	3.71	0.15		.6	4	0	FC22
458	7-16	208P / 215P	Haig	2.5	0.28	1.00	3.72	0.28		.6	5	0	FC 32
459	7-21	349P / 355P	Brewster	1.0	0.22	0.82	3.71	0.18		.6	2	0	FC 12
460	7-30	846A / 848A	Moon	2.0	0.18	0.89	3.70	0.16		.6	2	0	FC 22
461	8-6	832A / 833A	"	2.0	0.14	0.86	3.70	0.12		.6	2	0	"
462	8-15	903A / 904A	"	1.5	0.06	1.17	3.66	0.07		.6	2	0	"
463	8-20	835A / 836A	"	1.0	0.05	0.80	3.59	0.04		.6	2	0	"
464	8-25	833A / 834A	"	1.0	0.05	0.80	3.60	0.04		.6	2	0	"
465	9-1	836A / 838A	"	1.0	0.05	0.80	3.59	0.04		.6	2	0	"
466	9-8	440P / 445P	Brewster	0.5	0.12	0.33	3.59	0.04		.6	2	0	FC 12
467	9-14	316P / 320P	"	0.5	0.11	0.36	3.58	0.04		.6	2	0	"
468	9-24	345P / 346P	Moon	1.0	0.05	0.80	3.60	0.04		.6	2	0	FC 22

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

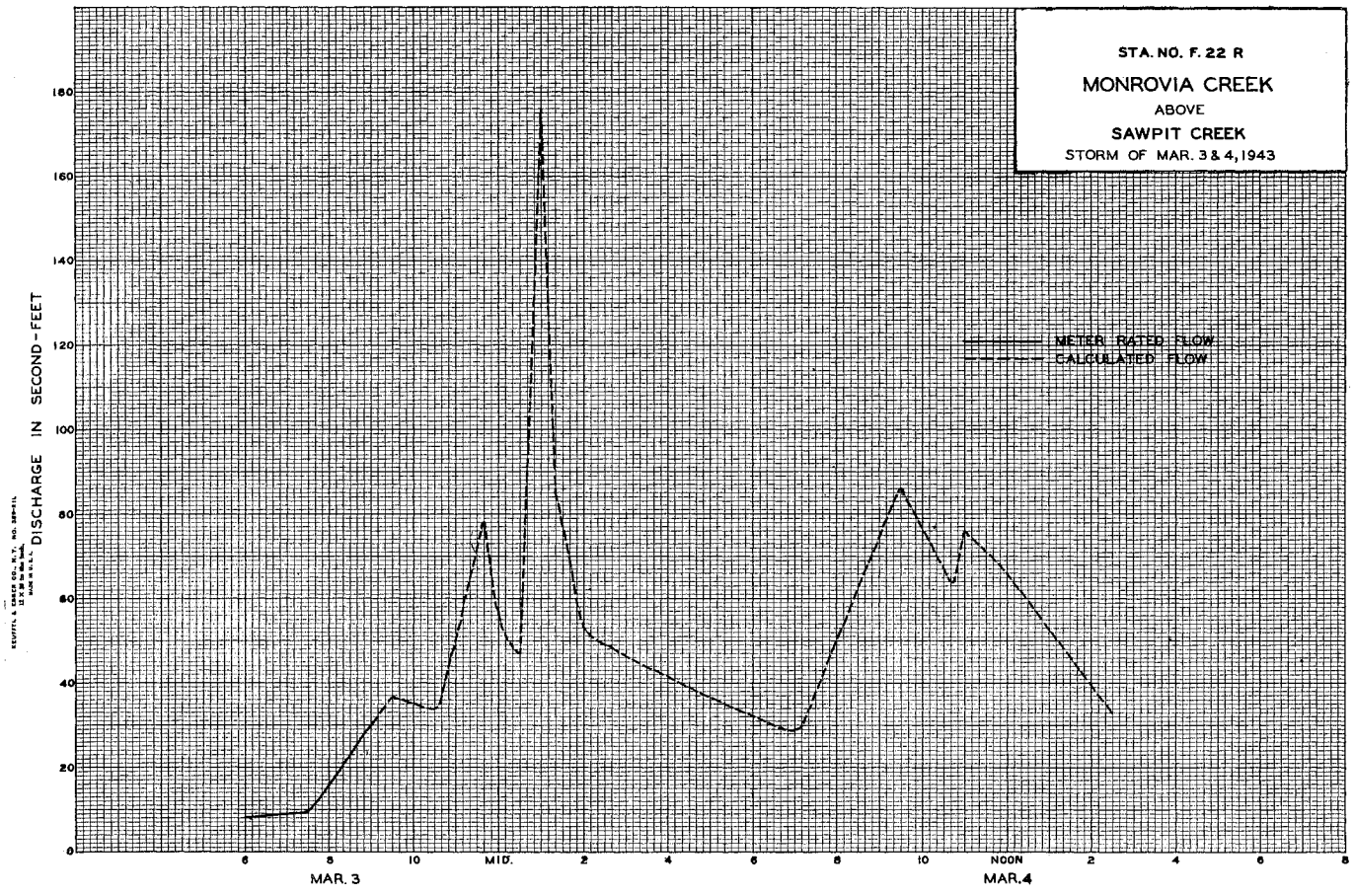
Sta. No. F22R

Daily discharge, in second-feet of MONROVIA CREEK Above Sawpit Creek, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.1	0.1	0.1	5.5	3.0	2.4	1.1	0.6	0.2	0.2	0.04
2	+	0.1	0.1	0.1	3.4	2.6	2.2	1.1	0.5	0.3	0.2	0.05
3	+	0.1	0.1	0.1	2.4	11	2.2	1.1	0.5	0.3	0.1	0.05
4	+	0.1	0.1	0.1	2.0	4.9	2.0	1.0	0.6	0.3	0.1	0.05
5	+	0.1	0.1	0.1	2.2	2.9	1.6	1.0	0.5	0.3	0.1	0.05
6	+	0.1	0.1	0.1	1.7	1.7	4.0	0.8	0.4	0.3	0.1	0.05
7	+	0.1	0.1	0.1	1.5	1.2	2.7	1.0	0.4	0.3	0.1	0.05
8	+	0.1	0.1	0.1	1.9	9	3.6	0.8	0.4	0.2	0.1	0.04
9	0.03	0.1	0.1	0.1	1.6	8	2.9	0.8	0.4	0.2	0.1	0.04
10	0.03	0.1	0.1	0.1	1.1	7	1.8	0.8	0.4	0.2	0.1	0.04
11	0.03	0.1	0.1	0.1	0.8	6	3.4	0.7	0.5	0.2	0.1	0.04
12	0.3	0.1	0.1	0.1	0.7	5.5	2.8	0.7	0.6	0.2	0.1	0.03
13	0.04	0.1	0.05	0.1	0.7	5.5	2.0	0.6	0.5	0.2	0.1	0.03
14	0.05	0.1	0.05	0.1	0.5	5.5	1.7	0.7	0.4	0.3	0.1	0.03
15	0.05	0.1	0.05	0.1	0.5	5.5	1.7	0.7	0.3	0.3	0.1	0.04
16	0.05	0.1	0.04	0.1	0.5	4.3	1.5	0.6	0.3	0.3	0.1	0.04
17	0.05	0.1	0.04	0.1	0.5	4.0	1.5	0.6	0.3	0.3	b 0.1	0.04
18	0.05	0.1	0.04	0.1	0.5	4.0	1.4	0.6	0.3	0.2	b 0.1	0.04
19	0.05	0.1	0.04	0.1	0.4	3.6	1.4	0.6	0.4	0.2	b 0.04	0.04
20	0.05	0.1	0.05	0.1	0.3	3.6	1.4	0.6	0.3	0.2	b 0.04	0.04
21	0.05	0.1	0.05	0.1	1.4	3.4	1.4	1.1	0.3	0.2	0.04	0.04
22	0.05	0.1	0.1	d 95	15	3.2	1.5	1.2	0.3	0.2	0.04	0.04
23	0.1	0.1	0.1	d 85	9	2.8	1.5	0.8	0.4	0.1	0.04	0.04
24	0.1	0.1	0.1	13	9	2.8	1.5	0.8	0.5	0.1	0.04	0.04
25	0.1	0.1	0.3	6	6	2.6	1.4	0.7	0.4	0.1	0.04	0.04
26	0.1	0.1	0.2	3.6	3.8	2.4	1.2	0.7	0.3	0.2	0.04	0.04
27	0.1	0.1	0.2	3.0	3.2	2.6	1.2	0.6	0.2	0.2	0.04	0.05
28	0.1	0.1	0.2	1.9	3.0	2.4	1.2	0.6	0.2	0.2	0.04	0.05
29	0.1	0.1	0.2	1.6		2.4	1.2	0.6	0.2	0.2	0.05	0.04
30	0.1	0.1	0.2	3.2		2.6	1.1	0.6	0.2	0.2	0.05	0.04
31	0.1		0.1	9		2.4		0.6		0.2	0.04	
	1.78	3.00	3.31	223.4	79.1	224.7	57.4	24.2	11.6	6.9	2.54	1.25
Mean	0.57	0.10	0.11	7.21	2.83	7.25	1.91	0.78	0.39	0.22	0.08	0.04
Acre-Feet	3.5	6.0	6.6	443.	157.	446.	114.	48.	23.	14.	5.0	2.5

Remarks: + = 0.03 c.f.s or less.

Year or Period — Mean 1.75 — Acre-Feet 1270.



STATION F195R

MONROVIA STORM DRAIN at Peck Road

LOCATION:

On the left (east) 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:

Low flows measured by wading.
High flows measured by floats near station.

RECORDER:

Installed April 25, 1932, over an 18 inch diameter corrugated iron pipe stilling well. A Stevens type L recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

April 25, 1932 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943

Maximum 717 second-feet, February 22.
Minimum no flow most of the year.

1932-1943

Maximum 1200 second-feet, estimated, March 2, 1938.
Minimum no flow most of each year.

ACCURACY:

Fair.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F195-R

DISCHARGE MEASUREMENTS OF MONROVIA STORM DRAIN

AT Peck Road DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
9	10-28	418P 426P	Haig & Waddicor	11.0	1.97	2.71	0.78	5.3		.6	8	-.03	FC 33
10	1-21	1048P 1058P	Haig & Clair	24.3	23.0	8.68	1.90	200.		Float	6	0	
11	2-21	223P 230P	Haig	21.2	9.16	6.61	1.36	60.0		"	6	+.38	
12	2-21	231P 234P	"	24.3	17.0	8.89	1.74	151.		"	5	+.12	
13	2-21	234P 237P	"	24.3	17.0	9.14	1.82	180.		"	6	+.04	

F.C. Dist. Form St 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

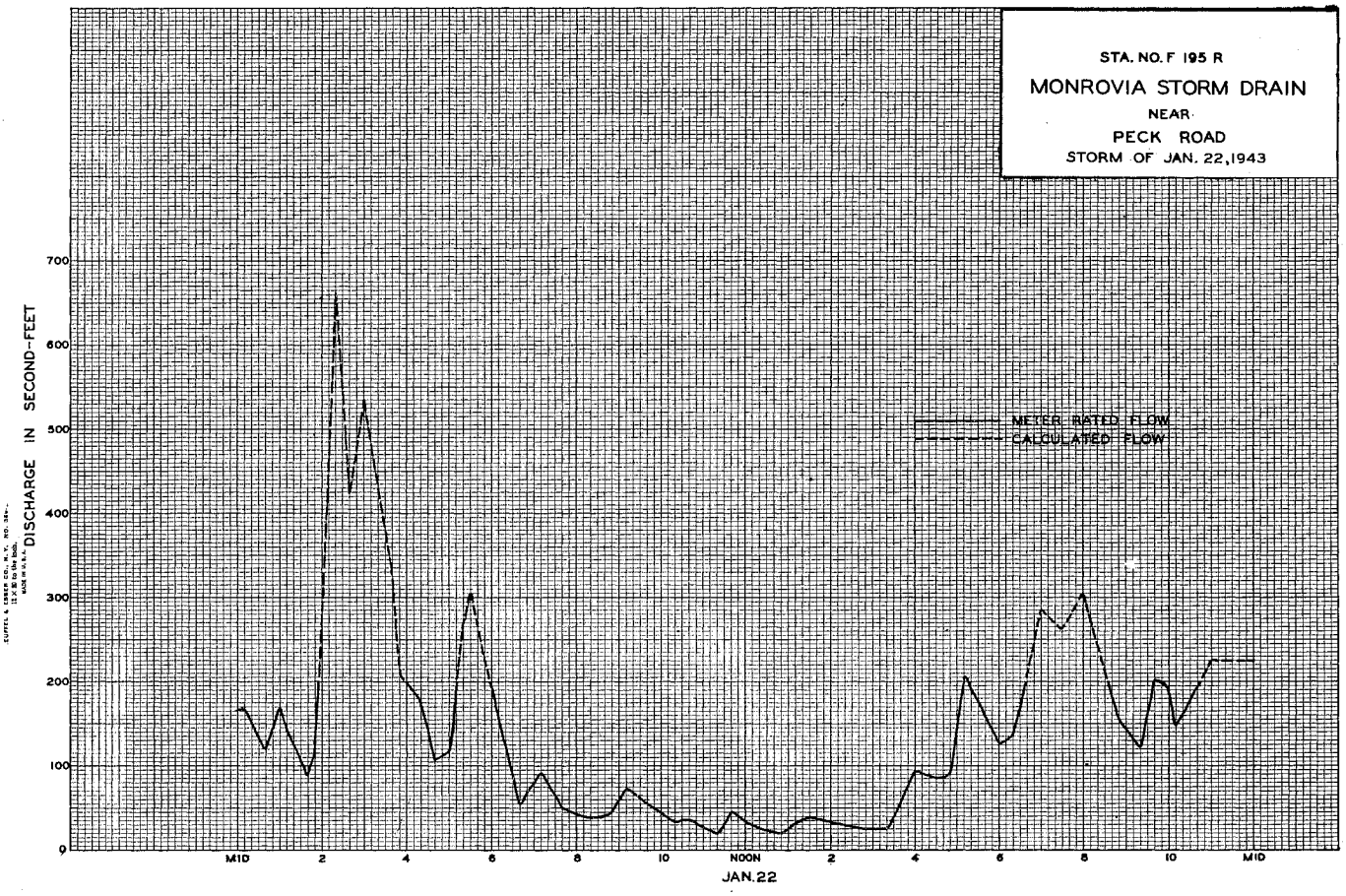
Sta. No. F195R

Daily discharge, in second-feet of MONROVIA STORM DRAIN At Peck Road, for the year ending September 30, 1943

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
2	0	0	0	0	+	0	0	0	0	0	0	0
3	0	0	0	0	+	27	0	0	0	0	0	0
4	0	0	0	0	0	45	0	0	0	0	0	0
5	0	0	0	0	0	55	0	0	0	0	0	0
6	0	0	0	0	0	18	21	0	0	0	0	0
7	0	0	0	0	0	07	0	0	0	0	0	0
8	0	0	0	0	33	04	14	0	0	0	0	0
9	0	0	0	0	0	03	0	0	0	0	0	0
10	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	01	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	09	0	0	0	0	0	0
18	0	0	0	0	0	04	0	0	0	0	0	0
19	0	16	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	02	0	0	0	0	0	0	0
21	0	0	0	16	75	0	0	0	0	0	0	0
22	0	0	0	147	49	0	0	0	0	0	0	0
23	0	0	0	66	16	0	0	0	0	0	0	0
24	0	0	39	14	65	0	0	0	0	0	0	0
25	0	0	6	+	0	0	0	0	0	0	0	0
26	0	0	0	55	0	0	0	0	0	0	0	0
27	0	0	0	17	0	0	0	0	0	0	0	0
28	12	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	19		0	0	0	0	0	0	0
31	0		0	75		0		0		0	0	
	12	16	99	2641	681	820	36	0	0	0	0	0
MEAN	0.04	0.05	0.32	8.52	2.43	2.65	0.12	0	0	0	0	0
ACRE-FEET	2.4	3.2	20.	524.	135.	163.	7.1	0	0	0	0	0

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 1.18
ACRE-FEET 855.



STATION F181R

MONTEBELLO STORM DRAIN at outlet into Rio Hondo

LOCATION:

On right (south) wing wall of the 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:

Channel-concrete apron with wing walls below a 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:

Low flows measured by wading at outlet.
High flows measured from head wall at end of covered section.

RECORDER:

Installed January 21, 1932 over an 18 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service, from October 1, 1942 to September 30, 1943.

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 diversions during the winter months.

RECORDS AVAILABLE:

January 12, 1932 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum Not determined due to draw down in stilling well.
Minimum 0.1 second-foot at various times.
1931-1943
Maximum 1400 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor due to extreme draw down in stilling well.
Mean daily flows compared with
Mean daily flows at Alhambra Wash.
Low flows ueually estimated due to communication being obstructed by sand.

OPERATION:

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

DISCHARGE MEASUREMENTS OF MONTEBELLO STORM DRAIN

AT NEAR above Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS REC. NO.	G. HT. CHANGE TOTAL	METER NO.
114	10-28	206P 218P	Bonadiman	14.0	8.34	5.17	0.67	43.1		.6	6	+0.06	FC 19
115	11-19	832A	"	7.0	0.70	0.40	0.19	0.28		.6	2	0	"
116	1-21	1010P 1027P	Bonadiman & Walton	14.0	28.2	13.0	0.98	368.		.6	6	-0.04	"
117	2-21	916A 930A	Bonadiman	14.0	6.54	4.07	0.62	26.6		.6	6	0	"
118	2-22	810P 821P	Bonadiman & Walton	14.0	14.9	7.12	1.13	106.		.6	6	-0.06	"
119	2-23	421P 432P	" "	14.0	12.7	6.90	1.03	87.5		.6	6	+0.02	"
120	2-24	736A 743A	" "	14.0	16.5	7.38	1.38	122.		.6	6	-0.03	"
121	3-3	945A 956A	Bonadiman	14.0	7.60	5.23	0.69	39.8		.6	6	-0.02	"
122	3-3	256P 350P	"	14.0	36.6	11.4	1.83	419.		.6	6	-0.60	"
123	3-3	351P 400P	"	14.0	28.1	10.1	1.73	285.		.6	6	0	"

F.C. Dist. Form H 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

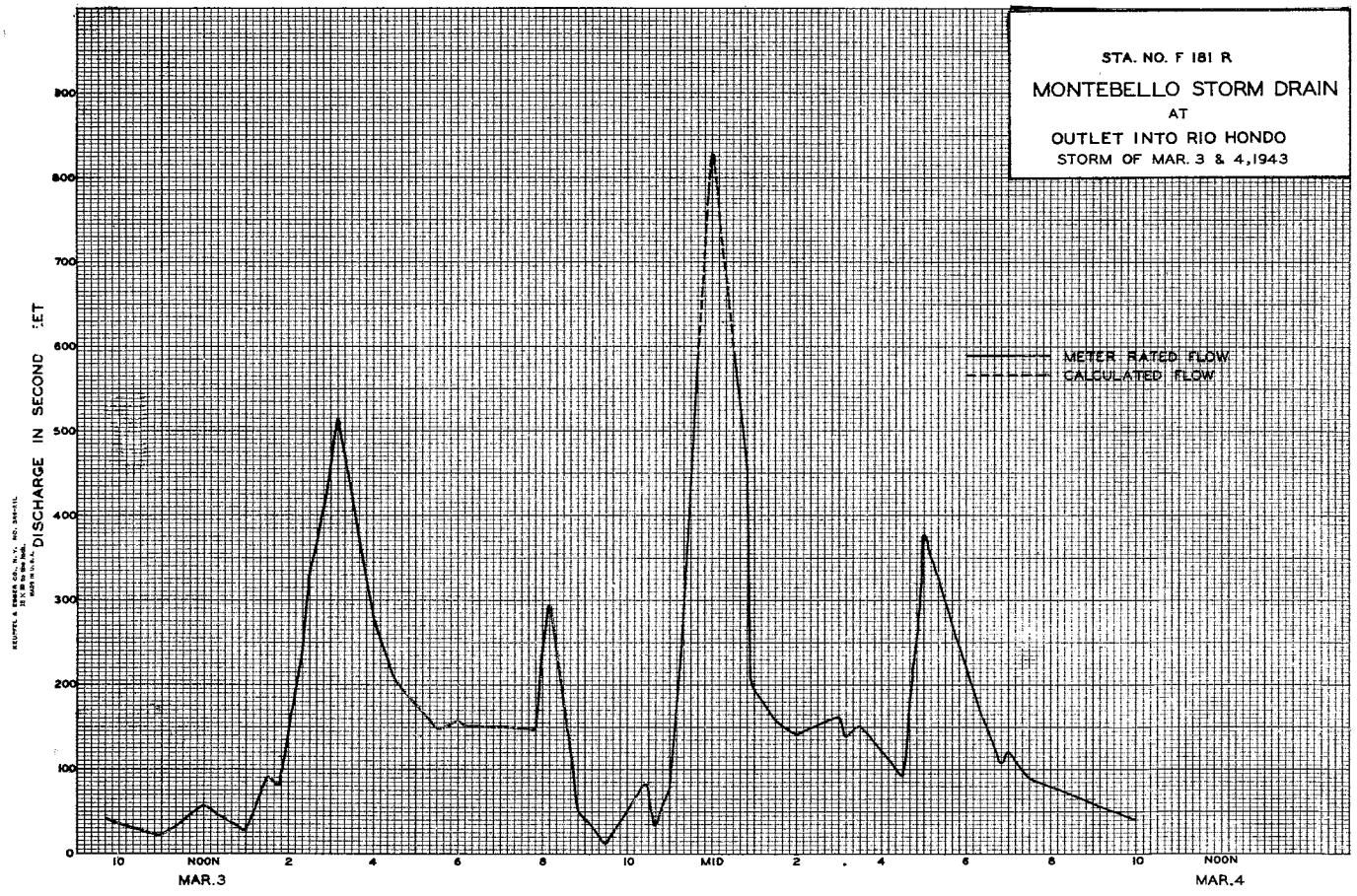
Sta. No. F181R

Daily discharge, in second-feet of MONTEBELLO STORM DRAIN At Outlet into Rio Hondo, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	b 0.1	1.5	0.3	2.1	1.1	1.3	1.1	b 0.1	b 0.1	b 0.1	b 0.1
2	0.9	b 0.1	1.7	0.3	1.5	0.9	1.3	0.9	b 0.1	b 0.1	b 0.1	b 0.1
3	1.1	b 0.1	1.9	0.3	1.3	v 101	1.3	0.5	b 0.1	b 0.1	b 0.1	b 0.1
4	0.9	0.9	2.1	0.3	1.1	v 119	1.3	0.5	b 0.1	b 0.1	b 0.1	b 0.1
5	0.9	0.3	1.9	0.7	0.7	b 10	6	0.5	b 0.1	b 0.1	b 0.1	b 0.1
6	1.1	0.7	1.7	0.7	0.5	2.3	7	0.7	b 0.1	b 0.1	b 0.1	b 0.1
7	1.1	0.7	2.1	0.7	0.5	1.9	0.9	0.7	b 0.1	b 0.1	b 0.1	b 0.1
8	1.1	0.5	1.7	0.7	8.5	1.7	1.5	0.5	b 0.1	b 0.1	b 0.1	b 0.1
9	1.3	1.1	1.7	0.9	0.7	1.9	0.7	0.7	b 0.1	b 0.1	b 0.1	b 0.1
10	1.3	1.1	1.9	1.1	0.5	1.3	1.1	0.7	b 0.1	b 0.1	b 0.1	b 0.1
11	1.7	1.1	1.9	1.1	0.3	1.1	0.7	0.9	b 0.1	b 0.1	b 0.1	b 0.1
12	1.7	1.3	1.7	1.1	0.3	0.9	0.5	0.9	b 0.1	b 0.1	b 0.1	b 0.1
13	1.1	1.5	1.7	1.3	0.5	0.9	0.9	0.9	b 0.1	b 0.1	b 0.1	b 0.1
14	1.3	1.5	1.7	1.3	0.3	0.9	0.9	0.7	b 0.1	b 0.1	b 0.1	b 0.1
15	1.3	2.3	1.9	1.3	0.3	0.9	1.1	0.7	b 0.1	b 0.1	b 0.1	b 0.1
16	1.3	1.7	2.1	1.3	0.5	0.7	1.1	0.7	b 0.1	b 0.1	b 0.1	b 0.1
17	1.3	1.5	2.1	1.3	0.9	6.5	0.9	0.9	b 0.1	b 0.1	b 0.1	b 0.1
18	1.3	1.7	2.1	1.3	0.9	3.8	0.9	1.1	b 0.1	b 0.1	b 0.1	b 0.1
19	1.1	3.7	2.1	1.3	1.1	0.9	1.3	1.1	b 0.1	b 0.1	b 0.1	b 0.1
20	1.1	0.9	2.1	1.3	1.1	0.7	1.1	1.1	b 0.1	b 0.1	b 0.1	b 0.1
21	1.5	1.1	2.1	v 60	10	0.9	1.1	b 0.1	b 0.1	b 0.1	b 0.1	b 0.1
22	0.9	0.9	2.1	v 300	v 90	1.5	1.1	b 0.1	b 0.1	b 0.1	b 0.1	b 0.1
23	1.1	0.9	2.1	v 120	b 21	0.7	1.1	b 0.1	b 0.1	b 0.1	b 0.1	b 0.1
24	0.7	0.9	12	b 10	v 24	0.7	1.1	b 0.1	b 0.1	b 0.1	b 0.1	b 0.1
25	0.7	0.9	12	2.1	1.9	0.9	0.9	b 0.1	b 0.1	b 0.1	b 0.1	b 0.1
26	0.9	1.1	0.7	30	1.7	1.1	1.1	b 0.1	b 0.1	b 0.1	b 0.1	b 0.1
27	1.1	1.1	0.3	b 11	1.3	1.1	1.3	b 0.1	b 0.1	b 0.1	b 0.1	b 0.1
28	1.3	1.3	b 0.1	1.9	1.1	1.1	0.7	b 0.1	b 0.1	b 0.1	b 0.1	b 0.1
29	b 1.1	1.1	b 0.1	1.9		1.1	0.9	b 0.1	b 0.1	b 0.1	b 0.1	b 0.1
30	b 0.1	1.3	b 0.1	v 50		1.1	0.9	b 0.1	b 0.1	b 0.1	b 0.1	b 0.1
31	b 0.1		b 0.1	35		1.1		b 0.1		b 0.1	b 0.1	
	45.0	33.4	69.3	640.5	174.6	269.7	42.0	16.9	3.0	3.1	3.1	3.0
MEAN	1.45	1.11	2.24	20.7	6.24	8.70	1.40	0.55	0.10	0.10	0.10	0.10
ACRE-FEET	89	66	137	1270	346	535	83	34	6.0	6.1	6.1	6.0

Remarks:

YEAR OR PERIOD — MEAN 3.60 — ACRE-FEET 2580



STATION F118B-R

PACOIMA CREEK FLUME below Pacoima Dam

LOCATION:

About 500 feet downstream from Pacoima Dam; former Station F118R was approximately 450 feet downstream. Former U.S.G.S. Station U13R was approximately ½ mile downstream.

DRAINAGE AREA:

28.2 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and boulders above and below flume.
Control-a ten foot San Dimas type flume with a concrete cut-off wall extending down to bed rock. Timber flume removed and a rubble and concrete flume installed in September 1943.
A V-notch weir, in guides in the 10 foot flume, can be dropped to measure low flows.

DISCHARGE MEASUREMENTS:

From footbridge over flume.

RECORDER:

Installed at Station F118R on March 24, 1933; removed February 1, 1935.
Installed at Station F118B-R on February 9, 1935; removed April 28, 1937. Reinstalled June 25, 1937 over a 2.5 foot x 3.0 foot wooden stilling well.
An H.C.F. continuous recorder was in service from October 1, 1942 to June 15, 1943.
Recorder removed from June 15 to September 15, 1943.
H.C.F. continuous recorder in service September 15, 1943 to September 30, 1943.

REGULATION:

Regulated by Pacoima Dam.
Stations F118R and F118B-R do not include spillway discharge.
Station U13R was so located that it would have included 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 June 15, 1943, and from September 15, 1943 to September 30. 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 598 second-feet, January 23.
Minimum no flow at various times.
1929-1943 (Stations F118R, F118B-R, and Parshall flume and dam records)
Maximum 685 second-feet, March 2, 1938.
Minimum no flow at various times.
1916-1929 (Station U13R)
Maximum 1860 second-feet, February 16, 1927.
Minimum no flow at various times.

ACCURACY:

Fair due to undetermined change of approach conditions and leakage thru the flume prior to June 15.
Flows frequently based on Pacoima Dam outflows.
V-notch weir was put into operation during low flows; while pool was filling and head building up, flow is considered constant.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F118B-R

DISCHARGE MEASUREMENTS OF PACOIMA CREEK FLUME

AT below Pacoima Dam DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
106	12-29	1018A / 1022A	Haig	1.5	0.19	0.58	0.09	0.11		.6	4	0	FC 33
107	1-25	110P / 120P	Luce	10.0	2.90	10.5	2.65	322.	Floats	6	0		
108	1-27	1212P / 1235P	Luce & Pardieck	42.5	46.0	2.36	1.17	108.		.6	20	0	FC 39
109	1-28	1035A / 1055A	Luce	32.5	36.0	2.63	0.88	94.6		.6	13	0	"
110	1-31	950A / 1020A	"	41.5	46.6	1.95	0.86	91.0		.6	20	0	"
111	2-5	220P / 305P	"	41.5	44.0	1.81	0.80	79.6		.6	21	0	"
112	2-6	305P / 330P	"	40.5	47.7	2.27	0.97	108.		.6	16	0	"
113	2-11	1245P / 105P	"	40.5	43.2	2.34	0.95	101.		.6	15	0	FC 41
114	2-12	620P / 630P	"	10.0	5.74	6.92	0.43	39.7		.6	6	0	FC 39
115	2-16	235P / 245P	Green	10.0	3.80	6.16	0.28	23.4		.6	7	0	FC 30
116	2-18	305P / 318P	Luce	10.0	3.11	5.60	0.25	17.4		.6	6	0	FC 39
117	2-23	300P / 320P	Luce & Pardieck	42.0	45.9	2.13	1.02	97.8		.6	20	0	FC 41
118	2-24	1040A / 1105A	" "	41.5	49.4	2.73	1.56	135.		.6	18	0	"
119	2-24	205P / 224P	Luce & Blakely	42.0	51.4	2.72	1.58	140.		.6	21	0	"
120	2-24	1010P / 1033P	Luce & Pardieck	43.0	51.7	2.59	1.36	134.		.6	22	0	"
121	2-25	640P / 700P	Luce	42.0	50.5	2.16	1.14	109.		.6	21	+.01	FC 39
122	3-3	235P / 245P	"	10.0	23.8	10.1	2.29	240.	Floats	4	0		
123	3-4	925A / 930A	Luce & Blakely	10.0	28.2	9.08	2.43	256.	"	4	0		
124	3-5	1135A / 1140A	" "	10.0	24.5	11.2	2.46	274.	"	4	0		
125	3-8	340P / 345P	Luce	10.0	29.4	10.7	3.03	315.	"	4	0		
126	3-10	1245P / 105P	Luce	43.0	48.4	2.28	1.00	112.		.6	22	0	FC 39
127	3-19	540P / 550P	"	10.0	6.35	6.80	0.38	43.2		.6	6	0	"
128	3-25	120P / 125P	"	10.0	6.61	6.31	0.38	41.7		.6	7	0	"
129	4-2	415P / 425P	"	10.0	6.60	6.02	0.41	39.7		.6	6	0	"
130	4-9	545P / 550P	"	10.0	6.48	6.32	0.41	41.0		.6	6	0	"
131	4-16	210P / 220P	"	10.0	6.03	5.64	0.36	34.0		.6	6	0	"
132	4-24	1005A / 1015A	"	10.0	6.44	6.35	0.43	40.9		.6	6	0	"
133	4-29	347P / 357P	"	10.0	6.38	6.21	0.40	39.6		.6	6	0	"
134	5-7	1132A / 1140A	"	10.0	6.29	6.25	0.38	39.3		.6	6	0	"
135	5-13	325P / 335P	"	10.0	2.87	3.48	0.33	10.0		.6	7	0	"
136	5-20	1015A / 1035A	Turner	10.0	5.00	1.74	0.32	8.7		.6	10	0	FC 5
137	5-27	410P / 420P	Luce	10.0	2.16	3.61	0.17	7.8		.6	7	0	FC 39
138	6-5	930A / 940A	"	10.0	2.24	2.99	0.17	6.7		.6	7	0	"
139	6-19	420P / 435P	"	Two Channels			-	5.5		.6	9	-	"
140	6-24	340P / 350P	"	9.0	5.10	1.20		6.1		.6	7	-	"
141	7-2	400P / 407P	"	11.5	4.49	1.27		5.7		.6	6		"
142	7-9	500P / 510P	"	11.0	3.58	1.01		3.6		.6	6		"
143	8-6	350P / 355P	"	4.5	2.91	2.65		7.7		.6	5		"

F.C. Dist. Form 92 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F118R-R

Daily discharge, in second-feet of PACOIMA CREEK below Pacoima Dam, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.5	0.3	+	d 0.1	91	111	41	39	6.5	a 5.5	a 7.7	a +
2	3.5	0.3	+	d 0.1	89	97	40	39	6.5	a 5.7	a 7.7	a +
3	3.5	0.3	+	d 0.1	86	196	41	39	6.5	a 5.5	a 7.7	a +
4	3.4	0.3	+	d 0.1	81	302	41	39	6.5	a 5.3	a 7.7	a 2.5
5	3.4	0.3	+	d 0.1	80	338	32	39	6.5	a 5.1	a 7.7	a 7.3
6	3.4	0.3	+	d 0.1	95	287	+	39	6.5	a 4.8	a 7.2	a 7.3
7	3.4	0.3	+	d 0.1	107	d 272	24	v 29	5.5	a 4.5	a 7.1	a 7.2
8	3.3	0.3	0	+	88	d 290	41	v 17	5.5	a 4.1	a 7.1	a 7.7
9	3.3	0.3	0	+	105	d 321	41	v 16	5.5	a 3.6	a 7.1	a 7.7
10	3.3	0.4	0	+	105	d 187	41	v 13	5.5	a 2.7	a 7.1	a 7.7
11	3.2	0.7	0	+	102	112	40	10	5.5	a +	a 7.2	a 7.7
12	3.1	0.1	0	+	95	111	40	10	5.5	a +	a 7.1	a 7.7
13	3.0	0.1	0	+	36	110	37	10	5.5	a +	a 7.1	a 7.7
14	2.9	0.1	0	0	32	109	37	10	6.5	a +	a 4.2	a 7.7
15	2.7	+	0	0	29	110	34	9.5	7.0	a +	a 0	a 7.7
16	2.3	0.4	0	0	26	110	34	a 8.5	a 7.0	a +	a 0	a 7.5
17	2.0	0.2	0	0	23	108	34	a 9.5	a 6.5	a +	a 2.2	a 7.5
18	1.7	0.1	0	0	20	86	38	a 9.5	a 5.5	a +	a 7.6	a 7.4
19	1.2	0.3	0	0	15	44	41	a 9.0	a 5.5	a 0	a 7.6	a 7.4
20	0.8	0.2	0	0	13	44	41	a 9.0	a 5.5	a 0	a 7.6	a 7.4
21	0.9	0.1	0	+	+	44	41	a 9.0	a 6	a 0	a 7.5	a 7.3
22	0.9	0.1	0	+	+	44	41	a 8.5	a 6	a 0	a 2.5	a 7.2
23	0.8	d 0.5	0	d 474	99	44	41	a 7.5	a 6	a 0	a +	a 7.2
24	0.8	d 0.1	0	d 576	99	44	41	a 7.5	a 6	a 0	a +	a 6.6
25	0.8	10	0	d 310	124	43	40	a 7.5	a 6	a 0	a +	a 5.8
26	0.6	d 0.1	0	d 306	110	41	40	a 7	a 6	a 0	a +	5.0
27	0.2	d 0.1	0	160	111	41	40	a 7.5	a 6	a 0	a +	5.0
28	0.2	d 0.1	11	94	111	40	40	a 7.5	a 6	a 0	a +	5.0
29	0.5		d 0.1	124		39	39	a 7.0	a 6	a +	a +	4.9
30	0.6		d 0.1	134		36	39	a 7.0	a 5.5	a +	a +	4.8
31	0.4		d 0.1	89		41		a 6.5		a 2.5	a +	
	63.6	11.7		1972.4		1120		180.4		49.5	134.7	181.9
	16.4	2267.7		3802		488.20						
Mean	2.05	0.55	0.38	73.2	70.4	123.	373	15.7	6.01	1.60	4.35	6.06
Acre-Feet	126.	33.	23.	4500.	3910.	7540.	2220.	968.	358.	98.	267.	361.

Remarks: + = 0.05 c.f.s. or less.

Year or Period — Mean 28.2 — Acre-Feet 20400.

STATION F-16-R

PACOIMA WASH at Parthenia Street

LOCATION:

On the downstream side of Parthenia Street bridge approximately 3 miles northwest of Van Nuys.

DRAINAGE AREA:

50.6 square miles.

CHANNEL AND CONTROL:

Channel-composed of sand and gravel. Weeds and brush along banks.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of highway bridge, or from R.R. bridge just upstream from highway bridge.

RECORDER:

Installed December 26, 1928, over an 18 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by the Pacoima Dam, and Pacoima Spreading Grounds.

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, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 843 second-feet, January 22.
Minimum no flow most of year.
1929-1943
Maximum 2,400 second-feet, estimated March 3, 1938.
Minimum no flow most of each year.

ACCURACY:

Fair.
Control shift was less than usual this season.

OPERATION:

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F16R

DISCHARGE MEASUREMENTS OF PACOIMA WASH

at Parthenia Street DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
175	1-21 1-22	1159P 1204A	Luce-Pardieck	8.5	2.94	2.08	4.13	6.1		.6	4	0	FC 39
176	1-22	320A 350A	Luce	Two Channels			6.12	673.	Float	.6	-	-.15 Floats	FC 39
177	1-22	545A 558A	Luce-Pardieck	72.0	55.6	5.21	5.18	290.		.6	12	-.07	FC 39
178	1-22	610A 630A	" "	36.0	43.4	4.50	4.88	201.		.6	10	-.25	FC 41
179	1-22	700A 711A	" "	68.5	37.7	3.36	4.73	127.		.6	12	-.05	FC 39
180	1-22	753A 801A	" "	66.0	34.6	2.55	4.66	85.3		.6	11	-.02	"
181	1-22	613P 619P	Luce	24.5	12.2	2.72	4.55	33.0		.6	9	+.10	"
182	1-22	1100P 1150P	"	34.0	84.1	6.11	5.47	529.		.6	9	-.18 +.06	FC 41
183	1-23	1135A 1242P	Luce-Pardieck	36.0	75.8	6.77	5.38	513.		.6	10	+.07 -.06	"
184	1-24	1240P 1253P	" "	75.0	63.9	5.31	5.42	339.		.6	17	0	FC 39
185	1-26	1133A 1143A	" "	47.5	36.3	4.66	5.38	169.		.6	14	-.01	"
186	1-27	755A 805A	" "	53.5	42.4	5.30	5.40	225.		.6	13	-.03	"
187	1-31	120P 125P	Luce	4.0	0.58	1.48	4.46	0.86		.6	4	0	"
188	2-3	1005A 1020A	"	21.0	7.53	3.45	4.97	26.0		.6	9	-.02	"
189	2-12	1105A 1125A	"	28.0	14.4	4.92	5.11	70.6		.6	10	0	FC 41
190	2-23	122P 124P	Luce-Pardieck	8.0	1.12	1.66	4.18	1.9		.6	5	0	FC 39
191	2-24	800P 806P	" "	21.0	10.0	4.46	5.07	44.6		.6	7	-.02	FC 41
192	2-25	1000A 1015A	Luce	30.0	14.0	4.45	5.08	62.2		.6	8	-.04	"
193	2-26	1130A 1145A	"	21.0	7.12	2.64	4.98	18.8		.6	8	0	FC 39
194	3-3	450P 500P	Luce-Blakely	55.0	35.6	4.30	5.22	153.		.6	14	-.02	"
195	3-4	700A 710A	" "	61.5	36.3	4.25	5.10	154.		.6	14	-.04	"
196	3-5	1000A 1015A	" "	Two Channels			5.36	223.		.6	21	+.02	"
197	3-5	625P 632P	" "	38.0	21.0	5.08	5.18	107.		.6	11	+.03	"
198	3-8	145P 155P	Luce	41.0	26.5	4.76	5.35	126.		.6	9	+.02	FC 39
199	3-10	1030A 1040A	"	40.0	30.3	4.68	5.42	140.		.6	10	-.01	"
200	3-12	105P 110P	"	5.0	0.39	0.49	4.71	0.19		.6	4	0	"
201	3-17	1135P 1140P	Luce-Pardieck	27.5	11.2	3.51	5.27	39.1		.6	8	-.02	"
202	3-18	924A 928A	Luce	5.0	0.62	0.55	4.57	0.34		.6	4	0	"
203	4-2	1130A 1140A	"	Two Channels			4.98	3.2		.6	10	0	"
204	4-9	1030A 1040A	"	17.0	4.02	2.14	5.24	8.6		.6	6	-.01	"
205	4-16	1030A 1040A	"	5.0	1.13	1.36	5.25	1.5		.6	4	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

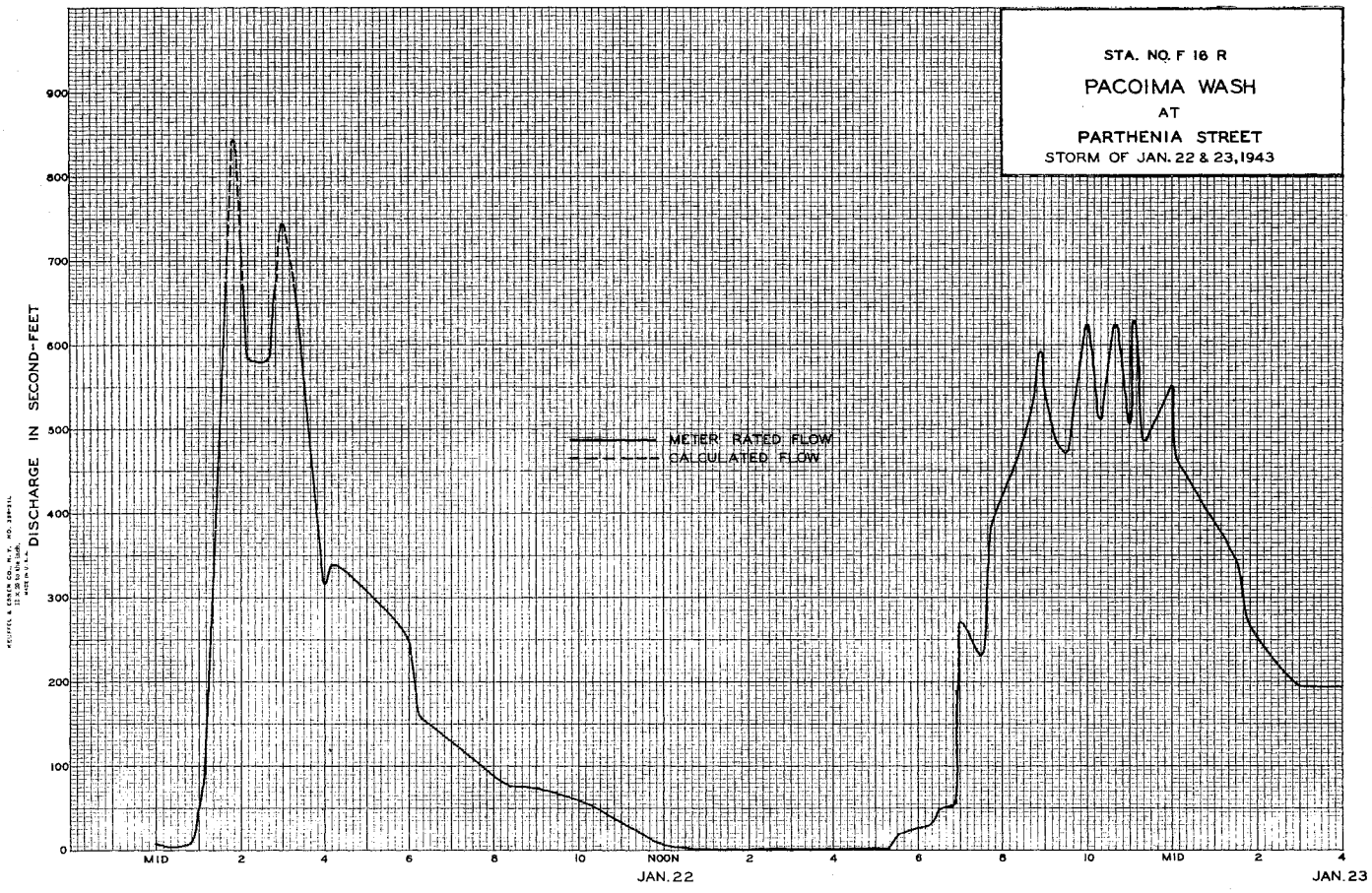
Sta. No F-16-R

Daily discharge, in second-feet of PACOIMA WASH at Parthenia Street, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	2.6	a 31	3.4	0	0	0	0	0
2	0	0	0	0	2.9	a 23	3.6	0	0	0	0	0
3	0	0	0	0	6.5	a118	4.0	0	0	0	0	0
4	0	0	0	0	0.1	171	3.2	0	0	0	0	0
5	0	0	0	0	a 3.0	179	5.5	0	0	0	0	0
6	0	0	0	0	a 7	141	0.8	0	0	0	0	0
7	0	0	0	0	a 13	108	1.3	0	0	0	0	0
8	0	0	0	0	a 15	135	8.5	0	0	0	0	0
9	0	0	0	0	a 13	161	8.5	0	0	0	0	0
10	0	0	0	0	a 14	d 7	6	0	0	0	0	0
11	0	0	0	0	a 12	1.7	4.9	0	0	0	0	0
12	0	0	0	0	a 46	+	2.6	0	0	0	0	0
13	0	0	0	0	a 0	1.4	1.2	0	0	0	0	0
14	0	0	0	0	a 0	55	1.9	0	0	0	0	0
15	0	0	0	0	a 0	59	1.2	0	0	0	0	0
16	0	0	0	0	a 0	d 4	1.2	0	0	0	0	0
17	0	0	0	0	a 0	19	0.6	0	0	0	0	0
18	0	0	0	0	a 0	9	2.0	0	0	0	0	0
19	0	0	0	0	a 0	+	2.7	0	0	0	0	0
20	0	0	0	0	a 0	0	2.2	0	0	0	0	0
21	0	0	0	0.4	a 0	0	1.4	0	0	0	0	0
22	0	0	0	218	a 0	0	0.9	0	0	0	0	0
23	0	0	0	431	a 11	0	1.9	0	0	0	0	0
24	0	0	+	263	a 23	0	0.7	0	0	0	0	0
25	0	0	0	260	a 36	0	0	0	0	0	0	0
26	0	0	0	317	a 32	0	2.3	0	0	0	0	0
27	0	0	0	110	a 22	0	1.7	0	0	0	0	0
28	+	0	0	7	a 21	9	0	0	0	0	0	0
29	0	0	0	26		6.5	0	0	0	0	0	0
30	0	0	0	65		3.4	0	0	0	0	0	0
31	0		0	16		4.0		0		0	0	
	+	0	+	1613.4	280.1	1404.0	74.2	0	0	0	0	0
MEAN	+	0	+	52.0	10.0	45.3	2.47	0	0	0	0	0
ACRE-FEET	+	0	+	3200	556	2780	147	0	0	0	0	0

Remarks:

YEAR OR PERIOD — MEAN 9.24 — ACRE-FEET 6680



STATION F40R

PUDDINGSTONE CREEK Below Puddingstone Dam

LOCATION:

On the right (east) bank about 1000 feet below Puddingstone Dam near San Dimas.

DRAINAGE AREA:

32.3 square miles, including areas controlled by several dams in the mountain tributaries.

CHANNEL AND CONTROL:

Channel-sand, gravel and puddingstone. 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:

Low flows measured by wading.
No facilities for measuring high flows.

RECORDER:

Installed December 28, 1927 in a concrete house over a 3 ft x 4 ft concrete stilling well.
An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow regulated by Puddingstone Dam.

DIVERSIONS AND OR REGULATIONS:

San Dimas Creek, which is regulated by San Dimas Dam and Puddingstone Diversion Dam, can be diverted to Puddingstone Reservoir at Puddingstone Diversion Dam. Metropolitan Water District Aqueduct occasionally spills flow into Puddingstone Diversion Channel.

DIVERSION:

San Dimas Water Company diverts outflow from dam above the station.

RECORDS AVAILABLE:

December 28, 1927 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 287 Second feet March 4, 1943.
Minimum 0.1 second feet at various times
1929-1943
Maximum 287 Second feet, March 4, 1943.
Minimum + at various times.

ACCURACY:

Good.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F40R

DISCHARGE MEASUREMENTS OF PUDDINGSTONE CREEK

~~At~~ below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
317	10-7	1005A 1010A	Brewster	1.0	0.22	0.64	0.08	0.14		.6	2	0	FC 12
318	10-14	905A 910A	"	0.5	0.19	0.84	0.10	0.16		.6	1	0	"
319	10-21	825A 830A	"	0.5	0.11	0.36	0.03	0.04		.6	1	0	"
320	10-28	900A 905A	"	0.5	0.12	0.92	0.06	0.11		.6	1	0	"
321	11-4	850A 855A	Brewster	1.0	0.36	0.89	0.14	0.32		.6	2	0	FC12
322	11-13	906A 910A	"	0.5	0.12	0.50	0.04	0.06		.6	1	0	"
323	11-18	847A 855A	"	2.5	1.67	0.56	0.28	0.93		.6	5	0	"
324	11-27	1112A 1115A	"	0.5	0.12	0.58	0.04	0.07		.6	1	0	"
325	12-2	906A 910A	"	0.5	0.12	0.67	0.05	0.08		.6	1	0	"
326	12-9	855A 859A	"	1.0	0.26	0.81	0.11	0.21		.6	2	0	"
327	12-16	136P 140P	"	1.0	0.12	0.33	0.03	0.04		.6	2	0	"
328	12-22	503P 507P	"	0.5	0.14	1.00	0.08	0.14		.6	1	0	"
329	12-29	415P 422P	Haig	1.2	0.26	0.96	0.10	0.25		.6	3	0	FC 33
330	12-29	444P 448P	Brewster	1.0	0.26	0.73	0.10	0.19		.6	2	0	FC 12
331	1-7	136P 140P	"	1.0	0.28	0.71	0.10	0.20		.6	2	0	"
332	1-14	856A 900A	"	1.0	0.24	0.92	0.11	0.22		.6	2	0	"
333	1-21	930A 935A	"	1.0	0.24	0.79	0.10	0.19		.6	2	0	"
334	1-27	940A 945A	"	2.0	0.61	0.92	0.21	0.56		.6	4	0	FC 35
335	1-29	840A 845A	"	1.0	0.32	1.12	0.16	0.36		.6	2	0	"
336	2-4	905A 910A	"	1.0	0.41	0.85	0.16	0.35		.6	2	0	FC 12
337	2-10	939A 945A	"	2.0	0.56	0.64	0.16	0.36		.6	4	0	"
338	2-18	910A 915A	"	1.0	0.24	0.88	0.10	0.21		.6	2	0	"
339	2-25	910A 925A	Brewster & Pollard	15.0	21.3	2.47	1.99	52.6		.6	8	0	FC 12
340	3-3	910P 930P	Brewster & Smith	18.0	31.2	3.43	2.34	107.		.6	8	0	"
341	3-11	1002A 1008A	Brewster	4.0	0.94	0.84	0.62	0.79		.6	4	0	"
342	3-18	900A 906A	"	4.0	1.20	0.54	0.63	0.65		.6	4	0	"
343	3-25	814A 820A	"	4.0	1.45	0.54	0.63	0.78		.6	4	0	"
344	4-1	838A 845A	"	4.0	1.70	0.39	0.62	0.67		.6	4	0	"
345	4-8	844A 850A	"	4.0	1.70	0.43	0.64	0.73		.6	4	0	"
346	4-15	820A 826A	"	4.0	2.10	0.30	0.63	0.64		.6	4	0	"
347	4-22	800A 805A	"	4.0	1.35	0.52	0.62	0.70		.6	4	0	"
348	4-29	901A 906A	"	3.0	1.30	0.67	0.64	0.87		.6	3	0	"
349	5-6	814A 820A	"	4.0	1.39	0.52	0.65	0.72		.6	4	0	"
350	5-12	925A 931A	"	3.0	1.32	0.55	0.66	0.73		.6	3	0	"
351	5-20	903A 910A	"	3.0	1.22	0.48	0.60	0.60		.6	3	0	"
352	5-27	840A 846A	"	2.0	2.33	1.93	1.05	4.5		.6	4	0	"
353	6-3	854A 900A	"	1.0	0.24	0.46	0.54	0.11		.6	2	0	"
354	6-10	826A 830A	"	1.0	0.30	0.53	0.54	0.16		.6	2	0	"
355	6-17	801A 805A	"	1.0	0.44	0.93	0.63	0.41		.6	2	0	"
356	6-24	845A 850A	"	1.0	0.26	0.35	0.05	0.09		.6	2	0	"
357	7-1	820A 830A	"	3.5	2.33	0.82	0.43	1.9		.6	4	0	"
358	7-8	915A 926A	"	5.0	4.63	0.91	0.72	4.2		.6	5	0	"
359	7-15	947A 955A	"	4.0	1.64	1.04	0.42	1.7		.6	4	-.01	"
360	7-22	839A 845A	"	2.0	0.55	0.58	0.16	0.32		.6	4	0	"
361	7-29	858A 907A	Brewster	4.5	2.72	1.25	0.62	3.4		.6	5	0	"
362	8-5	203P 215P	"	5.0	5.00	1.28	0.92	6.4		.6	5	0	"
363	8-12	822A 830A	"	3.0	1.78	0.96	0.41	1.7		.6	3	0	"
364	8-19	841A 845A	"	1.0	0.27	0.63	0.10	0.17		.6	2	0	"
365	8-26	305P 307P	Haig & van der Goot	0.8	0.21	0.81	0.08	0.17		.6	1	0	FC 35
366	9-2	410P 412P	Haig	0.6	0.12	0.25	0.04	0.03		.6	2	0	"
367	9-10	355P 400P	Brewster	1.0	0.24	0.83	0.10	0.20		.6	2	0	FC 12
368	9-16	403P 412P	"	2.5	1.62	1.17	0.45	1.9		.6	5	0	"
369	9-23	803A 815A	"	3.0	2.20	1.41	0.61	3.1		.6	6	0	"
370	9-30	945A 955A	"	3.0	2.28	1.40	0.63	3.2		.6	6	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F42R

Daily discharge, in second-feet of PUDDINGSTONE CREEK Below Puddingstone Dam for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.3	0.1	0.2	0.4	51	0.6	0.8	2.8	3.3	4.6	2.5
2	0.2	0.1	0.1	0.2	0.4	30	0.7	0.7	1.8	1.7	3.6	0.6
3	0.4	0.1	0.1	0.2	0.4	19.7	0.7	0.8	0.1	1.2	1.0	3.1
4	0.4	0.3	0.2	0.2	0.4	139	0.7	0.6	1.8	3.3	2.0	2.5
5	0.3	0.3	0.2	0.2	0.4	129	0.6	0.8	3.7	4.1	4.8	6.1
6	0.2	0.3	0.2	0.2	0.3	139	0.7	0.7	3.2	3.2	1.0	4.8
7	0.1	0.1	0.2	0.2	0.3	141	0.7	0.7	3.2	2.4	0.6	0.7
8	0.1	0.2	0.2	0.2	0.5	105	0.7	0.7	1.1	4.2	1.5	0.4
9	0.1	0.3	0.2	0.2	0.4	132	0.7	0.7	0.5	2.9	4.9	1.2
10	0.1	0.1	0.2	0.2	0.3	47	0.7	0.7	0.2	0.7	5.4	1.0
11	0.1	0.3	0.2	0.2	0.3	0.8	0.7	0.7	0.3	0.9	2.6	0.5
12	0.1	0.2	0.2	0.2	0.2	0.7	0.6	0.7	0.8	2.2	1.9	0.2
13	0.2	0.1	0.2	0.2	0.2	0.7	0.6	0.7	2.3	3.6	2.1	1.4
14	0.1	0.1	0.1	0.2	0.2	0.7	0.6	0.8	6.1	4.8	5.1	3.8
15	0.1	0.2	0.1	0.2	0.2	0.7	0.6	0.5	2.3	2.2	2.0	4.4
16	0.2	1.1	0.1	0.2	0.2	0.6	0.6	0.6	0.3	0.4	0.6	2.2
17	0.2	1.3	0.2	0.2	0.2	0.6	0.6	0.9	0.4	1.5	0.1	0.2
18	0.2	0.8	0.2	0.2	0.2	0.6	0.6	0.7	0.3	1.4	0.1	0.4
19	0.1	0.9	0.2	0.2	0.2	0.6	0.7	0.5	2.1	0.9	0.2	0.4
20	0.05	1.0	0.2	0.2	0.2	0.6	0.7	0.9	3.7	2.8	0.8	0.2
21	0.05	0.6	0.2	0.2	0.3	0.6	0.7	0.9	2.6	2.1	0.8	0.3
22	0.05	0.2	0.2	6.3	2.4	0.6	0.7	0.6	2.9	0.2	0.2	1.0
23	0.1	0.2	0.2	5.5	1.3	0.7	0.7	0.7	1.5	0.5	0.8	1.7
24	0.1	0.1	0.2	0.7	193	0.7	0.7	0.6	0.5	0.7	2.1	0.2
25	0.1	0.6	0.3	0.5	52	0.7	0.7	0.7	0.5	0.4	0.2	0.2
26	0.1	0.2	0.3	0.6	51	0.7	0.8	1.6	0.5	1.1	0.3	0.7
27	0.1	0.1	0.3	0.6	49	0.7	0.8	4.4	1.9	3.1	0.9	2.3
28	0.2	0.2	0.3	0.4	51	0.7	0.8	4.1	2.5	2.5	2.3	2.0
29	0.3	0.1	6.0	0.4		0.7	0.8	7.3	2.3	4.5	4.0	1.5
30	0.2	0.1	0.2	0.4		0.7	0.8	7.3	3.5	4.7	5.1	3.4
31	0.2		0.2	1.1		0.7		4.9		7.4	7.0	
	4.95		11.8		232.2		20.6		55.7		68.6	
		105		20.7		946.6		47.5		74.9		49.9
MEAN	0.16	0.35	0.38	0.67	8.29	30.5	0.69	1.53	1.85	2.42	2.20	1.66
ACRE FEET	9.8	21.	23.	41.	461.	1880.	41.	94.	110.	149.	136.	99.

Remarks:

YEAR OR PERIOD MEAN 4.23
ACRE FEET 3060.

STATION F192R

RIO HONDO at Lower Azusa Road

LOCATION:

On the downstream side of the Lower Azusa Road bridge, about 1½ miles north of El Monte.

DRAINAGE AREA:

40.9 square miles. (Excludes drainage above Santa Fe Dam.)

CHANNEL AND CONTROL:

Channel-sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 46 feet below the station.

RECORDER:

Installed March 29, 1932 over a 21 inch diameter corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dams Nos. 1 and 2 and Morris Dam, also Los Flores and Rubio Debris Basins and Eaton Dam.

DIVERSIONS:

The City of Pasadena diverts water from the San Gabriel River. The City of Monrovia diverts water from Monrovia Creek. The City of Sierra Madre diverts water from Little Santa Anita Canyon.
Flow from San Gabriel River below Santa Fe Dam is occasionally diverted to Rio Hondo.
There are also several diversions for irrigation and spreading grounds.

RECORDS AVAILABLE:

February 22, 1932 to March 29, 1932 stream measurements only.
March 29, 1932 to September 30, 1943, recorder records.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 3500 second-feet, January 23.
Minimum no flow January 3 to 20.
1932-1943
Maximum 31000 second-feet, estimated March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair due to obstructed communication at various low flows and undetermined shift at extremely high flows.

OPERATION:

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

F. C. D. FORM 104 3M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F192-R

DISCHARGE MEASUREMENTS OF RIO HONDO

AT Lower Azusa Road DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
405	10-1	335P / 340P	Haig	1.0	0.20	0.65	1.02	0.13		.6	3	0	FC 33
406	10-8	245P / 248P	"	1.0	0.20	0.55	1.01	0.11		.6	3	0	"
407	10-15	415P / 418P	"	1.0	0.20	0.50	1.05	0.10		.6	3	0	"
408	10-22	152P / 156P	"	1.0	0.20	0.50	1.05	0.10		.6	1	0	"
409	10-28	347P / 352P	Haig & Waddicor	8.0	2.95	1.04	1.25	3.1		.6	7	+.01	"
410	10-29	345P / 350P	Haig	1.0	0.25	0.60	1.01	0.15		.6	3	0	"
411	11-4	410P / 415P	"	0.6	0.18	0.55	1.00	0.10		.6	2	0	"
412	11-12	146P / 150P	"	0.7	0.21	0.28	0.99	0.06		.6	2	0	"
413	11-19	930A / 932A	"	0.7	0.27	1.07	1.04	0.29		.6	2	+.01	"
414	11-25	155P / 158P	"	0.6	0.18	0.22	0.99	0.04		.6	2	0	"
415	12-3	1146A / 1150A	"	0.6	0.18	0.22	0.99	0.04		.6	2	0	"
416	12-10	858A / 900A	"	0.6	0.18	0.22	0.98	0.04		.6	2	0	"
417	12-17	900A / 902A	"	0.6	0.16	0.19	0.97	0.03		.6	2	0	"
418	12-23	345P / 346P	"	0.5	0.10	0.10	0.97	0.01	Float	1	0	-	
419	12-30	427P / 430P	"	0.5	0.10	0.30	0.95	0.03		.6	2	0	FC 33
420	1-2	225A / 240A	"	30.0	48.2	4.83	2.86	233.		.6	7	+.34	"
421	1-22	505P / 515P	Waddicor & Blakely	40.0	116.	5.83	3.92	676.		.6	5	+.04	FC 24
422	1-23	100P / 110P	" "	55.0	138.	5.70	2.81	786.		.6	5	-.02	"
423	1-24	400P / 406P	" "	59.0	66.8	4.84	2.13	323.		.6	8	-.05	"
424	1-26	440P / 445P	" "	2.5	0.55	0.70	0.97	0.40		.6	5	0	"
425	1-31	1055A / 1105A	Haig	45.0	10.3	1.28	1.26	13.2		.6	9	-.01	FC 33
426	2-22	1002A / 1012A	Waddicor	46.0	26.6	2.90	1.52	77.2		.6	9	+0.25	FC 24
427	2-23	1214P / 1225P	Waddicor & Snyder	45.0	25.1	3.07	1.51	77.2		.6	13	0	"
428	2-24	910A / 923A	Waddicor & Blakely	43.5	34.3	3.61	1.63	124.		.6	14	-.03	"
429	2-26	1217P / 1225P	Haig	22.0	8.87	2.13	1.17	18.9		.6	9	0	FC 33
430	3-3	1035A / 1042A	"	45.0	2.19	2.47	1.33	54.3		.6	10	0	"
431	3-6	930A / 947A	Haig & Wallace	50.0	59.1	4.19	1.53	248.		.6	11	-.01	"
432	3-10	930A / 938A	Haig	39.0	18.8	2.22	1.03	41.7		.6	9	0	"
433	3-12	1035A / 1040A	"	17.5	4.85	1.63	0.78	7.9		.6	6	0	"
434	3-16	1030A / 1038A	"	7.0	2.35	1.38	0.65	3.2		.6	4	0	FC 35
435	3-20	1040A / 1045A	"	7.0	1.16	1.22	0.58	1.4		.6	5	0	"
436	3-23	335P / 342P	Haig	5.0	0.85	1.30	0.55	1.1	Float	4	0		
437	3-26	455P / 500P	"	4.0	0.58	0.86	0.50	0.50	.6	4	0		FC 35
438	3-30	925A / 930A	"	4.0	0.79	1.18	0.48	0.93	.6	4	0		"
439	4-2	330P / 335P	"	4.0	0.74	1.43	0.48	1.1	.6	4	0		"
440	4-6	215P / 220P	"	9.0	2.53	1.34	0.58	3.4	.6	5	0		"
441	4-8	512P / 518P	"	13.0	4.15	1.42	0.61	5.9	.6	7	0		"
442	4-14	1125A / 1130A	"	11.0	1.93	1.17	0.51	2.3	.6	6	0		"
443	4-19	310P / 315P	Haig & Moon	8.5	1.76	1.18	0.88	2.1	.6	6	0		"
444	4-22	1239P / 1244P	" "	4.0	1.12	1.09	0.77	1.2	.6	5	+.02		"
445	4-29	405P / 410P	Haig	5.5	1.13	1.28	0.75	1.5	.6	5	0		FC 35
446	5-6	920A / 925A	"	6.0	1.65	1.26	-	2.1	.6	5	-		"
447	5-15	1040A / 1050A	Haig & Bergman	9.7	3.34	1.29	0.65	4.3	.6	7	0		"
448	5-20	1125A / 1131A	Moon	8.5	2.21	1.27	0.59	2.8	.6	6	+.02		FC 22
449	5-26	1036A / 1043A	"	10.5	2.89	1.35	0.67	3.9	.6	7	0		"
450	6-3	218P / 225P	"	10.0	2.83	1.31	0.65	3.7	.6	7	0		"
451	6-12	812A / 820A	"	10.0	3.05	1.34	0.67	4.1	.6	6	-.02		"
452	6-17	758A / 807A	"	12.0	3.51	1.48	0.69	5.2	.6	9	0		"
453	6-24	817A / 825A	"	11.5	3.47	1.61	0.70	5.6	.6	8	0		"
454	7-1	1025A / 1033A	"	13.0	4.02	1.72	0.74	6.9	.6	8	0		"
455	7-8	814A / 820A	"	9.0	2.40	1.54	0.72	3.7	.6	6	0		"
456	7-15	837A / 848A	"	11.0	2.86	1.88	0.75	5.4	.6	7	0		"
457	7-22	815A / 821A	"	7.5	1.46	1.58	0.77	2.3	.6	6	0		"
458	7-29	912A / 918A	"	7.0	1.10	1.00	0.69	1.1	.6	6	-.02		"
459	8-5	826A / 832A	"	8.0	0.87	0.99	0.68	0.86	.6	6	0		"
460	8-12	822A / 830A	"	6.5	1.01	1.09	0.61	1.1	.6	7	0		"
461	8-19	830A / 836A	"	6.0	0.94	1.00	0.63	0.94	.6	6	-.02		"
462	8-26	810A / 815A	"	8.0	1.28	1.09	0.56	1.4	.6	5	0		"
463	9-2	820A / 824A	"	4.0	0.73	1.05	0.55	0.77	.6	4	0		"
464	9-10	724A / 730A	Brewster	4.0	0.86	1.12	0.50	0.96	.6	4	0		FC 12
465	9-15	232P / 240P	"	4.0	0.80	0.92	0.47	0.74	.6	4	0		"
466	9-23	850A / 854A	Moon	3.5	0.56	1.07	0.48	0.60	.6	4	0		FC 22
467	9-30	820A / 824P	"	3.5	0.65	1.02	0.46	0.66	.6	4	0		"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

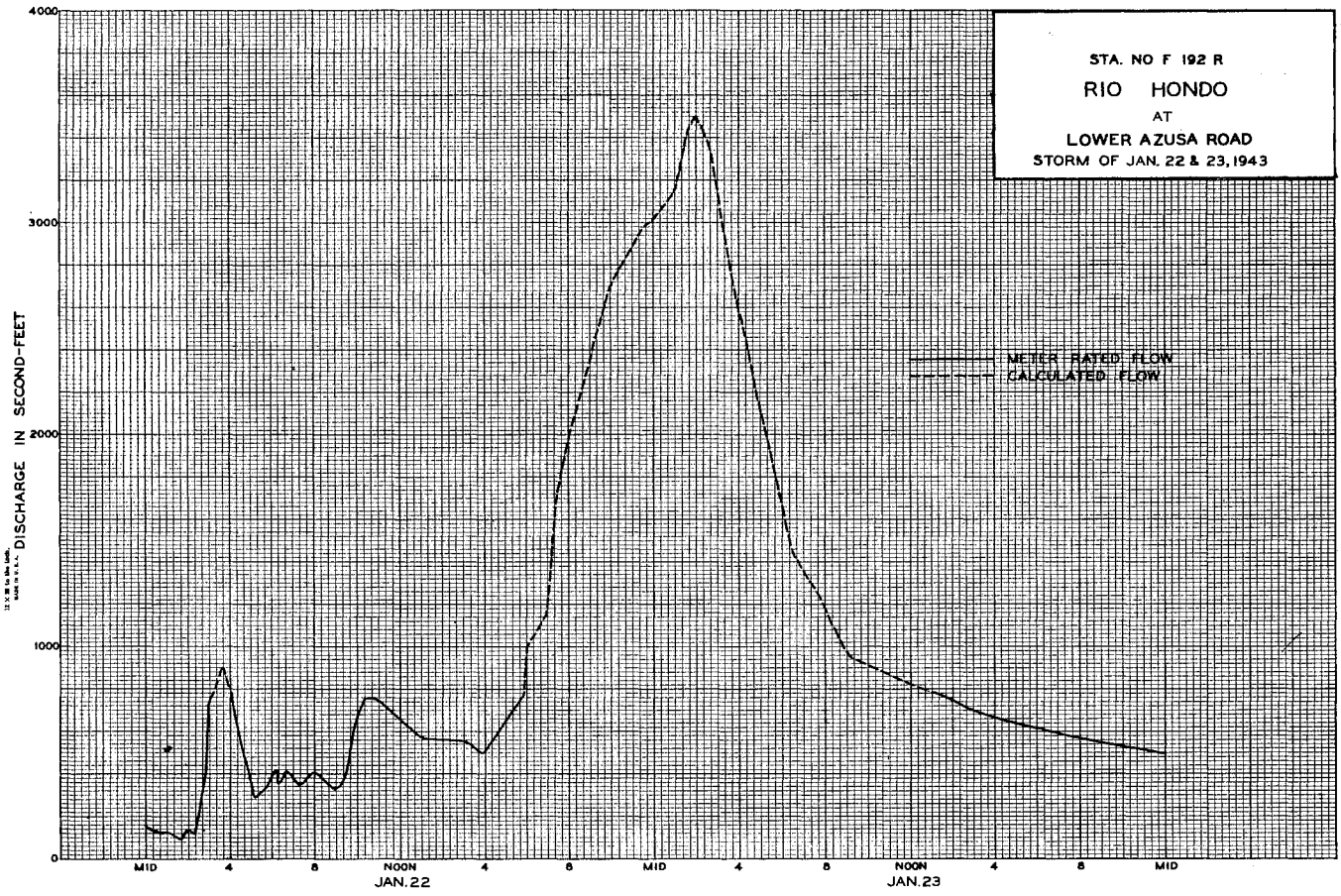
Sta. No. F192R

Daily discharge, in second-feet of RIO HONDO At Lower Azusa Road, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	+	+	3.5	4.2	b 1.0	b 1.7	3.7	4.5	0.7	0.7
2	0.2	0.1	+	+	4.8	4.8	b 1.1	b 1.8	4.1	4.5	0.5	0.7
3	0.1	0.1	+	0	2.8	109	b 1.7	b 1.8	4.9	4.5	0.5	0.8
4	0.1	0.2	+	0	0.4	586	b 2.2	b 1.9	4.9	3.0	0.5	1.0
5	0.1	0.2	+	0	0.4	476	b 2.8	b 2.0	5.5	2.0	0.8	1.0
6	0.1	0.2	+	0	0.6	243	b 3.4	b 2.1	6.5	1.5	1.2	0.8
7	0.1	0.1	0.1	0	0.7	122	b 4.6	b 2.3	3.0	1.9	1.4	0.8
8	0.1	0.1	0.1	0	4.4	112	b 6	b 2.5	2.6	2.6	1.5	0.8
9	0.2	0.1	+	0	0.5	b 64	b 5.5	b 2.8	2.6	1.4	1.5	0.8
10	0.2	0.1	+	0	0.5	52	b 4.7	b 3.0	2.2	0.8	1.4	0.6
11	0.1	0.1	+	0	0.6	42	b 4.1	b 3.2	2.2	1.0	1.0	0.7
12	0.1	0.1	+	0	0.4	19	b 3.5	b 3.4	4.1	0.8	1.0	0.5
13	b 0.1	0.1	+	0	0.4	13	b 2.9	b 3.7	4.5	1.2	0.8	0.5
14	b 0.1	0.1	+	0	0.3	11	b 2.3	b 3.9	4.1	1.5	0.8	0.6
15	0.1	0.2	+	0	0.2	9	b 2.3	4.1	4.9	4.1	0.7	0.8
16	0.1	0.1	+	0	0.2	b 4.9	b 2.2	4.1	4.5	5.5	1.0	1.0
17	0.1	0.1	+	0	0.3	6.5	b 2.2	4.5	3.7	4.1	0.7	0.8
18	0.1	0.1	+	0	0.3	11	b 2.1	4.1	3.7	3.3	0.4	0.8
19	0.1	0.3	0.1	0	0.2	b 1.9	b 2.1	3.0	3.7	1.9	0.5	0.7
20	0.2	0.1	0.1	0	0.2	b 1.4	b 1.8	3.0	3.0	1.0	0.4	0.7
21	0.1	+	+	5.5	4.1	b 1.3	b 1.5	3.3	2.6	0.7	0.4	0.7
22	0.1	+	+	v 919	102	b 1.2	b 1.2	4.9	3.0	1.5	0.5	0.7
23	0.1	+	+	v 1300	85	b 1.1	b 1.2	4.5	3.7	1.2	0.8	0.5
24	0.1	+	1.6	b 346	101	b 0.9	b 1.3	5.5	3.3	1.2	1.0	0.4
25	0.1	+	2.6	16	85	b 0.7	b 1.3	4.5	2.6	1.0	1.0	0.4
26	0.1	+	0.1	10	33	b 0.5	b 1.4	4.1	2.0	0.8	1.0	0.5
27	0.1	0.1	0.1	1.5	13	b 0.6	b 1.4	3.7	1.5	0.8	1.2	0.5
28	1.1	+	0.1	0.3	5.5	b 0.7	b 1.5	4.5	1.9	0.8	1.0	0.7
29	0.2	+	0.1	0.5		b 0.8	b 1.5	4.5	1.7	0.8	0.8	0.7
30	0.2	+	+	9		b 0.9	b 1.6	5	3.0	0.7	0.8	0.4
31	0.1		+	18		b 0.9		4.1		0.7	0.7	
	4.7		5.0		450.3		72.4		103.7		26.5	
		2.7		2625.8		1902.3		1075		613		21.0
MEAN	0.15	0.09	0.16	84.7	16.1	61.4	2.41	3.47	3.46	1.98	0.85	0.70
ACRE-FEET	9.3	5.4	9.9	5210.	893.	3770.	144.	213.	206.	122.	53.	42.

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 14.7
ACRE-FEET 10680.



STATION F64R

RIO HONDO above Mission Bridge

LOCATION:

On the right (west) bank approximately 1,000 feet abovd Mission Bridge (San Gabriel Boulevard) and two miles northeast of Montebello. This supplements the station operated from 1923 to 1928 by the State Division of Water Rights at Mission Bridge.

DRAINAGE AREA:

115 square miles. (Excludes drainage above Santa Fe Dam.)

CHANNEL AND CONTROL:

Channel-sand and silt.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 60 feet below station.

RECORDER:

Installed in July, 1928. Removed about 10 p.m. March 2, 1938. Reinstalled on March 6, at a temporary station F64B-R on Mission Bridge, Removed on March 26, 1938. Reinstalled at station F64R in a 48 inch diameter, corrugated iron pipe which serves both as a stilling well and shelter house.
An Au continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam San Gabriel Dam Nos. 1 and 2, Morris Dam Rio Hondo Diversion below Santa Fe Dam, Eaton Dam, also Los Flores and Rubio Debrie Basins.

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.
The City of Sierra Madre diverts water from Little Santa Anita Canyon.
Flow from San Gabriel River below Santa Fe Dam is occasionally diverted to Rio Hondo
There are also several diversions for irrigation and spreading grounds.

RECORDS AVAILABLE:

July, 1928 to September 30, 1943 (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 F64B-R.)

EXTREMES OF DISCHARGE:

1942-1943
Maximum 13,200 second-feet, January 23,
Minimum 16 second-feet, various times in October.
1928-1943
Maximum 28000 second-feet, estimated, March 2, 1938.
Minimum 5 second-feet, October 15, 1931.

ACCURACY:

Fair.
Flows occasionally compared with upstream tributaries due to the shifting control.

OPERATION:

Operated by the Los Angeles County Flood Control District in co-operation with U.S.G.S. Water Resources Branch.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F64-R

DISCHARGE MEASUREMENTS OF RIO HONDO

at above Mission Bridge DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
753	10-1	906A / 924A	Brewster	57.0	15.8	1.15	4.68	18.2		.6	8	-.01	FC 12
754	10-8	923A / 940A	"	54.0	14.6	1.20	4.70	17.5		.6	7	0	"
755	10-15	900A / 920A	"	52.0	16.3	1.17	4.65	19.0		.6	7	0	"
756	10-22	853A / 909A	"	52.0	15.8	1.18	4.67	18.7		.6	7	0	"
757	10-28	152P / 226P	Haig & Waddicor	102.	146.	2.84	5.90	415.		.6	18	0	FC 33
758	10-29	908A / 925A	Brewster	42.0	15.0	1.43	4.70	21.5		.6	6	0	FC 12
759	11-5	923A / 937A	"	44.0	14.9	1.39	4.63	20.7		.6	6	0	"
760	11-12	910A / 925A	"	56.0	16.1	1.29	4.63	20.8		.6	7	0	"
761	11-19	940A / 955A	"	52.0	27.0	1.54	4.81	41.7		.6	7	0	"
762	11-25	942A / 1000A	"	44.0	14.9	1.46	4.62	21.7		.6	6	0	"
763	12-3	920A / 935A	"	49.0	15.8	1.35	4.64	21.3		.6	7	0	"
764	12-10	932A / 950A	"	56.0	16.8	1.26	4.59	21.2		.6	8	0	"
765	12-17	900A / 907A	Brewster & Waddicor	56.0	16.2	1.24	4.56	20.1		.6	7	0	"
766	12-23	922A / 938A	Brewster	54.0	16.1	1.29	4.56	20.8		.6	7	0	"
767	12-24	900A / 935A	Waddicor	100.	129.	2.48	5.57	320.		.6	11	-.02	FC 24
768	12-25	1022A / 1030A	Haig	50.0	28.6	2.04	4.84	58.4		.6	11	-.02	FC 33
769	12-30	915A / 931A	Brewster	50.0	16.6	1.37	4.54	22.8		.6	7	0	FC 12
770	1-8	920A / 942A	"	50.0	14.2	1.44	4.54	20.5		.6	7	+.01	"
771	1-15	920A / 935A	"	Two Channels			4.51	19.5		.6	9	0	"
772	1-21	220P / 230P	Waddicor & Blakely	51.0	26.8	1.82	4.68	48.9		.6	12	+.05	FC 24
773	1-21	414P / 425P	Waddicor & Blakely	55.0	38.2	1.86	4.88	71.2		.6	12	0	FC 24
774	1-21	1010P / 1045P	" "	111.	240.	7.55	6.90	1810.	.64 Surf.		8	+.60	"
775	1-21 / 1-22	1137P / 1218A	" "	127.	369.	8.03	7.50	2960.	.64 Surf.		8	+.18	"
776	1-22	350A / 417A	" "	145.	617.	9.37	8.47	5780.		.6	7	-.18	"
777	1-22	640A / 700A	" "	135.	406.	7.49	7.78	3040.		.6	7	-.15	"
778	1-22	1045P / 1108P	" "	165.	942.	8.88	10.05	8370.	Surf.		8	+.30	"
779	1-23	455A / 515A	" "	145.	850.	10.7	9.48	9050.		.6	7	-.65	"
780	1-23	527P / 535P	" "	101.	298.	6.72	6.58	2000.		.6	6	-.08	"
781	1-26	1110A / 1123A	Haig & Wallace	56.0	55.2	2.03	4.33	112.		.6	15	-.02	FC 33
782	1-26	550P / 558P	Waddicor & Blakely	43.0	51.0	1.96	4.17	99.7		.6	7	0	FC 24
783	1-26	1035P / 1052P	" "	75.0	179.	3.52	5.20	630.		.6	7	-.04	"
784	1-27	150P / 200P	Waddicor	29.0	36.0	2.30	4.12	82.9		.6	9	-.03	"
785	1-28	202P / 211P	Brewster & Blakely	40.0	32.2	2.05	4.01	66.2		.6	9	0	FC 35
786	1-31	1258A / 117A	Blakely & Mellen	99.0	160.	6.10	5.60	977.		.6	7	-.10	FC 44
787	1-31	205A / 230A	" "	99.0	162.	4.12	5.40	670.		.6	11	-.06 -.06 -.05	"
788	1-31	915A / 933A	Haig	79.0	130.	2.92	5.04	380.		.6	12	-.12	FC 33
789	2-5	930A / 948A	Brewster	44.0	15.7	1.62	4.02	25.5		.6	6	0	FC 12
790	2-11	945A / 1000A	"	23.0	14.6	1.89	3.96	27.6		.6	6	0	"
791	2-19	915A / 930A	"	32.0	16.8	1.59	3.94	26.7		.6	7	0	"
792	2-21	1105A / 1120A	Haig	80.0	86.2	2.13	4.63	184.		.6	14	-.14	FC 33
793	2-21	445P / 500P	Waddicor	79.0	128.	2.62	4.96	335.		.6	10	-.05 -.05	FC 2?
794	2-22	504P / 526P	Waddicor & Mellen	100.	176.	3.05	5.60	537.		.6	13	+.43	FC 24
795	2-23	1250A / 107A	" "	100.	159.	2.99	5.50	476.		.6	11	-.05	"
796	2-23	150P / 202P	Waddicor & Snyder	107.	131.	2.08	5.08	272.		.6	12	-.01	FC24
797	2-24	300P / 314P	Waddicor & Blakely	91.0	101.	2.47	5.01	249.		.6	13	-.01	"
798	2-26	945A / 1005A	Brewster	86.0	71.2	2.05	4.65	146.		.6	10	-.02	FC 12
799	3-3	855P / 913P	Wallace	107.	294.	7.71	6.62	2270.		.6	13	-.21	FC 42
800	3-3	1126P / 1152P	Waddicor & Mellen	138.	506.	10.8	7.72	5470.		.6	14	+1.15	FC 2?
801	3-4	330A / 354A	" "	108.	372.	8.20	7.38	3020.		.6	12	-.34	"
802	3-4	958A / 1015A	Wallace & Henderson	104.	244.	4.92	6.34	1200.		.6	13	-.02	FC 42
803	3-4	1102P / 1117P	Waddicor & Mellen	102.	249.	4.66	6.20	1160.		.6	11	+.10	FC 24
804	3-6	1138A / 1155A	Wallace	93.0	138.	3.15	5.30	435.		.6	12	-.02	FC 42
805	3-8	1017A / 1041A	Blakely	92.0	106.	2.38	4.93	251.		.6	11	0	FC 44
806	3-12	940A / 950A	Haig	64.0	50.6	1.89	4.41	95.6		.6	14	+.02	FC 33
807	3-18	1200A / 1235A	Blakely & Mellen	94.0	127.	2.75	5.02	349.		.6	13	-.10	FC 44
808	3-19	945A / 1005A	Brewster	88.0	40.1	1.46	4.32	58.4		.6	11	+.01	FC 12
809	3-20	1225P / 1240P	Haig	85.0	41.5	1.60	4.37	66.4		.6	17	0	FC 35
810	3-26	855A / 925A	Brewster	Two Channels			4.21	27.7		.6	12	0	FC 12
811	4-2	920A / 940A	"	58.0	23.0	1.39	4.19	31.9		.6	7	0	"
812	4-6	355P / 410P	Haig	90.0	45.5	1.67	4.32	76.1		.6	12	-.01	FC 35
813	4-9	930A / 947A	Brewster	82.0	24.2	1.41	4.20	34.2		.6	9	0	FC 12
814	4-16	910A / 930A	Brewster	Two Channels			4.18	29.8		.6	9	0	FC 12
815	4-23	925A / 945A	"	82.0	23.0	1.33	4.22	30.5		.6	9	+.01	"
816	4-30	910A / 930A	"	Two Channels			4.20	30.3		.6	10	0	"
817	5-7	905A / 925A	" "				4.20	29.5		.6	10	0	"
818	5-13	900A / 920A	"	84.0	23.6	1.22	4.17	28.9		.6	10	0	"
819	5-21	855A / 915A	"	80.0	20.4	1.38	4.16	28.2		.6	9	0	"
820	5-28	915A / 935A	"	Two Channels			4.23	29.4		.6	11	0	"
821	6-4	900A / 922A	"	73.0	26.4	1.12	4.22	29.7		.6	9	0	"
822	6-11	845A / 905A	"	74.0	23.4	1.12	4.19	26.2		.6	9	0	"
823	6-18	755A / 815A	"	Two Channels			4.18	23.4		.6	10	0	"
824	6-25	810A / 830A	"	64.0	21.4	1.14	4.15	24.3		.6	8	0	"
825	7-2	830A / 850A	"	Two Channels			4.22	24.9		.6	10	0	"
826	7-9	845A / 905A	"	" "			4.19	24.8		.6	10	0	"
827	7-16	830A / 852A	"	73.0	21.1	1.19	4.20	25.2		.6	9	0	"
828	7-23	832A / 850A	"	83.0	23.0	1.26	4.17	26.7		.6	10	0	"
829	7-30	845A / 905A	"	79.0	22.6	1.09	4.20	24.7		.6	10	0	"
830	8-6	825A / 845A	"	78.0	19.7	1.20	4.17	23.7		.6	9	0	"
831	8-13	850A / 910A	"	78.0	22.9	1.09	4.18	25.0		.6	10	0	"
832	8-20	840A / 900A	"	Two Channels			4.19	24.8		.6	9	0	"
833	8-27	846A / 900A	Haig	" "			4.19	23.6		.6	14	0	FC 35
834	9-3	845A / 903A	"	83.0	21.1	1.02	4.19	21.5		.6	16	0	"
835	9-10	842A / 902A	Brewster	Two Channels			4.21	23.8		.6	9	0	FC 12
836	9-17	845A / 905A	Brewster	Two Channels			4.23	25.1		.6	11	0	FC 12
837	9-24	843A / 905A	"	80.0	21.5	1.05	4.25	22.6		.6	10	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

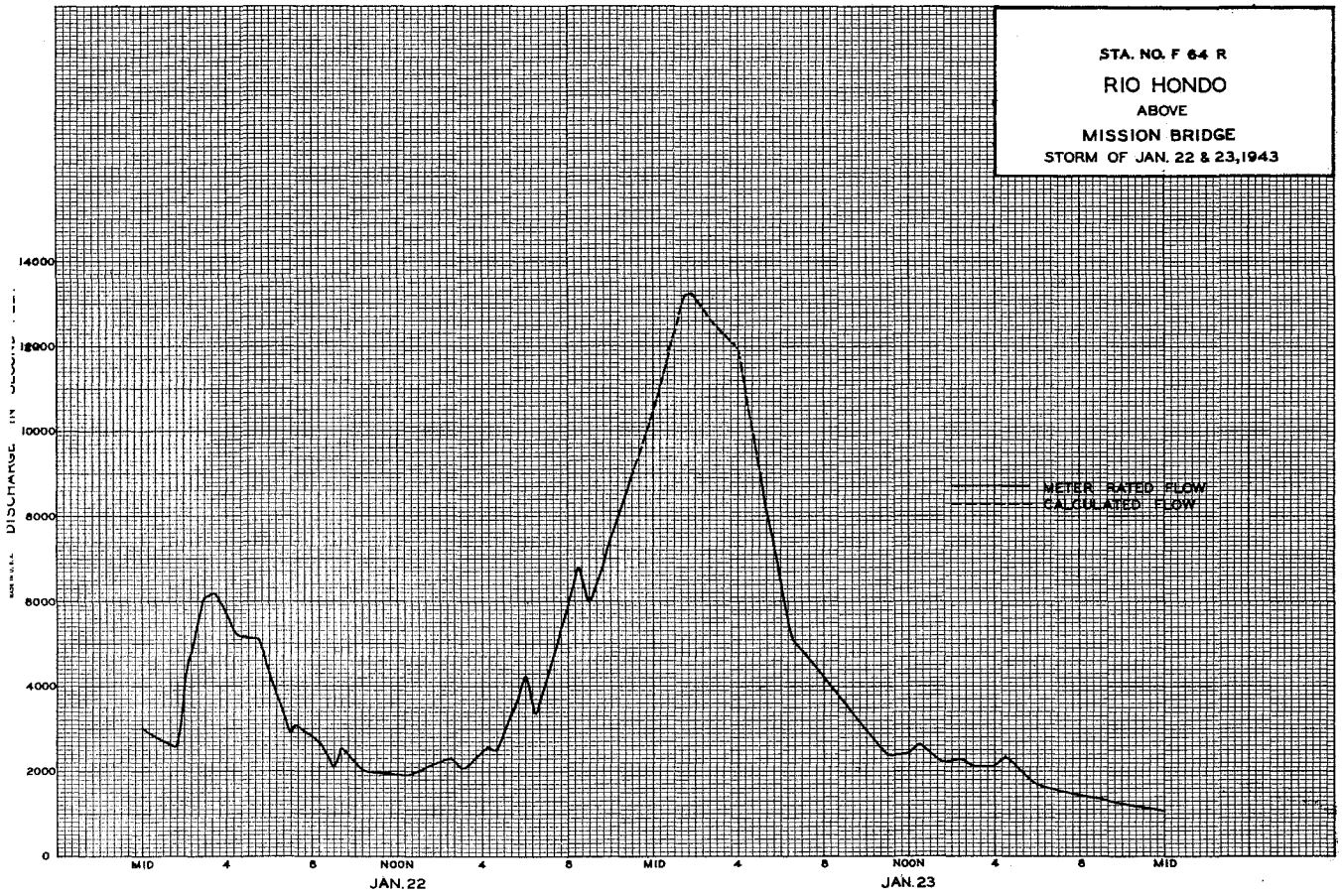
Sta. No F64R

Daily discharge, in second-feet of RIO HONDO Above Mission Bridge, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	24	24	26	b 50	48	43	34	31	28	31	29
2	22	24	25	a 27	b 48	50	40	31	33	30	30	29
3	21	24	24	a 26	b 45	1090	43	30	33	30	28	29
4	21	24	24	a 26	b 40	2470	41	31	34	29	29	29
5	20	25	24	a 25	b 35	809	92	31	33	29	30	29
6	20	25	24	a 24	31	477	146	33	36	28	30	31
7	20	25	24	a 24	30	294	54	38	36	29	33	31
8	20	24	25	a 24	119	276	66	38	31	28	28	30
9	20	25	25	a 26	40	219	48	36	34	29	29	31
10	21	24	27	a 26	34	183	60	34	30	30	29	30
11	21	24	26	a 26	34	215	46	34	31	29	30	31
12	29	24	25	a 26	36	116	45	33	34	29	31	29
13	20	24	25	a 26	38	110	40	34	36	26	30	29
14	20	25	27	a 26	40	99	38	34	36	25	30	30
15	22	24	26	a 26	41	105	41	41	34	29	31	28
16	22	25	26	24	34	82	41	43	33	29	31	29
17	21	25	26	24	a 34	117	41	43	30	33	29	30
18	20	25	27	23	a 34	127	40	40	30	36	26	30
19	20	71	27	23	a 34	62	34	38	33	38	29	28
20	22	29	27	23	a 34	60	34	41	33	34	30	26
21	21	29	27	271	a 150	50	34	38	30	34	33	25
22	21	28	27	4050	769	56	31	40	33	36	28	24
23	21	27	28	4650	335	43	33	40	34	30	31	22
24	22	27	66	b 500	333	36	33	38	34	36	31	25
25	21	27	108	b 100	185	40	33	36	33	31	28	24
26	22	26	31	b 200	151	36	34	33	33	30	31	24
27	22	25	31	152	89	36	33	33	30	33	30	26
28	117	25	31	71	54	36	30	33	29	33	31	28
29	29	25	30	58		40	31	31	28	30	31	29
30	24	24	29	a 300		36	33	26	26	29	29	29
31	24		31	a 120		41		30		29	29	
	767		947		2897		1358		971		926	
		803		10973		7459		1095		949		844
MEAN	24.7	26.8	30.5	354.	103.	241.	45.3	35.3	32.4	30.6	29.9	28.1
ACRE-FEET	1520.	1590.	1880.	21760.	5750.	14790.	2690.	2170.	1930.	1880.	1840.	1670.

Remarks:

YEAR OR PERIOD — MEAN 82.2 — ACRE-FEET 59470.



STATION F45R

RIO HONDO at Stewart and Gray Road

LOCATION:

On the downstream side of highway bridge, ½ mile upstream from junction of Rio Hondo and Los Angeles River and about 1½ miles west of Downey. This station is at or near the location of the station operated from 1923 to 1928 by the State Division of Water Rights.

DRAINAGE AREA:

140 square miles. (Excludes drainage above Santa Fe Dam.)

CHANNEL AND CONTROL:

Channel-clay and sand between granite riprap levee on left (east) bank and earth levee on right bank.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading near gage.
High flows measured from cable car 250 feet above station.

RECORDER:

Installed March 1, 1928, over a 21 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, San Gabriel Dams Nos. 1 and 2, Morris Dam, Los Flores and Rubio Debris Basins, Eaton Dam.

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. The City of Sierra Madre diverts water from Little Santa Anita Canyon.
There are also several diversions for irrigation and spreading.
Flow from San Gabriel River below Santa Fe Dam is occasionally diverted to Rio Hondo.

RECORDS AVAILABLE:

March, 1928 to September 30, 1943. (For records prior to March, 1928 see State Division of Water Rights Bulletins.)

EXTREMES OF DISCHARGE:

1942-1943
Maximum 11800 second-feet, January 23.
Minimum no flow at various times.
1929-1942
Maximum 24400 second-feet, estimated, March 3, 1938.
Minimum no flow at various times.

ACCURACY:

Fair. Control shifts.
Flows occasionally estimated or interpolated due to loss of communication, clock stoppage or doubtful gage height record.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F45-R

DISCHARGE MEASUREMENTS OF RIO HONDO

AT Stewart and Gray Road DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
505	10-1	927A 934A	Bonadiman	18.0	7.80	0.88	6.08	6.9		.6	5	0	FC 19
506	10-8	907A 914A	"	14.0	5.85	0.93	6.04	5.4		.6	5	0	"
507	10-15	917A 925A	"	20.0	8.91	0.93	6.08	8.3		.6	5	0	"
508	10-22	232P 239P	"	10.0	4.02	0.99	5.91	4.0		.6	4	0	"
509	10-29	1025A 1035A	"	6.0	2.70	0.22	5.78	0.65		.6	2	0	"
510	11-5	905A 915A	"	23.0	10.4	0.84	6.00	8.7		.6	5	0	"
511	11-12	1015A 1022A	Bonadiman	20.0	8.24	1.04	5.96	8.6		.6	6	0	FC19
512	11-19	904A 910A	"	17.0	8.51	1.21	5.99	10.3		.6	5	0	"
513	11-25	932A 937A	"	8.0	3.75	0.96	5.89	3.6		.6	3	0	"
514	12-3	304P 312P	"	12.0	5.16	0.90	5.90	4.7		.6	4	0	"
515	12-11	928A 934A	"	17.0	7.07	1.16	5.99	8.2		.6	4	0	"
516	12-17	902A 907A	"	9.0	4.25	0.90	5.88	3.8		.6	4	0	"
517	12-23	832A 840A	"	15.0	7.27	1.03	5.94	7.5		.6	5	0	"
518	12-30	907A 918A	"	Two Channels			5.83	3.8		.6	7	0	"
519	1-8	832A 840A	"	12.0	4.42	0.82	5.80	3.6		.6	4	0	"
520	1-15	917A 925A	"	14.0	5.98	0.86	5.89	5.2		.6	5	0	"
521	1-22	810A 830A	Bonadiman & Walton	160.0	438.	7.45	8.50	3260.		.6	11	-.20	"
522	1-23	647A 715A	" "	162.0	810.	11.0	8.85	8540.		.6	8	-.60	"
523	1-24	950A 1000A	" "	100.0	138.	4.63	6.45	636.		.6	7	-.02	"
524	1-25	426P 440P	Bonadiman	25.0	47.4	2.53	5.66	120.		.6	6	0	"
525	1-29	912A 922A	"	30.0	18.0	1.10	5.53	19.9		.6	6	0	"
526	1-30	546P 600P	"	115.0	128.	2.57	6.39	329.		.6	8	+.06	"
527	1-31	715A 732A	Bonadiman & Walton	120.0	152.	3.87	6.57	590.		.6	8	0	FC 19
528	2-5	952A 1002A	Bonadiman	9.0	6.25	1.46	5.59	9.1		.6	4	0	"
529	2-11	917A 924A	Bonadiman	11.0	4.35	0.90	5.61	3.9		.6	4	0	FC 19
530	2-19	907A 913A	"	9.0	1.95	0.37	5.38	0.72		.6	3	0	"
531	2-22	935A 946A	"	125.0	120.	2.99	6.83	358.		.6	8	0	"
532	2-22	1142A 1155A	Bonadiman & Walton	157.0	244.	5.66	7.34	1380.		.6	9	-.20	"
533	2-23	332P 343P	" "	105.0	85.3	3.24	6.49	276.		.6	8	-.01	"
534	2-24	858A 913A	" "	147.0	228.	6.01	7.45	1370.		.6	10	-.16	"
535	2-25	842A 902A	" "	Two Channels			6.41	126.		.6	13	+.02	"
537	3-3	525P 542P	"	150.0	351.	7.77	8.00	2700.		Surf.	9	-.10	"
538	3-4	125A 150A	Bonadiman & Walton	175.0	658.	9.55	10.11	6300.		.6	8	+.60	"
539	3-5	310P 321P	" "	120.0	154.	5.17	6.75	797.		.6	8	0	"
540	3-12	1004A 1012A	Bonadiman	56.4	24.2	1.63	6.29	39.5		.6	6	0	"
541	3-18	821A 832A	"	Two Channels			6.43	94.6		.6	9	0	"
542	3-19	902A 908A	"	20.0	19.4	1.95	6.04	37.9		.6	4	0	"
543	3-26	946A 954A	"	22.0	9.2	0.97	5.96	8.5		.6	5	0	"
544	4-2	958A 1004A	"	9.0	4.4	0.61	5.96	2.9		.6	3	0	"
545	4-6	912A 924A	"	117.0	83.4	2.33	6.57	195.		.6	8	-.06	"
546	4-8	1022A 1032A	"	19.0	9.60	0.80	5.99	7.7		.6	6	0	"
547	4-16	1007A 1014A	"	13.0	4.60	0.87	5.90	4.0		.6	4	0	"
548	5-8	927A 935A	"	12.0	5.96	0.94	5.98	5.6		.6	4	0	"
549	5-15	922A 930A	Bonadiman	11.0	6.45	0.94	5.97	6.1		.6	4	0	FC 19
550	5-21	918A 924A	"	14.0	4.60	0.30	5.88	1.4		.6	4	0	"
551	5-26	832A 837A	"	10.0	3.05	0.43	5.87	1.3		.6	3	0	"
552	6-4	902A 907A	"	13.0	6.08	1.05	5.94	6.4		.6	4	0	"
553	6-12	840A 848A	"	17.0	5.90	0.78	5.91	4.6		.6	5	0	"
554	6-19	917A 927A	Moon	Two Channels			5.93	7.6		.6	10	0	FC 22
555	6-25	840A 858A	Bonadiman	16.0	6.25	0.93	5.88	5.8		.6	5	0	FC 19
556	7-2	852A 900A	"	17.0	7.15	0.92	5.90	6.6		.6	5	0	"
557	7-9	835A 845A	"	14.0	6.40	0.89	5.88	5.7		.6	5	0	"
558	7-16	857A 903A	"	14.0	5.10	0.78	5.87	4.0		.6	4	0	"
559	7-23	902A 910A	"	16.0	4.92	0.83	5.84	4.1		.6	4	0	"
560	7-30	934A 940A	"	13.0	5.15	1.01	5.84	5.2		.6	4	0	"
561	8-6	850A 858A	"	14.0	6.10	0.79	5.84	4.8		.6	4	0	"
562	8-13	907A 915A	"	10.0	5.15	1.30	5.88	6.7		.6	4	0	"
563	8-20	913A 927A	Smallin & Bonadiman	14.0	5.91	1.24	5.90	7.3		.6	6	0	"
564	8-27	858A 905A	Moon	12.0	4.92	1.10	5.91	5.4		.6	7	0	FC 22
565	9-3	848A 855A	"	12.0	5.16	1.12	5.88	5.8		.6	7	0	"
566	9-10	844A 855A	Bonadiman	12.0	5.30	0.91	5.87	4.8		.6	4	0	FC 19
567	9-17	912A 918A	"	12.0	5.95	0.76	5.87	4.5		.6	4	0	"

P.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

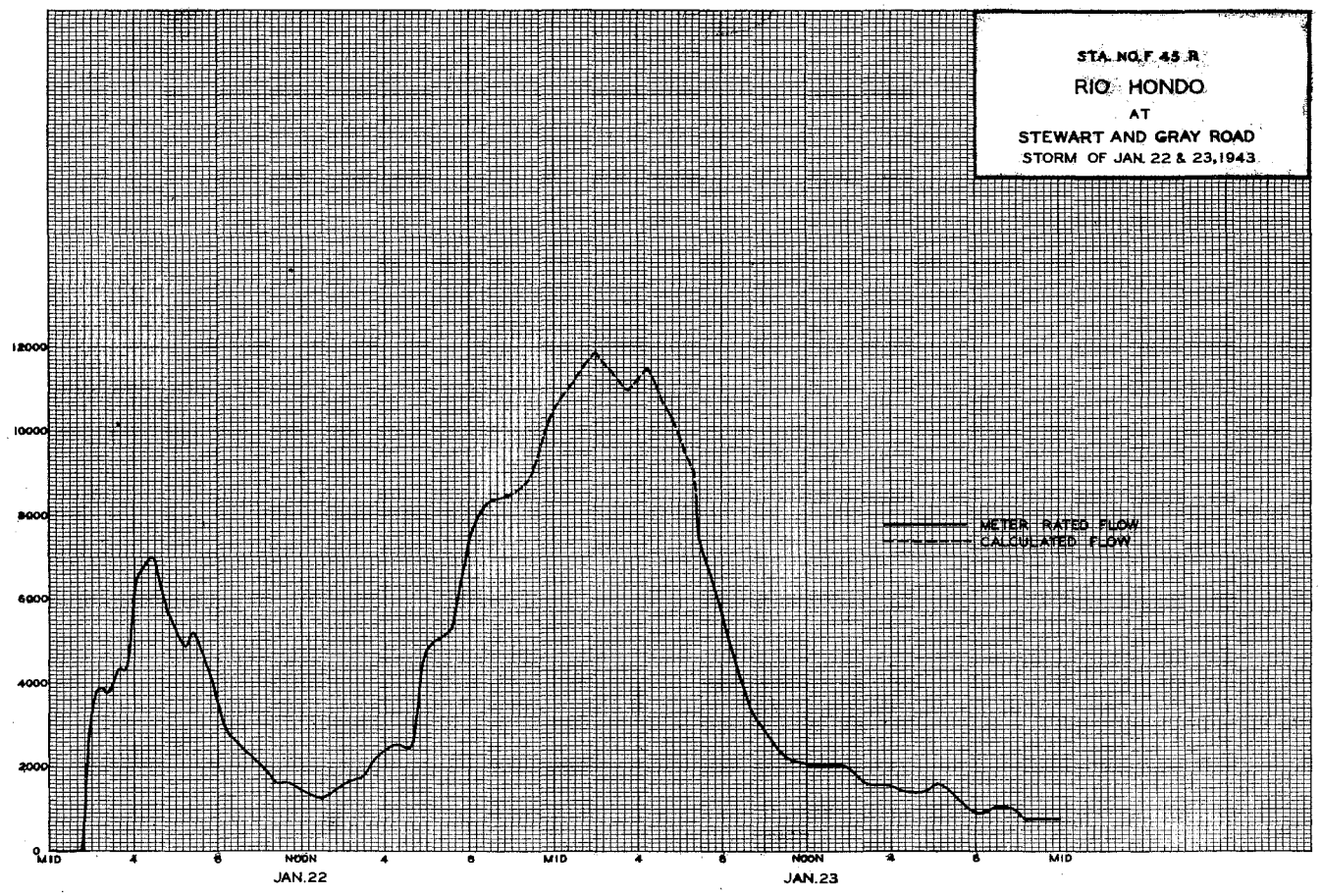
Sta. No. F45R

Daily discharge, in second-feet of RIO HONDO At Stewart and Gray Road, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	15	4.9	1.4	102	7	b 3.7	3.4	1.8	3.4	3.4	3.8
2	3.8	13	6	1.0	62	8.5	2.9	5.5	3.8	4.5	4.5	3.8
3	4.5	8	8	0.7	35	860	0	5.5	3.0	3.4	3.4	4.1
4	8	10	7	1.0	15	2600 b	0.3	4.5	4.1	3.8	4.5	3.4
5	4.5	7	4.9	1.3	6	b 800	3.0	4.9	3.0	3.4	4.1	3.4
6	6	7	5.5	1.8	4.9	638	101	2.2	3.0	3.4	4.1	3.0
7	7	8	4.1	d 3.0	3.4	427	8	4.5	2.2	4.9	3.8	3.8
8	3.4	6	4.5	d 4.1	113	318	13	3.4	3.0	4.1	3.4	3.4
9	3.4	4.9	6	4.5	4.1	290	11	4.1	3.0	3.8	3.4	3.8
10	4.5	7	4.5	2.2	0.5	176	15	4.5	4.1	2.2	2.6	4.5
11	9.5	7	4.1	3.4	0.5	234	5.5	2.2	7	6	1.3	3.8
12	3.8	7	3.4	3.8	+	b 48	1.0	1.3	3.8	4.1	3.4	4.5
13	+	3.0	4.5	1.4	0	38	1.4	3.0	4.1	1.8	3.0	4.9
14	3.0	3.0	4.1	1.4	0	27	2.6	5.5	4.5	3.0	4.1	4.1
15	4.9	2.6	3.8	3.0	0	27	1.4	6	3.4	3.4	4.9	4.5
16	4.1	0.5	2.6	1.8	+	12	1.0	4.5	3.4	4.5	3.4	5.5
17	6	3.0	4.9	1.8	0	12	0.7	1.4	3.0	4.5	3.0	4.9
18	8.5	5.5	1.3	1.8	0	120	+	4.1	2.2	1.4	3.4	3.8
19	4.9	5.5	1.8	1.4	b 0.3	42	0.7	1.3	2.2	3.8 a	3.4	4.1
20	5.5	7	4.9	1.0	1.0	27	0	3.8	4.1	3.8 a	3.8	4.1
21	6	6	5.5	4.5	40	15	+	0.3	3.8	2.6	4.1	4.9
22	5.5	5.5	4.9	4090	774	17	+	0.2	3.8	2.6	7	6
23	8	4.5	3.0	4660	314	11	0.7	0.7	4.1	2.6	4.5	5.5
24	9.5	5.5	10	610	263	6	0	1.8	2.6	4.1	3.0	6
25	12	4.9	3.4	210	b 132	4.9	0	1.1	4.5	4.5	3.0	4.5
26	10	8.5	0.8	220	102	8.5	+	1.4	3.8	4.1	1.4	4.5
27	11	7	4.1	406	40	b 7.5	0	1.8	4.1	4.5	2.6	4.1
28	15	5.5	3.4	35	13	b 7	0	2.6	3.4	4.5	2.6	4.5
29	2.2	7	4.1	15		b 6	0	1.4	3.8	4.5	3.8	5.5
30	11	4.9	3.4	220		b 5.5	0	1.1	4.1	4.5	2.6	3.4
31	12		2.2	538		4.5		1.4		3.8	3.8	
	2005	1356			2025.7		1729	1067			1093	
	1893		110503			6804.4		894		1155		1301
Mean	6.47	6.31	4.37	356.	72.3	219.	5.76	2.88	3.56	3.73	3.53	4.34
Acre-Feet	398.	375.	269.	21920.	4020.	13500	343.	177.	212.	229.	217.	258.

Remarks: + = 0.05 c.f.s. or less.

Year or Period — Mean 57.9 — Acre-Feet 41910.4



STATION F83R

RIO HONDO SLOUGH at San Gabriel Boulevard

LOCATION:

On the upstream end of the right (west) abutment of the highway bridge, just east of the Rio Hondo, and about 2 miles northeast of Montebello.

DRAINAGE AREA:

About 6 square miles.
Flow originates almost entirely from rising water.

CHANNEL AND CONTROL:

Channel-sand, covered with weeds and brush; some cross fences which catch debris.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading approximately 400 feet below station.
High flows measured from highway bridge.

RECORDER:

Installed June 14, 1930, over an 18 inch diameter, corrugated iron pipe stilling well. Horizontal Rational 7 day recorder, in service October 1, 1942 to September 30, 1943.

REGULATION:

Some water pumped just downstream from bridge.

DIVERSIONS:

None.

RECORDS AVAILABLE:

Recorder records June 14, 1930 to September 30, 1943. Some weekly stream measurements were taken prior to installation of recorder.

EXTREMES OF DISCHARGE:

1942-1943

Maximum 252 second-feet, January 22.
Minimum 18 second-feet, August 6.

1930-1943

Maximum not determined, March 2, 1938.
Minimum 4.8 second-feet, October 4, 1934.

ACCURACY:

Good for low or normal flows.
Fair for high flows except January 23,24,25, When record is poor due to recorder failure.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F83-R

DISCHARGE MEASUREMENTS OF RIO HONDO SLOUGH

AT San Gabriel Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
328	10-1	940A 955A	Brewster	18.0	18.6	1.15	6.28	21.4		.6	9	0	FC 12
329	10-8	1000A 1015A	"	18.0	18.6	1.16	6.28	21.5		.6	9	0	"
330	10-15	940A 955A	"	18.0	18.8	1.19	6.30	22.4		.6	9	0	"
331	10-22	915A 931A	"	17.0	17.2	1.26	6.25	21.7		.6	8	0	"
332	10-29	935A 950A	Brewster	17.0	18.2	1.18	6.30	21.5		.6	8	0	FC 12
333	11-5	945A 1000A	"	17.0	16.7	1.25	6.25	20.8		.6	8	0	"
334	11-12	940A 955A	"	15.0	15.5	1.36	6.23	21.1		.6	8	0	"
335	11-19	910A 925A	"	16.0	16.6	1.28	6.27	21.2		.6	8	0	"
336	11-25	1010A 1025A	"	17.0	16.4	1.29	6.24	21.2		.6	8	0	"
337	12-3	950A 1010A	"	17.0	16.8	1.30	6.23	21.8		.6	8	0	"
338	12-10	1000A 1015A	"	17.0	16.5	1.32	6.21	21.8		.6	8	0	"
339	12-17	915A 925A	Brewster & Waddicor	17.0	17.0	1.26	6.22	21.4		.6	8	0	"
340	12-23	1000A 1015A	Brewster	16.0	16.0	1.32	6.22	21.2		.6	8	0	"
341	12-30	955A 1012A	"	17.0	16.9	1.27	6.23	21.4		.6	8	0	"
342	1-8	1015A 1030A	"	18.0	17.3	1.18	6.20	20.5		.6	8	0	"
343	1-15	1020A 1035A	"	16.0	15.8	1.30	6.19	20.5		.6	8	0	"
344	1-25	136P 154P	Brewster & Smith	16.0	21.8	1.70	6.54	37.0		.6	8	0	FC 35
345	2-5	1010A 1025A	Brewster	16.0	18.2	1.50	6.32	27.3		.6	8	0	FC 12
346	2-11	1030A 1046A	"	16.0	17.4	1.48	6.27	25.7		.6	8	0	"
347	2-19	1050A 1105A	"	17.0	18.2	1.41	6.23	25.6		.6	8	0	"
348	2-26	1045A 1100A	Brewster	17.0	20.2	1.56	6.40	31.6		.6	8	0	FC 12
349	3-5	355P 410P	Brewster & Smith	17.0	22.6	1.83	6.73	41.4		.6	8	0	"
350	3-12	945A 1000A	Brewster	18.0	18.9	1.40	6.34	26.4		.6	5	0	"
351	3-19	1025A 1040A	"	17.0	22.6	1.09	6.36	24.7		.6	5	0	"
352	3-26	940A 955A	"	16.0	17.4	1.44	6.26	25.0		.6	8	0	"
353	4-2	955A 1010A	"	17.0	16.6	1.51	6.23	25.1		.6	8	0	"
354	4-9	1015A 1030A	"	14.5	15.9	1.65	6.29	26.3		.6	8	0	"
355	4-16	1010A 1025A	"	16.0	16.0	1.62	6.26	26.0		.6	8	0	"
356	4-23	1002A 1020A	"	15.0	16.0	1.61	6.23	25.8		.6	8	0	"
357	4-30	1014A 1030A	"	17.0	15.9	1.57	6.22	25.1		.6	8	0	"
358	5-7	1013A 1030A	"	15.0	14.9	1.72	6.25	25.6		.6	8	0	"
359	5-13	950A 1005A	"	17.0	15.4	1.57	6.22	24.2		.6	8	0	"
360	5-21	935A 950A	"	15.0	14.6	1.68	6.21	24.5		.6	8	0	"
361	5-28	945A 1000A	"	16.0	15.6	1.57	6.25	24.5		.6	8	0	"
362	6-4	950A 1005A	"	15.0	15.3	1.59	6.23	24.3		.6	8	0	"
363	6-11	915A 930A	"	17.0	16.0	1.49	6.21	23.8		.6	8	0	"
364	6-18	830A 845A	"	17.0	15.4	1.49	6.18	23.0		.6	8	0	"
365	6-25	840A 855A	"	15.0	15.5	1.46	6.18	22.7		.6	8	0	"
366	7-2	900A 915A	"	17.0	16.4	1.32	6.18	21.6		.6	8	0	"
367	7-9	915A 930A	"	16.0	16.8	1.29	6.17	21.6		.6	8	0	"
368	7-16	910A 925A	"	16.0	16.6	1.29	6.18	21.4		.6	8	0	"
369	7-23	900A 915A	Brewster	15.0	17.1	1.29	6.17	22.0		.6	8	0	FC 12
370	7-30	920A 935A	"	17.0	17.1	1.23	6.16	21.1		.6	8	0	"
371	8-6	910A 925A	"	16.0	17.2	1.23	6.16	21.1		.6	8	0	"
372	8-13	920A 935A	"	17.0	17.2	1.21	6.17	20.9		.6	8	0	"
373	8-20	910A 925A	"	16.0	16.8	1.23	6.20	20.6		.6	8	0	"
374	8-27	940A 950A	Haig	16.0	17.5	1.23	6.22	21.6		.6	10	0	FC 35
375	9-3	930A 940A	"	16.0	17.8	1.16	6.27	20.6		.6	12	0	"
376	9-10	910A 925A	Brewster	16.0	16.8	1.23	6.27	20.7		.6	8	0	FC 12
377	9-17	915A 930A	"	16.0	16.6	1.23	6.27	20.4		.6	8	0	"
378	9-24	915A 930A	"	16.0	16.6	1.25	6.24	20.8		.6	8	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F83R

Daily discharge, in second-feet of RIO HONDO SLOUGH At San Gabriel Boulevard for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	20	22	21	35	27	25	25	24	21	21	20
2	21	21	22	21	31	27	25	26	24	21	21	20
3	21	21	22	21	29	44	25	26	24	21	21	20
4	21	21	22	20	28	71	24	26	24	21	21	20
5	21	21	21	20	27	47	25	26	24	21	21	20
6	22	21	22	20	27	34	26	26	24	21	21	21
7	22	21	22	20	26	31	26	26	23	21	21	21
8	22	21	22	21	28	30	26	25	24	21	20	21
9	22	21	22	20	27	29	26	25	23	21	21	21
10	22	21	22	20	26	28	26	25	23	21	20	20
11	22	21	22	20	26	27	26	24	24	21	20	19
12	22	21	22	20	26	26	26	24	24	21	20	20
13	22	20	22	20	26	26	26	24	24	20	20	20
14	22	20	21	20	26	26	26	24	24	21	20	20
15	22	21	21	21	26	26	26	24	24	21	21	20
16	22	21	21	21	26	24	26	25	23	21	20	20
17	22	21	22	21	26	25	26	24	22	21	20	20
18	22	21	22	22	26	26	26	24	22	22	20	20
19	a 22	21	22	22	26	25	26	24	23	22	20	21
20	a 22	21	22	22	26	24	26	24	23	22	20	21
21	a 22	21	22	25	28	24	26	24	22	21	21	21
22	a 22	21	21	101	40	24	26	24	22	21	21	21
23	22	21	21	a 75	47	24	26	24	22	21	21	20
24	22	21	23	a 50	41	24	26	24	22	21	21	21
25	21	21	27	a 40	34	24	26	24	22	21	21	21
26	21	22	24	39	32	24	26	24	22	21	21	21
27	21	22	23	44	30	25	25	24	22	20	21	21
28	22	21	22	35	30	25	25	24	22	20	21	21
29	21	22	22	32		25	25	24	22	20	21	21
30	21	22	22	35		26	25	24	21	21	21	21
31	21		22	54		25		24		21	21	
	671	631	685	943	826	893	770	761	689	650	640	614
MEAN	21.6	21.0	22.1	30.4	29.5	28.8	25.7	24.5	23.0	21.0	20.6	20.5
ACRE-FEET	1330.	1250.	1360.	1870.	1640.	1770.	1530.	1510.	1370.	1290.	1270.	1220.

Remarks:

YEAR OR PERIOD MEAN 24.0
ACRE-FEET 17410.

STATION U14R

ANTELOPE VALLEY BASIN Rock Creek near Valyermo

LOCATION:

Water-stage recorder, lat. 34°25'10", long. 117°50'25", in NE¼ sec. 20, T. 4 N., R. 9 W., 1-3/4 miles southeast of Valyermo. Altitude of gage, about 4,050 feet.

DRAINAGE AREA:

23.0 square miles.

RECORDS AVAILABLE:

January 1923 to September 1937, May 1938 to September 1943.

AVERAGE DISCHARGE:

19 years (1923-37, 1938-43), 16.0 second-feet.

EXTREMES:

Maximum discharge during year, 3,040 second-feet Jan 23, by slope-area method, (gage height, 7.03 feet); minimum, 3.2 second-feet Oct. 16, 17.

1923-1943

Maximum discharge, 8,300 second-feet Mar. 2, 1938, by slope-area method; minimum, 1.2 second-feet Aug. 22, 1925.

REMARKS:

Records good except those for days of no gage-height record which are fair. No diversions above station.

COOPERATION:

Results of 12 discharge measurements furnished by Los Angeles County Flood Control District, through Mr. H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U14R

DISCHARGE MEASUREMENTS OF ROCK CREEK

NEAR Valyermo DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
610	Oct. 6		U.S.G.S.				1.57	4.0		.6	9	0	
611	16	345P / 355P	Luce	14.0	5.64	0.62	1.56	3.5		.6	7		FC.39
612	23		U.S.G.S.				1.56	3.9		.6	9	0	
613	Nov 13		"				1.56	4.0		.6	16	0	
614	27	215P / 225P	Luce	12.5	5.77	0.66	1.59	3.8		.6	7		FC.39
615	Dec 10		U.S.G.S.				1.60	3.9		.6	8	0	
616	18	1005A / 1015A	Luce	12.5	6.16	0.62	1.59	3.8		.6	7		FC.39
617	29		U.S.G.S.				1.61	4.2		.6	9	0	
	1943												
618	Jan. 16	330P / 340P	Luce	13.5	6.07	0.61	1.60	3.7		.6	7		FC.39
619	19		U.S.G.S.				1.60	3.9		.6	9	0	
620	27		"					6.8		.6	16		
621	28		"				3.11	55.		.6 2-814	0		
622	Feb 3		"				2.92	44.3		.6	25	.03	
623	12		"				2.77	30.8		.6	22	0	
624	20	310P / 320P	Luce	15.0	10.30	3.19	2.81	32.8		.6	7		FC.39
625	23		U.S.G.S.				3.33	137.		.6	15	0	
626	24		"				3.25	132.		.6	15	0	
627	Mar. 5		"	33.0	39.4	6.09	3.18	240.		.6 .2	20	0	
628	9		"				2.75	126.		.6	23	0	
629	Mar 12		U.S.G.S.				2.64	108.		.6	13		
630	18	714P / 722P	Luce	26.0	23.3	3.47	2.56	81.		.6	10	0	FC.39
631	19		U.S.G.S.				2.56	82.		.6	22	0	
632	31		"				2.53	69.		.6	21	0	
633	Apr. 9		"				2.50	63.		.6	19	0	
634	17	335P / 345P	Luce	27.0	18.1	3.75	2.46	68.		.6	10		FC.39
635	20		U.S.G.S.				2.53	64.		.6	13	0	
636	May 5		"				2.52	72.		.6	22	0	
637	15	435P / 450P	Luce	24.7	17.4	3.34	2.43	58.		.6	10	+.01	FC.39
638	17		U.S.G.S.				2.42	55.		.6	14	0	
639	31		"				2.42	48.4		.6	16	0	
640	June 8		"				2.38	40.8		.6	13	0	
641	19		"				2.30	32.2		.6	15	0	
642	28	410P / 420P	Luce	19.0	11.20	2.44	2.26	27.3		.6	10	0	FC.39
643	30		U.S.G.S.				2.27	26.5		.6	13	0	
644	July 15		"				2.24	22.3		.6	16	0	
645	17	230P / 240P	Luce	24.0	11.0	2.32	2.22	25.5		.6	12	0	FC.39
646	27		U.S.G.S.				2.20	18.1		.6	12	0	
647	Aug. 13		"				2.19	15.5		.6	13		
648	14	405P / 415P	Luce	24.0	9.22	1.77	2.17	16.3		.6	11		FC.39
649	25		U.S.G.S.				2.15	13.0		.6	12	0	
650	Sept 8		"				2.12	12.0		.6	11	0	
651	18	250P / 305P	Luce	13.0	6.51	1.58	2.10	10.3		.6	7	0	FC39

F. C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U14R

Daily discharge, in second-feet of ROCK CREEK Near Valyermo for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.1	4.1	3.9	4.1	33	46	67	73	50	26	17	11
2	4.1	4.1	3.9	4.1	46	44	67	73	49	26	17	11
3	4.1	4.1	3.9	4.1	43	133	67	73	49	26	17	11
4	3.9	4.1	3.9	3.9	38	456	67	73	47	24	17	12
5	3.9	4.1	3.9	3.9	34	252	69	73	46	24	17	12
6	4.1	4.1	3.9	3.9	36	204	71	73	44	24	17	12
7	4.1	4.1	3.9	3.6	36	141	64	75	42	23	17	11
8	4.1	4.1	3.9	3.6	46	119	66	75	41	23	16	12
9	3.9	4.1	3.9	3.6	41	128	64	69	41	23	16	12
10	3.9	4.1	3.9	3.6	38	128	60	67	39	23	16	11
11	3.9	4.1	3.9	3.6	34	119	62	67	39	23	16	11
12	3.9	4.1	3.9	3.6	34	111	69	67	41	22	16	11
13	3.6	4.1	3.9	3.6	33	102	64	67	39	22	15	11
14	3.6	4.1	3.9	3.6	33	97	64	67	39	22	15	11
15	3.6	4.1	3.9	3.6	34	89	64	64	38	22	14	11
16	3.6	4.4	3.9	3.6	34	85	64	62	36	22	14	11
17	3.6	4.8	3.9	3.6	34	81	64	60	34	22	14	10
18	3.9	4.4	3.9	3.9	33	81	69	56	33	22	14	10
19	3.9	4.4	3.9	3.9	33	81	73	54	33	20	14	10
20	3.9	4.8	3.9	3.9	36	79	71	54	32	20	14	10
21	3.9	4.4	3.9	4.4	117	77	71	54	32	20	14	9
22	3.9	4.1	3.9	700	164	75	73	54	30	20	14	9
23	3.9	3.9	3.9	1380	153	69	73	54	30	20	14	9
24	3.9	3.9	3.9	664	132	69	77	56	30	19	13	9
25	4.1	3.9	4.1	366	86	69	75	58	32	19	13	9
26	3.9	3.9	4.1	146	72	69	71	56	30	19	12	9
27	3.9	3.9	4.1	76	60	71	69	54	30	18	12	9
28	4.1	3.9	4.1	58	53	71	73	54	28	18	11	9
29	4.1	3.9	4.1	43		71	77	54	27	18	11	9
30	4.1	3.9	4.1	41		71	73	52	26	18	11	9
31	4.1		4.1	59		69		50		17	11	
	121.6	124.0	122.3	3612.7	1576	3410	2058	1938	1107	665	449	311
MEAN	3.92	4.13	3.95	117	56.3	110	68.6	62.5	36.9	21.5	14.5	10.4
ACRE FEET	241	246	243	7170	3130	6760	4080	3840	2200	1320	891	617

Remarks:

YEAR OR PERIOD — MEAN 42.5 — ACRE FEET 30,740

STATION U 6R

SAN GABRIEL RIVER BASIN Rodgers Creek near Azusa

LOCATION:

Water-stage recorder, lat. 34°09'55", long. 117°54'20", in NW¼NW¼ sec. 23, T. 1N., R. 10 W., half a mile upstream from mouth and 2½ miles north of Azusa. Altitude of gage, about 800 feet.

DRAINAGE AREA:

6.4 square miles.

RECORDS AVAILABLE:

May 1916 to June 1917 (discharge measurements only), October 1917 to September 1943.

AVERAGE DISCHARGE:

26 years, 3.46 second-feet.

EXTREMES:

Maximum discharge during year, 1,700 second-feet Jan 23 (gage-height, 8.5 feet) from rating curve extended above 457 second-feet by logarithmic plotting; no flow for part of year.

1917-1943

Maximum discharge, about 2,600 second-feet Apr, 7, 1926; no flow for parts of each year.

REMARKS:

Records good except Jan 22-31, Mar. 3-6 which are fair. Entire flow diverted above station at times.

COOPERATION:

Results of 22 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U6R

DISCHARGE MEASUREMENTS OF ROGERS CREEK

AT NEAR Azusa California DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT. IND.	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1101	Nov 19	1225P / 1231P	Haig	2.6	0.77	0.53	3.57	0.41		.6	5	0	FC. 33
1102	24		U.S.G.S.				3.41	0.07		.6	3	0	
1103	Dec. 3	330 P / 332 P	Haig	0.7	0.20	0.20	3.35	0.04		.6	2	0	FC. 33
1104	17		U.S.G.S.				3.37	0.05		.6	2	0	
1104a	17	950 A	Haig	0.5	0.10	0.50	3.35	0.05		.6	2	0	FC. 33
1105	18		U.S.G.S.				3.38	0.05		.6	1	0	
1106	23		"				3.43	0.07		.6	1	0	
1107	24		"				3.52	0.31		.6	3	0	
1108	25		"				3.70	2.2		.6	6	0	
1109	29		"				3.40	0.16		.6	3	0	
1110	30	350 P / 354 P	Haig	1.5	0.28	0.36	3.35	0.10		.6	4	0	FC. 33
1111	Jan 6		U.S.G.S.				3.37	0.15		.6	3	0	
1112	8	310 P / 315 P	Haig	1.5	0.40	0.30	3.45	0.12		.6	4	0	FC. 33
1113	15		U.S.G.S.				3.35	0.04		.6	2	0	
1114	22		"				5.62	457.		.6 2-8	23		
1116	24		U.S.G.S.				6.93	128.		.6	19	0	
1117	25		"				8.55	61.		.6	9	0	
1118	26		"				9.32	39.3		.6	23	0	
1119	27		"				10.07	38.1		.6	22	+.02	
1120	28		"				9.27	25.3		.6	22	0	
1121	29		"				6.72	21.5		.6	10	-	
1122	30		"				--	24.6		.6	11	-	
1123	Jan.31		U.S.G.S.	13.			4.17	43.9		.6	14		
1124	Feb. 1		"				3.90	32.6		.6	14		
1125	2		"				3.86	29.3		.6	13		
1126	3		"				3.81	26.2		.6	13		
1127	4		"				3.76	24.9		.6	13		
1128	5		"				3.72	22.2		.6	13		
1129	6		"				3.66	17.6		.6	13		
1130	8		U.S.G.S.				3.74	19.2		.6	13		
1131	9		"				3.64	16.2		.6	13		
1132	10		"				3.60	14.1		.6	13		
1133	12		"				3.57	11.7		.6	13		
1134	15		"				3.51	9.6		.6	12		
1135	17		"				3.48	8.7		.6	12		
1136	20		"				3.47	7.8		.6	11		
1137	22		"				3.85	27.5		.6	13		
1138	23		"				4.46	108.		.6	11		
1139	24		"	22.	21.3	6.0	4.41	128.		.6 2-8	9		
1140	27		"				3.66	55.		.6	14		
1141	Mar. 1		"				3.47	40.1		.6	14		
1142	3		"				3.42	36.4		.6	14		
1143	4		"	26.5	30.6	6.7	5.05	205.		.6	11		
1144	8		"				3.69	81.		.6	23		
1145	10		"				3.50	65.		.6	22		
1146	Mar. 13		U.S.G.S.				3.28	44.4		.6	21	0	
1147	16		"				3.07	28.2		.6 2-8	14	0	
1148	20		"				2.96	27.5		.6	13	0	
1149	24		"				2.78	20.6		.6	13	0	
1150	29		"				2.71	16.9		.6	13	0	
1151	Apr 5		"				2.63	12.6		.6	13	0	
1152	8	225 P / 235 P	Haig	14.0	9.35	1.80	2.77	16.8		.6	7	0	FC. 35
1153	9		U.S.G.S.				2.64	13.2		.6	13	0	
1154	15	300 P / 310 P	Haig	12.6	7.40	1.32	2.58	9.8		.6	8	0	FC.35
1155	16		U.S.G.S.				2.57	10.1		.6	13	0	
1156	22		"				2.51	9.3		.6	12	0	
1157	30		"				2.38	6.3		.6	8	0	
1158	May 7		"				2.38	6.3		.6	8	0	
1159	13	911 A / 923 A	Moon-Lindsay	8.6	4.51	1.04	2.29	4.7		.6	9	0	FC.22
1160	14		U.S.G.S.				2.28	4.4		.6	8	0	
1161	21		"				2.25	3.5		.6	7	0	
1162	26	245 P / 254 P	Moon	7.8	4.00	0.85	2.22	3.4		.6	8	0	FC.22
1163	28		U.S.G.S.				2.22	3.4		.6	7	0	
1164	June 4		"				2.20	3.3		.6	13	0	
1165	12	1127A / 1134A	Moon	7.0	3.39	0.86	2.18	2.9		.6	7	0	FC.22
1166	12		U.S.G.S.				2.18	2.5		.6	13	0	
1167	24	1230P / 1237P	Moon	6.3	2.44	0.66	2.05	1.6		.6	7	0	FC.22
1168	July[1]	145 P / 151 P	"	6.2	2.30	0.61	2.05	1.4		.6	6	0	"
1169	July 8	1120A / 1126A	Moon	6.0	2.19	0.50	2.02	1.1		.6	6	0	FC.22
1170	9		U.S.G.S.				2.02	0.76		.6	11	0	
1171	15	1130A / 1137A	Moon	7.0	2.16	0.42	2.05	0.91		.6	7	0	FC.22
1172	15		U.S.G.S.				2.05	0.89		.6	10	0	
1173	23		"				1.99	0.45		.6	7	0	
1174	30		"				1.96	0.36		.6	3	0	
1175	30	130 P / 134 P	Moon	2.0	1.00	0.58	1.97	0.58		.6	4	0	FC.22
1176	Aug. 5	1010A / 1015A	"	5.5	1.08	0.58	2.00	0.63		.6	5	0	"
1177	12	1115A / 1118A	"	1.4	0.31	1.00	1.94	0.31		.6	3	0	"
1178	16		U.S.G.S.				1.95	0.33		.6	8	0	
1179	19	100 P / 106 P	Moon	5.0	0.87	0.56	1.98	0.49		.6	6	0	FC.22
1180	26	1117A / 1121A	Moon	2.8	0.61	0.34	1.92	0.21		.6	4	0	"
1181	27		U.S.G.S.				1.91	0.20		.6	7	0	
1182	Sept 2	1113A / 1115A	Moon	2.0	0.60	0.52	1.95	0.31		.6	2	0	FC.22
1183	11		U.S.G.S.				1.89	0.12		.6	4	0	
1184	15	1215P / 1220P	Brewster	1.0	0.24	0.54	1.89	0.13		.6	2	0	FC.12
1185	23	100 P / 102 P	Moon	1.0	0.16	0.38	1.85	0.06		.6	2	0	FC.22
1186	25		U.S.G.S.				1.89	0.10		.6	4	0	
1187	30	118 P / 122 P	Moon	3.5	0.71	0.27	1.95	0.19		.6	4	0	FC.22

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U6R

Daily discharge, in second-feet of ROGERS CREEK Near Azusa for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.2	0.03	0.1	32	39	14	7	3.4	1.3	0.4	0.2
2	0	0	0.04	0.1	29	37	14	6.5	3.7	1.4	0.4	0.3
3	0	0	0.04	0.2	26	80	13	6.5	3.5	1.4	0.4	0.2
4	0	0	0.06	0.1	24	235	13	6.5	3.2	1.4	0.5	0.2
5	0	0	0.09	0.2	22	197	13	6.5	3.2	1.3	0.6	0.2
6	0	0	0.04	0.2	18	123	17	6.5	3.4	1.2	0.5	0.2
7	0	0	0.06	0.2	15	90	12	6	2.8	0.8	0.6	0.2
8	0	0	0.09	0.1	18	80	14	6	2.5	0.8	0.4	0.2
9	0	0	0.13	0.1	16	70	14	5.5	2.4	0.8	0.3	0
10	0	0	0.04	0.1	14	62	13	5.5	2.2	0.8	0.3	0
11	0	0	0.03	0.03	12	56	12	5.5	2.4	1.4	0.3	0.1
12	0	0	0.07	0.02	11	49	11	4.9	2.7	1.2	0.3	0.1
13	0	0	0.07	0.03	10	43	11	4.5	2.5	0.9	0.3	0.1
14	0	0	0.03	0.03	10	39	10	4.5	2.4	1.2	0.3	0.1
15	0	0	0.03	0.04	9.5	34	10	4.5	2.1	0.9	0.4	0.1
16	0	0	0.03	0.03	9	29	10	4.3	2.0	0.9	0.4	0.1
17	0	0	0.03	0.03	8	28	9.5	4.1	2.0	0.9	0.4	0.1
18	0	0	0.06	0.03	7.5	31	9.5	3.7	1.8	1.0	0.3	0
19	0	0.3	0.07	0.06	7	27	9.5	3.5	1.7	0.8	0.4	0
20	0	0.2	0.07	0.07	7	27	9.5	3.4	1.7	0.8	0.4	0
21	0	0.1	0.11	0.6	17	25	9.5	3.4	1.6	0.7	0.4	0.1
22	0	0.1	0.09	545	88	24	9	3.5	1.5	0.7	0.3	0.3
23	0	0.1	0.06	684	105	22	9	3.4	1.5	0.5	0.3	0.4
24	0	0.1	0.3	114	112	21	8.5	3.2	1.5	0.4	0.3	0
25	0	0.1	2.0	58	87	20	8	3.2	1.6	0.4	0.3	0.1
26	0	0.04	0.6	42	66	19	8	3.4	1.5	0.4	0.2	0.1
27	0	0.03	0.3	36	54	18	8	3.5	1.2	0.4	0.2	0.2
28	0	0.03	0.1	25	52	17	7.5	3.4	1.3	0.6	0.2	0.2
29	0.8	0.02	0.2	21		17	7.5	3.2	1.3	0.4	0.2	0.2
30	0.4	0.03	0.1	46		16	7	3.2	1.2	0.4	0.2	0.2
31	0.3		0.9	55		15		3.0		0.6	0.2	
	1.5	135	5.06	1628.37	886.0	1590	321.0	141.8	65.8	26.7	10.7	3.9
MEAN	0.05	0.04	0.16	52.5	31.6	51.3	10.7	4.57	2.19	0.86	0.35	0.13
ACRE-FEET	3.0	2.7	10.0	3230.	1760.	3150.	637.	281.	131.	53.	21.	7.7

Remarks:

YEAR OR PERIOD — MEAN 12.8 — ACRE-FEET 9290.

STATION F82C-R

RUBIO WASH at Glendon Way

LOCATION:

On the left (east) side of channel 10 feet south of the westerly extension of Glendon Way, Rosemead.

DRAINAGE AREA:

13.4 square miles.

CHANNEL AND CONTROL:

Channel-rectangular concrete 48.1 ft. wide x 10.5 ft. deep to bottom of 0.5 ft. invert with 0.5 ft. fillets at vertical side walls.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge at station.

RECORDER:

Installed November 6, 1936, over a 4 ft. x 3 ft. concrete well.
An H. C. F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by Los Flores and Rubio Debris Basins.

DIVERSIONS:

None.

RECORDS AVAILABLE:

November 6, 1936 to September 30, 1943.
For previous records on Rubio Wash see Stations F82R, F107R, F82B-R in previous reports.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 2780 second-feet, March 4.
Minimum no flow part of year.
1930-1943 (Stations F82R, F82B-R and F82C-R)
Maximum 2780 second-feet, March 4, 1943.
Minimum no flow at times each year

ACCURACY:

Good.

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. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

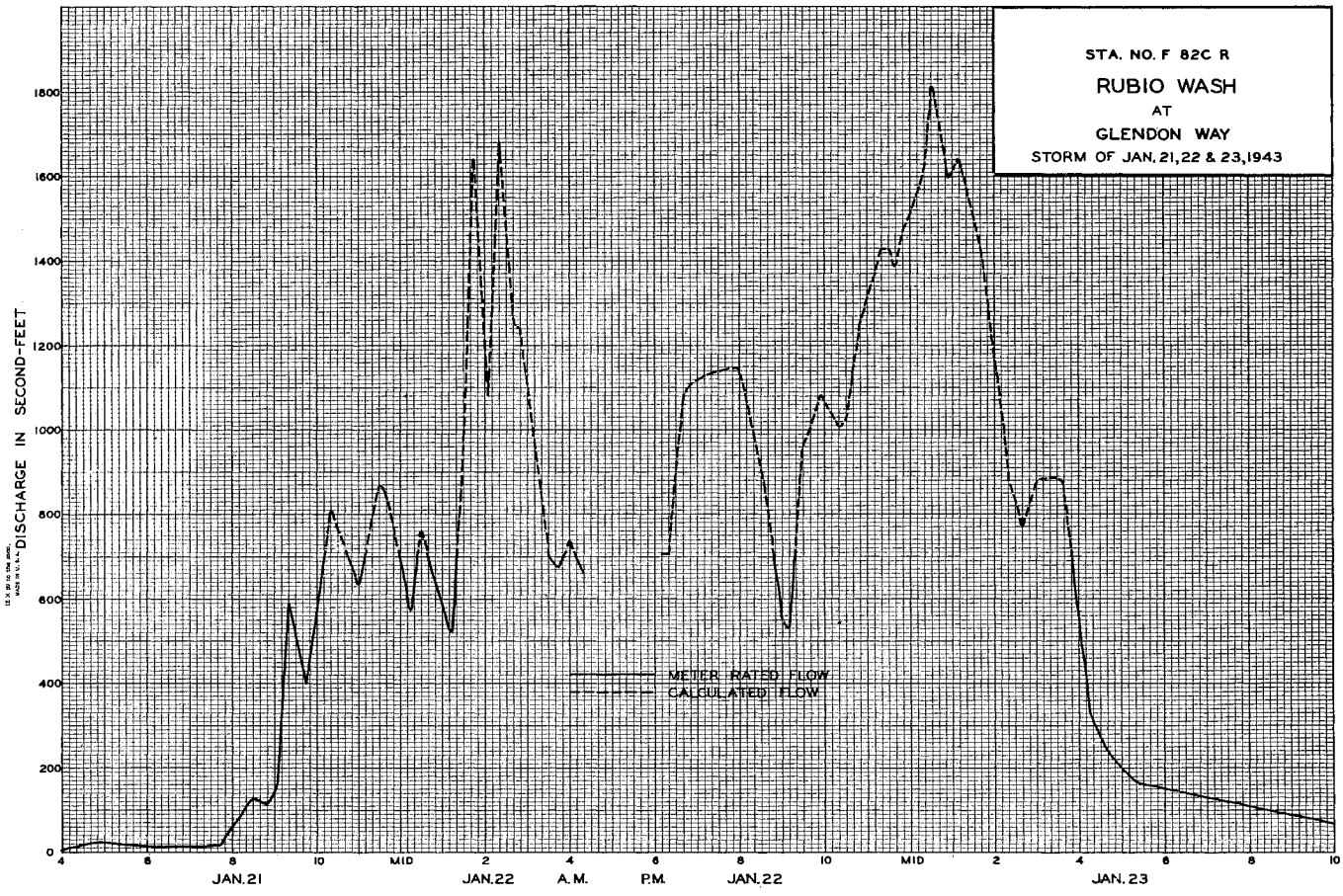
Sta. No F82C-R

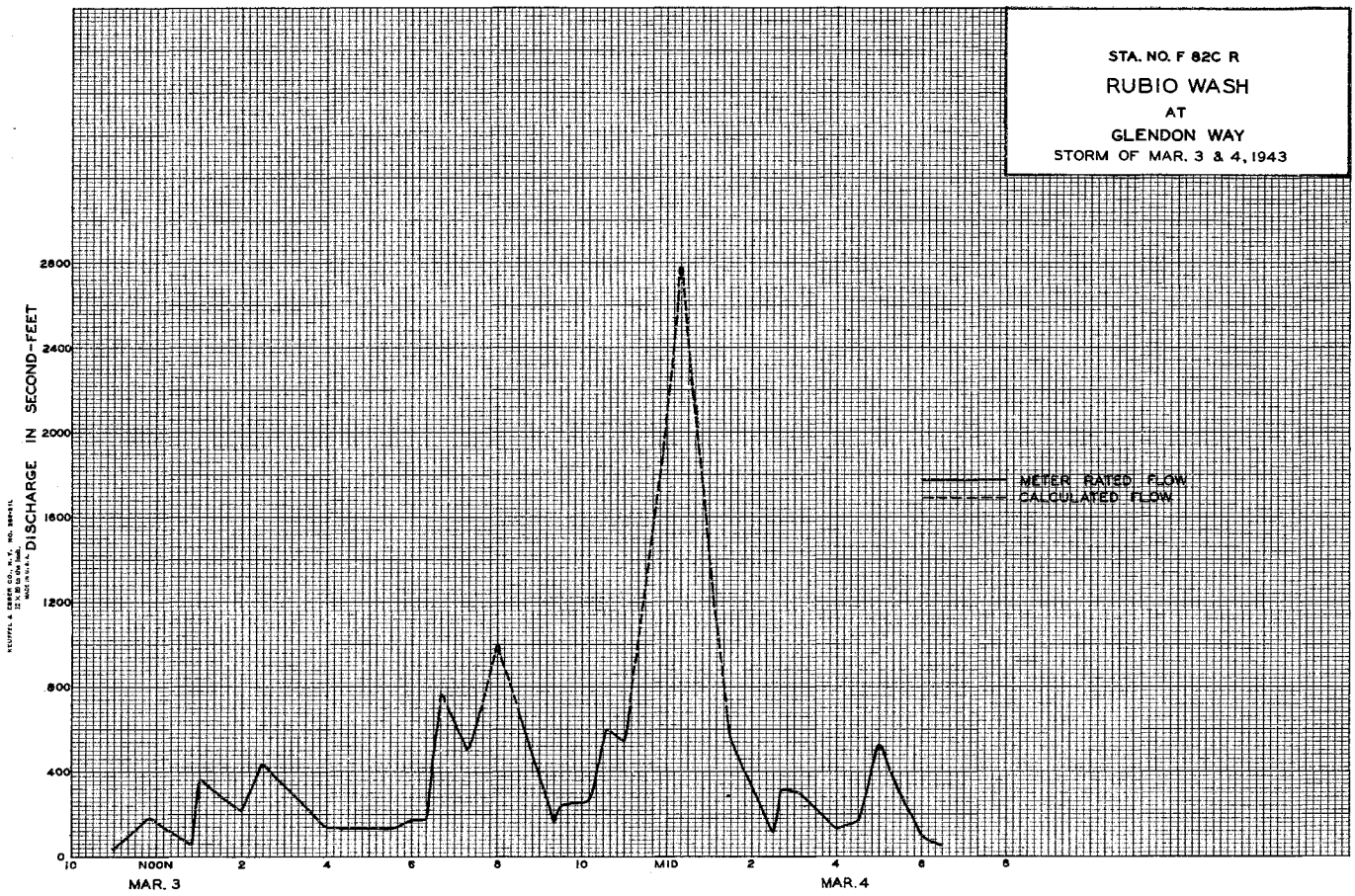
Daily discharge, in second-feet of RUBIO WASH At Glendon Way, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	+	0	0.6	1.9	+	+	0.2	+	+	+
2	0	0	0	0	0.6	1.0	+	+	+	+	+	+
3	0	+	0	0	0.2	231	0.1	0	+	+	+	+
4	0	0.7	0	0	0.1	255	0.1	0	+	+	+	+
5	0	+	0	0.3	0.2	22	1.9	0	+	+	+	+
6	0	+	0	+	+	14	36	+	+	+	+	+
7	0	0	0	0	+	13	0.6	+	+	+	+	+
8	0	0	0	+	30	13	6	+	+	+	+	+
9	+	0	0	0	0.2	13	0.6	+	+	+	+	+
10	+	0	0	0	+	7	1.9	+	+	+	+	+
11	0	0	0	0	+	6	0.1	+	+	+	+	+
12	11	0	0	0	+	1.4	+	+	0.1	+	+	+
13	0	0	0	+	0.1	1.9	+	+	+	+	+	+
14	0	0	0	+	+	1.9	+	+	+	+	+	+
15	0	0.1	0	0.5	0	2.5	+	+	+	+	+	+
16	+	+	0	0.1	+	1.9	0.1	+	+	+	+	+
17	+	+	0.1	+	+	4.8	0.1	+	0.1	+	+	+
18	0	0	+	0	0.6	3.6	+	+	+	+	+	+
19	+	10	0	0	1.0	0.6	+	+	0.2	+	+	+
20	+	0	0	0	0.2	0.4	+	+	+	+	+	+
21	+	0	0	88	38	0.4	+	+	+	+	+	+
22	0	0	0	697	158	0.6	+	+	+	+	+	+
23	0	0	0.9	270	18	0.2	+	+	0.1	+	+	+
24	0	0	29	1.6	40	0.2	0.1	+	+	+	+	+
25	0	0	24	0.6	18	0.2	0.1	0.1	+	+	+	+
26	+	0	0.1	26	9.5	+	0.1	0.2	+	+	+	+
27	+	+	0	5.5	1.4	+	+	0.2	+	+	+	+
28	28	0	0	0.6	1.0	+	+	0.1	+	+	+	+
29	+	0	0	1.0		+	0.1	0.1	+	+	+	+
30	+	0	0	70		+	+	+	+	+	+	+
31	0		0	27		0			+			
	39	10.8	54.1	1188.2	317.7	597.5	65.0	0.7	0.7	+	+	+
Mean	1.26	0.36	1.75	38.3	11.3	19.3	2.17	0.02	0.02	+	+	+
Acre-Feet	77.	21.	107.	2360.	630.	1190.	129.	1.4	1.4	+	+	+

Remarks: + = 0.05 c.f.s. or less.

Year or Period Mean 6.23
Acre-Feet 4520.





STATION U15R

SAN ANTONIO CREEK near Claremont

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°12'50", long. 117°40'00", in NW¼SE¼ sec. 36, T. 2 N., R. 8 W., half a mile upstream from Southern California Edison Co.'s. Sierra power plant and 8 miles northeast of Claremont. Altitude of gage, about 3,400 feet.

DRAINAGE AREA:

16.9 square miles.

RECORDS AVAILABLE:

March 1901 to September 1943

AVERAGE DISCHARGE

26 years (1917-43), 11.6 second-feet. Average combined discharge of creek and conduit, 26 years (1917-43, 24.3 second-feet.

EXTREMES:

Maximum discharge during year, 2,100 second-feet Jan 23, (gage height, 5.66 feet), by slope-area determination; minimum, 1.1 second-feet Sept. 12, 19.

1917-1943

Maximum discharge, 21,400 second-feet Mar. 2, 1938, by rainfall-runoff studies; minimum, less than 0.1 second-foot for several days in October 1934.

REMARKS:

Records good. Southern California Edison Co.'s conduit diverts water above station.

F. C. D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U-15-R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

NEAR CLAREMONT DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
884	10-1		U.S.G.S.				0.98	1.3		.6	12	0	
885	10-14		"				1.01	1.4		.6	14	0	
886	10-27		"				1.03	1.5		.6	12	0	
887	11-10		"				1.03	1.7		.6	17		
888	12-1		"				1.03	1.4		.6	13		
889	12-11		"				1.05	1.6		.6	9	0	
890	12-14		"				1.02	1.6		.6	14	-.01	
891	12-29		"				1.05	1.9		.6	9	0	
892	1-11		"				1.03	1.7		.6	12	0	
894	1-26		"				2.37	114.		.6	8	-.01	
895	2-1		"				2.25	74.		.6	10		
896	2-9		"				2.16	49.3		.6	15		
897	2-16		"				2.11	37.7		.6	14	-.01	
898	2-25		"				2.64	122.		.6	11		
899	3-9		"				2.68	147.		.6 / 2.8	12		
900	3-15		"				2.54	124.		.6	22	0	
901	3-18		"				2.47	102.		.6 / 2.8	20	0	
902	3-26		U.S.G.S.				2.32	74.		.6 / 2.8	20		
903	4-1		"				2.28	65.			20	0	
904	4-8		"				2.28	65.		.6	11	-.01	
905	4-14		"				2.20	43.8		.6 / 2.8	18	0	
906	4-15		"				2.20	43.8		.6	19	0	
907	4-23		"				2.18	53.			19	0	
908	4-29		"				2.24	61.		.6	19	0	
909	5-6		"				2.19	57.		.6	20	0	
910	5-13		"				2.25	46.4		.6	19	0	
911	5-20		"				2.09	34.7		.6	19	0	
912	5-27		"				2.07	31.8		.6	19	0	
913	6-4		"				2.00	26.6		.6	18	0	
914	6-11		"				1.90	19.6		.6	32	0	
915	6-25		"				1.67	13.0		.6	12	0	
916	7-8		"				1.29	6.4		.6	15	0	
917	7-23		"				1.07	2.5		.6	19	0	
918	7-29		"				0.92	2.0		.6	15		
919	8-16		"				0.95	1.9		.6	14	0	
920	8-30		"				0.97	1.3		.6	13	0	
921	9-14		"				0.97	1.2		.6	13	0	
922	9-27		"				1.00	1.5		.6	13	0	

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U15R

Daily discharge, in second-feet of SAN ANTONIO CREEK Near Claremont, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	1.7	1.4	1.9	77	80	67	66	29	9	2.4	1.4
2	1.5	1.7	1.4	1.9	77	74	67	66	28	8.5	2.5	1.4
3	1.4	1.7	1.4	1.9	74	102	66	64	29	8	2.5	1.4
4	1.4	1.7	1.4	1.9	72	219	62	62	27	7.5	2.5	1.4
5	1.3	1.7	1.5	1.9	69	228	66	61	26	6.5	2.5	1.4
6	1.3	1.7	1.5	1.8	62	231	69	58	24	6.5	2.4	1.4
7	1.4	1.7	1.6	1.7	55	187	62	55	22	6.5	2.1	1.4
8	1.3	1.7	1.6	1.7	56	171	62	54	21	6	2.0	1.4
9	1.4	1.7	1.6	1.7	51	149	56	52	20	a 5.5	2.0	1.3
10	1.5	1.7	1.6	1.7	47	136	50	50	20	a 5	2.0	1.3
11	1.6	1.7	1.6	1.7	44	121	45	48	20	a 4.8	f 2.0	1.3
12	1.7	1.6	1.6	1.7	42	139	44	47	20	a 4.3	a 2.0	1.3
13	1.6	1.6	1.7	1.7	42	147	42	46	20	a 3.9	a 2.0	1.3
14	1.6	1.6	1.7	1.6	40	142	42	50	18	a 3.5	a 1.9	1.3
15	1.6	1.6	1.6	1.6	37	132	44	48	17	a 3.3	a 1.9	1.3
16	1.5	1.7	1.6	1.7	37	123	46	46	16	a 3.2	f 1.9	1.3
17	1.4	1.7	1.6	1.7	37	113	47	45	15	a 3.0	1.9	1.3
18	1.4	1.7	1.6	1.8	37	109	48	42	15	a 3.0	1.9	1.3
19	1.4	1.8	1.6	1.8	37	100	50	40	15	a 2.9	2.3	1.3
20	1.4	1.6	1.5	1.8	37	96	51	37	14	a 2.8	1.7	1.3
21	1.4	1.5	1.5	2.6	50	93	52	36	14	a 2.7	1.7	1.3
22	1.4	1.5	1.5	129	99	100	52	35	14	a 2.6	1.7	1.3
23	1.4	1.4	1.5	606	125	93	53	34	13	a 2.5	1.6	1.3
24	1.5	1.4	1.9	132	121	84	59	33	13	a 2.5	1.6	1.5
25	1.5	1.4	2.6	127	106	75	66	32	13	a 2.5	1.6	1.6
26	1.5	1.4	2.1	121	84	74	64	32	12	a 2.5	1.5	1.6
27	1.5	1.4	2.0	119	87	74	61	32	11	a 2.5	1.5	1.6
28	1.9	1.4	1.9	117	85	72	62	32	10	a 2.5	1.5	1.6
29	1.8	1.4	1.9	100		70	64	30	10	f 2.5	1.5	1.6
30	1.8	1.4	1.9	94		70	66	30	9.5	2.5	1.5	1.5
31	1.7		1.9	85		69		30		2.5	1.5	
	46.5	47.8	51.8	1667.8	1787	3673	1685	1393	535.5	131.5	59.6	41.7
MEAN	1.50	1.59	1.67	53.8	63.8	118	56.2	44.9	17.8	4.24	1.92	1.39
ACRE-FEET	92	95	103	3310	3540	7290	3340	2760	1060	261	118	83

Remarks:

YEAR OR PERIOD — MEAN 30.5 — ACRE-FEET 22,050

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U15R

Daily discharge, in second-feet of SAN ANTONIO CREEK AND SOUTHERN CALIFORNIA EDISON Co.'s CONDUIT Near Claremont for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	9	8	7.5	8	77	101	89	88	51	31	22	16
2	9	8	8	8	77	96	89	88	50	30	22	16
3	9	8	7.5	8	74	124	88	86	51	30	22	16
4	9	8	8	8	72	219	84	84	49	30	22	15
5	9	8	8	8	69	243	88	83	48	28	22	15
6	9	8	8	8	62	253	91	80	46	28	22	15
7	9	8	8	7.5	55	209	84	77	44	28	22	15
8	9	8	8	7.5	56	193	84	76	43	28	21	15
9	9	8	8	7.5	51	171	78	74	42	29	21	15
10	9	7.5	8	7.5	47	158	72	72	42	27	21	15
11	9	7.5	8	7.5	44	143	67	70	41	27	21	15
12	9	7.5	8	7.5	42	161	66	69	41	26	21	14
13	9	7.5	8	7.5	42	169	64	68	41	26	21	14
14	9	8	8	7.5	40	164	64	72	39	26	20	14
15	9	8	8	7.5	37	154	66	70	38	25	20	14
16	9	8	8	7.5	37	145	69	68	37	25	20	14
17	8.5	8	8	7.5	37	135	69	67	36	24	20	14
18	8.5	8	8	7.5	37	131	70	64	36	24	19	14
19	8.5	8.5	8	7.5	37	122	72	62	36	25	19	13
20	8.5	8	8	7.5	37	118	73	59	35	24	19	13
21	8.5	8	8	8	50	115	74	58	35	24	19	13
22	8.5	8	8	151	99	122	74	57	35	24	19	13
23	8.5	8	8	606	125	115	75	56	34	24	19	13
24	8.5	8	8.5	132	121	106	81	55	34	24	18	14
25	8.5	8	9	127	106	97	88	54	35	24	18	15
26	8.5	8	8.5	121	105	96	86	54	34	24	18	14
27	8.5	8	8.5	119	108	96	83	52	33	24	18	15
28	9.5	8	8.5	117	106	94	84	54	32	24	18	14
29	9	8	8.5	100		92	86	52	32	22	16	14
30	9	8	8.5	94		92	88	52	32	22	16	14
31	8		8.5	85		91		52		22	16	
	273.0	238.5	251.5	1813.0	1850	4325	2345	2073	1182	798	612	431
MEAN	8.8	7.95	8.11	58.5	66.1	140	78.2	66.9	39.4	25.7	19.7	14.4
ACRE-FEET	541	473	499	3600	3670	8580	4650	4110	2340	1580	1210	855

Remarks:

YEAR OR PERIOD — MEAN 44.4 — ACRE FEET 32,110

STATION F151R

SAN ANTONIO CREEK at Mouth of Canyon

LOCATION:

On the right (west) bank, upstream from all headgates of Pomona Valley Protective Association spreading grounds and about 4 miles northeast of Claremont.

DRAINAGE AREA:

28.0 square miles.

CHANNEL AND CONTROL:

Channel-gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

Flows up to 300 second-feet measured by wading.
No facilities for measuring higher flow.

RECORDER:

Installed February 20, 1931 over a 21 inch diameter corrugated iron pipe stilling well.
Station was out of service from March 2, 1938 to March 30, 1938 and from January 24, 1943 to July 1, 1943.
An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

None.

DIVERSIONS:

Two diversions for irrigation.

RECORDS AVAILABLE:

February 20, 1931 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 3000 second-feet, estimated, January 23.
Minimum no flow for several months.
1930-1943
Maximum 23400 second-feet, estimated, March 2, 1938.
Minimum no flow for several months each year.

ACCURACY:

Poor.
Due to obstructed Communication. East levee broke during the storm of January 22, 23.
Flows frequently estimated.

OPERATION:

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

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F151-R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

AT OR NEAR mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19__

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
350	1-22	932A / 948A	Brewster & Smith	Two Channels				359.		.6	11	-0.02	FC 12
351	1-22	1100A / 1120A	" "	"	"			371.		.6	10	0	"
352	1-22	520P / 556P	" "	"	"			383.		.6	12	0	"
353	1-24	455P / 517P	" "	"	"			330.		.6	9		FC 35
354	1-25	445P / 505P	" "	"	"			254.		.6	11		"
355	1-26	940A / 1000A	" "	"	"			219.		.6	11		"
356	1-26	340P / 355P	" "	"	"			172.		.6	12		"
357	1-27	510P / 530P	Brewster	"	"			140.		.6	8	-0.05	"
358	1-28	455P / 515P	"	"	"			137.		.6	9	-0.03	"
359	1-29	530P / 550P	"	"	"			118.		.6	9		"
360	1-30	510P / 530P	"	22.0	18.0	6.06		109.		.6	6	-0.04	"
361	1-31	840A / 855A	"	27.0	20.2	4.95		100.		.6	8		"
362	1-31	500P / 520P	"	26.0	18.4	4.44		81.7		.6	7		"
363	2-4	625P / 640P	"	26.0	17.4	3.09		53.7		.6	7		FC 12
364	2-6	240P / 255P	"	27.0	16.8	2.73		45.8		.6	7		"
365	2-9	150P / 200P	"	26.0	14.9	2.39		35.6		.6	7	+0.10	"
366	2-10	300P / 315P	"	26.0	15.0	2.93		44.0		.6	7	0	"
367	2-18	210P / 225P	"	24.0	11.2	2.40		26.9		.6	7	0	"
368	2-21	105P / 125P	"	28.0	16.0	3.68		58.8		.6	7	0	"
369	2-22	930A / 945A	"	24.0	19.3	4.07		78.6		.6	8	+0.01	"
370	2-22	615P / 630P	"	58.0	58.6	7.17		420.		.6	7	+0.10	"
371	2-23	130P / 145P	Brewster	48.0	48.5	6.78		329.		.6	6	0	FC 12
372	2-24	900A / 920A	"	46.0	47.6	6.43		306.		.6	6	-0.07	"
373	2-25	555P / 615P	"	38.0	31.6	4.49		142.		.6	8		"
374	2-27	955A / 1015A	"	32.0	26.6	4.10		109.		.6	9		"
375	3-1	930A / 945A	"	34.0	23.7	3.59		85.0		.6	9		"
376	3-3	920A / 935A	"	32.0	19.6	3.63		71.2		.6	8		"
377	3-3	633P / 645P	Brewster & Smith	36.0	36.6	5.25		192.		.6	6		"
378	3-4	940A / 955A	" "	48.0	51.0	6.31		322.		.6	7	-0.02	"
379	3-4	350P / 410P	" "	48.0	53.0	6.17		327.		.6	7	+0.12	"
380	3-5	925A / 945A	" "	52.0	53.6	5.65		303.		.6	7	-0.10	"
381	3-6	1210P / 1235P	Brewster & Smith	Two Channels				335.		.6	12	0	FC 12
382	3-8	900A / 930A	Brewster	"	"			302.		.6	13	0	"
383	3-10	130P / 145P	"	32.0	38.4	6.41		246.		.6	8	0	"
384	3-11	430P / 445P	"	32.0	39.2	6.05		237.		.6	8	0	"
385	3-15	340P / 400P	"	32.0	31.2	4.81		150.		.6	8	0	"
386	3-18	445P / 505P	"	32.0	30.8	4.45		137.		.6	8	0	"
387	3-22	250P / 310P	"	32.0	29.6	4.46		132.		.6	8		"
388	3-25	400P / 418P	"	32.0	27.4	4.34		119.		.6	9		"
389	3-29	200P / 218P	"	30.0	26.5	4.08		108.		.6	8		"
390	4-1	200P / 220P	"	30.0	25.5	3.74		95.3		.6	8		"
391	4-5	430P / 445P	"	28.0	23.0	3.94		90.6		.6	8		"
392	4-6	355P / 410P	"	32.0	28.7	3.97		114.		.6	8		"
393	4-7	1130A / 1155A	"	30.0	26.6	3.87		103.		.6	8		"
394	4-8	1250P / 110P	Brewster	30.0	26.3	4.26		112.		.6	8		FC 12
395	4-12	140P / 200P	"	30.0	24.7	3.47		85.6		.6	8		"
396	4-15	220P / 240P	"	30.0	23.6	3.46		81.7		.6	8		"
397	4-19	200P / 220P	"	17.0	19.5	3.13		61.0		.6	6		"
398	4-22	225P / 243P	"	17.0	24.9	3.52		87.7		.6	6		"
399	4-26	300P / 315P	"	16.0	20.1	3.31		66.6		.6	6		"
400	4-29	345P / 400P	"	16.0	19.9	3.23		64.2		.6	6		"
401	5-3	325P / 340P	"	16.0	22.0	3.26		71.7		.6	6		"
402	5-6	1220P / 1235P	"	17.0	21.4	3.01		64.4		.6	5		"
403	5-10	810A / 825A	"	17.0	21.3	2.89		61.5		.6	5		"
404	5-12	210P / 225P	"	17.0	20.1	2.87		57.6		.6	5		"
405	5-20	230P / 240P	"	17.0	16.2	2.25		36.5		.6	5		"
406	5-27	315P / 330P	"	17.0	15.2	2.27		34.5		.6	5		"
407	6-3	248P / 300P	"	17.0	9.84	2.85		28.0		.6	5		"
408	6-10	110P / 125P	"	12.0	7.40	1.82		13.5		.6	6		"
409	6-17	305P / 315P	"	10.0	3.44	0.76	8.63	2.6		.6	5	0	"
410	6-24	1252P / 100P	"	4.0	1.04	0.84	8.58	0.87		.6	4	0	"

F.C. Dist. Form 92 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F151R

Daily discharge, in second-feet of SAN ANTONIO CREEK at Mouth of Canyon, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	80	85	98	70	30	0	0	0
2	0	0	0	0	71	78	98	70	29	0	0	0
3	0	0	0	0	64	130	97	71	28	0	0	0
4	0	0	0	0	57	330	95	70	26	0	0	0
5	0	0	0	0	51	320	95	68	24	0	0	0
6	0	0	0	0	47	330	120	64	22	0	0	0
7	0	0	0	0	43	320	105	64	20	0	0	0
8	0	0	0	0	39	300	110	63	18	0	0	0
9	0	0	0	0	40	274	108	62	16	0	0	0
10	0	0	0	0	45	249	100	61	14	0	0	0
11	0	0	0	0	43	239	94	60	12	0	0	0
12	0	0	0	0	42	219	87	58	11	0	0	0
13	0	0	0	0	41	198	86	55	9	0	0	0
14	0	0	0	0	40	175	85	53	8.5	0	0	0
15	0	0	0	0	38	154	84	50	6	0	0	0
16	0	0	0	0	35	148	80	47	4.4	0	0	0
17	0	0	0	0	32	132	75	44	2.6	0	0	0
18	0	0	0	0	30	140	70	42	2.0	0	0	0
19	0	0	0	0	37	136	62	39	1.5	0	0	0
20	0	0	0	0	47	135	70	36	1.0	0	0	0
21	0	0	0	0	58	130	80	36	1.0	0	0	0
22	0	0	0	329	220	135	85	36	1.0	0	0	0
23	0	0	0	1200	355	130	82	35	1.5	0	0	0
24	0	0	0.2	358	280	125	79	35	0.5	0	0	+
25	0	0	0.2	272	160	120	72	35	0.1	0	0	0
26	0	0	0	207	127	118	68	34	+	0	0	0
27	0	0	0	144	109	115	64	34	+	0	0	0
28	0	0	0	137	96	112	63	33	+	0	0	0
29	0	0	0	121		109	63	32	0	0	0	0
30	0	0	0	110		107	67	31	0	0	0	0
31	0		0	94		101		31		0	0	
	0		0.4		2327		2542		2891		0	
		0		3052		5394		1519		0		+
MEAN	0	0	0.01	98.5	83.1	174.	84.7	49.0	9.64	0	0	+
ACRE-FEET	0	0	0.8	6050.	4620.	10700.	5040.	3010.	573.	0	0	+

Remarks: + = 0.05 c.f.s. or less. Poor Record - see Accuracy

YEAR OR PERIOD — MEAN 41.4 — ACRE-FEET 29990.

STATION U10R

SAN GABRIEL RIVER BASIN San Dimas Creek near San Dimas

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°08'45", long. 117°45'35", in SW¼NE¼ sec. 25, T. 1 N., R. 9 W., at mouth of San Dimas Canyon, 0.7 mile downstream from flood-control reservoir and 3 miles northeast of San Dimas. Altitude of gage, about 1,245 feet.

DRAINAGE AREA:

18.3 square miles.

RECORDS AVAILABLE:

April to September 1916 (discharge measurements only), December 1916 to September 1943.

AVERAGE DISCHARGE:

26 years (1917-43), 5.00 second-feet.

EXTREMES:

Maximum discharge during year, 1,970 second-feet Jan 23 from rating extended above 694 second-feet on basis of critical velocity over broad-crested weir. (gage height 4.38 feet); minimum daily discharge, 0.1 second-foot Jan 3-13.

1916-1943

Maximum discharge, about 4,250 second-feet Mar. 2, 1938, from records of release at flood-control reservoir; no flow for several months during most years.

REMARKS:

Records good. Flow regulated by flood-control dam above station. San Dimas Water Co. diverts water just below gage for irrigation.

COOPERATION:

Results of 57 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U10R

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

AT OR NEAR San Dimas DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1426	Oct 1		U.S.G.S.				0.47	4.0		.6	16	0	
1427	7	1235P / 1253P	Brewster	4.0	2.32	1.68	0.45	3.9		.6	8	0	FC.12
1428	14	1110A / 1130A	"	4.0	2.29	1.57	0.43	3.6		.6	8	0	"
1429	14		U.S.G.S.				0.43	3.5		.6	10	0	
1430	21	100P / 115P	Brewster	4.0	1.88	1.01	0.29	1.9		.6	8	0	FC.12
1431	27		U.S.G.S.				0.14	0.46		.6	8	0	
1432	28	1100A / 1115A	Brewster	4.0	1.40	0.48	0.17	0.67		.6	8	0	FC.12
1433	Nov 4	1250P / 104P	"	4.0	1.30	0.37	0.13	0.48		.6	8	0	"
1434	13		U.S.G.S.				0.12	0.39		.6	8	0	
1435	13	1205P / 1215P	Brewster	3.0	0.70	0.69	0.12	0.48		.6	6	0	FC.12
1436	18	1112A / 1124A	"	3.0	0.73	0.58	0.13	0.42		.6	6	0	"
1437	24		U.S.G.S.				0.13	0.47		.6	8	0	
1438	27	1135A / 1150A	Brewster	3.0	0.70	0.70	0.12	0.49		.6	6	0	FC.12
1439	Dec. 2	1105A / 1115A	"	3.0	0.71	0.69	0.12	0.49		.6	6	0	"
1440	9	1102A / 1123A	"	4.0	1.80	0.94	0.25	1.7		.6	8	0	"
1441	10		U.S.G.S.				0.23	1.8		.6	8	0	
1442	16	1030A / 1045A	Brewster	4.0	2.02	1.14	0.32	2.3		.6	8	0	FC.12
1443	17		U.S.G.S.				0.32	2.6		.6	9	0	
1444	22	1005A / 1021A	Brewster	4.0	1.99	1.11	0.31	2.2		.6	8	0	FC.12
1445	29		U.S.G.S.				0.07	0.12		.6	2	0	
1446	29	215P / 220P	Brewster	1.0	0.22	0.86	0.07	0.19		.6	2	0	FC.12
1447	Jan 5		U.S.G.S.				0.04	0.13		.6	2		
1448	7	346P / 352P	Brewster	1.0	0.30	0.43	0.09	0.13		.6	2	0	FC.12
1449	14		U.S.G.S.				0.21	0.90		.6	9		
1450	14	1250P / 105P	Brewster	4.5	2.10	0.46	0.22	0.96		.6	9	0	FC.12
1451	21	1256P / 115P	"	4.5	2.47	0.89	0.28	2.2		.6	7	0	"
1452	22		U.S.G.S.				0.84	8.4		.6	11	-.02	
1453	23		"				3.33	694.		.6	12	0	
1454	24	800A / 820A	Smith & Brewster	53.0	49.9	2.87	2.15	143.		.6	11	-.30	FC.35
1455	24		U.S.G.S.				1.92	76.		.6	13	0	
1456	25		"				1.09	20.5		.6	8	0	
1457	26	1130A / 1145A	Brewster Van der Goot	29.0	18.3	1.24	1.08	22.7		.6	10	0	FC.35
1458	27		U.S.G.S.				1.10	24.3		.6	11	0	
1459	29	305P / 330P	Brewster	26.0	12.9	1.71	1.05	22.1		.6	7	0	FC.35
1460	Feb 1		U.S.G.S.				1.00	21.2		.6	11		
1461	4		"				1.04	15.0		.6	10	0	
1462	4	430P / 450P	Brewster	25.0	10.1	1.48	1.04	14.9		.6	13	0	FC.12
1463	5		U.S.G.S.				.87	10.0		.6	12	0	
1464	9		"				.17	.86		.6	5	0	
1465	10	125P / 140P	Brewster	5.0	1.39	0.86	.16	1.2		.6	5	0	FC.12
1466	16		U.S.G.S.				.71	7.9		.6	11	0	
1467	18	1240P / 100P	Brewster	15.0	5.89	1.38	.70	8.1		.6	8	0	FC.12
1468	22		U.S.G.S.				2.01	75.		.6	18	-.01	
1469	Feb 23	1145A / 1205P	Brewster	39.0	37.8	3.70	2.42	140.		.6	8	0	FC.12
1470	23		U.S.G.S.				2.42	139.		.6	17		
1471	25	305P / 325P	Brewster	30.0	25.4	1.46	1.42	37.2		.6	8	0	FC.12
1472	Mar. 4	105P / 130P	" & Smith	60.0	81.2	4.57	2.84	371.		.6	9	-.01	"
1473	5	640P / 702P	" "	61.0	68.7	3.58	2.63	246.		.6	13	0	"
1474	6	810A / 840A	" "	60.0	67.0	3.52	2.61	236.		.6	13	0	"
1475	7		U.S.G.S.				2.19	100.		.6	16	0	
1476	11	315P / 333P	Brewster	33.0	33.9	1.90	1.81	64.4		.6	9	0	FC.12
1477	12		U.S.G.S.				1.66	47.5		.6	16	0	
1478	15		"				1.61	36.3		.6	19	0	
1479	18	215P / 233P	Brewster	28.0	28.4	1.16	1.58	33.0		.6	7	0	FC.12
1480		No measurement corresponding to this number											
1481	22		U.S.G.S.				1.52	28.8		.6	14	0	
1482	25	118P / 130P	Brewster	7.0	2.54	0.67	0.24	1.7		.6	7	0	FC.12
1483	29		U.S.G.S.				0.23	1.6		.6	9	0	
1484	Apr. 1	540P / 555P	Brewster	8.0	1.87	0.75	0.26	1.4		.6	5	0	FC.12
1485	5		U.S.G.S.				0.89	10.4		.6	21	0	
1486	8	1130A / 1152A	Brewster	25.0	18.1	1.66	1.47	30.0		.6	12	0	FC.12
1487	12		U.S.G.S.				0.95	12.3		.6	17	0	
1488	15	1140A / 1156A	Brewster	16.5	13.1	0.80	0.98	10.5		.6	9	0	FC.12
1489	21		U.S.G.S.				0.68	6.8		.6	16	0	
1490	22	1202P / 1220P	Brewster	16.0	11.6	0.50	0.69	5.8		.6	8	0	FC.12
1491	27		U.S.G.S.				0.73	6.8		.6	16	0	

F. C. D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U10R

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

AT NEAR San Dimas DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1492	Apr. 29	1212P / 1228P	Brewster	16.0	11.4	0.57	0.75	6.5		.6	8	0	FC.12
1493	May 4		U.S.G.S.				0.60	4.2		.6	13	0	
1494	6	1100A / 1122A	Brewster	9.0	3.75	0.93	0.60	3.5		.6	6	0	FC.12
1495	12	1240P / 1252P	"	10.0	5.39	1.26	0.77	6.8		.6	6	0	"
1496	13		U.S.G.S.				0.77	6.2		.6	13	0	
1497	17		"				0.76	6.2		.6	13	0	
1497a	20	1140A / 1155A	Brewster	14.0	13.3	0.83	0.96	11.0		.6	7	0	FC.12
1498	21		U.S.G.S.				0.86	8.3		.6	13	-.03	
1499	27	110P / 130P	Brewster	13.0	6.98	1.26	0.83	8.8		.6	8	0	FC.12
1500	28		U.S.G.S.				0.84	8.7		.6	14	0	
1501	June 3	105P / 120P	Brewster	13.0	6.92	1.32	0.87	9.1		.6	7	0	FC.12
1502	4		U.S.G.S.				0.85	8.6		.6	15	0	
1503	10	315P / 333P	Brewster	12.0	6.24	1.15	0.79	7.2		.6	6	0	FC.12
1504	11		U.S.G.S.				0.80	7.2		.6	15	0	
1505	17	1258P / 120P	Brewster	12.0	6.20	1.18	0.77	7.3		.6	6	0	FC.12
1506	24	1201P / 1219P	"	12.0	6.08	1.07	0.71	6.5		.6	6	0	"
1507	July 1	1234P / 1252P	"	12.0	6.16	1.04	0.79	6.4		.6	6	0	"
1508	5		U.S.G.S.				0.53	6.4		.6	13	0	
1509	8	150P / 202P	Brewster	12.0	6.32	0.98	0.54	6.2		.6	6	0	FC.12
1510	15		U.S.G.S.				0.62	7.0		.6	13	0	
1511	15	132P / 150P	Brewster	12.0	6.32	1.08	0.62	6.8		.6	6	0	FC.12
1512	22	1135A / 1155A	"	12.0	6.60	1.11	0.66	7.3		.6	6	0	"
1513	23		U.S.G.S.				0.66	6.9		.6	14	0	
1514	July 29	1202P / 1217P	Brewster	12.0	6.64	1.10	0.57	7.3		.6	6	0	FC.12
1515	30		U.S.G.S.				0.57	6.7		.6	13	0	
1516	Aug. 5	109P / 121P	Brewster	12.0	6.52	1.07	0.61	7.0		.6	6	0	FC.12
1517	12	1135A / 1150A	"	12.0	6.48	1.10	0.62	7.1		.6	6	0	"
1518	16		U.S.G.S.				0.65	6.2		.6	13	0	
1519	19	110P / 125P	Brewster	12.0	6.52	1.09	0.65	7.1		.6	6	0	FC.12
1520	26	1052A / 1105A	Haig / Van der Goot	12.3	5.84	1.15	0.63	6.7		.6	11	0	FC.35
1521	28		U.S.G.S.				0.63	6.3		.6	13	0	
1522	Sept 2	1145A / 1158A	Haig	12.0	6.07	1.05	0.62	6.4		.6	12		FC.35
1523	11	1244P / 100P	Brewster	12.0	6.28	1.00	0.56	6.3		.6	6	0	FC.12
1524	13		U.S.G.S.				0.55	6.2		.6	14	0	
1525	18	1235P / 1250P	Brewster	12.0	6.20	1.02	0.54	6.3		.6	6	0	FC.12
1526	23	1130A / 1145A	"	12.0	5.86	1.02	0.45	6.0		.6	6	0	"
1527	25		U.S.G.S.				0.46	6.0		.6	13	0	
1528	30	1250P / 105P	Brewster	12.0	5.89	0.95	0.44	5.6		.6	7	0	FC.12

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U10R

Daily discharge, in second-feet of SAN DIMAS CREEK Near San Dimas, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.1	0.5	0.5	0.2	21	24	2.0	6.5	9	6.5	7	6.5
2	4.0	0.5	0.5	0.2	17	2.7	3.6	6.5	9.5	6.5	7	6.5
3	4.0	0.5	0.5	0.1	15	74	10	5.5	9	6.5	7	6.5
4	4.0	0.5	0.5	0.1	14	341	10	3.9	8.5	6.5	7	6.5
5	4.0	0.5	1.1	0.1	12	302	11	3.9	8	6.5	7	6.5
6	4.0	0.5	1.6	0.1	10	235	21	3.9	7.5	6.5	7	6.5
7	3.9	0.5	1.7	0.1	10	130	29	4.0	7	6.5	7	6.5
8	3.7	0.5	1.7	0.1	6	94	29	4.0	7	6.5	7	6.5
9	3.7	0.5	1.7	0.1	1.0	82	29	4.1	7	6.5	7	6.5
10	3.7	0.5	1.8	0.1	4.6	70	22	4.6	7	6.5	7	6.5
11	3.6	0.5	1.9	0.1	20	59	12	5.5	7	6.5	7	6.5
12	3.7	0.4	1.9	0.1	20	51	12	6.5	7.5	6.5	7	6.5
13	0.3	0.4	1.8	0.1	16	56	12	6.5	8	6.5	7.5	6
14	3.4	0.4	2.0	0.5	6.5	55	11	6.5	7.5	6.5	7.5	6
15	3.0	0.4	2.4	0.7	8	43	11	6.5	7.5	7	7.5	6.5
16	2.8	0.4	2.4	0.8	8	37	10	6.5	7.5	7	7.5	6.5
17	2.8	0.4	2.5	0.8	8	48	10	6.5	7.5	7	7.5	6.5
18	2.8	0.4	2.3	0.9	8	40	10	6.5	7.5	7.5	7	6.5
19	2.8	0.5	2.3	1.7	8	31	10	6.5	7.5	7.5	7	6.5
20	2.4	0.5	2.3	2.7	8	28	7.5	8	7.5	7.5	7	6.5
21	1.9	0.5	2.3	2.4	8.5	24	6.5	7	7	7.5	7	6.5
22	1.2	0.5	2.2	2.2	41	26	6.5	9.5	7	7	7	6
23	0.5	0.5	1.9	8.3	131	1.7	6.5	8.5	7	7	7	6
24	0.5	0.5	0.8	11.7	123	1.7	6.5	9	7	7	7	6
25	0.5	0.5	0.4	3.4	6.4	1.7	6.5	9	7.5	7	7	6
26	0.5	0.5	0.2	2.4	36	1.6	6.5	8.5	7	7	6.5	6
27	0.5	0.5	0.2	2.5	35	1.6	6.5	8.5	7	7	6.5	6
28	0.6	0.5	0.2	2.3	35	1.6	6.5	8.5	7	7	6.5	5.5
29	0.5	0.5	0.2	2.2		1.6	6.5	8.5	7	7	6.5	5.5
30	0.5	0.5	0.2	2.3		1.6	6.5	8.5	7	7	6.5	5.5
31	0.5		0.2	1.9		1.6		8.5		7	6.5	
	77.6	14.3	42.2	1349.0	694.6	1867.4	337.3	206.4	224.0	212.0	216.5	188.0
MEAN	2.50	.48	1.36	43.5	24.8	60.2	11.2	6.66	7.47	6.84	6.98	6.27
ACRE-FEET	154	28	84	2680	1380	3700	669	409	444	420	429	373

Remarks:

YEAR OR PERIOD — MEAN 14.9 — ACRE-FEET 10,770

STATION F209R

SAN GABRIEL RIVER-WEST FORK below San Gabriel Dam No. 2

LOCATION:

On the left (northeast) bank of the West Fork of the San Gabriel River about 7 miles above Junction of the East and West Forks and ½ mile below San Gabriel Dam No. 2.

DRAINAGE AREA:

41.0 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and boulders.
Control-concrete with a 12 inch x 12 foot Cipolletti weir containing a smaller 6 inch x 48 inch Cipolletti notch in the center constructed about 35 feet below the station in June, 1940.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 6 feet below station.

RECORDER:

Installed December 8, 1933. Washed out in the March 2, 1938 storm.
Reinstalled March 10, 1938 in a temporary house over the damaged stilling well. Removed May 30, 1938. Installed July 8, 1938 in a concrete house over a 4 ft. x 4 ft. concrete well in the same location as the old well.
An Au continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

40.4 square miles regulated by San Gabriel Dam No. 2.
0.6 square miles unregulated.

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, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 7,300 second-feet, January 23.
Minimum 0.6 second-fest, various days.
1933-1943
Maximum 25,000 second-feet, estimated, March 2, 1938.
Minimum ± several times.

ACCURACY:

Fair.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District, for measuring outflow from San Gabriel Dam No. 2.

S. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F209-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

~~XXIX~~ below San Gabriel Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1278	10-4	1028A 1040A	Godfrey	8.0	1.58	0.63	2.72	0.99		.6	10	0	FC 20
1279	10-9	1135A 1150A	"	7.8	1.49	0.58	2.71	0.86		.6	10	0	"
1280	10-11	224P 238P	Godfrey & DeVore	8.0	1.60	0.59	2.70	0.94		.6	11	0	"
1281	10-14	235P 255P	Godfrey	8.0	1.59	0.54	2.70	0.86		.6	11	0	"
1282	10-18	1158A 1213P	"	8.0	1.54	0.58	2.70	0.90		.6	11	0	"
1283	10-21	230P 250P	"	8.0	1.52	0.53	2.68	0.81		.6	12	0	"
1284	10-25	1025A 1035A	"	5.0	0.86	0.81	2.69	0.70		.6	9	0	"
1285	10-29	1005A 1020A	"	4.6	0.83	0.71	2.67	0.59		.6	9	0	"
1286	11-1	955A 1013A	Godfrey	4.5	0.82	0.67	2.67	0.55		.6	8	0	FC 20
1287	11-4	1025A 1043A	"	4.5	0.83	0.75	2.67	0.62		.6	8	0	"
1288	11-8	220P 235P	"	4.5	0.83	0.65	2.67	0.54		.6	8	0	"
1289	11-11	212P 226P	"	4.5	0.86	0.64	2.67	0.55		.6	8	0	"
1290	11-15	1135A 1148A	"	4.5	0.85	0.67	2.67	0.57		.6	8	0	"
1291	11-19	320P 330P	"	4.5	0.86	0.74	2.68	0.64		.6	8	0	"
1292	11-21	1100A 1113A	"	4.5	0.88	0.82	2.68	0.72		.6	7	0	"
1293	11-25	225P 235P	"	4.5	0.87	0.78	2.68	0.68		.6	7	0	"
1294	11-29	240P 250P	"	4.5	0.92	0.78	2.68	0.72		.6	7	0	"
1295	12-2	1034A 1043A	Godfrey & Godfrey	4.5	0.93	0.80	2.68	0.74		.6	7	0	"
1296	12-6	940A 952A	Godfrey	4.5	0.93	0.80	2.68	0.74		.6	7	0	"
1297	12-9	1120A 1131A	"	4.5	0.99	0.78	2.69	0.77		.6	7	0	"
1298	12-13	953A 1001A	"	4.5	1.00	0.76	2.69	0.76		.6	7	0	"
1299	12-16	210P 222P	Godfrey	4.5	1.00	0.82	2.69	0.82		.6	7	0	FC 20
1300	12-20	1000A 1011A	"	4.5	0.98	0.81	2.69	0.79		.6	7	0	"
1301	12-23	945A 955A	"	4.5	1.01	0.82	2.69	0.83		.6	7	0	"
1302	12-27	1027A 1041A	"	4.5	1.05	0.87	2.70	0.91		.6	8	0	"
1303	12-30	1100A 1112A	"	4.5	1.09	0.87	2.71	0.95		.6	9	0	"
1304	12-30	234P 310P	"	12.5	5.26	1.18	3.10	6.2		.6	9	+.01	"
1305	1-3	950A 1010A	"	12.0	4.78	1.00	3.06	4.8		.6	11	0	"
1306	1-3	1231P 1246P	"	13.3	5.90	1.29	3.13	7.6		.6	11	+.01	"
1307	1-4	305P 332P	Whisler	13.3	5.40	1.18	3.09	6.4		.6	11	0	"
1308	1-7	247P 306P	Godfrey	13.0	5.10	0.98	3.06	5.0		.6	10	0	"
1309	1-10	818A 830A	Godfrey & Whisler	11.8	4.75	0.97	3.04	4.6		.6	10	0	"
1310	1-10	957A 1013A	Godfrey	4.5	1.11	1.00	2.75	1.1		.6	9	-.03	"
1311	1-14	225P 252P	"	4.5	1.00	0.77	2.68	0.77		.6	9	0	"
1312	1-17	1020A 1051A	"	4.5	1.13	0.69	2.69	0.78		.6	9	0	"
1313	1-21	225P 243P	"	4.5	1.17	0.78	2.70	0.91		.6	9	+.01	"
1314	1-22	1000A 1030A	"	32.0	36.6	2.08	4.29	75.3		.6	10	0	"
1318	1-23	1200N 1225P	Godfrey & Whisler	72.0	470.	12.2	12.54	5720.		.6	7	+.03	"
1319	1-23	105P 125P	" "	72.0	401.	9.14	11.05	3660.		.6	7	0	"
1320	1-23	605P 623P	Godfrey & DeVore	64.0	340.	6.46	9.08	2200.		.6	9	0	"
1321	1-24	700A 725A	" "	65.0	303.	6.27	8.84	1900.		.6	10	0	"
1322	1-24	310P 345P	Godfrey & Whisler	58.0	217.	2.97	6.94	645.		.6	12	0	"
1323	1-24	612P 634P	Godfrey	57.0	227.	2.47	6.75	561.		.6	8	0	FC 20
1324	1-25	930A 959A	"	55.0	173.	1.66	6.13	283.		.6	11	0	"
1325	1-25	235P 300P	Godfrey & Whisler	63.0	261.	4.43	7.84	1160.		.6	9	0	"
1326	1-25	325P 350P	" "	64.0	331.	6.41	8.98	2130.		.6	9	0	"
1327	1-26	812A 832A	Godfrey	56.0	211.	2.75	6.90	582.		.6	11	0	"
1328	1-27	718A 735A	"	56.0	208.	2.52	6.74	524.		.6	9	0	"
1329	1-27	807A 833A	"	57.0	209.	2.48	6.73	518.		.6	11	0	"
1330	1-27	927A 953A	"	57.0	192.	2.12	6.33	407.		.6	11	0	"
1331	1-27	1234P 1255P	"	52.0	150.	1.13	5.66	170.		.6	11	0	"
1332	1-28	856A 914A	"	52.0	150.	1.10	5.61	166.		.6	10	0	"
1333	1-28	520P 545P	"	57.0	41.3	2.37	5.40	97.7		.6	13	0	FC 26
1334	1-29	935A 1003A	"	58.0	44.7	2.07	5.40	92.6		.6	14	0	"
1335	1-30	908A 925A	"	58.0	44.0	2.06	5.38	90.5		.6	13	0	"
1336	1-31	1008A 1028A	"	59.0	48.5	2.15	5.48	104.		.6	13	0	"
1337	2-1	1055A 1122A	"	61.0	51.1	2.08	5.50	106.		.6	14	0	"
1338	2-2	915A 950A	"	59.0	47.6	2.31	5.51	110.		.6	15	0	"
1339	2-2	542P 603P	"	57.0	203.	2.87	6.86	582.		.6	12	0	FC 20
1340	2-3	622A 644A	"	64.0	270.	4.67	7.94	1260.		.6	12	0	"
1341	2-4	1140A 1202P	"	47.0	48.1	0.37	4.66	17.6		.6	10	0	FC 26
1342	2-5	956A 1015A	"	59.5	40.5	1.83	5.33	74.3		.6	17	0	"
1343	2-5	1131A 1153A	"	60.0	45.5	2.08	5.46	94.6		.6	17	0	"

F. C. D. FORM 104 3M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F209-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

~~at~~ below San Gabriel Dam #2 DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1344	2-6	1130A / 1155A	Godfrey	60.0	45.1	2.14	5.46	96.9		.6	17	0	FC 26
1345	2-8	910A / 935A	"	60.0	43.4	2.19	5.43	95.2		.6	17	0	"
1346	2-11	937A / 958A	"	45.0	43.4	0.35	4.65	15.3		.6	10	0	"
1347	2-14	915A / 935A	"	45.0	46.1	0.45	4.66	20.7		.6	9	0	"
1348	2-15	630P / 650P	DeVore & Whisler	54.0	142.	2.24	5.78	319.		.6	11	0	FC 20
1349	2-18	1001A / 1010A	Godfrey	13.5	9.10	1.40	3.42	12.7		.6	7	0	FC 26
1350	2-23	745A / 758A	"	38.0	47.7	1.57	4.39	75.0		.6	9	0	"
1351	2-23	847A / 910A	Godfrey & DeVore	55.5	128.	5.47	5.90	700.		.6	11	0	FC 20
1352	2-23	1237P / 1258P	Godfrey	54.0	112.	4.33	5.65	485.		.6	11	0	"
1353	2-24	730A / 754A	"	54.0	98.9	3.71	5.46	367.		.6	10	0	"
1354	2-25	925A / 942A	"	54.0	97.7	3.94	5.48	384.		.6	10	0	"
1355	2-25	1028A / 1045A	"	51.0	73.9	2.62	4.98	194.		.6	10	0	"
1356	2-26	742A / 756A	"	51.0	76.8	2.84	5.00	209.		.6	10	0	"
1357	2-26	827A / 844A	"	53.0	92.0	3.42	5.29	315.		.6	10	0	"
1358	2-26	1046A / 1104A	"	52.0	79.9	3.00	5.10	237.		.6	10	0	"
1359	2-27	1050A / 1104A	"	52.0	85.6	2.94	5.10	252.		.6	10	0	"
1360	2-28	907A / 924A	"	52.0	82.2	2.74	5.08	225.		.6	10	0	"
1361	3-1	935A / 1004A	DeVore & Whisler	50.0	74.2	2.30	4.86	171.		.6	11	0	FC 20 FC 26
1362	3-3	1235P / 1251P	Godfrey	51.0	70.5	2.32	4.86	163.		.6	9	+.01	FC 20
1363	3-3	126P / 145P	"	58.0	144.	6.32	6.25	910.		.6	11	+.01	"
1364	3-3	925P / 948P	Godfrey & DeVore	66.0	244.	7.87	7.70	1920.		.6	13	+.02	"
1365	3-5	747A / 808A	Godfrey	62.0	197.	6.14	6.76	1210.		.6	12	0	"
1366	3-5	925A / 942A	Godfrey	59.0	172.	4.88	6.38	840.		.6	12	0	FC 20
1367	3-6	737A / 756A	"	56.0	133.	4.13	5.86	550.		.6	11	0	"
1368	3-8	1134A / 1204P	"	57.0	139.	3.96	5.84	550.		.6	11	0	"
1369	3-9	920A / 934A	"	53.0	113.	3.04	5.49	344.		.6	10	0	"
1370	3-9	1108A / 1124A	"	53.0	110.	2.44	5.26	269.		.6	10	0	"
1371	3-10	930A / 950A	Godfrey & Whisler	52.0	112.	1.99	5.07	223.		.6	13	0	FC 26
1372	3-11	513P / 528P	Godfrey	50.0	86.2	1.26	4.65	109.		.6	12	+.02	"
1373	3-13	319P / 340P	Godfrey & DeVore	49.0	91.4	1.34	4.75	122.		.6	11	0	"
1374	3-17	1043A / 1102A	" "	48.0	71.5	1.02	4.32	72.1		.6	11	0	"
1375	3-20	314P / 335P	Godfrey	48.0	73.5	0.98	4.36	71.8		.6	11	0	"
1376	3-24	1042A / 1105A	"	48.5	73.8	0.97	4.38	71.5		.6	11	0	"
1377	3-27	247P / 306P	"	48.5	75.4	0.90	4.38	67.9		.6	11	0	"
1378	3-31	239P / 302P	"	49.0	73.2	0.95	4.36	69.5		.6	12	0	"
1379	4-4	1133A / 1148A	"	49.0	74.1	0.85	4.32	62.8		.6	14	0	"
1380	4-7	1128A / 1145A	Godfrey & DeVore	48.5	73.2	0.97	4.32	70.8		.6	11	0	"
1381	4-11	1220P / 1240P	" "	48.7	83.6	1.16	4.54	96.8		.6	12	0	"
1382	4-15	1130A / 1152A	Whisler & DeVore	48.5	83.5	1.28	4.52	107.		.6	12	0	"
1383	4-19	1034A / 1111A	" "	49.0	82.4	1.31	4.50	108.		.6	17	0	"
1384	4-22	1045A / 1115A	York & DeVore	48.3	81.3	1.11	4.48	90.1		.6	11	0	"
1385	4-27	949A / 1022A	" "	48.0	73.7	1.09	4.43	80.6		.6	14	0	"
1386	5-1	219P / 305P	" "	48.5	74.6	1.07	4.42	79.6		.6	14	0	"
1387	5-5	223P / 259P	" "	48.2	75.2	1.02	4.38	77.0		.6	13	0	"
1388	5-8	1124A / 1142A	York & DeVore	48.1	71.6	1.13	4.36	81.0		.6	13	0	FC 26
1389	5-12	947A / 1021A	" "	47.0	69.3	0.97	4.30	67.4		.6	14	0	"
1390	5-15	321P / 341P	DeVore	46.9	66.2	0.98	4.27	64.9		.6	13	0	"
1391	5-19	1000A / 1029A	"	46.7	63.0	1.00	4.23	62.7		.6	15	0	FC 20
1392	5-22	1052A / 1116A	DeVore & York	46.5	62.6	1.04	4.20	65.2		.6	15	0	"
1393	5-26	1124A / 1148A	DeVore	46.5	60.8	0.97	4.16	59.2		.6	14	0	FC20
1394	5-28	1030A / 1052A	"	45.6	58.4	1.02	4.12	59.8		.6	14	0	"
1395	6-2	405P / 426P	"	46.7	54.9	0.95	4.07	52.2		.6	13	0	"
1396	6-5	1037A / 1106A	"	46.4	54.5	0.91	4.03	49.4		.6	16	0	"
1397	6-9	210P / 230P	"	29.5	21.8	2.11	3.99	46.0		.6	12	0	"
1398	6-12	1225P / 1251P	"	18.8	20.4	2.10	3.95	42.8		.6	15	0	"
1399	6-16	1050A / 1117A	"	19.1	21.2	1.98	3.92	42.1		.6	15	0	"
1400	6-19	951A / 1017A	"	18.7	20.7	1.96	3.91	40.6		.6	14	0	"
1401	6-23	1015A / 1044A	"	19.0	20.8	1.77	3.88	36.8		.6	15	0	"
1402	6-26	204P / 230P	"	18.4	20.0	1.70	3.83	34.1		.6	15	0	"
1403	6-30	223P / 249P	"	19.0	19.4	1.58	3.80	30.6		.6	15	0	"
1404	7-3	103P / 127P	"	18.2	18.9	1.73	3.78	32.7		.6	15	0	"
1405	7-7	1052P / 1116A	"	17.9	17.0	1.74	3.75	29.6		.6	14	0	"
1406	7-10	1136A / 1200N	"	17.7	17.4	1.68	3.73	29.2		.6	14	0	"
1407	7-14	253P / 315P	"	18.0	17.3	1.61	3.69	27.8		.6	14	0	"
1408	7-17	930A / 945A	Godfrey	18.0	17.6	1.50	3.68	26.4		.6	11	0	"
1409	7-21	920A / 940A	Godfrey	18.0	16.9	1.29	3.59	21.8		.6	12	0	FC 20
1410	7-24	937A / 952A	"	16.2	11.2	0.67	3.29	7.5		.6	8	0	"
1411	7-24	301P / 317P	DeVore	17.0	13.6	1.08	3.48	14.7		.6	10	0	"
1412	7-24	503P / 519P	"	17.2	14.0	1.16	3.51	16.3		.6	10	0	"
1413	7-25	1035A / 1052A	"	17.4	14.6	1.21	3.53	17.6		.6	10	0	"
1414	7-25	1257P / 116P	"	18.0	16.2	1.58	3.62	25.6		.6	12	0	"
1415	7-28	917A / 939A	"	17.8	14.8	1.32	3.54	19.6		.6	13	0	"
1416	7-31	1131A / 1151A	"	17.0	14.0	1.23	3.50	17.2		.6	12	0	"
1417	8-4	959A / 1011A	Godfrey	17.5	14.7	1.01	3.48	14.9		.6	9	0	"
1418	8-7	921A / 936A	"	17.5	14.2	1.11	3.46	15.7		.6	10	0	"
1419	8-9	1130A / 1145A	DeVore	14.2	9.32	0.68	3.22	6.3		.6	9	0	"
1420	8-9	1239P / 1254P	"	16.0	12.0	0.83	3.34	10.0		.6	10	-.01	"
1421	8-10	1117A / 1130A	"	14.9	11.0	0.71	3.27	7.8		.6	8	0	"
1422	8-14	113P / 131P	"	14.9	10.5	0.77	3.26	8.1		.6	11	0	"
1423	8-18	531P / 544P	"	15.3	10.1	1.02	3.33	10.3		.6	9	+.01	"
1424	8-19	1117A / 1134A	"	11.7	8.37	1.08	3.30	9.0		.6	11	0	"
1425	8-21	130P / 147P	"	11.3	8.02	1.04	3.29	8.3		.6	11	0	"
1426	8-23	906A / 918A	"	12.3	10.8	1.59	3.49	17.2		.6	8	+.02	"
1427	8-23	1003A / 1020A	"	12.2	10.7	1.58	3.50	16.3		.6	11	0	"
1428	8-25	940A / 957A	"	12.3	10.7	1.45	3.46	15.5		.6	11	0	"
1429	8-28	259P / 317P	"	12.0	10.5	1.58	3.46	16.0		.6	11	0	"
1430	8-31	943A / 1000A	DeVore	12.1	11.0	1.53	3.48	16.8		.6	11	+.01	FC 20
1431	9-1	413P / 433P	Godfrey	11.9	10.6	1.37	3.48	14.5		.6	11	0	"
1432	9-3	125P / 145P	Whisler	14.5	15.2	2.28	3.81	34.6		.6	9	0	"
1433	9-3	320P / 340P	"	16.0	18.0	2.22	3.94	39.9		.6	11	0	"
1434	9-8	905A / 925A	"	12.2	6.26	0.54	3.08	3.4		.6	10	0	"
1435	9-10	710A / 730A	"	17.5	21.5	2.59	4.20	55.7		.6	10	0	"
1436	9-10	1000A / 1030A	"	49.0	83.8	1.16	4.56	97.6		.6	11	0	"
1437	9-11	1005A / 1030A	Whisler & Barry	49.0	73.8	1.15	4.47	89.7		.6	11	0	"
1438	9-11	715P / 740P	Whisler	16.0	17.7	1.92	3.83	34.0		.6	14	0	"
1439	9-13	1141A / 1203P	DeVore	12.2	7.76	0.65	3.16	5.0		.6	11	0	"
1440	9-16	915A / 935A	"	12.1	6.89	0.59	3.11	4.1		.6	11	+.01	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F209R

Daily discharge, in second-feet of SAN GABRIEL RIVER-WEST FORK Below San Gabriel Dam #2 for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.6	a 0.7	5.9	107	188	68	80	54	32	16.8	a 14.4
2	1.0	0.6	0.7	5.7	384	166	65	80	52	32	16.0	a 13.8
3	1.0	0.6	0.7	6.1	v 366	623	64	80	50	34	15.7	26
4	1.0	0.6	0.7	6.3	17.8	1980	63	79	50	a 32	15.0	38
5	1.0	0.6	0.7	5.9	63	1000	64	76	50	a 31	15.0	37
6	0.9	0.6	0.7	5.5	97	555	68	78	49	a 30	15.4	36
7	0.8	0.6	a 0.7	5.1	95	550	69	79	47	29	15.7	4.5
8	0.8	0.6	a 0.8	5.1	69	545	70	82	46	29	15.0	3.1
9	0.8	0.6	a 0.8	4.8	14.6	372	67	78	46	30	11.0	5.0
10	0.8	0.6	0.8	2.4	14.6	239	79	74	45	30	7.8	72
11	0.9	0.6	0.8	0.8	15.1	187	97	70	43	28	8.1	76
12	0.9	0.6	0.8	0.8	16.2	121	98	67	42	28	8.1	21
13	0.8	0.6	0.8	0.8	17.8	123	101	66	42	28	8.1	b 5.0
14	0.8	0.6	0.8	0.8	20	127	104	66	42	28	8.1	b 4.7
15	0.8	0.6	0.8	0.8	89	86	106	65	42	27	a 8.1	b 4.4
16	0.9	0.6	0.8	0.7	88	67	106	65	42	26	8.1	b 4.1
17	0.9	0.6	0.8	0.8	12.8	72	106	63	42	26	8.1	b 4.0
18	0.9	0.6	0.8	0.8	12.8	75	106	64	41	26	8.6	b 4.0
19	0.9	0.6	0.8	0.8	13.1	73	108	63	40	26	9.3	b 3.9
20	0.8	0.7	0.8	0.8	13.4	72	101	63	39	25	8.8	b 3.8
21	0.8	0.7	0.8	1.3	15.4	70	97	63	38	18.1	8.3	b 3.8
22	0.8	0.7	0.8	250	39	72	90	65	37	11.5	8.3	b 3.7
23	0.7	0.7	0.8	4775	370	72	90	64	36	7.2	13.2	b 3.6
24	0.7	a 0.7	0.8	949	367	70	87	63	35	10.7	16.0	b 3.5
25	0.7	0.7	0.9	1060 e	272	70	84	62	35	21	15.7	b 3.4
26	0.7	a 0.7	0.9	998 e	234	69	82	60	34	24	15.7	b 3.3
27	0.7	a 0.7	0.9	332	244	68	80	58	34	22	16.0	b 3.2
28	0.9	a 0.7	0.9	145	225	69	80	58	32	19.6	a 16.0	b 3.2
29	0.6	0.7	1.0	91 e		68	80	58	31	18.4	a 16.0	b 3.1
30	0.6	0.7	3.2	95		70	82	56	31	17.2	a 16.0	b 3.0
31	0.6		6.2	104		70		56		17.2	16.2	
	25.5	19.1	32.5	8861	3292.6	7989	2562	2101	1247	763.9	384.2	414.5
MEAN	0.82	0.64	1.05	286	118	258	854	67.8	41.6	24.6	12.4	13.8
ACRE-FEET	51	38	64	17580	6530	15840	5080	4170	2470	1520	762	822

Remarks:

YEAR OR PERIOD MEAN 75.9
ACRE-FEET 54930

STATION P3R

SAN GABRIEL RIVER-WEST FORK above Forks

LOCATION:

On the right (south) bank, one-quarter mile above Rincon Ranger Station, 2 miles above East Fork and about 13½ miles north of Azusa.

DRAINAGE AREA:

102 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and boulders.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 15 feet below station.

RECORDER:

Installed December 3, 1930. Removed March 2, 1938. Installed on April 4, 1938, in a temporary recorder house and well at the original location. Removed July 12, 1938, and installed at the temporary station known as Station P3B-R. Removed on September 27, 1938, and reinstalled at original location in a concrete house over a 4 ft. x 4 ft. concrete well.
An Au continuous recorder was in service from October 1, 1942, to September 30, 1943.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 3, 1930, to September 30, 1943.
For records prior to December 3, 1930, on file at Los Angeles County Flood Control District office refer to abandoned Station P1R, San Gabriel River-West Fork ½ mile above Forks; records from July 12, 1938, to September 27, 1938, are from Station P3B-R, San Gabriel River-West Fork 400 feet below North Fork.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 20,000 second-feet, estimated, January 23.
Minimum 6.5 second-feet, October 4, 5, and 6.
1930-1943 (Stations P1R, P3R, P3B-R.)
Maximum 34,000 second-feet, estimated, March 2, 1938.
Minimum 0.3 second-feet, October 17, 1931.

ACCURACY:

Poor due to extreme and undetermined channel shift.

OPERATION:

Moved from a previous location by the District for the Pasadena Water Department. This station was later taken over, reconstructed, and operated by the Los Angeles County Flood Control District in co-operation with the U.S.G.S. Water Resources Branch.

F. C. D. FORM 104 3M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F3R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

XXX above Forks

DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1241	10-1	1120A 1140A	Cooper-Moore	25.2	18.8	0.43	5.60	8.1		.6	9	0	FC 11
1242	10-5	305P 320P	Cooper	25.0	17.9	0.39	5.58	7.0		.6	9	0	"
1243	10-8	325P 341P	"	25.0	18.2	0.42	5.58	7.7		.6	9	0	"
1244	10-12	350A 406A	"	27.0	20.4	0.50	5.66	10.3		.6	9	0	"
1245	10-15	305P 320P	"	25.0	19.3	0.47	5.62	9.0		.6	9	0	"
1246	10-19	245P 300P	"	25.0	18.5	0.45	5.60	8.4		.6	9	0	"
1247	10-22	228P 243P	"	25.0	18.4	0.43	5.59	8.0		.6	9	0	"
1248	10-26	950A 1005A	"	25.0	19.0	0.48	5.62	9.2		.6	9	0	"
1249	10-29	140P 155P	"	25.0	21.4	0.63	5.76	13.4		.6	9	-.01	"
1250	11-5	110P 125P	"	25.0	19.9	0.49	5.65	9.8		.6	9	0	"
1251	11-9	155P 210P	"	25.0	19.5	0.51	5.65	10.0		.6	9	0	"
1252	11-12	1205P 1220P	"	25.0	19.6	0.47	5.64	9.2		.6	9	0	"
1253	11-16	305P 320P	"	25.0	19.8	0.50	5.66	9.9		.6	9	0	"
1254	11-19	1200N 1215P	"	26.0	21.8	0.54	5.72	11.8		.6	9	0	"
1255	11-23	1220P 1236P	"	25.0	20.6	0.53	5.67	10.9		.6	9	0	"
1256	11-25	350P 405P	"	25.0	20.2	0.51	5.67	10.3		.6	9	0	"
1257	11-30	1210P 1225P	"	26.0	20.5	0.54	5.67	11.0		.6	9	0	"
1258	12-3	1215P 1230P	"	26.0	20.4	0.54	5.68	11.2		.6	9	0	"
1259	12-7	1240P 1255P	"	26.0	21.3	0.57	5.70	12.2		.6	9	0	"
1260	12-10	110P 125P	"	25.0	21.3	0.52	5.70	11.2		.6	9	0	"
1261	12-14	135P 150P	"	25.0	20.8	0.52	5.69	10.9		.6	9	0	"
1262	12-17	1225P 1240P	"	25.0	21.0	0.53	5.70	11.1		.6	9	0	"
1263	12-21	1255P 110P	"	25.0	21.1	0.52	5.72	11.0		.6	9	0	"
1264	12-23	335P 350P	"	25.0	21.6	0.52	5.72	11.1		.6	9	0	"
1265	12-28	305P 320P	Cooper	26.0	22.9	0.47	5.77	10.8		.6	9	0	FC 11
1266	12-31	220P 235P	"	27.0	25.6	0.68	5.86	17.4		.6	9	0	"
1267	1-4	120P 135P	"	27.0	25.5	0.67	5.86	17.2		.6	9	0	"
1268	1-8	245P 300P	"	27.0	24.6	0.68	5.83	16.6		.6	9	0	"
1269	1-11	1140A 1155A	"	27.0	22.5	0.48	5.75	10.8		.6	9	0	"
1270	1-15	145P 200P	"	27.0	22.0	0.49	5.72	10.8		.6	9	0	"
1271	1-18	215P 230P	"	27.0	22.0	0.50	5.73	11.1		.6	9	0	"
1272	1-21	135P 150P	Middleton-Snyder	27.0	21.7	0.56	5.75	12.2		.6	10	0	FC 36
1273	1-21	735P 748P	" "	28.5	25.8	0.80	5.93	20.6		.6	11	+.01	"
1274	1-21	932P 948P	" "	33.0	29.5	1.07	6.06	31.4		.6	14	+.03	"
1275	1-21	1102P 1126P	" "	38.0	36.7	1.31	6.25	48.2		.6	15	+.08	"
1276	1-22	1219A 1235A	" "	44.0	46.9	1.71	6.50	80.2		.6	13	+.08	"
1277	1-22	200A 220A	" "	56.0	96.0	2.84	7.35	272.		.6	12	+.40	"
1278	1-22	605A 625A	" "	67.0	198.	10.4	10.40	2060.		.6	9	+.20	"
1279	1-22	720A 755A	" "	67.0	242.	8.80	10.40	2120.		.6	9	-.20	"
1280	1-22	950A 1010A	" "	70.0	262.	7.00	10.50	1840.		.6	8	+.20	"
1286	1-25	1140A 1155A	Middleton & Cooper	108.0	124.	7.81	15.78	968.		.6	11	-.03	"
1287	1-26	1201P 1225P	Middleton	100.0	149.	8.68	15.42	1290.		.6	11	-.02	"
1288	1-27	1110A 1140A	"	85.0	126.	7.11	14.55	897.		.6	11	+.10	"
1289	1-31	305P 325P	Middleton	Two Channels			14.96	411.		.6	12	+.01	FC 18
1290	2-1	1055A 1115A	"	"	"		14.86	409.		.6	11	-.02	"
1291	2-4	1040A 1100A	"	63.0	49.0	4.57	14.03	224.		.6	14	+.02	"
1292	2-5	1020A 1040A	"	65.0	53.9	3.81	14.08	205.		.6	14	0	"
1293	2-8	1005A 1027A	"	83.5	78.6	3.75	14.18	295.		.6	14	-.01	"
1294	2-10	1100A 1120A	"	60.0	47.8	3.10	13.94	148.		.6	13	0	"
1295	2-11	211P 228P	"	59.5	45.8	2.93	13.92	134.		.6	12	0	"
1296	2-15	132P 152P	"	35.5	41.5	2.58	13.87	107.		.6	12	0	"
1297	2-19	440P 500P	"	45.0	35.1	2.90	13.47	102.		.6	12	0	"
1298	2-21	255P 315P	"	72.0	71.0	5.08	14.01	361.		.6	12	+.04	"
1299	2-21	400P 412P	"	84.0	101.	5.30	14.25	536.		.6	10	+.06	"
1300	2-22	248P 300P	"	96.0	195.	10.5	14.86	2040.		.6	10	-.04	"
1301	2-22	358P 410P	"	90.0	160.	8.94	14.58	1430.		.6	9	-.04	"
1302	2-24	1035A 1055A	"	97.0	170.	8.47	14.11	1440.		.6	11	-.03	"
1303	2-24	1158A 1220P	"	95.0	147.	8.18	14.09	1210.		.6	11	-.02	"
1304	2-25	1022A 1044A	"	92.0	126.	8.23	13.89	1030.		.6	15	+.02	"
1305	2-26	1055A 1121A	"	96.0	117.	6.94	14.21	813.		.6	17	0	"
1306	3-1	1025A 1045A	"	61.0	107.	5.54	13.78	595.		.6	12	-.01	"
1307	3-3	440P 456P	"	103.0	218.	8.48	14.46	1850.		.6	11	0	"
1308	3-4	1035A 1055A	"	106.0	380.	11.1	14.04	4200.		.6	10	+.04	"
1309	3-5	1048A 1118A	"	81.0	285.	8.78	12.58	2500.		.6	14	-.01	"
1310	3-5	1240P 106P	"	78.0	283.	8.17	12.51	2310.		.6	14	-.02	"
1311	3-7	325P 345P	"	60.0	199.	6.98	10.07	1390.		.6	11	-.02	"
1312	3-8	1048A 1108A	"	59.0	194.	6.60	9.80	1280.		.6	11	-.02	"
1313	3-10	1147A 1207P	Middleton	55.0	146.	5.56	9.08	814.		.6	11	0	FC 18
1314	3-12	1013A 1033A	"	52.0	123.	5.36	8.70	658.		.6	11	0	"
1315	3-15	903A 923A	"	50.0	117.	4.69	8.49	548.		.6	10	0	"
1316	3-15	1120A 1140A	"	49.0	97.8	4.72	8.32	462.		.6	10	-.02	"
1317	3-18	1038A 1100A	"	49.0	93.0	4.51	8.19	419.		.6	9	0	"
1318	3-19	1007A 1025A	"	46.0	94.7	4.24	8.12	402.		.6	9	0	"
1319	3-22	1006A 1018A	"	45.0	88.0	3.83	8.01	337.		.6	9	0	"
1320	3-26	1044A 1100A	"	44.0	80.9	3.77	7.86	305.		.6	9	0	"
1321	3-29	942A 1000A	"	45.0	76.5	3.55	7.79	272.		.6	9	0	"
1322	4-2	1056A 1114A	"	44.0	70.5	3.53	7.67	249.		.6	9	-.01	"
1323	4-5	1038A 1052A	"	43.0	71.6	3.38	7.60	242.		.6	9	0	"
1324	4-9	1008A 1026A	"	45.0	75.8	3.47	7.67	263.		.6	9	0	"
1325	4-12	1017A 1033A	"	45.0	76.4	3.56	7.70	272.		.6	9	0	"
1326	4-16	1017A 1035A	"	44.5	73.2	3.46	7.63	253.		.6	9	0	"
1327	4-19	1006A 1020A	"	43.5	69.4	3.32	7.57	230.		.6	9	0	"
1328	4-23	1037A 1053A	"	42.5	67.4	3.23	7.50	218.		.6	9	0	"
1329	4-26	1025A 1043A	"	41.5	67.8	3.18	7.48	215.		.6	9	0	"
1330	4-30	1103A 1123A	"	43.0	73.1	2.44	7.42	178.		.6	13	0	"
1331	5-3	1118A 1136A	"	38.5	57.0	3.16	7.39	180.		.6	10	0	"
1332	5-7	1105A 1121A	"	42.0	70.6	2.44	7.35	172.		.6	13	0	"
1333	5-10	640P 700P	"	41.0	68.2	2.18	7.26	149.		.6	14	-.01	"
1334	5-14	942A 958A	"	41.5	67.7	2.10	7.25	142.		.6	14	0	FC 11
1335	5-17	1007A 1027A	"	40.6	66.9	2.15	7.23	144.		.6	14	0	FC 18
1336	5-21	250P 310P	"	39.4	62.5	2.16	7.15	135.		.6	14	0	"

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P3R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - WEST FORK

XXX above Forks

DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1337	5-25	310P / 330P	Middleton	40.4	61.7	2.08	7.11	128.		.6	14	0	FC 18
1338	5-28	938A / 957A	"	40.5	62.4	2.00	7.10	125.		.6	14	+.01	"
1339	6-1	245P / 305P	"	40.1	61.3	1.92	7.06	118.		.6	14	0	"
1340	6-4	945A / 1005A	"	39.8	59.0	1.82	7.04	107.		.6	13	0	"
1341	6-7	1040A / 1100A	"	39.8	58.9	1.78	7.00	105.		.6	14	0	"
1342	6-11	920A / 940A	"	40.2	56.6	1.80	6.95	102.		.6	14	0	"
1343	6-14	412P / 432P	"	39.2	55.1	1.75	6.91	96.5		.6	13	0	"
1344	6-18	905A / 925A	"	39.0	53.4	1.73	6.87	92.5		.6	13	0	"
1345	6-21	1020A / 1040A	"	38.5	52.4	1.69	6.84	88.6		.6	13	0	"
1346	6-25	220P / 240P	"	38.2	49.6	1.60	6.78	79.4		.6	13	0	"
1347	6-28	200P / 220P	"	37.9	47.6	1.58	6.75	75.4		.6	13	0	"
1348	7-2	220P / 240P	"	37.8	48.2	1.52	6.74	73.2		.6	13	0	"
1349	7-6	1002A / 1022A	"	37.0	46.2	1.53	6.72	70.8		.6	13	0	"
1350	7-9	910A / 930A	"	37.5	45.4	1.42	6.69	64.5		.6	13	0	"
1351	7-12	935A / 955A	"	37.0	44.9	1.39	6.65	62.4		.6	13	0	"
1352	7-16	950A / 1010A	"	30.5	31.1	1.74	7.53	54.1		.6	11	0	"
1353	7-17	900A / 920A	"	36.5	43.2	1.24	6.66	53.4		.6	12	0	"
1354	7-19	250P / 310P	"	36.5	43.1	1.23	6.62	53.2		.6	13	0	"
1355	7-22	300P / 320P	"	35.0	38.4	1.08	6.50	41.6		.6	12	0	"
1356	7-23	925A / 945A	"	34.7	36.3	1.01	6.44	36.6		.6	12	0	"
1357	7-24	542P / 600P	"	34.5	34.7	0.97	6.39	33.5		.6	13	0	"
1358	7-26	205P / 225P	"	35.5	40.6	1.08	6.56	43.7		.6	13	0	"
1359	7-30	1150A / 1210P	Middleton	35.5	39.2	0.99	6.50	38.7		.6	13	0	FC 18
1360	8-2	250P / 310P	"	35.0	37.1	1.12	6.48	41.6		.6	13	0	FC 1
1361	8-6	250P / 310P	Middleton	34.8	36.9	1.04	6.47	38.5		.6	13	0	FC 1
1362	8-9	305P / 325P	Godfrey & Middleton	34.4	36.1	0.90	6.42	32.6		.6	13	0	"
1363	8-9	650P / 710P	Middleton	34.5	34.0	0.87	6.38	29.6		.6	12	0	"
1364	8-13	232P / 248P	Godfrey & Middleton	33.7	33.0	0.82	6.35	27.2		.6	12	0	"
1365	8-16	245P / 308P	Godfrey	33.5	31.8	0.82	6.34	26.0		.6	12	0	"
1366	8-20	330P / 350P	"	34.0	32.8	0.85	6.34	27.9		.6	12	0	"
1367	8-23	937A / 958A	"	34.0	33.8	0.81	6.37	27.3		.6	12	0	"
1368	8-24	256P / 316P	"	35.0	36.5	0.90	6.45	32.8		.6	12	0	"
1369	8-28	940A / 1004A	"	35.0	37.0	0.91	6.45	33.8		.6	12	0	"
1370	8-30	1130A / 1152A	Middleton	34.8	35.7	0.99	6.44	35.5		.6	13	0	"
1371	9-2	540P / 600P	"	35.0	35.7	0.93	6.41	33.3		.6	12	0	FC 1
1372	9-4	1137A / 1201P	"	36.5	44.6	1.30	6.72	58.1		.6	14	0	"
1373	9-7	945A / 1005A	"	34.5	33.8	0.92	6.38	31.1		.6	12	-.01	"
1374	9-10	1140A / 1201P	"	37.0	50.5	1.45	6.83	73.1		.6	14	+.02	"
1375	9-10	220P / 240P	"	39.0	62.2	1.82	7.11	113.		.6	14	0	"
1376	9-13	1105A / 1125A	"	33.0	30.3	0.84	6.30	25.3		.6	12	0	"
1377	9-16	1133A / 1153A	"	33.0	28.8	0.78	6.25	22.6		.6	12	0	"
1378	9-20	1205P / 1225P	"	32.5	28.8	0.70	6.22	20.2		.6	12	0	FC 1
1379	9-24	925A / 945A	"	32.6	28.6	0.71	6.20	20.3		.6	12	0	FC 1
1380	9-27	250P / 310P	"	33.3	29.8	0.76	6.25	22.6		.6	12	0	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P3-R

Daily discharge, in second-feet of SAN GABRIEL RIVER-WEST FORK Above Forks, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	75	95	11	17	v 350	533	258	180	118	73	39	35
2	75	9	11	17	v 450	v 460	250	180	114	73	41	34
3	75	95	11	17	v 700	v1200	243	180	111	73	42	40
4	7	95	11	17	v 220	v4150	235	180	107	72	41	58
5	65	95	12	17	v 210	v2750	234	176	105	71	40	56
6	7	95	12	16	v 280	1680	264	174	104	70	39	54
7	75	95	12	16	v 260	1380	238	170	104	67	38	34
8	75	95	12	17	v 270	1260	249	164	104	65	36	22
9	75	95	11	a 15	v 150	1040	240	158	102	63	32	21
10	8	95	11	a 13	v 130	847	241	152	102	62	29	72
11	85	95	11	a 11	v 120	760	253	150	101	62	28	105
12	10	95	11	11	v 110	v 590	248	147	102	61	27	51
13	95	95	11	11	v 100	v 550	243	145	102	60	26	26
14	9	95	11	11	v 100	v 520	238	143	100	60	26	23
15	85	9	11	11	v 130	v 465	235	143	96	b 59	26	22
16	85	95	11	11	v 210	v 400	233	143	94	b 58	26	21
17	8	95	11	11	123	423	228	143	92	56	26	21
18	8	95	11	11	110	423	220	143	90	56	26	20
19	8	11	11	12	106	401	216	141	88	54	28	20
20	8	10	11	12	101	370	214	141	87	54	28	20
21	75	10	11	17	360v	351	211	139	86	48	27	19
22	75	10	11	4580v	1050v	338	207	136	84	41	27	19
23	85	11	11	11300v	1390v	323	202	134	82	36	29	19
24	85	11	14	2100v	1240v	314	200	131	80	36	32	21
25	9	10	21	1450v	1120v	308	198	129	79	43	32	24
26	9	10	15	1400v	780v	302	195	129	78	44	32	23
27	9	10	13	800v	670v	288	191	127	77	44	32	22
28	14	11	11	450v	600v	280	189	124	76	42	32	22
29	14	11	11	340v		269	187	121	76	40	33	22
30	11	11	12	360v		266	180	119	74	38	35	22
31	95		16	400v		261		118		38	35	
	276.0	370		11440		6740		2815		990		
	296.0		23471		235.02		4560		1719		968	
MEAN	8.61	9.87	11.9	757.	409.	758.	225.	147.	93.8	55.5	31.9	32.3
ACRE-FEET	530.	587.	734.	46550.	22690.	46620.	13370.	9045.	5583.	3410.	1964.	1920.

Remarks:

YEAR OR PERIOD — MEAN 211. — ACRE-FEET 153000.

STATION P4B-R

SAN GABRIEL RIVER-EAST FORK above Forks

LOCATION:

On the right (north) bank above the high water line of San Gabriel Dam No. 1, 2½ miles above the West Fork, and 8 miles northeast of Glendora. Former station P4R was about 1,500 feet downstream.

DRAINAGE AREA:

88.2 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and boulders.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 23 feet above gage.

RECORDER:

Installed November 30, 1932, at Station P4R. Moved to Station P4B-R December 10, 1938, and installed in a concrete house over a 4 ft. x 4 ft. concrete stilling well.
An Au continuous recorder was in service from October 1, 1941, to September 30, 1943.

REGULATION:

None.

DIVERSIONS:

Some water diverted for placer mining.

RECORDS AVAILABLE:

At Station P4R and P4B-R, November 30, 1932 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 25,000 second-feet, estimated, January 23.
Minimum 10. second-feet, several days in October.
1932-1943
Maximum 46,000 second-feet, estimated by U.S.G.S. March 2, 1938.
Minimum 1.5 second-feet, October 1, 1934.

ACCURACY:

Poor due to extreme and undetermined channel shift.

OPERATION:

Moved from a previous location by the District for the Pasadena Water Department.
The Station was later taken over, reconstructed and operated by the District in co-operation with the U.S.G.S. Water Resources Branch.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P4B-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - EAST FORK

at Forks above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
947	10-1	130P / 150P	Cooper & Moore	21.2	15.3	0.88	5.85	13.4		.6	8	0	FC 29
948	10-5	135P / 150P	Cooper	21.1	14.6	0.91	5.85	13.2		.6	8	0	"
949	10-8	120P / 135P	"	21.1	14.4	0.86	5.85	12.4		.6	8	0	"
950	10-12	350P / 405P	"	21.4	15.6	0.92	5.89	14.3		.6	8	0	"
951	10-15	1058A / 1114A	"	21.3	15.2	0.91	5.86	13.9		.6	8	0	"
952	10-19	105P / 120P	"	21.1	15.0	0.85	5.84	12.8		.6	8	0	"
953	10-22	1250P / 105P	"	21.1	14.5	0.82	5.83	11.8		.6	8	0	"
954	10-26	1125A / 1140A	"	21.0	14.8	0.84	5.84	12.4		.6	8	0	"
955	10-28	550P / 610P	Middleton	22.3	19.2	1.24	6.01	23.9		.6	10	0	"
956	10-29	1120A / 1135A	Cooper	21.4	16.4	0.93	5.91	15.2		.6	8	0	"
957	11-2	330P / 350P	"	21.0	15.1	0.85	5.85	12.8		.6	8	0	"
958	11-5	1120A / 1135A	Cooper	21.2	15.6	0.89	5.86	13.8		.6	8	0	FC 29
959	11-9	1210P / 1225P	"	21.2	15.3	0.88	5.86	13.4		.6	8	0	"
960	11-12	1040A / 1055A	"	21.2	15.1	0.85	5.85	12.9		.6	8	0	"
961	11-16	1235P / 1250P	"	21.2	15.5	0.86	5.86	13.4		.6	8	0	"
962	11-19	120P / 135P	"	22.0	18.1	1.27	5.98	23.0		.6	8	0	"
963	11-23	1045A / 1100A	"	21.5	15.8	0.88	5.88	13.9		.6	8	0	"
964	11-25	200P / 215P	"	21.2	15.6	0.86	5.87	13.4		.6	8	0	"
965	11-30	1105A / 1120A	"	21.1	15.3	0.85	5.86	13.1		.6	8	0	"
966	12-3	1015A / 1030A	"	21.0	15.7	0.87	5.86	13.6		.6	8	0	"
967	12-7	1120A / 1135A	"	21.3	15.9	0.88	5.86	14.0		.6	8	0	"
968	12-10	1115A / 1130A	"	21.3	15.9	0.91	5.87	14.6		.6	8	0	"
969	12-14	1215P / 1230P	Cooper	21.3	16.0	0.85	5.86	13.6		.6	8	0	FC 29
970	12-17	1035A / 1050A	"	21.3	15.6	0.86	5.85	13.4		.6	8	0	"
971	12-21	1125A / 1140A	"	21.3	16.1	0.91	5.86	14.6		.6	8	0	"
972	12-23	215P / 230P	"	21.3	15.6	0.87	5.86	13.5		.6	8	0	"
973	12-28	140P / 155P	"	21.4	15.9	1.06	5.90	16.8		.6	8	0	"
974	12-31	1115A / 1130A	"	21.3	16.0	1.01	5.88	16.2		.6	8	0	"
975	1-4	1210P / 1225P	"	21.3	15.9	0.96	5.87	15.3		.6	8	0	"
976	1-8	150P / 205P	"	21.3	16.0	0.92	5.86	14.7		.6	8	0	"
977	1-15	1055A / 1110A	"	21.3	16.6	0.86	5.85	14.2		.6	8	0	"
978	1-18	1215P / 1230P	"	21.3	14.7	0.98	5.86	14.4		.6	8	0	"
979	1-21	235P / 250P	Middleton & Snyder	21.0	15.5	1.07	5.90	16.6		.6	12	+.01	FC 36
980	1-21	505P / 520P	" "	21.3	16.5	1.07	5.93	17.6		.6	12	+.01	"
981	1-28	315P / 340P	Cooper	Two Channels			6.94	400.		.6	12	0	FC 29
982	2-5	255P / 330P	Middleton	Three Channels			8.26	260.		.6	13	0	"
983	2-8	120P / 150P	"	Two Channels			8.84	220.		.6	16	0	"
984	2-11	1155A / 1215P	"	49.0	37.1	6.07	8.24	225.		.6	10	-.01	"
985	2-15	1110A / 1134A	"	Two Channels			7.54	191.		.6	13	-.01	"
986	2-19	120P / 140P	"	"	"		7.83	146.		.6	15	0	"
987	2-21	1118A / 1130A	"	"	"		8.01	288.		.6	8	-.04	"
988	2-25	242P / 308P	"	"	"		9.85	582.		.6	11	-.02	"
989	2-26	252P / 314P	Middleton	Two Channels			10.66	558.		.6	11	0	FC 29
990	3-1	234P / 305P	"	Three Channels			10.19	428.		.6	17	-.10	"
991	3-7	945A / 1010A	"	Two Channels			--	829.		.6	14	--	"
992	3-7	1235P / 1257P	"	"	"		9.43	848.		.6	12	-.02	"
993	3-8	217P / 237P	"	"	"		9.47	757.		.6	14	0	"
994	3-12	254P / 320P	"	"	"		9.11	611.		.6	12	+.02	"
996	3-19	227P / 245P	"	"	"		8.58	379.		.6	7	-.01	"
997	3-22	140P / 152P	Middleton & van der Goot	"	"		8.43	317.		.6	6	+.01	"
998	3-26	250P / 305P	Middleton	29.0	44.6	5.87	8.28	262.		.6	7	0	"
999	3-29	230P / 244P	"	34.0	48.2	5.73	8.27	276.		.6	7	0	"
1000	4-2	228P / 240P	"	30.0	45.7	4.75	8.19	217.		.6	7	0	"
1001	4-5	244P / 300P	"	32.0	47.8	4.25	8.20	203.		.6	8	0	"
1002	4-9	205P / 221P	"	34.0	52.9	4.52	8.22	239.		.6	8	0	"
1003	4-12	307P / 323P	"	30.0	46.1	4.58	8.14	211.		.6	7	0	"
1004	4-16	215P / 235P	"	30.5	41.7	5.03	8.10	210.		.6	8	0	"
1005	4-19	133P / 145P	Middleton & Platford	31.0	43.4	4.72	8.12	205.		.6	8	0	"
1006	4-23	220P / 240P	Middleton	31.0	47.3	4.71	8.13	223.		.6	8	0	"
1007	4-26	127P / 141P	"	30.0	44.5	5.08	8.13	226.		.6	8	0	"
1008	4-30	242P / 304P	"	50.0	58.6	3.69	8.12	216.		.6	13	0	"
1009	4-30	316P / 334P	"	30.0	45.0	4.71	8.12	212.		.6	8	0	"

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P4B-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER - EAST FORK

xxx above Forks

DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1010	5-3	200P 224P	Middleton	54.0	50.1	3.81	8.07	191.		.6	13	0	FC 29
1011	5-7	235P 255P	"	36.0	41.1	3.98	8.04	164.		.6	13	-.01	"
1012	5-10	1147A 1207P	"	34.3	38.9	4.32	7.99	168.		.6	11	-.02	"
1013	5-14	1144A 1204P	"	33.5	39.2	4.09	7.94	160.		.6	12	0	"
1014	5-17	1205P 1225P	"	33.1	36.6	4.01	7.88	147.		.6	12	0	"
1015	5-21	1120A 1140A	"	32.7	35.7	4.00	7.82	143.		.6	11	0	"
1016	5-25	1135A 1155A	"	33.0	36.5	3.73	7.84	136.		.6	12	0	"
1017	5-28	1145A 1205P	"	31.6	36.3	3.64	7.80	132.		.6	12	0	"
1018	6-1	1115A 1135A	"	32.1	35.4	3.62	7.79	128.		.6	12	0	"
1019	6-4	1135A 1155A	"	31.6	36.0	3.31	7.76	119.		.6	11	0	"
1020	6-7	235P 255P	"	30.7	33.8	3.23	7.70	109.		.6	12	0	"
1021	6-11	1110A 1130A	"	31.1	32.9	3.32	7.69	109.		.6	12	0	"
1022	6-14	1050A 1110A	"	30.8	31.7	3.34	7.69	106.		.6	11	0	"
1023	6-18	1110A 1130A	"	30.3	31.3	3.03	7.63	95.0		.6	11	0	"
1024	6-21	100P 120P	"	30.5	32.0	2.51	7.61	80.3		.6	11	-.01	"
1025	6-25	1035A 1055A	"	30.5	31.2	2.21	7.60	69.0		.6	11	0	"
1026	6-28	1015A 1035A	"	30.3	30.2	2.31	7.58	69.6		.6	11	0	"
1027	7-2	1100A 1120A	"	28.5	23.7	2.71	7.54	64.0		.6	10	0	"
1028	7-6	1130A 1150A	"	28.5	22.9	2.76	7.52	63.3		.6	11	0	"
1029	7-9	235P 255P	"	29.6	27.0	2.34	7.47	63.2		.6	11	0	"
1030	7-12	1140A 1202P	"	30.0	28.2	2.07	7.46	58.3		.6	11	0	"
1031	7-16	1145A 1205P	Middleton	29.7	27.0	1.83	7.45	49.3		.6	11	0	FC 29
1032	7-19	1110A 1130A	"	29.5	26.3	2.00	7.42	52.7		.6	10	0	"
1033	7-23	1215P 1235P	"	27.0	34.2	1.35	7.82	46.3		.6	10	0	"
1034	7-26	1000A 1020A	"	25.5	27.3	1.66	7.80	45.4		.6	13	0	"
1035	7-30	950A 1010A	"	25.5	27.2	1.58	7.78	43.0		.6	13	0	"
1036	8-2	1040A 1100A	"	25.5	26.6	1.65	7.75	43.8		.6	13	0	"
1037	8-6	1010A 1030A	"	25.4	27.1	1.68	7.76	45.5		.6	14	0	"
1038	8-9	1045A 1102A	Middleton & Godfrey	25.0	25.4	1.54	7.73	39.2		.6	13	0	"
1039	8-13	1104A 1120A	" "	25.0	25.0	1.57	7.70	39.2		.6	13	0	"
1040	8-16	1129A 1147A	Godfrey	24.8	24.6	1.44	7.68	35.4		.6	12	0	"
1041	8-20	1122A 1145A	"	24.5	24.5	1.49	7.65	36.4		.6	13	0	"
1042	8-23	1133A 1153A	"	24.5	23.7	1.47	7.64	34.8		.6	12	0	FC 11
1043	8-27	1130A 1150A	"	24.5	23.1	1.46	7.60	33.7		.6	13	0	FC 29
1044	8-30	405P 425P	Middleton	23.6	21.2	1.51	7.54	32.0		.6	12	0	"
1045	9-2	250P 310P	"	23.7	21.0	1.41	7.53	29.7		.6	12	0	FC 11
1046	9-7	1125A 1145A	"	23.8	20.8	1.50	7.54	31.3		.6	12	0	FC 29
1047	9-10	948A 1006A	"	23.5	21.0	1.53	7.53	32.2		.6	12	0	"
1048	9-13	205P 225P	"	23.5	20.2	1.40	7.47	28.3		.6	13	0	"
1049	9-16	1020A 1040A	"	23.1	20.1	1.45	7.48	29.2		.6	12	0	"
1050	9-20	1055A 1115A	"	23.0	20.0	1.35	7.46	27.0		.6	12	0	FC 11
1051	9-24	1130A 1150A	"	23.1	20.2	1.44	7.45	29.1		.6	12	0	FC 18
1052	9-27	1050A 1110A	"	23.0	21.1	1.42	7.47	29.8		.6	12	0	"

F.C. Dist. Form 53 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No P4B-R

Daily discharge, in second-feet of SAN GABRIEL-EAST FORK Above Forks, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	14	13	13	16	v 325	434	228	212	125	64	42	32
2	14	13	13	16	v 290	v 400	219	202	125	62	43	32
3	13	13	14	16	v 295	v 640	212	193	120	62	43	31
4	12	14	14	15	v 260	v2300	206	190	118	62	44	30
5	12	14	14	15	v 250	v1500	214	180	114	62	44	30
6	12	14	14	15	v 240	v1100	242	168	112	60	43	30
7	12	14	14	15	v 230	v 950	216	162	108	60	42	30
8	12	14	15	15	v 220	v 770	246	170	106	62	40	30
9	12	13	15	15	v 210	v 720	242	170	106	64	38	30
10	12	13	15	15	v 200	v 680	225	165	104	64	37	30
11	12	12	14	15	v 190	v 630	216	160	106	60	37	29
12	15	12	14	15	v 180	v 580	216	160	110	58	37	28
13	14	12	14	15	v 175	v 540	212	160	108	56	37	28
14	14	12	13	15	v 175	v 500	209	160	104	55	37	28
15	13	12	13	14	v 175	v 470	212	155	98	55	35	28
16	12	14	14	14	v 180	v 440	212	152	96	55	34	28
17	12	14	14	14	v 170	v 420	212	148	94	53	34	27
18	13	14	14	14	v 160	v 400	212	145	92	53	35	27
19	13	20	14	14	v 145	377	209	145	88	51	35	26
20	12	19	15	14	v 150	365	212	145	82	48	35	26
21	11	16	15	21	v 250	353	209	142	80	46	35	26
22	11	15	14	v3000	v 950	322	209	135	78	42	34	27
23	12	14	14	v5800	v 830	300	216	132	76	45	34	28
24	12	14	17	v1000	v 700	281	219	132	72	44	33	29
25	13	14	41	v 500	625	274	222	132	68	43	33	30
26	12	14	20	v 460	560	266	212	132	68	43	33	30
27	12	14	19	v 430	510	266	212	130	68	43	32	30
28	18	14	17	v 400	479	270	212	128	68	42	32	29
29	15	14	16	v 350		278	216	125	66	41	32	28
30	14	13	17	v 350		266	212	125	66	41	32	28
31	14		16	v 400		246		120		41	32	
	399	418	486	13008	9124	17338	6511	4775	2826	1637	1134	865
MEAN	12.9	13.9	15.7	420.	326.	559.	217.	154.	94.2	52.8	36.6	28.8
ACRE-FEET	791.	829.	964.	25800.	18100.	34390.	12910.	9470.	5610.	3250.	2250.	1720.

Remarks:

YEAR OR PERIOD MEAN 160.
ACRE-FEET 116100.

STATION F250R

SAN GABRIEL - AZUSA CONDUIT

at Weir below San Gabriel Dam No. 1

LOCATION:

On the left (east) side of the sandbox on Azusa Conduit, 12 feet above the 25 foot weir and approximately 100 feet below the 30 foot outlet tunnel at San Gabriel Dam No. 1; approximately 2500 feet below the Old Edison Intake (abandoned), and approximately 3900 feet above Station F220R.

CHANNEL AND CONTROL:

Channel-concrete sandbox with sluice gates and a concrete by-pass channel. A secondary box with a Taintor gate and a 10 foot weir controls the flow into the conduit.
Control-25 foot sharp crested weir with two end contractions.
Station F250R gives a record of the head on 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, over a 24 inch corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

The flow of the San Gabriel River, available at San Gabriel Dam No. 1 is partially regulated by San Gabriel Dam No. 2, and the entire flow into the sandbox is regulated by valve discharge from San Gabriel Dam No. 1.

RECORDS AVAILABLE:

February 14, 1935 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 127 second-feet, May 24.
Minimum no flow various times.
1935-1943
Maximum 155 second-feet, April 8, 1935.
Minimum no flow at times each year.

ACCURACY:

Excellent.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District in co-operation with the Pasadena Water Department.

REMARKS:

Station F250R is a record of discharges from San Gabriel Dam No. 1 through the sand box only and does not necessarily reflect discharge to the Azusa Conduit (see Station F220R).

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F250-R

Daily discharge, in second-feet of SAN GABRIEL -AZUSA CONDUIT at Weir below San Gabriel Dam #1, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	25	29	88	92	94	92	101	0	0	0
2	0	0	25	29	89	92	94	92	89	0	0	0
3	0	0	26	29	85	92	94	91	94	0	0	0
4	0	16.3	26	30	90	93	93	88	103	0	0	0
5	0	24	26	29	90	91	93	90	101	0	0	0
6	0	25	26	29	90	92	94	92	99	0	0	0
7	0	24	26	29	90	91	94	91	99	0	0	0
8	0	23	26	29	90	91	94	91	102	0	0	0
9	0	23	26	29	92	91	94	94	103	0	0	0
10	0	23	26	29	91	91	93	93	105	0	0	0
11	0	23	27	29	93	92	93	93	106	0	0	6.8
12	21	23	28	29	93	91	93	91	105	0	0	23
13	12.6	23	28	28	93	91	93	91	105	0	0	28
14	0	23	28	27	93	91	92	91	105	0	0	16.2
15	0	23	28	27	93	91	92	a 91	103	0	0	33
16	0	23	28	28	92	91	93	a 91	99	0	0	57
17	0	23	28	28	92	90	92	a 90	100	0	0	57
18	0	22	28	27	93	91	91	90	101	0	0	51
19	0	22	28	26	93	92	91	91	101	0	0	45
20	0	23	28	26	92	91	92	32	99	0	0	45
21	0	23	27	26	92	91	92	0	54	0	0	45
22	0	23	27	66	93	91	92	0	0.2	0	0	45
23	0	23	27	112	91	92	91	0	0	0	0	45
24	0	23	26	0.5	90	92	91	22	0	0	0	45
25	0	23	45	0.3	90	92	92	101	0	0	0	45
26	0	23	43	54	90	92	92	102	0	0	0	45
27	0	25	34	87	92	93	92	103	0	0	0	45
28	0	25	34	87	93	92	92	101	0	0	0	45
29	0	25	34	87		93	92	99	0	0	0	45
30	0.2	25	31	87		94	93	101	0	0	0	45
31	0		29	88		94		101		0	0	
	33.8		894		2553		2778		2074.2	0	0	
		624.3		1160		2843		2495				812.0
Mean	1.09	20.8	28.8	37.4	91.2	91.7	92.6	80.5	69.1	0	0	27.1
Acre-Feet	67.	1240.	1770.	2300.	5060.	5640.	5510.	4950.	4110.	0	0	1610.

Remarks:

Year or Period — Mean 44.6 — Acre Feet 32250.

STATION F220R

SAN GABRIEL - AZUSA CONDUIT at Garcia Canyon

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 3/4 mile below San Gabriel Dam No. 1, and 2 miles above Morris Dam.

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 may be by-passed around the 25 foot weir at Station F250R.

DISCHARGE MEASUREMENTS:

From top of tunnel portal.

RECORDER:

Installed February 26, 1933 over a 21 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

RECORDS AVAILABLE:

February 26, 1933 to September 30, 1943.
(See "Recorder") (See Remarks)

EXTREMES OF DISCHARGE:

1942-1943
Maximum 94 second-feet, various days.
Minimum 0.1 at various times.
1933-1943
Maximum 100 second-feet, April 11, 1935.
Minimum not determined.

ACCURACY:

Excellent.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District in co-operation with the Pasadena Water Department.

REMARKS:

The Azusa Conduit was inoperative from March 2, 1938 to March 27, 1940. Intake to the Azusa Conduit was at Morris Dam from March 1, 1941 to November 19, 1941. Published herewith are the records of diversion from Morris Reservoir. These records together with Station F220R complete the records of the annual diversion through the conduit.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F220-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL - AZUSA CONDUIT

AT Garcia Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METER OD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
		1150A											
266	11-6	1210P	Cooper	4.6	7.12	3.52	1.55	25.6		.6	10	0	FC 11
		1135A	Cooper &										
267	11-13	1155A	Shipley	4.6	6.65	3.41	1.45	22.6		.6	10	0	"
		135P											
268	11-20	155P	Cooper	4.6	6.66	3.39	1.46	22.6		.6	10	0	"
		1145A											
269	11-27	1205P	"	4.6	7.16	3.46	1.56	24.8		.6	10	0	"
		1245P											
270	12-4	105P	"	4.6	7.54	3.61	1.64	27.2		.6	10	0	"
		150P											
271	12-11	210P	"	4.6	7.80	3.60	1.71	28.0		.65	10	0	"
		1100A											
272	12-18	1120A	"	4.6	7.78	3.59	1.71	27.9		.65	10	0	"
		1115A											
273	1-2	1135A	"	4.6	8.07	3.61	1.76	29.1		.65	10	0	"
		210P											
274	1-9	230P	"	4.6	8.04	3.54	1.75	28.5		.65	10	0	"
		1045A											
275	1-16	1105A	"	4.6	7.95	3.50	1.73	27.8		.65	10	0	"
		1105A											
276	2-6	1121A	Middleton	4.6	19.8	4.53	4.32	89.6		.65	10	0	"
		400P											
277	2-10	420P	"	4.6	20.4	4.53	4.46	92.5		.24 .85	10	+0.02	"
		1045A											
278	2-13	1105A	"	4.6	20.5	4.41	4.46	90.2		.24 .85	10	0	"
		750A											
279	2-20	812A	"	4.6	20.5	4.46	4.46	91.3		.24 .85	10	0	"
		1130A											
280	2-27	1200N	"	4.6	20.5	4.47	4.46	91.6		.24 .85	10	0	"
		133P											
281	3-11	153P	"	4.6	20.0	4.49	4.36	89.7		.24 .85	10	0	"
		1120A											
282	3-20	1140A	"	4.6	20.3	4.46	4.41	90.5		.24 .85	10	0	"
		1054A											
283	3-27	1114A	"	4.6	20.8	4.45	4.52	92.6		.24 .85	10	0	"
		933A											
284	3-31	953A	"	4.6	21.1	4.43	4.60	93.5		.24 .85	10	0	"
		1047A											
285	4-14	1113A	"	4.6	20.2	4.50	4.39	90.9		.24 .85	10	0	"
		1014A											
286	4-24	1040A	"	4.6	20.5	4.45	4.46	91.3		.24 .85	10	0	"
		1018A											
287	5-1	1038A	"	4.6	20.8	4.42	4.52	91.9		.24 .85	10	0	"
		1127A											
288	5-8	1149A	Middleton	4.6	21.5	4.35	4.68	93.6		.24 .85	10	0	FC 11
		1050A											
289	5-15	1110A	"	4.6	21.4	4.26	4.66	91.1		.24 .85	10	0	"
		310P											
290	9-16	330P	"	4.6	13.2	4.38	2.89	57.8		.24 .85	10	0	FC 18
		920A											
291	9-25	940A	"	4.6	11.1	4.02	2.41	44.6		.24 .85	10	0	"

F.C. Dist. Form SI 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F220-R

Daily discharge, in second-feet of SAN GABRIEL -AZUSA CONDUIT At Garcia Canyon, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	24	29	90	91	93	92	0.2	0.2	0.1	0.1
2	0.2	0.2	25	29	90	91	94	93	0.2	0.2	0.1	0.1
3	0.2	0.2	26	29	87	91	94	92	0.2	0.2	0.1	0.1
4	0.2	12.3	27	30	90	91	94	91	0.2	0.2	0.1	0.1
5	0.2	25	27	29	90	92	94	92	0.2	0.2	0.1	0.1
6	0.2	26	27	29	90	92	94	93	0.2	0.2	0.1	0.1
7	0.2	25	27	29	90	91	94	93	0.2	0.2	0.1	0.1
8	0.2	23	27	29	90	90	94	93	0.2	0.2	0.1	0.1
9	0.2	23	27	29	92	91	94	94	0.2	0.2	0.1	0.1
10	0.2	23	27	29	90	91	94	93	0.2	0.2	0.1	0.1
11	0.2	23	27	28	92	90	94	94	0.2	0.2	0.1	0.1
12	0.2	23	28	28	92	90	92	93	0.2	0.2	0.1	0.1
13	0.2	23	28	28	92	90	91	92	0.2	0.2	0.1	0.1
14	0.2	23	28	27	92	91	91	92	0.2	0.2	0.1	0.3
15	0.2	23	28	27	92	91	91	91	0.2	0.2	0.1	3.3
16	0.2	23	28	28	91	90	91	91	0.2	0.2	0.1	5.8
17	0.2	23	28	28	91	90	91	91	0.2	0.2	0.1	5.8
18	0.2	23	28	27	91	90	91	90	0.2	0.2	0.1	5.1
19	0.2	23	28	27	91	90	91	90	0.2	0.2	0.1	4.5
20	0.2	23	28	27	91	90	91	31	0.2	0.2	0.1	4.5
21	0.2	23	27	27	91	90	91	0.2	0.2	0.2	0.1	4.5
22	0.2	23	27	56	91	90	91	0.2	0.2	0.2	0.1	4.5
23	0.2	23	27	130	92	91	91	0.2	0.2	0.2	0.1	4.4
24	0.2	23	27	0.9	91	92	91	0.2	0.2	0.2	0.1	4.5
25	0.2	23	47	0.7	90	92	92	0.2	0.2	0.2	0.1	4.5
26	0.2	23	45	51	89	92	91	0.2	0.2	0.2	0.1	4.5
27	0.2	25	34	89	91	92	91	0.2	0.2	0.2	0.1	4.5
28	0.2	25	34	89	92	92	91	0.2	0.2	0.2	0.1	4.5
29	0.2	24	34	89		93	91	0.2	0.2	0.2	0.1	4.5
30	0.2	24	31	89		94	92	0.2	0.2	0.2	0.1	4.5
31	0.2		29	89		93		0.2		0.2	0.1	
	6.2		905		2541		2765		6.0		3.1	
		623.9		1159.6		2824		1783.2		6.2		740.6
MEAN	0.20	20.8	29.2	37.4	90.8	91.1	92.2	57.5	0.20	0.20	0.10	24.7
ACRE-FEET	12.	1240.	1800.	2300.	5040.	5600.	5480.	3540.	12.	12.	6.1	1470.

Remarks:

YEAR OR PERIOD MEAN 36.6
ACRE-FEET 26510.

STATION U8R

SAN GABRIEL RIVER BASIN

SAN GABRIEL RIVER near Azusa

LOCATION:

Water-stage recorder lat. 34°10'10" long. 117°53'16" in SW¼ sec. 13, T. 1 N., R. 10 W., 1 mile downstream from Morris Dam and 3 miles northeast of Azusa.
Altitude of gage about 870 feet.

DRAINAGE AREA:

211 square miles.

RECORDS AVAILABLE:

1894 to September 1943.

AVERAGE DISCHARGE:

1896-1943
47 years 118 second-feet. Average combined discharge of river and diversions, adjusted for storage and evaporation in Morris Reservoir and San Gabriel River flood-control reservoirs 1 and 2.

1895-1943
48 years 167 second-feet.

EXTREMES:

Maximum discharge during year, 12,100 second-feet January 23 (gage height 9.27 feet).
Minimum daily, 2.0 second-feet December 29-31.

1894-1943
Maximum discharge, 65,700 second-feet March 2, 1938, by computation of flow over spillway at Morris Dam; no flow for several months in each year 1894-1936, 1940, and 1941.

COOPERATION:

Results of 43 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and H. E. Salsbury, acting chief engineer during the war emergency.

NORMAL UNREGULATED FLOW:

Combined runoff of river and Azusa Canal, adjusted for storage and evaporation in Morris Reservoir and releases from San Gabriel River flood-control reservoirs 1 and 2 using records furnished by the Los Angeles County Flood Control District. These figures of runoff are equivalent to combined records of San Gabriel River and Southern California Edison Company's canal as published from 1894 to 1933.

MONTH.	ACRE-FEET
October	1510
November	1540
December	1840
January	78940
February	45960
March	85940
April	26810
May	16640
June	9530
July	6250
August	4490
September	3180
Water year 1942-1943	282630

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT OR NEAR Azusa. DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1565	Oct. 1	205P / 220P	Haig	12.5	12.4	2.32	3.62	28.7		.6	10		FC.33
1566	2		U.S.G.S.				3.62	26.9		.6	18	0	
1567	8	115P / 125P	Haig	12.5	11.2	1.91	3.55	21.4		.6	10		FC.33
1568	15		U.S.G.S.				3.61	22.6		.6	23	0	
1569	15	245P / 300P	Haig	11.5	11.3	2.20	3.62	24.9		.6	9		FC.33
1570	22	102P / 120P	"	12.0	11.8	2.24	3.61	26.4		.6	12		"
1571	27		U.S.G.S.				3.54	21.8		.6	18	0	
1572	29	238P / 252P	Haig - Jones	12.0	11.1	2.00	3.55	22.2		.6	13		FC.33
1573	Nov. 5	105P / 118P	Haig	11.7	6.5	0.74	3.18	4.8		.6	11		"
1574	12	1235P / 1248P	"	11.5	5.30	0.73	3.11	3.9		.6	10		"
1575	13		U.S.G.S.				3.11	2.4		.6	29	0	
1576	19	1147A / 1155A	Haig	12.0	5.44	0.74	3.13	4.0		.6	10		FC.33
1577	24		U.S.G.S.				3.11	2.1		.6	29	0	
1578	25	1242P / 1255P	Haig	11.5	5.78	0.76	3.12	4.4		.6	11		FC.33
1579	Dec. 3	305P / 315P	"	11.0	5.31	0.69	3.11	3.7		.6	11		"
1580	10	1017A / 1030A	"	10.8	4.96	0.72	3.10	3.6		.6	12		"
1581	17	1010A / 1023A	"	10.6	5.09	7.6	3.10	3.9		.6	11		"
1582	23	230P / 240P	"	10.5	4.85	0.73	3.10	3.6		.6	11		"
1583	24		U.S.G.S.				3.12	2.6		.6	14	0	
1584	30	310P / 320P	Haig	10.5	4.83	0.70	3.08	3.3		.6	9		FC.33
1585	Jan. 6		U.S.G.S.				3.32	2.3		.6	11	0	
1586	Jan. 8	340P / 350P	Haig	10.5	4.64	0.64	3.31	3.0		.6	10		FC.33
1587	14		U.S.G.S.				3.31	2.2		.6	11	0	
1588	15	150P / 158P	Haig	10.5	4.58	0.66	3.30	3.0		.6	9		FC.33
1589	23		U.S.G.S.	163.	1020.	11.37	9.18	11600.		.6 2-8	18	0	
1590	23		"	178.	1100.	10.73	9.21	11800.		.6	19	+.02	
1591	27		"	108.	253.	5.95	3.35	1510.		.6	12	0	
1592	Feb. 3		"				0.56	16.0		.6	18	0	
1593	12		"				0.48	13.4		.6	12	0	
1594	23		"	109.	292.	6.68	3.84	1950.		.6	11		
1595	Mar. 4		"	155.	615.	8.00	5.61	4920.		.2 .8	17	+.26	
1596	4		"	155.	612.	8.92	5.80	5460.		.6	17	+.11	
1597	10		"	110.	304.	7.50	4.03	2280.		.2 .8	12	0	
1598	16		"	105.	200.	5.20	2.98	1040.		.6 2-8	20	0	
1599	24		"	95.	138.	3.25	2.21	448.		.6 2-8	19	0	
1600	Apr. 2		"	90.	142.	3.46	2.22	484.		.6 2-8	18	0	
1601	8	308P / 315P	Haig	Two	Channels		0.40	6.0			7		FC.35
1602	9		U.S.G.S.				0.40	7.9			32	0	
1603	16		"				0.35	5.8		.6	14	0	
1604	20	158P / 230P	Haig - Moon	164.	263.	1.94	2.27	509.		.6	26	0	FC.35
1605	21		U.S.G.S.	100.	192.	4.4	2.73	820.		.6 2-8	20	0	
1606	28	1255P / 145P	Haig	105.	181.	4.87	2.77	881.		.6	21	0	FC.35
1607	30		U.S.G.S.	100.	215.	4.6	3.00	996.		.6 2-8	20	0	
1608	May 7		"				1.88	315.		.6 2-8	28	0	
1609	May 13	1025A / 1045A	Moon-Lindsay	79.0	194.	0.97	1.54	188.		.6	11	0	FC.22
1610	14		U.S.G.S.				1.55	172.		.6 2-8	20	0	
1611	20	408P / 434P	Moon	106.	148.	1.27	1.56	188.		.6	15	0	FC.22
1612	21		U.S.G.S.				1.46	141.		.6 2-8	19	0	
1613	26	201P / 216P	Moon	38.0	23.6	0.48	0.45	11.3		.6	15	0	FC.22
1614	28		U.S.G.S.				0.44	10.2		.6	21	0	
1615	June 3	1125A / 1145A	Moon	103.	197.	1.60	1.86	315.		.6	17	0	FC.22
1616	4		U.S.G.S.				1.86	295.		.6 2-8	17	0	
1617	12		"				1.66	196.		.6 2-8	19	0	
1618	12	1225P / 1247P	Moon	102.	168.	1.36	1.66	228.		.6	22	0	FC.22
1619	17	1236P / 1248P	"	52.0	47.8	0.54	0.65	25.8		.6	11	-.01	"
1620	24	1038A / 1107A	"	70.0	75.2	1.61	1.17	121.		.6	18	0	"
1621	July 1	1253P / 115P	"	63.0	93.6	0.91	1.17	85.2		.6	16	0	"
1622	8	1025A / 1040A	"	51.0	73.4	0.69	0.93	51.0		.6	10	0	"
1623	9		U.S.G.S.				0.93	46.6		.6	20	0	
1624	15	1043A / 1104A	Moon	49.0	75.4	0.68	0.94	51.0		.6	19	0	FC22
1625	15		U.S.G.S.				0.94	47.8		.6	35	0	
1626	21	835A / 857A	Brewster	23.0	14.1	0.93	0.43	13.1		.6	11	0	FC.12
1627	23		U.S.G.S.				0.43	7.6		.6	30	0	
1628	29	1202P / 1215P	Moon	19.0	16.4	0.46	0.42	7.6		.6	11	0	FC.22
1629	30		U.S.G.S.				0.40	6.9		.6	16	0	
1630	Aug. 2	1057A / 1113A	Moon - Bonadiman	Two	Channels.		0.38	7.5		.6	12	0	FC.22
1631	2	1122A / 1133A	" "	"	"		0.38	7.4		.6 & Sat.	4	0	"
1632	Aug. 2	1215P / 1230P	Moon	21.0	15.8	0.60	0.38	9.5		.6	14	0	FC.22
1633	5	105P / 120P	"	20.5	16.5	0.55	0.39	9.0		.6	12	0	"
1634	12	1256P / 110P	"	20.5	15.6	0.56	0.40	9.1		.6	14	0	"
1635	16		U.S.G.S.				0.48	8.4		.6	31	0	
1636	19	1050A / 1105A	Moon	19.5	14.6	0.58	0.38	8.4		.6	15	0	FC.22
1637	26	1010A / 1025A	"	18.5	13.8	0.59	0.33	8.1		.6	14	0	"
1638	27		U.S.G.S.				0.33	5.8		.6	11	0	
1639	Sept 2	955A / 1010A	Moon	18.5	13.1	0.57	0.34	7.5		.6	12	0	FC.22
1640	8	910A / 930A	Brewster	20.0	13.4	0.71	0.35	9.5		.6	10	0	FC.12
1641	11		U.S.G.S.				0.34	6.4		.6	11	0	
1642	15	1115A / 1145A	Brewster	24.0	24.4	1.15	0.68	28.0		.6	12	0	FC.12
1643	23	1055A / 1110A	Moon	21.5	23.4	1.04	0.68	24.4		.6	15	0	FC.22
1644	25		U.S.G.S.				0.68	22.2		.6	32	0	
1645	30	1131A / 1148A	Moon	21.5	23.6	1.06	0.67	25.0		.6	15	0	FC.22

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No 118R

Daily discharge, in second-feet of SAN GABRIEL RIVER Near Azusa-below Morris Dam, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	25	22	2.1	2.1	539	1080	657	1040	86	88	6.5	6.5
2	26	22	2.1	2.2	539	465	445	1040	274	88	6.5	6.5
3	26	22	2.2	2.2	1410	1460	15	1040	295	88	6.5	6.5
4	24	16	2.2	2.2	712	4500	9	1040	295	88	6.5	6.5
5	22	3.6	2.2	2.2	659	6070	8.5	622	291	70	6.5	6.5
6	22	3.0	2.2	2.2	660	4590	8	304	291	48	6.5	7
7	22	2.9	2.2	2.2	652	2270	8	304	160	48	6.5	7
8	22	2.7	2.1	2.2	571	2240	8	278	11	48	7	7
9	22	2.5	2.1	2.2	14	2230	8	254	11	48	7	6.5
10	21	2.5	2.1	2.2	118	1780	8	254	44	48	7.5	6.5
11	20	2.5	2.1	2.2	14	1030	8	231	148	48	7.5	6.5
12	22	2.4	2.1	2.2	13	1060	7.5	194	217	49	7.5	6.5
13	25	2.4	2.1	2.2	13	1070	7	182	217	49	8.5	6.5
14	24	2.4	2.1	2.2	13	1070	6.5	182	217	49	11	11
15	24	2.4	2.1	2.1	95	1060	6	182	217	49	11	24
16	24	2.4	2.1	2.2	304	1030	6	182	217	49	11	24
17	25	2.4	2.1	2.4	304	1010	6	182	101	36	8	24
18	25	2.4	2.2	2.5	308	918	5.5	185	12	23	7.5	24
19	25	2.5	2.2	2.5	221	712	5	185	227	23	7.5	24
20	26	2.4	2.2	2.7	268	925	330	185	173	18	7	24
21	26	2.2	2.2	2.7	548	622	817	167	173	7.5	7	24
22	26	2.2	2.2	27	960	570	817	125	134	7.5	6.5	24
23	26	2.1	2.2	10080	1910	531	817	93	88	7.5	6.5	24
24	25	2.1	2.5	10370	2060	468	817	11	88	7.5	6.5	24
25	22	2.1	2.7	5190	2270	468	817	11	88	7.5	6	24
26	22	2.1	2.2	3290	2520	468	825	11	12	7.5	6	24
27	22	2.1	2.2	1530	1380	489	849	11	9.5	7.5	6	23
28	23	2.1	2.1	932	1090	662	849	11	10	7.5	6	23
29	22	2.1	2.0	512		669	955	11	10	7.5	6	23
30	22	2.1	2.0	350		1030	1040	11	30	7	6	23
31	22		2.0	545		801		11		7	6	
	730	144.6	67.1	32873.8	20165	43348	10165.0	8539	4146.5	1136.5	222.0	477.0
MEAN	23.5	4.82	2.16	1,060	720	1,398	339	275	138	36.7	7.16	15.9
ACRE-FEET	1,450	287	133	65,200	40,000	85,980	20,160	16,940	8,220	2,250	440	946

Remarks:

YEAR OR PERIOD — MEAN 334 — ACRE-FEET 242,000

STATION S100A-R

SAN GABRIEL RIVER - AZUSA DUARTE TUNNEL DIVERSION
near Mouth of San Gabriel Canyon

LOCATION:

At weir box at the downstream portal of the Azusa Duarte Tunnel about 250 feet south of the canyon road at the mouth of San Gabriel Canyon.

GENERAL:

This station measures all flow diverted by the San Gabriel River Water Committee at the mouth of San Gabriel Canyon.

CHANNEL AND CONTROL:

Concrete weir box with two broad crested weirs. These weirs divide the flow between the east side spreading grounds and the Duarte spreading grounds. Either side can be diverted for irrigation.

REGULATION:

River flow at the Canyon mouth is partially regulated by Morris Dam and San Gabriel Dams Nos. 1 and 2. The division of the diverted flow can be regulated at the weirs by inserting constrictions.

RECORDS AVAILABLE:

The tunnel was constructed in 1887. Records of diversion since 1918 are available at the office of the San Gabriel River Water Committee, 124 West Foothill Boulevard, Azusa.

ACCURACY:

Excellent.

OPERATION:

Located, constructed and operated by the San Gabriel River Water Committee.

REMARKS:

These records were furnished by Mr. Morgan Pierce, Water Master of the San Gabriel River Water Committee. Published herewith are the records from October 1, 1942 to September 30, 1943. Records prior to October, 1939 were published with the records of Station F100R which was abandoned November, 1940.

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No S100A-R

Daily discharge, in second-feet of SAN GABRIEL - AZUSA DUARTE TUNNEL DIVERSION Near Mouth of Canyon, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22.0	16.0	0	0	0	13.7	13.3	46.6	2.9	54.1	2.5	2.1
2	22.0	16.0	0	0	0	4.8	6.3	46.6	46.8	53.4	2.5	2.1
3	21.4	16.0	0	0	0	20.7	0	46.6	68.9	52.6	2.5	2.1
4	19.6	12.7	0	0	0	0	0	46.6	68.9	52.6	2.5	2.1
5	17.0	3.2	0	0	0	0	0	46.6	68.9	46.0	2.5	2.1
6	16.6	2.0	0	0	0	0	0	55.7	68.9	38.9	2.5	2.1
7	16.6	1.4	0	0	0	0	2.3	64.2	40.9	39.5	2.5	2.1
8	16.6	1.2	0	0	0	0	2.3	64.2	4.1	39.5	2.5	2.1
9	16.6	1.2	0	0	0	0	2.4	62.6	3.4	39.5	2.5	2.1
10	16.6	1.0	0	0	0	0	2.9	62.6	15.8	39.5	2.5	2.1
11	16.6	1.0	0	0	0	0	2.9	63.4	58.8	39.5	2.5	2.1
12	18.8	1.0	0	0	0	0	2.7	61.8	68.9	39.5	2.5	2.1
13	20.4	0.8	0	0	1.3	0	2.4	61.8	68.9	39.5	2.5	2.1
14	20.4	0.6	0	0	2.9	0	1.9	61.8	68.9	39.5	3.5	2.1
15	20.4	0.6	0	0	11.6	0	1.7	61.8	68.9	39.5	3.5	15.2
16	20.4	0.4	0	0	34.9	0	1.6	61.8	68.9	39.5	3.5	16.7
17	20.4	0	0	0	38.9	0	1.4	61.8	40.9	28.0	2.8	16.7
18	20.4	0.8	0	0	38.9	0	1.4	62.6	7.2	16.7	2.5	16.7
19	20.4	1.0	0	0	29.3	0	1.4	63.4	68.1	16.7	2.5	16.5
20	20.0	0.4	0	0	28.6	0	0.6	63.4	66.5	13.7	2.5	16.5
21	20.4	0	0	0	18.7	0	17.1	61.8	66.5	4.4	2.5	16.5
22	20.4	0	0	22.2	0	15.0	36.9	49.6	61.0	3.9	2.3	16.5
23	20.4	0	0	0	0	15.4	41.6	32.4	57.2	3.6	2.3	16.5
24	18.0	0	0	0	0	15.4	42.0	6.2	57.2	3.6	2.3	16.5
25	16.2	0	0	0	0	22.3	42.0	2.2	57.2	3.4	2.1	16.5
26	16.2	0	0	0	0	22.3	43.3	3.6	8.7	3.4	2.1	16.5
27	16.2	0	0	0	0	23.4	46.0	3.4	6.6	3.4	2.1	16.5
28	19.0	0	0	0	0	29.3	46.0	2.0	6.6	3.4	2.1	16.5
29	16.6	0	0	0		23.2	46.6	3.8	6.6	3.0	2.1	16.5
30	16.0	0	0	0		11.6	46.6	3.8	18.2	2.8	2.1	16.5
31	16.0		0	0		14.5		3.4		2.8	2.1	
	578.6	77.3	0	22.2	205.1	231.6	455.6	1338.1	1321.3	805.4	77.4	292.7
MEAN	18.7	2.58	0	0.72	7.32	7.47	15.2	43.2	44.0	26.0	2.50	9.76
ACRE-FEET	1150	153	0	44	407	459	904	2650	2620	1600	154	561

Remarks:

YEAR OR PERIOD — MEAN 14.8 — ACRE FEET 10,720

STATION F19OR

SAN GABRIEL RIVER at Foothill Boulevard

LOCATION:

On the downstream side of the bridge, about 2 miles west of Azusa.

DRAINAGE AREA:

230 square miles.

CHANNEL AND CONTROL:

West side of channel is a concrete wall. Bottom is composed of sand, gravel and boulders. East side of channel is a rock and wire levee.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 340 feet below the station.

RECORDER:

Installed April 25, 1932. Removed on April 20, 1938, and installed in a 30 inch diameter corrugated iron pipe serving both as a house and as a well.
An Au continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2, and Morris Dam.

DIVERSIONS:

There are diversions for irrigation power development and spreading.

RECORDS AVAILABLE:

Stream measurements starting February 22, 1932.
Recorder records April 25, 1932 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 11,400 second-feet, January 23.
Minimum no flow at various times.
1932-1943
Maximum 62000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair except poor on January 23, 24 when recorder was removed due to a damaged stilling well and April 4 to 14, when communication to well was obstructed.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT STATION NO. F190-R
HYDRAULIC DIVISION

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Foothill boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
317	12-25	1210P 1220P	Haig	7.3	3.71	0.81	4.89	3.0		.6	8	0	FC 33
318	12-30	130P 138P	"	2.8	0.63	0.54	4.62	0.34		.6	4	0	"
319	1-8	135P 138P	"	3.0	0.48	0.35	4.57	0.17		.6	5	0	"
320	1-22	1215A 1220A	Haig & Clair	10.3	6.66	0.77	5.02	5.1		.6	6	+.01	"
321	1-22	408A 440A	" "	92.0	273.	2.53	7.85	691.		.6	16	+.30	"
322	1-23	730A 820A	Haig & Wallace	233.0	950.	11.17	11.8	10600.		.6	16	-	"
323	1-24	720P 830P	" "	Four Channels			8.67	9140.	Float	.6+	24	+.25	"
324	1-25	100P 142P	Haig	Three Channels			7.50	6550.		.6	23	-.30	"
325	1-26	230P 257P	Haig & Wallace	130.0	387.	9.69	5.90	3750.		.6	12	0	"
326	1-27	225P 245P	Haig	101.0	226.	7.01	4.67	1580.		.6	12	0	"
327	1-28	142P 205P	Haig & Randolph	98.0	159.	6.04	4.13	960.		.6	15	-.05	"
328	1-29	345P 407P	Haig	96.5	119.	3.28	3.38	390.		.6	20	0	"
329	1-30	214P 230P	"	63.0	75.4	1.02	-	76.7		.6	16	-	"
330	1-30	340P 350P	"	39.0	51.6	1.70	-	87.8		.6	12	-	"
331	1-31	1215P 100P	"	97.0	141.	4.82	3.62	679.		.6	15	0	"
332	2-3	226A 250A	Haig & Snyder	102.0	292.	7.77	5.15	2270.		.6	15	+.15 -.05	"
333	2-3	415A 443A	" "	121.0	403.	9.90	6.40	3990.		.6	17	+.05 -.25	"
334	2-3	605A 636A	" "	122.0	452.	11.37	7.05	5140.		.6	19	-.20	"
335	2-3	915A 936A	" "	95.0	170.	5.61	4.75	954.		.6	14	-.55 -.03	"
336	2-4	950A 1020A	Haig	99.0	205.	6.25	4.80	1290.		.6	20	+.04	"
337	2-5	932A 1003A	"	99.0	199.	7.18	4.76	1430.		.6	15	+.02	"
338	2-6	1035A 1059A	Haig & Wood	97.0	197.	7.26	4.63	1430.		.6	13	-.03	"
339	2-7	100P 125P	P. Haig & W. Haig	97.0	207.	7.50	4.61	1550.		.6	14	-.02	FC 33
340	2-8	1145A 1210P	Haig	97.0	208.	6.82	4.60	1420.		.6	13	0	"
341	2-8	435P 445P	"	48.0	77.8	1.35	2.40	105.		.6	11	-	FC 33
342	2-11	320P 326P	"	11.0	6.75	2.37	8.17	15.9		.6	6	0	"
343	2-16	308P 326P	Waddicor	62.0	61.6	3.51	8.97	216.		.6	13	0	FC 24
344	2-18	115P 132P	Haig	Three Channels			8.97	258.		.6	19	0	FC 33
345	2-21	145A 208A	Waddicor	70.0	79.7	5.58	9.25	445.		.6	9	+.01	FC 24
346	2-21	449P 523P	Haig	83.0	140.	4.89	9.52	677.		.6	15	0	FC 33
347	2-22	150P 210P	Waddicor & Mellen	85.0	236.	7.50	9.94	1770.		.6	11	-.06	FC 24
348	2-22	1115P 1156P	Haig & Wallace	Three Channels			9.45	1780.		.6	23	-.10	FC 33
349	2-24	1020A 1115A	Haig & Snyder	Two Channels			9.07	2720.		.6	30	-.05	"
350	2-27	225P 245P	Haig	68.0	102.	1.92	-	196.		.6	17	-	"
351	2-28	305P 330P	"	91.0	181.	6.19	8.34	1120.		.6	12	0	"
352	3-2	220P 245P	"	35.0	46.6	1.46	5.35	68.3		.6	11	-.02	"
353	3-6	145P 230P	Haig & Wallace	Two Channels			9.02	4420.	Surf. .64+		33	-.16	"
354	3-11	1018A 1046A	Haig & Blakely	" "			5.09	155.		.6	23	0	"
355	3-12	100P 125P	Haig	79.0	175.	6.74	7.23	1180.		.6	15	0	"
356	3-19	215P 225P	"	23.0	17.6	3.47	-	61.0		.6	9	-	FC 35
357	3-25	1104A 1132A	"	75.0	104.	4.41	5.77	457.		.6	13	0	"
358	3-30	1215P 1245P	"	79.0	161.	6.89	7.15	1110.		.6	14	0	"
359	4-2	933A 953A	Haig	75.0	99.4	4.40	5.83	438.	Surf.		12	0	FC 35
360	4-3	440P 445P	"	13.5	6.15	2.76	4.14	17.0		.6	6	0	"
361	4-8	1255P 102P	"	11.5	5.10	2.18	4.05	11.1		.6	7	0	"
362	4-14	420P 425P	"	6.0	2.85	0.49	3.50	1.4		.6	4	0	"
363	4-15	1255P 100P	"	22.0	8.20	0.94	6.78	7.7		.6	6	+.03	"
364	4-20	357P 420P	Haig & Moon	74.0	93.5	2.77	8.72	259.		.6	16	+.01	"
365	4-22	252P 315P	" "	77.0	138.	5.90	9.06	814.		.6	12	0	"
366	4-28	425P 440P	Haig	77.0	142.	6.13	9.10	870.		.6	12	0	"
367	4-30	312P 340P	"	78.0	162.	5.80	9.31	939.		.6	16	0	"
368	5-6	120P 138P	"	62.0	60.8	3.19	7.97	194.		.6	14	0	"
369	5-13	110P 130P	Moon & Lindsay	78.0	123.	0.79	7.84	97.7		.6	16	0	FC 22
370	5-20	305P 325P	Moon	54.0	102.	0.91	7.78	92.4		.6	11	0	"
371	6-2	130P 145P	Koch	43.0	57.4	2.94	8.03	169.		.6	11	0	FC 43
372	6-3	850A 915A	Moon	82.0	121.	1.47	8.07	178.		.6	19	0	FC 22
373	6-5	158P 220P	"	78.0	126.	1.57	8.07	198.		.6	17	0	"
374	6-12	1010A 1035A	"	49.3	64.8	1.87	7.77	121.		.6	18	0	"
375	6-17	1035A 1052A	"	48.0	71.8	1.85	7.85	133.		.6	15	0	"
376	6-24	934A 948A	"	14.0	13.2	0.88	6.97	11.6		.6	12	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F190R

Daily discharge, in second-feet of SAN GABRIEL RIVER At Foothill Boulevard, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.6	v 510	v 1030	657	1050	35	0	0	0
2	0	0	0	0.2	v 490	v 520	431	1050	196	+	0	0
3	0	0	0	0.5	v 1200	v 1570	b 17	1050	176	1.2	0	0
4	0	0	0	1.0	v 740	v 4650	b 16	1030	165	3.2	0	0
5	0	0	0	1.3	v 630	v 6030	b 15	596	192	3.3	0	0
6	0	0	0	+	v 600	v 4460	b 13	192	192	0	0	0
7	0	0	0	0.1	v 620	v 3300	b 12	177	130	0	0	0
8	0	0	0	0.1	v 480	v 2280	b 11	152	3.5	0	0	0
9	0	0	0	0.1	v 25	v 2220	b 10	126	0	0	0	0
10	0	0	0	+	v 92	v 1300	b 10	116	0	0	0	0
11	0	0	0	+	v 25	v 980	b 9.5	94	47	0	0	0
12	0	0	0	+	v 19	v 1050	b 9	89	132	0	0	0
13	0	0	0	0	v 18	v 1050	b 8.5	95	126	0	0	0
14	0	0	0	0	9	1120	b 8	95	126	0	0	0
15	0	0	0	0	44	1100	7.5	95	126	0	0	0
16	0	0	0	0	223	1030	9	93	122	0	0	0
17	0	0	0	0.2	246	1060	6	97	76	0	0	0
18	0	0	0	0.4	259	901	2.8	97	0	0	0	0
19	0	0	0	0.1	136	735	0.2	98	101	0	0	0
20	0	0	0	0.1	237	920	280	94	100	0	0	0
21	0	0	0	0.7	456	630	865	81	95	0	0	0
22	0	0.1	0	1540	1150	535	823	55	70	0	0	0
23	0	0.3	0	a10400	2000	550	823	47	13	0	0	0
24	0	0	0.1	a10200	v 2130	472	823	+	11	0	0	0
25	0	0	2.6	v 5000	v 2230	458	832	0	9.5	0	0	0
26	0	0	2.3	v 3110	v 2350	458	846	0	2.0	0	0	0
27	0	0	1.5	v 1450	v 1300	465	836	0	0	0	0	0
28	0	0	0.5	v 877	v 1060	605	877	0	0	0	0	0
29	0	0	0.7	v 470		626	983	0	0	0	0	0
30	0	0	0.4	v 390		1040	1060	0	0	0	0	0
31	0		0.8	v 620		758		0		0	0	
	0		89		19399		103505		2267		0	
		0.4		33688.4		43503		6674		7.7		0
MEAN	0	0.01	0.29	1092.	693.	1403.	345.	215.	75.6	0.25	0	0
ACRE-FEET	0	0.8	18.	67170.	38430.	86290.	20530.	13240.	4500.	15.	0	0

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 318.
ACRE-FEET 230200.

STATION E281R (U.S.G.S. 877)

SAN GABRIEL RIVER below Santa Fe Dam

LOCATION:

Lat. 34° 06' 40", long. 117° 58' 20", on left bank of stilling basin outlet of Santa Fe Dam, 0.3 mile north of Arrow Highway, and 1-½ miles north of Baldwin Park.

DRAINAGE AREA:

231 square miles.

CHANNEL AND CONTROL:

Santa Fe Dam outflow enters a stilling basin. The lip of the stilling basin acts as a control and is point of zero flow for all flows going down the San Gabriel River. There are five gated openings on the right edge of stilling basin providing an opening to diversion canal which are operated by the Los Angeles County Flood Control District.

DISCHARGE MEASUREMENTS:

Low flow measurements may be made on lip of basin below gage height 2.5 feet. High flow measurements may be made from cable 1,000 feet below gage.

RECORDER:

Installed February 9, 1943, over 6 by 5 feet concrete stilling well. A Stevens A-35 recorder was in service from February 9, 1943, to September 30, 1943.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2 and Morris Dam. At present, there are no gates in Santa Fe Dam and the only regulation will be at extremely high flows.

DIVERSION:

There are diversions for irrigation, power development, and spreading. Discharges over the spillway of dam are not recorded at this station.

RECORDS AVAILABLE:

Recorder records February 9, 1943, to September 30, 1943. For measurements prior to February 9, 1943, see L.A.C.F.C.D. staff gage station No. F247S at Arrow Highway.

EXTREMES OF DISCHARGE:

1942-43
Maximum not determined.
Minimum no flow most of year.

ACCURACY:

Fair. Gage height record doubtful. Discharge computed on the basis of dam operation records and records of L.A.C.F.C.D. Station No. F190R at Foothill Boulevard.

OPERATION:

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

NOTE:

RIO HONDO DIVERSION below Santa Fe Dam was operated as a staff gage station No. F280S. Daily discharges were computed from gate openings. A list of measurements may be found under staff gage stations in this report.

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. E281R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT OR NEAR Below Santa Fe Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	2-16	413P	428P	Waddicor	83.0	91.0	1.34		122.		.6	10		FC 24
2	2-18	302P	320P	Haig	68.0	109.	1.24	80.49	136.		.6	14		FC 33
3	2-23			U.S.G.S.				82.08	959.	Float	Est.			
4	2-26			U.S.E.D.	118.4	229.	9.08	82.30	2080.				-.05	
5	2-27			"				80.69	376.		.6	15	-.07	
6	3-1			"				81.27	755.				-.01	
7	3-1			"				81.26	807.		.6	14	-.01	
8	3-6			"				84.18	4660.					
9	3-11			"				81.15	910.		.6	12	0	
10	3-25			"				80.52	227.		.6	13	0	
11	4-2			U.S.G.S.				80.56	251.		.6 2-8	21	0	
12	4-22	150P	218P	Haig	105.	167.	2.49	81.03	416.		.6	14		FC 35
13	4-26			U.S.G.S.				81.06	672.		.6	23	0	
14	4-28	510P	530P	Haig	105.	164.	3.90	81.02	640.		.6	15		FC 35
15	4-29			U.S.E.D.				81.18	947.		.6	24	0	
16	4-30			U.S.G.S.				81.20	971.		.6	24	0	
17	4-30	420P	435P	Haig	Two Channels			81.19	746.		.6	24		FC 35
18	5-5	250P	321P	Moon & Haig	195.0	149.	0.98	80.50	146.		.6	23		FC 6
19	5-6	855A	912A	Jordan-Sawyer	32.0	42.5	1.74	80.22	74.		.6	12		FC 21
20	5-6	930A	948A	" "	34.0	32.6	2.27	80.22	74.		.6	16		"
21	5-6	1150A	1158A	Haig	29.0	23.5	1.42	80.11	33.		.6	8		FC 35

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No E 281 R

Daily discharge, in second-feet of SAN GABRIEL RIVER below Santa Fe Dam for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	450	796	426	957	0	0	0	0
2	0	0	0	0	450	311	238	957	5.5	0	0	0
3	0	0	0	0	1100	1160	43	946	63	0	0	0
4	0	0	0	0	560	3670	1.5	935	69	0	0	0
5	0	0	0	0	510	4930	0	531	68	0	0	0
6	0	0	0	0	520	3900	0	25	66	0	0	0
7	0	0	0	0	510	1960	0	46	47	0	0	0
8	0	0	0	0	430	1900	0	34	0.2	0	0	0
9	0	0	0	0	16	1850	0	7	0	0	0	0
10	0	0	0	0	8.5	1550	0	3.9	0	0	0	0
11	0	0	0	0	9.5	1030	0	0.6	0	0	0	0
12	0	0	0	0	1.0	1010	0	0	7	0	0	0
13	0	0	0	0	0	1010	0	0	24	0	0	0
14	0	0	0	0	0	989	0	0	23	0	0	0
15	0	0	0	0	0	968	0	0	18	0	0	0
16	0	0	0	0	27	957	0	0	13	0	0	0
17	0	0	0	0	202	935	0	0	7	0	0	0
18	0	0	0	0	202	844	0	0	0	0	0	0
19	0	0	0	0	102	610	0	0	7.5	0	0	0
20	0	0	0	0	219	772	137	0	1.0	0	0	0
21	0	0	0	0	596	459	658	0	0	0	0	0
22	0	0	0	14	1090	377	658	0	0	0	0	0
23	0	0	0	6500	1770	330	658	0	0	0	0	0
24	0	0	0	6700	1920	246	667	0	0	0	0	0
25	0	0	0	3800	1940	216	676	0	0	0	0	0
26	0	0	0	2800	2110	216	685	0	0	0	0	0
27	0	0	0	1400	1270	223	667	0	0	0	0	0
28	0	0	0	850	873	385	631	0	0	0	0	0
29	0	0	0	480		410	800	0	0	0	0	0
30	0	0	0	320		720	968	0	0	0	0	0
31	0		0	460		552		0		0	0	
	0	0	0	23324	16886.0	35236	7913.5	4442.5	419.2	0	0	0
MEAN	0	0	0	752	603	1138	264	143	14.0	0	0	0
ACRE-FEET	0	0	0	46260	33490	69990	15700	8810	831	0	0	0

Remarks:

YEAR OR PERIOD — MEAN 242 — ACRE-FEET 175100

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F 280 8

Daily discharge, in second-feet of RIO HONDO DIVERSION below Santa Fe Dam for the year ending September 30, 19 43

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	5.5	0	0	0
3	0	0	0	0	0	0	0	0	63	0	0	0
4	0	0	0	0	0	0	0	0	69	0	0	0
5	0	0	0	0	0	0	0	0	68	0	0	0
6	0	0	0	0	0	0	0	25	66	0	0	0
7	0	0	0	0	0	0	0	46	47	0	0	0
8	0	0	0	0	0	0	0	34	0.2	0	0	0
9	0	0	0	0	0	0	0	7	0	0	0	0
10	0	0	0	0	0	0	0	3.9	0	0	0	0
11	0	0	0	0	0	0	0	0.6	0	0	0	0
12	0	0	0	0	0	0	0	0	7	0	0	0
13	0	0	0	0	0	0	0	0	24	0	0	0
14	0	0	0	0	0	0	0	0	23	0	0	0
15	0	0	0	0	0	0	0	0	18	0	0	0
16	0	0	0	0	0	0	0	0	13	0	0	0
17	0	0	0	0	0	0	0	0	7	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	7.5	0	0	0
20	0	0	0	0	0	0	0	0	1.0	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	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	0	0	116.5	419.2	0	0	0
MEAN	0	0	0	0	0	0	0	3.76	14.0	0	0	0
ACRE-FEET	0	0		0	0	0	0	231	831	0	0	0

Remarks:

YEAR OR PERIOD — MEAN 1.47 — ACRE-FEET 1060

STATION F261B-R

SAN GABRIEL RIVER at Valley Boulevard

LOCATION:

On the right (west) abutment on the downstream side of the highway bridge about 1½ miles southeast of El Monte.

DRAINAGE AREA:

Not determined

CHANNEL AND CONTROL:

Shifting sand and gravel. Banks protected by piling and wire mesh. Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from Highway Bridge.

RECORDER:

Installed March 11, 1937 over a 21 inch diameter corrugated iron pipe well. A Horizontal Rational recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2, Morris Dam, Santa Fe Dam, Big Dalton Dam, San Dimas Dam, Puddingstone Diversion Dam, Puddingstone Dam, and Live Oak Dam. Gates not installed on outlets.

DIVERSIONS:

There are also several diversions for irrigation and spreading, Power development.

RECORDS AVAILABLE:

Station F261-R
March 11, 1937 to September 30, 1941.
Station F261B-R
October 1, 1941 to September 30, 1943.

EXTREMES OF DISCHARGE:
1942-1943
Maximum 9400, estimated, January 23.
Minimum no flow part of year.

ACCURACY:

Poor due to extreme and undetermined shift and obstructed Communication. Mean daily flows compared with San Gabriel River at Beverly Boulevard.

OPERATION:

Located and operated by the Los Angeles County Flood Control District in co-operation with the San Gabriel Valley Protective Association.

REMARKS:

Station established primarily to determine percolation losses in the main San Gabriel Basin.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Valley Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
30	1-28	1027A / 1039A	Waddicor & Blakely	Two Channels			3.97	450.		.6	19	-0.02	FC 24
31	1-30	100P / 120P	Brewster	88.0	36.7	2.12	3.38	77.6		.6	9	0	FC 35
32	2-5	440P / 500P	"	62.0	30.9	2.59	3.62	80.0		.6	8	-.04	FC 12
33	2-11	506P / 512P	"	3.0	0.50	0.84	2.76	0.42		.6	3	0	"
34	2-19	1140A / 1145A	"	3.0	0.48	0.62	2.74	0.30		.6	3	0	"
35	3-12	315P / 335P	"	Two Channels			4.50	747.		.6	13	0	"
36	3-19	310P / 325P	"	44.0	22.2	2.77	3.40	61.5		.6	7	-.04	"
37	3-26	1030A / 1050A	"	48.0	43.4	3.18	3.78	138.		.6	9	0	"
38	4-2	1110A / 1130A	"	46.0	47.0	3.13	2.58	147.		.6	9	0	"
39	4-6	1250P / 100P	"	16.0	7.60	1.57	1.96	11.9		.6	4	0	"
40	4-9	310P / 320P	"	16.0	8.00	1.35	1.91	10.8		.6	5	0	"
41	4-16	300P / 310P	"	18.0	8.32	1.33	1.88	11.1		.6	5	0	"
42	4-23	215P / 245P	"	99.0	135.	3.93	3.22	530.		.6	11	0	"
43	4-30	145P / 215P	"	110.0	163.	4.01	2.88	653.		.6	11	0	"
44	5-7	1055A / 1115A	"	24.0	10.0	1.34	-	13.4		.6	6	-	"
45	5-13	1052A / 1106A	"	28.0	15.6	0.81	-	12.6		.6	7	-	"
46	5-21	1020A / 1030A	"	20.0	13.2	0.67	-	8.8		.6	5	-	"
47	5-28	1015A / 1025A	"	18.0	6.70	0.91	-	6.1		.6	5	-	"
48	6-4	1016A / 1028A	"	24.0	8.00	0.90	-	7.2		.6	6	-	"
49	6-11	1010A / 1022A	"	24.0	6.80	0.74	-	5.0		.6	6	-	"
50	6-17	1015A / 1027A	"	24.0	6.96	0.70	-	4.9		.6	6	-	"
51	6-25	245P / 300P	Brewster	20.0	4.72	0.74	-	3.5		.6	5	-	FC 12
52	7-2	940A / 950A	"	14.0	3.44	0.81	-	2.8		.6	4	-	"
53	7-9	1005A / 1015A	"	16.0	4.40	0.50	-	2.2		.6	4	-	"
54	7-16	1000A / 1010A	"	8.0	2.40	1.00	-	2.4		.6	4	-	"
55	7-23	945A / 955A	"	7.0	2.05	1.27	-	2.6		.6	4	-	"
56	7-30	1005A / 1015A	"	8.0	2.16	0.93	-	2.0		.6	4	-	"
57	8-6	952A / 1000A	"	8.0	2.20	0.82	-	1.8		.6	4	-	"
58	8-13	1012A / 1020A	"	8.0	1.84	0.76	-	1.4		.6	4	-	"
59	8-20	1015A / 1025A	"	8.0	2.20	0.77	-	1.7		.6	4	-	"
60	8-27	1000A / 1020A	Haig	13.0	3.67	0.41	-	1.5		.6	7	-	FC 35
61	9-3	242P / 250P	"	14.0	2.59	0.58	-	1.5		.6	7	-	"
62	9-10	950A / 1000A	Brewster	8.0	2.12	0.85	-	1.8		.6	4	-	FC 12
63	9-17	1010A / 1018A	"	7.0	1.68	0.65	-	1.1		.6	4	-	"
64	9-24	1000A / 1006A	"	6.0	1.28	0.78	-	1.0		.6	3	-	"

F.C. Dist. Form 83 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F261B-R

Daily discharge, in second-feet of SAN GABRIEL RIVER At Valley Boulevard for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	410	1000	281	580	7	2.9	1.9	1.5
2	0	0	0	0	406	550	160	610	7	2.8	1.9	1.5
3	0	0	0	0	1130	1600	45	770	7	2.7	1.9	1.5
4	0	0	0	0	257	3500	32	740	7	2.6	1.8	1.6
5	0	0	0	0	375	3800	20	430	7	2.5	1.8	1.6
6	0	0	0	0	322	3000	12	13	6	2.5	1.7	1.7
7	0	0	0	0	318	2000	12	13	6	2.4	1.7	1.7
8	0	0	0	0	294	1500	12	13	6	2.3	1.6	1.8
9	0	0	0	0	0.4	1500	11	13	6	2.2	1.6	1.8
10	0	0	0	0	0.4	1500	11	13	5	2.2	1.5	1.7
11	0	0	0	0	0.4	700	11	13	5	2.3	1.5	1.6
12	0	0	0	0	0.4	750	11	13	5	2.3	1.4	1.5
13	0	0	0	0	0.4	750	11	13	5	2.3	1.4	1.4
14	0	0	0	0	0.4	775	11	12	5	2.3	1.5	1.3
15	0	0	0	0	0.4	657	11	12	4.9	2.4	1.5	1.2
16	0	0	0	0	0.3	760	11	11	4.9	2.4	1.6	1.1
17	0	0	0	0	0.3	700	11	11	4.9	2.4	1.6	1.1
18	0	0	0	0	0.3	820	25	10	4.7	2.5	1.7	1.1
19	0	0	0	0	0.3	510	12	10	4.6	2.5	1.7	1.1
20	0	0	0	0	0.3	530	25	9	4.4	2.5	1.7	1.0
21	0	0	0	0	160	200	590	9	4.2	2.5	1.6	1.0
22	0	0	0	960	800	150	590	9	4.0	2.6	1.6	1.0
23	0	0	0	8000	1600	120	550	8	3.9	2.6	1.6	1.0
24	0	0	0	6750	1800	110	660	8	3.7	2.5	1.6	1.0
25	0	0	0	3900	1850	130	590	7	3.5	2.4	1.5	1.0
26	0	0	0	3100	2250	140	600	7	3.4	2.3	1.5	1.0
27	0	0	0	1800	1350	150	650	6	3.3	2.3	1.5	1.0
28	0	0	0	580	1000	290	860	6	3.2	2.2	1.5	1.1
29	0	0	0	350		290	650	6	3.1	2.1	1.5	1.1
30	0	0	0	110		500	650	6	3.0	2.0	1.5	
31	0		0	680		400		6		2.0		
	0	0	0	26230	14376.3	29382	7125	3387	147.7	74.5	50.3	39.6
MEAN	0	0	0	846.	549.	948.	238.	109.	4.92	2.40	1.62	1.32
ACRE-FEET	0	0	0	52030.	28510	58280	14130.	6720.	293.	148.	100.	79.

Remarks: Poor Record - see Accuracy

YEAR OR PERIOD MEAN 221.
ACRE-FEET 160300.

STATION F263R

SAN GABRIEL RIVER at Beverly Boulevard

LOCATION:

On the downstream side of the Beverly Boulevard bridge approximately 3/4 mile northeast of Pico.

DRAINAGE AREA:

Not determined.

CHANNEL AND CONTROL:

Channel-sand and silt.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 145 feet above station.

RECORDER:

Installed on February 4, 1937 over a 21 inch diameter corrugated iron pipe stilling well. An Au continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2, Morris Dam Santa Fe Dam* Big Dalton Dam. Puddingstone Diversion Dam, Puddingstone Dam. Live Oak Dam, and Thompson Creek Dam.
*Gates not installed on outlets.

DIVERSIONS:

There are several diversions for irrigation, power development, and spreading.

RECORDS AVAILABLE:

February 4, 1937 to September 30, 1943. (For records prior to February 4, 1937 see Station F63R, San Gabriel River at Whittier Boulevard in previous reports. For records prior to 1929 see State Division of Water Rights Bulletins V and VI.)

EXTREMES OF DISCHARGE:

1942-1943
Maximum 14800 second-feet, January 23
Minimum no flow part of year.
1936-1943
Maximum 22700 second-feet, estimated, March 2, 1938.
Minimum no flow at various times. (For earlier years see Station F63R.)

ACCURACY:

Fair.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F263-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Beverly boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
320	10-29	1158A / 1210P	Brewster	14.0	5.22	0.88	3.56	4.6		.6	4	0	FC 12
321	11-5	1146A / 1155A	"	14.0	3.68	0.46	3.45	1.7		.6	4	0	"
322	11-12	1208P / 1220P	"	14.0	4.06	0.76	3.53	3.1		.6	4	0	"
323	11-19	1204P / 1216P	"	20.0	7.60	1.24	3.68	9.4		.6	5	0	"
324	11-25	1245P / 1255P	"	14.0	4.06	0.71	3.46	2.9		.6	4	0	"
325	12-3	1250P / 100P	"	14.0	4.60	0.73	3.52	3.2		.6	4	0	"
326	12-10	1204P / 1221P	Brewster	14.0	3.26	0.77	3.46	2.5		.6	4	0	FC 12
327	12-25	1210P / 1220P	"	8.0	1.88	0.80	3.42	1.5		.6	4	0	"
328	12-30	1226P / 1248P	"	Two Channels			3.84	35.6		.6	9	0	"
329	1-8	100P / 120P	"	"	"		3.85	43.8		.6	9	0	"
330	1-15	125P / 145P	"	"	"		3.76	30.9		.6	10	+.01	"
331	1-21	311P / 326P	Waddicor & Blakely	"	"		3.83	37.7		.6	15	0	FC 24
333	1-22	900A / 938A	Wallace & Andrews	215.	3.48	4.91	5.91	1710.		.6	15	-.18	FC 42
334	1-23	145A / 220A	Waddicor & Blakely	340.	1311.	8.70	8.60	11400.	Surf.	8		-.25	FC 24
335	1-23	405P / 440P	" "	Two Channels			7.32	8640.	Surf.	9		-.25	"
336	1-28	239P / 300P	Brewster & Blakely	161.	155.	4.41	4.19	683.		.6	18	-.02	FC35
337	1-30	205P / 230P	Brewster	64.0	57.9	3.45	3.66	200.		.6	8	0	"
338	2-3	723A / 747A	Bonadiman & Brewster	190.	458.	6.94	5.47	3180.		.6	11	+.15	FC 19
339	2-3	1215P / 1235P	" "	180.	310.	6.23	4.76	1930.		.6	10	-.08	"
340	2-4	820A / 832A	Bonadiman	155.	74.0	1.69	3.61	125.		.6	10	0	"
341	2-5	110P / 145P	Brewster	178.	199.	4.79	4.34	953.		.6	18	-.05	FC 12
342	2-7	1202P / 1222P	Bonadiman	180.	174.	4.87	4.37	847.		.6	11	-.03	FC 19
343	2-8	132P / 152P	Bonadiman	180.	200.	4.93	4.48	985.		.6	11	+.02	FC 19
344	2-11	140P / 210P	Brewster	Two Channels			3.58	74.0		.6	13	0	FC 12
345	2-19	150P / 220P	"	"	"		3.68	74.6		.6	15	0	"
346	2-22	340P / 410P	Waddicor & Mellen	170.	286.	6.19	4.78	1770.		.6	18	-.15	FC 24
347	2-23	140A / 203A	" "	173.	358.	7.57	5.20	2710.		.6	13	-.20	"
348	2-24	145P / 217P	Waddicor & Blakely	180.	340.	6.29	4.90	2140.		.6	14	+.02	"
349	2-26	150P / 230P	Brewster	194.	330.	6.48	5.02	2140.		.6	11	-.04	FC 12
350	3-4	150A / 212A	Waddicor & Mellen	160.	460.	7.61	5.90	3500.		.6	11	-	FC 28
351	3-4	1148A / 1205P	Wallace	200.	547.	8.63	5.80	4720.		.6	14	-	FC 42
352	3-8	1125A / 1152A	Blakely	178.	296.	6.72	5.50	1990.		.6	12	+.05	FC 44
353	3-12	1250P / 120P	Brewster	164.	215.	4.20	4.92	903.		.6	11	0	FC 12
354	3-19	1255P / 120P	"	Two Channels			4.32	345.		.6	13	-.02	"
355	5-26	115P / 145P	"	"	"		4.52	244.		.6	15	+.03	"
356	4-2	100P / 130P	"	"	"		4.49	246.		.6	15	0	"
357	4-6	1135A / 1155A	"	58.0	60.9	2.17	4.44	132.		.6	8	0	"
358	4-9	1235P / 105P	"	56.0	42.9	2.42	4.37	104.		.6	9	0	"
359	4-16	1206P / 1240P	"	Two Channels			4.47	102.		.6	16	0	"
360	4-23	330P / 400P	"	194.	176.	3.60	4.92	634.		.6	20	0	"
361	4-30	305P / 345P	"	195.	208.	3.64	4.96	758.		.6	21	-.01	"
362	5-7	140P / 210P	"	Two Channels			4.42	99.8		.6	12	0	"
363	5-13	130P / 155P	"	"	"		4.46	82.5		.6	13	0	"
364	5-21	1225P / 1241P	"	"	"		4.34	35.8		.6	10	0	"
365	5-28	1215P / 1233P	Brewster	32.0	17.2	1.01	4.34	17.3		.6	5	0	FC 12
366	6-4	1215P / 1230P	"	27.0	11.0	1.42	4.33	15.6		.6	5	0	"
367	6-11	1220P / 1240P	"	33.0	15.6	1.56	4.23	24.3		.6	6	0	"
368	6-18	1025A / 1040A	"	60.0	25.3	1.39	4.30	35.2		.6	7	0	"
369	6-25	1130A / 1150A	"	30.0	8.64	1.38	4.28	11.9		.6	6	0	"
370	7-2	1135A / 1147A	"	44.0	10.7	1.00	4.22	10.7		.6	6	0	"
371	7-9	1146A / 1158A	"	13.0	3.46	1.16	4.20	4.0		.6	5	0	"
372	7-16	1225P / 1235P	"	16.0	4.68	1.11	4.38	5.2		.6	5	-.01	"
373	7-23	1135A / 1150A	"	32.0	8.66	1.02	4.44	8.8		.6	6	-.01	"
374	7-30	1203P / 1215P	"	17.0	4.86	1.30	4.41	6.3		.6	5	0	"
375	8-6	1139A / 1145A	"	6.0	0.92	0.62	4.22	0.57		.6	3	-.01	"
376	9-10	1140A / 1146A	"	7.0	1.29	0.85	4.41	1.1		.6	3	0	"

P.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

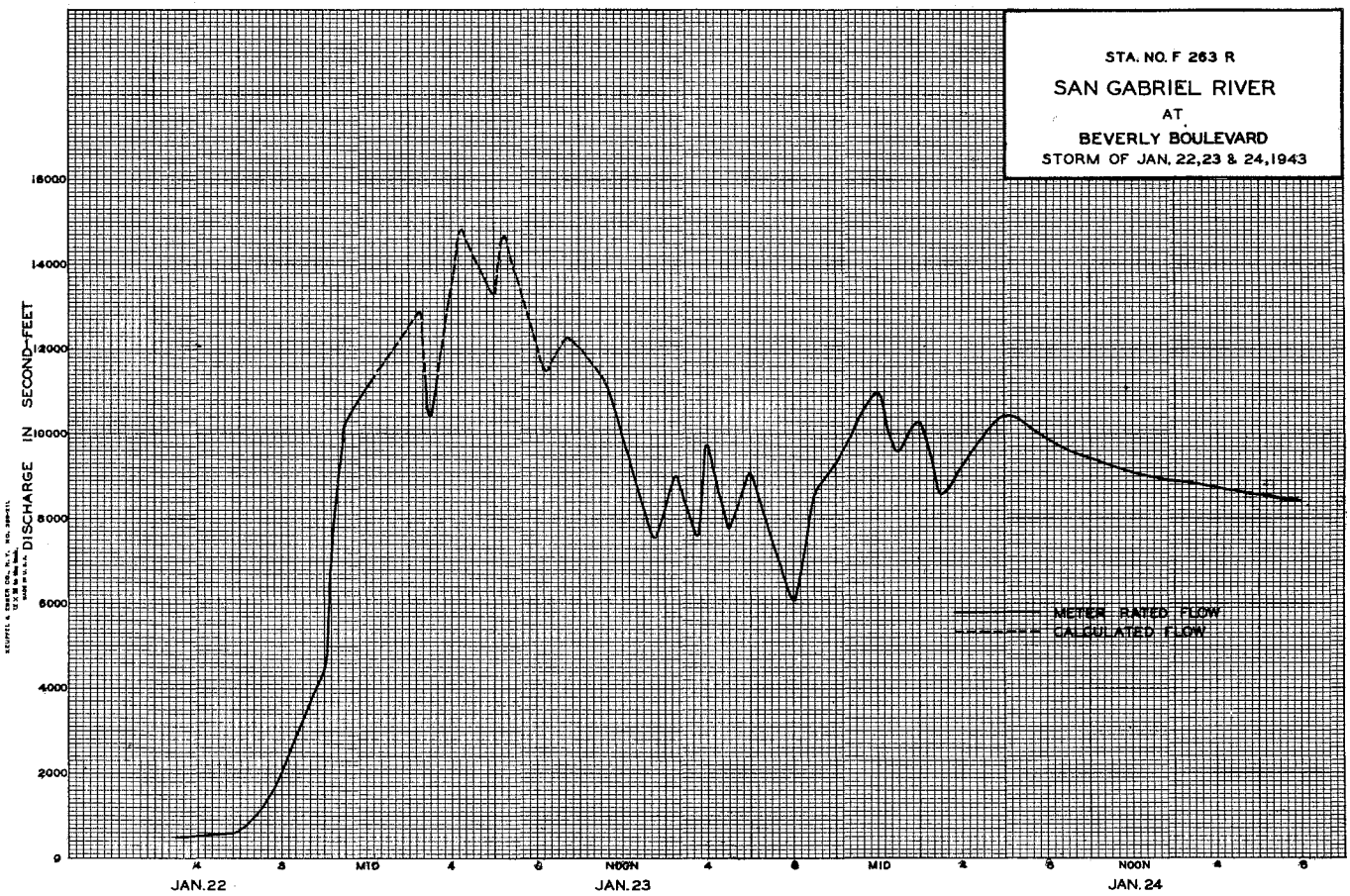
Sta. No. F263R

Daily discharge, in second-feet of SAN GABRIEL RIVER At Beverly Boulevard, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1	0	7.5	11	32	499	a 1240	381	659	11	b 11	7	0
2	0	4.0	3.4	29	486	a 700	286	686	14	b 11	7	0
3	0	2.5	3.4	25	1260	a 1800	145	846	18	b 10	5.5	0.8
4	0	1.9	3.7	25	337	5200	132	816	21	b 9	5	
5	0	1.3	4.0	26	455	6260	132	512	25	b 8	1.8	1.8
6	0	3.1	4.6	29	402	5320	132	81	29	b 7	1.6	1.5
7	0	4.0	1.9	35	398	2600	138	86	32	b 6	0	0.6
8	0	3.0	1.0	40	374	1880	145	86	36	b 5	3.9	0.6
9	0	0.2	1.6	38	118	1580	104	92	32	b 4.0	3.3	0.6
10	0	+	2.2	35	97	1270	118	111	18	b 5	4.9	0.5
11	0	1.1	3.1	35	86	1340	111	111	25	b 5.5	2.7	0
12	0	3.4	3.7	36	92	920	104	97	29	b 6	2.5	0
13	0	3.1	4.0	32	97	860	97	92	29	7	2.2	+
14	0	3.1	3.1	29	92	875	125	92	18	7	1.1	0
15	0	4.0	2.7	30	104	757	111	86	25	6	1.2	0
16	0	6.5	0	45	86	860	104	86	21	5	5	0
17	0	6	0	42	92	801	104	75	29	5	0.9	
18	0	6	0	40	81	920	125	70	29	9	0	0.8
19	0	7	0	33	75	610	104	48	11	8	0	0.9
20	0	6.5	0.9	35	81	631	125	36	11	9	0	0.6
21	0	3.7	0.7	45	258	296	672	36	11	12	+	0.1
22	0	4.0	0.5	1650	1370	246	672	36	11	5	1.8	0
23	0	3.7	1.3	10500	2160	219	631	36	12	7	0.1	0
24	0	4.0	13	a 7000	1980	210	742	36	12	7	0	0
25	0	3.7	43	a 4000	2000	228	672	25	12	8	0	0
26	0	6.5	50	a 3200	2200	237	686	25	12	7	0	1.3
27	0	4.0	47	a 1900	1620	246	728	25	12	5.5	0	1.4
28	1.9	3.1	43	a 683	1140	392	935	18	12	4.0	1.5	0.1
29	7	12	38	a 450		392	772	14	12	5	2.5	0
30	4.6	25	35	216		590	786	14	12	5.5	2.1	0
31	6		33	785		486		14		6	+	
	195	1439	358.8	31097	18040	39966	10119	5047	581	2155	65.0	11.6
Mean	0.63	4.80	11.6	1003.	644.	1290.	337.	163.	19.4	6.95	2.10	0.39
Acre-Feet	39.	285.	712.	61680.	35780.	79270.	20070.	10010.	1150.	427.	129.	2.3

Remarks:

Year or Period: Mean 289. Acre-Feet 209575.



STATION F262R

SAN GABRIEL RIVER at Florence Avenue

LOCATION:

On the downstream side of the Florence Avenue (formerly Easy Street) bridge about 2 miles east of Downey.

DRAINAGE AREA:

Not determined

CHANNEL AND CONTROL:

Shifting sand bottom between earth levees. No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of Highway bridge.

RECORDER:

Installed on February 27, 1937 over 18 inch diameter, corrugated iron pipe stilling well. The recorder was removed on March 2, 1938 and was reinstalled on April 4, 1938. An H.C.F. recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2, Morris Dam, Santa Fe Dam, Big Dalton, San Dimas Dam, Puddingstone Diversion Dam, Puddingstone Dam, Live Oak Dam and Thompson Creek Dam. Gates not installed on outlets.

DIVERSIONS:

There are several diversions for irrigation power development and spreading. Variable quantities of irrigation waste returns are recorded at the station.

RECORDS AVAILABLE:

February 27, 1937 to September 30, 1943. Recorder record lost from August 19, 1938 to November 23, 1938 due to theft of recorder. For earlier records see Station 237R, San Gabriel River at Telegraph Road.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 14000 second-feet, estimated, January 23.
Minimum no flow at various times.
1937-1943
Maximum not determined, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor.
Frequently estimated by comparison due to extreme and undetermined control shifts or loss of communication.

OPERATION:

Located and constructed by the Los Angeles County Flood Control District; and operated in co-operation with the San Gabriel Valley Protective Association.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F262-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Florence Avenue DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
250	1-22	930A / 945A	Bonadiman & Walton	218.0	384.	5.50	4.08	2100.		.6	8	-.21	FC 19
251	1-25	902A / 935A	Bonadiman	226.0	544.	6.42	4.80	3490.		.6	8	0	"
252	1-26	910A / 930A	"	235.0	566.	6.17	4.69	3490.		.6	9	+.02	"
253	1-27	841A / 900A	"	235.0	303.	5.48	3.77	1660.		.6	9	+.02 -.04	"
254	1-28	212P / 230P	Bonadiman & Moon	Three Channels			3.05	581.	Surf.	.6	12	+.01	"
255	1-29	232P / 250P	Bonadiman	82.7	106.	3.71	2.95	394.		.6	8	0	"
256	1-31	222P / 236P	Bonadiman & Walton	110.0	119.	4.96	3.13	592.		.6	9	0	"
257	2-3	839A / 859A	Bonadiman & Brewster	235.0	442.	7.15	4.30	3160.		.6	15	+.06	"
258	2-4	940A / 952A	Bonadiman	81.3	44.0	1.11	2.55	48.8		.6	9	0	"
259	2-4	136P / 159P	"	Two Channels			3.33	715.	Surf.	.6	16	+.02	"
260	2-5	1026A / 1050A	"	"	"		3.35	875.	Surf.	.6	16	+.03	"
261	2-5	1206P / 1226P	"	Three Channels			3.35	889.	Surf.	.6	18	-.02 +.02	"
262	2-6	1011A / 1030A	"	Two Channels			3.27	706.		.6	16	+.02	"
263	2-6	1138A / 1158A	"	Three Channels			3.33	729.		.6	16	-.01	"
264	2-7	230P / 252P	"	"	"		3.33	863.		.6	18	+.02	"
265	2-8	251P / 317P	"	"	"		3.38	793.		.6	16	+.01	"
266	2-9	915A / 923A	"	45.0	25.0	1.60	2.43	39.9		.6	5	0	"
267	2-11	1024A / 1034A	"	31.0	17.5	1.47	2.36	25.7		.6	6	0	"
268	2-17	1257P / 108P	"	22.0	7.48	1.28	2.42	9.6		.6	6	0	"
269	2-19	1012A / 1022A	"	29.0	8.44	1.45	2.45	12.2		.6	7	0	"
270	2-22	1055A / 1110A	" & Walton	Two Channels			3.01	302.		.6	13	+.02	"
271	2-22	631P / 652P	Bonadiman & Walton	234.0	293.	5.29	3.80	1550.		.6	12	+.03	FC 19
272	2-23	231P / 255P	" "	235.0	335.	5.52	3.84	1850.	Surf.	.6+	13	-.06	"
273	2-24	812A / 834A	" "	235.0	362.	5.59	4.08	2030.		.6	12	+.02 -.03	"
274	2-25	930A / 946A	" "	235.0	296.	5.54	3.99	1640.	Surf.	.6+	12	-.05 +.02	"
275	2-26	926A / 952A	Bonadiman	235.0	428.	5.28	4.04	2260.		.6	12	+.01	"
276	3-3	1027A / 1046A	"	Two Channels			3.72	889.		.6	15	0	"
277	3-5	852A / 910A	Bonadiman & Walton	258.4	861.	6.70	6.10	5770.	Surf.		9	0	"
278	3-6	908A / 938A	" "	254.0	698.	8.65	5.70	6040.		.6	12	0	"
279	3-7	926A / 1002A	Bonadiman	252.3	582.	4.62	4.99	2690.		.6	13	-.06	"
280	3-10	945A / 1004A	"	226.0	189.	3.56	4.04	675.	Surf.	.6+	12	-.02	"
281	3-12	1031A / 1045A	"	252.0	225.	3.95	3.99	888.	Surf.	.6+	12	-.02	"
282	3-18	900A / 916A	"	196.0	203.	3.41	4.05	692.		.6	11	0	"
283	3-19	1006A / 1020A	"	206.0	179.	3.61	4.18	646.		.6	11	0	"
284	3-24	935A / 950A	"	130.0	67.9	2.56	3.83	174.		.6	9	0	"
285	3-26	1034A / 1042A	"	139.0	93.8	2.37	3.69	222.	Surf.		9	-.01	"
286	4-2	1020A / 1038A	"	Three Channels			3.83	196.		.6	13	0	"
287	4-9	900A / 920A	"	Two Channels			3.71	63.9		.6	15	0	"
288	4-16	1032A / 1055A	"	"	"		3.63	53.8		.6	13	0	"
289	4-22	1040A / 1105A	"	"	"		4.03	654.		.6	16	0	"
290	4-30	937A / 1010A	"	258.0	236.	3.07	4.16	725.	Surf.	.6	24	0	"
291	5-8	1000A / 1020A	"	64.0	43.5	1.40	3.40	61.1		.6	14	0	"
292	5-15	1002A / 1012A	"	36.0	18.6	1.33	3.45	24.7		.6	7	0	"

P.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

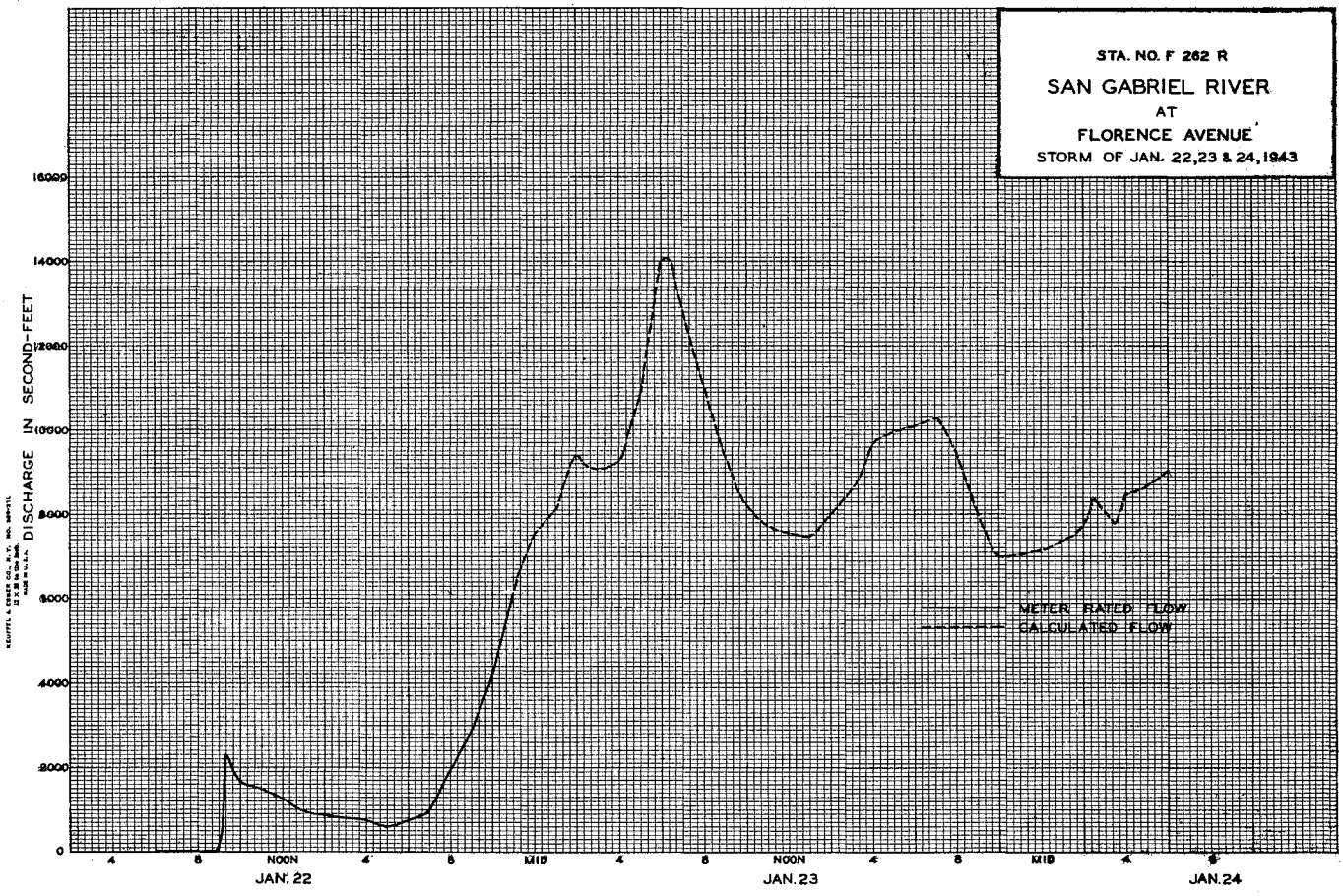
Sta. No F262-R

Daily discharge, in second-feet of SAN GABRIEL RIVER At Florence Avenue, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	420	1020	331	735	0	0	0	0
2	0	0	0	0	506	608	198	709	0	0	0	0
3	0	0	0	0	1100	1630	107	696	0	0	0	0
4	0	0	0	0	261	4430	71	670	0	0	0	0
5	0	0	0	0	425	5550	75	506	0	0	0	0
6	0	0	0	0	351	5600	89	b 235	0	0	0	0
7	0	0	0	0	306	2620	71	b 125	0	0	0	0
8	0	0	0	0	251	2130	66	61	0	0	0	0
9	0	0	0	0	29	1810	50	b 55	0	0	0	0
10	0	0	0	0	11	1120	53	b 50	0	0	0	0
11	0	0	0	0	16	1030	43	b 45	0	0	0	0
12	0	0	0	0	25	924	40	b 40	0	0	0	0
13	0	0	0	0	16	870	40	b 35	0	0	0	0
14	0	0	0	0	12	870	50	b 30	0	0	0	0
15	0	0	0	0	9	856	56	b 25	0	0	0	0
16	0	0	0	0	11	748	50	b 20	0	0	0	0
17	0	0	0	0	10	748	53	b 15	0	0	0	0
18	0	0	0	0	11	695	56	b 10	0	0	0	0
19	0	0	0	0	10	517	63	b 5	0	0	0	0
20	0	0	0	0	16	598	63	0	0	0	0	0
21	0	0	0	0	94	380	600	0	0	0	0	0
22	0	0	0	1260	974	268	683	0	0	0	0	0
23	0	0	0	9190	2100	220	646	0	0	0	0	0
24	0	0	0	6690	1840	175	800	0	0	0	0	0
25	0	0	0	3720	1800	b 206	774	0	0	0	0	0
26	0	0	0	2970	2220	b 237	782	0	0	0	0	0
27	0	0	0	1760	1640	295	761	0	0	0	0	0
28	0	0	0	622	960	380	735	0	0	0	0	0
29	0	0	0	390		370	722	0	0	0	0	0
30	0	0	0	b 170		586	709	0	0	0	0	0
31	0		0	612		506		0		0	0	
	0	0	0	27384	15424	38268	8842	4067	0	0	0	0
Mean	0	0	0	883.	551.	1230.	295.	131.	0	0	0	0
Acre-Feet	0	0	0	54320.	30590.	75900.	17540.	8070.	0	0	0	0

Remarks:

Year or Period — Mean 257. — Acre-Feet 186420.



STATION F42R

SAN GABRIEL RIVER at Spring Street Long Beach

LOCATION:

On downstream side of Spring Street bridge about 4 miles east of Signal Hill, near Long Beach. This station is at, or near, the location of the station operated in 1924 by the State Division of Water Rights.

DRAINAGE AREA:

Not determined.

CHANNEL AND CONTROL:

Channel-sand and silt over adobe with earth levees protected by wire mesh.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cat-walk on upstream side of bridge.

RECORDER:

Installed February 6, 1928 over a 21 inch diameter corrugated iron pipe stilling well. An Au continuous recorder in service October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2, Morris Dam, Santa Fe Dam*, Big Dalton Dam, San Dimas Dam, Puddingstone Diversion Dam, Puddingstone Dam, Live Oak Dam, and Thompson Creek Dam.
*Gates not installed on outlets.

DIVERSION:

There are several diversions for irrigation, power development and spreading.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 14,600 second-feet, January 23.
Minimum no flow most of year.
1927-1943
Maximum 27,000 second-feet, estimated, March 2, 1938.
Minimum no flow most of each year.

RECORDS AVAILABLE:

February 6, 1928 to September 30, 1943.
(For periods prior to February, 1928 see State Division of Water Rights Bulletins.)

ACCURACY:

Fair except poor for the period from February 26, to March 5, when communication was obstructed and mean daily flows were estimated by comparison.

OPERATION:

Operated by the Los Angeles County Flood Control District. Located by the State Division of Water Rights.

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F42-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT ~~NEAR~~ Spring street DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
202	1-23	435P 500P	Bonadiman & Walton	128.0	976.	10.6	11.13	10400.	Surf.	8		-.04	FC 19
203	1-25	1122A 1135A	Bonadiman	Two Channels			7.88	2720.	.6	8		+.05	"
204	1-26	1126A 1142A	"	"	"		8.25	2740.	.6	8		-.02	"
205	1-27	932A 950A	"	"	"		7.06	1640.	.6	8		0	"
206	1-28	332P 344P	Bonadiman & Moon	105.0	198.	2.18	6.22	432.	.6	7		-.01	"
207	1-29	102P 116P	Bonadiman	107.0	188.	1.38	6.01	260.	.6	10		0	"
208	1-31	1150A 1210P	Bonadiman & Walton	109.0	326.	3.94	6.92	1280.	.6 Surf.	7		0	"
209	2-3	1010A 1043A	Bonadiman & Brewster	115.0	445.	6.22	8.32	2770.	.6	11		+.36	"
210	2-3	115P 152P	" "	113.0	381.	6.20	8.15	2360.	.6	10		-.50	"
211	2-4	1112A 1130A	Bonadiman	Two Channels			5.36	36.9	.6	10		0	"
212	2-4	416P 432P	"	113.0	249.	2.49	6.78	620.	.6	10		+.10	"
213	2-5	201P 220P	"	110.0	263.	2.32	6.62	611.	.6	9		0	"
214	2-6	121P 132P	"	109.0	197.	3.50	6.46	688.	.6	9		-.02	"
215	2-6	553P 605P	"	110.0	225.	2.78	6.67	625.	.6	10		-.02 +.01	"
216	2-7	531P 545P	"	110.0	230.	3.16	6.72	728.	.6	9		-.03	"
217	2-8	522P 536P	"	110.0	193.	4.03	6.58	778.	.6	9		-.04 +.03	"
218	2-9	1132A 1150A	"	Two Channels			5.32	35.8	.6	8		0	"
219	2-11	1132A 1150A	"	35.0	18.0	0.94	5.03	17.0	.6	3		0	"
220	2-17	242P 250P	"	18.0	7.28	0.77	4.82	5.6	.6	5		0	"
221	2-19	1121A 1130A	"	23.0	7.57	0.51	4.76	3.9	.6	7		0	"
222	2-22	451P 506P	Bonadiman & Walton	110.0	359.	5.55	7.59	2000.	.6	9		-.02	"
223	2-23	1216P 1240P	Bonadiman & Walton	110.0	342.	4.48	7.39	1530.	.6	9		+.06 -.06	FC 19
224	2-24	442P 450P	" "	112.0	361.	5.12	7.84	1840.	.6	9		-.02	"
225	2-25	316P 330P	" "	110.0	354.	4.61	7.65	1630.	.6	9		0	"
226	2-26	1036A 1056A	Bonadiman	112.0	362.	5.12	7.94	1860.	.6	9		+.02	"
227	3-3	940P 1000P	Bonadiman & Walton	129.0	764.	7.38	10.55	5630.	Surf.	9		0	"
228	3-5	801A 809A	" "	121.0	852.	7.65	11.50	6650.	.6	8		0	"
229	3-6	1052A 1115A	" "	115.0	669.	8.69	10.96	5810.	.6	7		0	"
230	3-7	1041A 1102A	Bonadiman	110.0	352.	6.33	8.41	2230.	.6	7		-.02	"
231	3-8	1042A 1100A	"	110.0	311.	5.92	8.30	1840.	.6	7		0	"
232	3-10	1231P 1242P	"	105.0	175.	3.64	7.03	635.	.6	7		-.02	"
233	3-12	1202P 1215P	"	107.0	209.	3.72	7.55	779.	.6	9		0	"
234	3-18	1040A 1052A	"	110.0	222.	2.82	7.51	628.	.6	8		-.02	"
235	3-19	1112A 1125A	"	112.0	195.	3.25	7.57	633.	.6	8		-.02	"
236	3-24	1132A 1150A	"	111.0	123.	1.97	6.94	243.	.6	9		0	"
237	3-26	1130A 1150A	"	Two Channels			6.86	150.	.6	9		0	"
238	3-31	315P 335P	"	110.0	207.	2.14	7.52	443.	.6	10		0	"
239	4-2	1200M 1216P	"	110.0	105.	1.64	6.90	172.	.6	9		0	"
240	4-9	1022A 1050A	"	Two Channels			6.44	59.2	.6	12		0	"
241	4-16	1150A 1215P	"	"	"		6.38	43.1	.6	15		0	"
242	4-22	1214P 1229P	"	109.0	179.	2.78	7.81	498.	.6	10		0	"
243	4-30	1132A 1200M	"	122.0	204.	2.95	8.17	602.	.6	12		-.02	"
244	5-8	1212P 1225P	"	107.0	39.9	1.04	6.62	41.6	.6	10		0	"
245	5-15	1117A 1130A	"	35.0	19.1	0.92	6.47	17.5	.6	9		0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

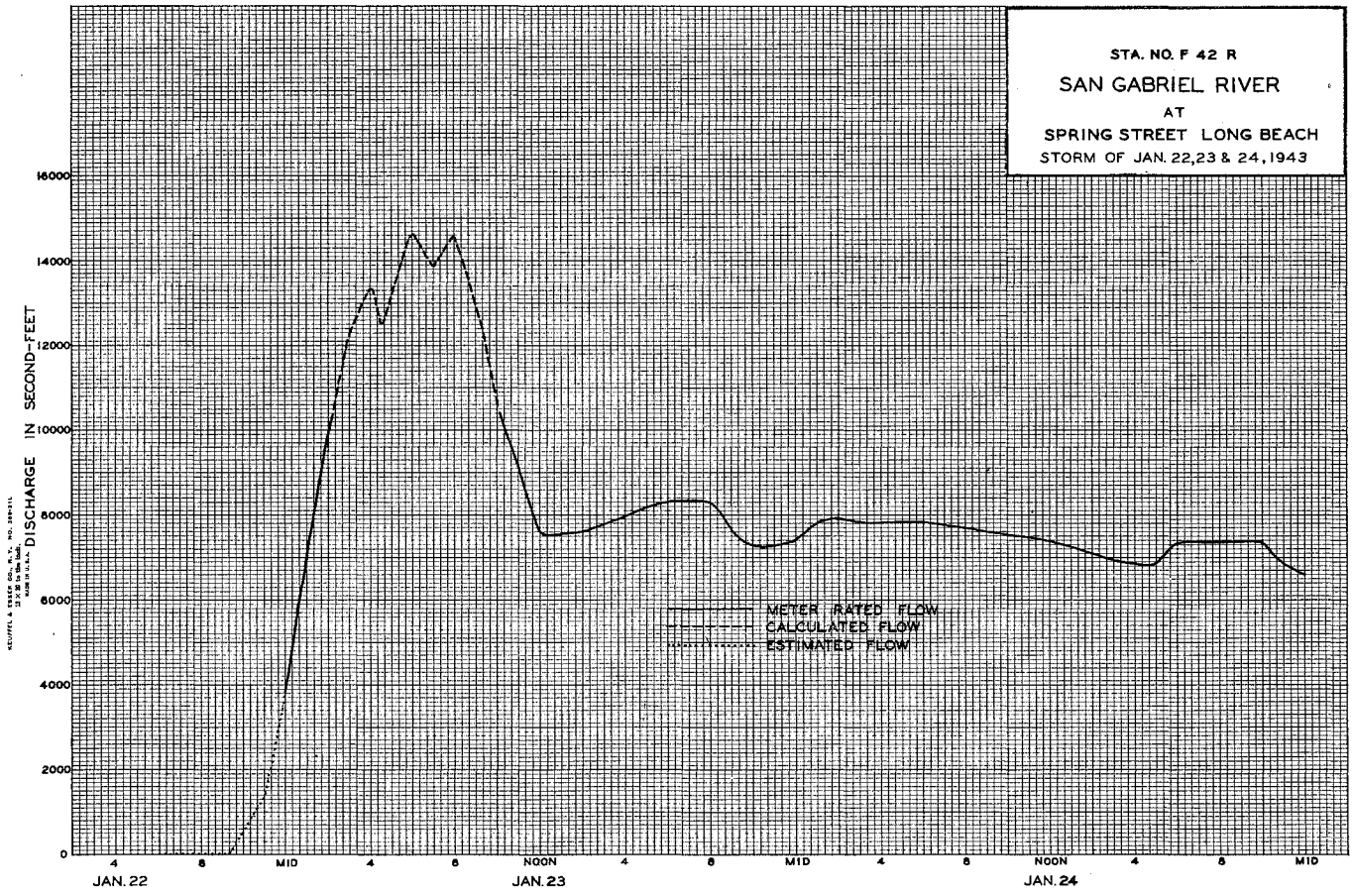
Sta. No F42R

Daily discharge, in second-feet of SAN GABRIEL RIVER At Spring Street, Long Beach, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	209	b1000	448	655	0	0	0	0
2	0	0	0	0	196	b 500	243	710	0	0	0	0
3	0	0	0	0	867	b1500	138	655	0	0	0	0
4	0	0	0	0	a 166	b4000	55	626	0	0	0	0
5	0	0	0	0	a 234	b5000	52	513	0	0	0	0
6	0	0	0	0	274	5220	63	b 128	0	0	0	0
7	0	0	0	0	257	b2270	55	b 74	0	0	0	0
8	0	0	0	0	284	b1970	52	b 44	0	0	0	0
9	0	0	0	0	65	1990	52	b 40	0	0	0	0
10	0	0	0	0	18	1540	46	b 38	0	0	0	0
11	0	0	0	0	15	1010	42	b 33	0	0	0	0
12	0	0	0	0	11	940	42	27	0	0	0	0
13	0	0	0	0	9.5	890	44	23	0	0	0	0
14	0	0	0	0	7.5	872	46	21	0	0	0	0
15	0	0	0	0	7.5	917	43	16	0	0	0	0
16	0	0	0	0	7	810	43	14	0	0	0	0
17	0	0	0	0	5.5	872	43	14	0	0	0	0
18	0	0	0	0	4.5	764	43	10	0	0	0	0
19	0	0	0	0	4.5	545	43	6	0	0	0	0
20	0	0	0	0	5.5	748	43	b 2.4	0	0	0	0
21	0	0	0	0	28	519	444	0	0	0	0	0
22	0	0	0	139	970	412	599	0	0	0	0	0
23	0	0	0	9570	1880	336	596	0	0	0	0	0
24	0	0	0	7440	1780	255	603	0	0	0	0	0
25	0	0	0	3740	1660	180	603	0	0	0	0	0
26	0	0	0	2770	1860	141	596	0	0	0	0	0
27	0	0	0	1450	b1600	138	626	0	0	0	0	0
28	0	0	0	579	b 800	245	564	0	0	0	0	0
29	0	0	0	267		378	644	0	0	0	0	0
30	0	0	0	71		665	663	0	0	0	0	0
31	0		0	647		556		0		0	0	
	0		0		13225.5		7574.0		0		0	
		0		26673.0		37183.0		3649.4		0		0
MEAN	0	0	0	860.	472.	1200.	252	118.	0	0	0	0
ACRE-FEET	0	0	0	52900.	26230.	73750.	15020.	7240.	0	0	0	0

Remarks:

YEAR OR PERIOD — MEAN 280.
ACRE-FEET 175100.



STATION F48R

SAN JOSE CREEK at Workman Mill Road

LOCATION:

On downstream side of highway bridge, about 3 miles north of Whittier. This Station is at, or near, the location of the Station operated from 1923 to 1929 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:

Low flows measured by wading.
High flows measured from cable car 150 feet below station.

RECORDER:

Installed January 2, 1929 over an 18 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by Thompson Creek Dam.

DIVERSIONS:

Small diversion for spreading. (See Station F276R.)

RECORDS AVAILABLE:

January 2, 1929 to September 30, 1943.
(For records prior to January 2, 1929 see State Division of Water Rights Bulletins.)

EXTREMES OF DISCHARGE:

1942-1943
Maximum 8040 second-feet, January 23.
Minimum 1.3 second-foot, November 7.
1928-1943
Maximum 13100 second-feet, January 1, 1934.
Minimum no flow at various times.

ACCURACY:

Good for low flows.
Fair for high flows due to undetermined shift.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F48-R

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK

AT Workman Mill Road DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
474	10-1	142P 148P	Brewster	8.0	2.32	0.82	1.08	1.9		.6	4	0	FC 12
475	10-8	205P 215P	"	8.0	1.96	0.82	1.08	1.6		.6	4	0	"
476	10-15	1240P 1248P	"	8.0	2.04	0.93	1.10	1.9		.6	4	0	"
477	10-22	110P 120P	"	8.0	1.92	0.89	1.02	1.7		.6	4	0	"
478	10-29	135P 145P	"	8.0	2.04	0.78	1.02	1.6		.6	4	0	"
479	11-5	1250P 102P	"	13.0	3.64	0.41	1.01	1.5		.6	5	0	"
480	11-12	220P 230P	"	8.0	2.04	0.88	1.00	1.8		.6	4	0	"
481	11-19	115P 125P	"	8.0	2.08	0.82	1.03	1.7		.6	4	0	"
482	11-25	230P 240P	"	8.0	2.52	0.95	1.08	2.4		.6	4	0	"
483	12-3	230P 238P	"	8.0	2.28	0.92	1.08	2.1		.6	4	0	"
484	12-10	150P 200P	"	8.0	2.08	0.96	1.08	2.0		.6	4	0	"
485	12-17	1232P 1240P	Brewster & Waddicor	11.0	4.10	0.44	1.08	1.8		.6	5	0	"
486	12-23	140P 150P	Brewster	11.0	3.65	0.63	1.10	2.3		.6	4	0	FC 12
487	12-30	200P 210P	"	14.0	4.68	0.45	1.03	2.1		.6	4	0	"
488	1-8	200P 210P	"	12.0	4.70	0.38	1.03	1.8		.6	4	0	"
489	1-15	310P 320P	"	10.0	4.52	0.55	1.08	2.5		.6	4	0	"
490	1-22	820P 835P	Waddicor & Blakely	110.	467.	6.10	5.70	2850.	Surf.	6		+.20	FC 24
491	1-23	255P 315P	" "	Two Channels			3.00	625.		.6	8	-.05	"
492	1-24	233P 248P	Brewster & Smith	36.0	18.4	1.96	1.32	36.0		.6	7	-.02	FC 35
493	1-25	230P 246P	" "	26.0	10.8	1.46	1.12	15.8		.6	7	-.01	"
494	1-27	245P 300P	Brewster	42.0	17.4	1.69	1.26	29.4		.6	6	-.02	"
495	1-30	323P 335P	"	30.0	11.2	1.37	1.14	15.3		.6	7	+.01	"
496	2-5	403P 415P	"	23.0	7.40	1.08	1.02	8.0		.6	6	0	FC 12
497	2-11	318P 330P	Brewster	20.0	5.72	1.15	0.93	6.6		.6	6	0	FC 12
498	2-19	320P 330P	"	12.0	5.60	1.30	0.83	7.3		.6	6	0	"
499	2-21	440P 457P	"	30.0	16.1	1.64	1.29	26.4		.6	6	-.01	"
500	2-22	235P 300P	"	82.0	157.	4.92	3.49	772.		.6	9	-.12	"
501	2-23	240A 300A	Waddicor & Mellen	52.0	94.5	4.96	3.67	469.		.6	9	-.08	FC 24
502	2-23	330P 342P	Waddicor	34.0	34.0	3.65	1.87	124.		.6	10	0	"
503	2-24	1210P 1221P	Waddicor & Blakely	46.0	55.2	3.75	0.80	207.		.6	12	-.02	"
504	2-26	405P 415P	Brewster	22.0	9.70	1.59	0.82	15.4		.6	6	0	FC 12
505	3-3	149P 155P	Wallace	20.5	16.2	2.52	0.97	40.8		.6	6	0	FC 42
506	3-8	150P 200P	Blakely	30.0	16.0	1.73	1.09	27.6		.6	10	0	FC 44
507	3-12	205P 215P	Brewster	22.0	12.1	1.62	0.87	19.6		.6	6	0	FC 12
508	3-19	210P 225P	"	22.0	11.9	1.29	0.82	15.4		.6	6	0	"
509	3-26	230P 242P	"	22.0	12.2	1.22	0.84	14.9		.6	6	0	"
510	4-2	250P 300P	"	21.0	9.40	1.30	0.86	12.2		.6	6	-.01	"
511	4-6	1115A 1125A	"	23.0	11.8	1.59	0.97	18.8		.6	6	0	"
512	4-9	145P 157P	"	23.0	10.2	1.27	0.87	13.0		.6	6	0	"
513	4-16	130P 140P	"	22.0	10.1	1.34	0.86	13.5		.6	6	0	"
514	4-23	440P 450P	"	22.0	10.1	1.19	0.91	12.0		.6	6	0	"
515	4-30	400P 412P	"	21.0	8.20	1.33	0.90	10.9		.6	6	0	"
516	5-7	315P 325P	"	22.0	9.30	1.28	0.93	11.9		.6	6	0	"
517	5-13	250P 302P	"	16.0	6.50	1.20	0.94	7.8		.6	5	0	"
518	5-21	220P 230P	"	20.0	6.14	1.06	0.93	6.5		.6	6	0	"
519	5-28	200P 212P	"	17.0	5.56	1.13	0.88	6.3		.6	5	0	"
520	6-4	140P 152P	Brewster	9.0	4.10	1.34	0.90	5.5		.6	5	0	FC 12
521	6-11	208P 220P	"	10.0	6.00	1.13	0.98	6.8		.6	5	0	"
522	6-17	950A 1000A	"	10.0	3.80	1.13	0.91	4.3		.6	5	0	"
523	6-25	100P 110P	"	8.0	3.80	0.97	0.90	3.7		.6	4	0	"
524	7-2	148P 200P	"	9.0	2.59	1.00	0.85	2.6		.6	5	0	"
525	7-9	120P 130P	"	10.0	2.64	1.06	0.83	2.8		.6	5	0	"
526	7-16	203P 215P	"	10.0	3.20	0.88	0.83	2.8		.6	5	0	"
527	7-23	120P 130P	"	8.0	3.40	0.88	0.81	3.0		.6	4	0	"
528	7-30	138P 150P	"	6.5	2.69	1.15	0.82	3.1		.6	4	0	"
529	8-6	110P 122P	"	6.0	2.12	1.23	0.84	2.6		.6	4	0	"
530	8-13	145P 155P	"	8.0	2.00	1.25	0.83	2.5		.6	4	0	"
531	8-20	220P 230P	"	8.0	2.00	1.00	0.76	2.0		.6	4	0	"
532	8-27	145P 150P	Haig	5.5	2.01	1.29	0.74	2.6		.6	7	0	FC 35
533	9-3	120P 125P	"	4.5	1.81	1.60	0.76	2.9		.6	5	0	"
534	9-10	135P 145P	Brewster	8.0	2.20	1.09	0.76	2.4		.6	4	0	FC 12
535	9-17	115P 125P	"	8.0	2.40	1.04	0.80	2.5		.6	4	0	"
536	9-24	120P 130P	"	8.0	2.44	0.98	0.80	2.4		.6	4	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

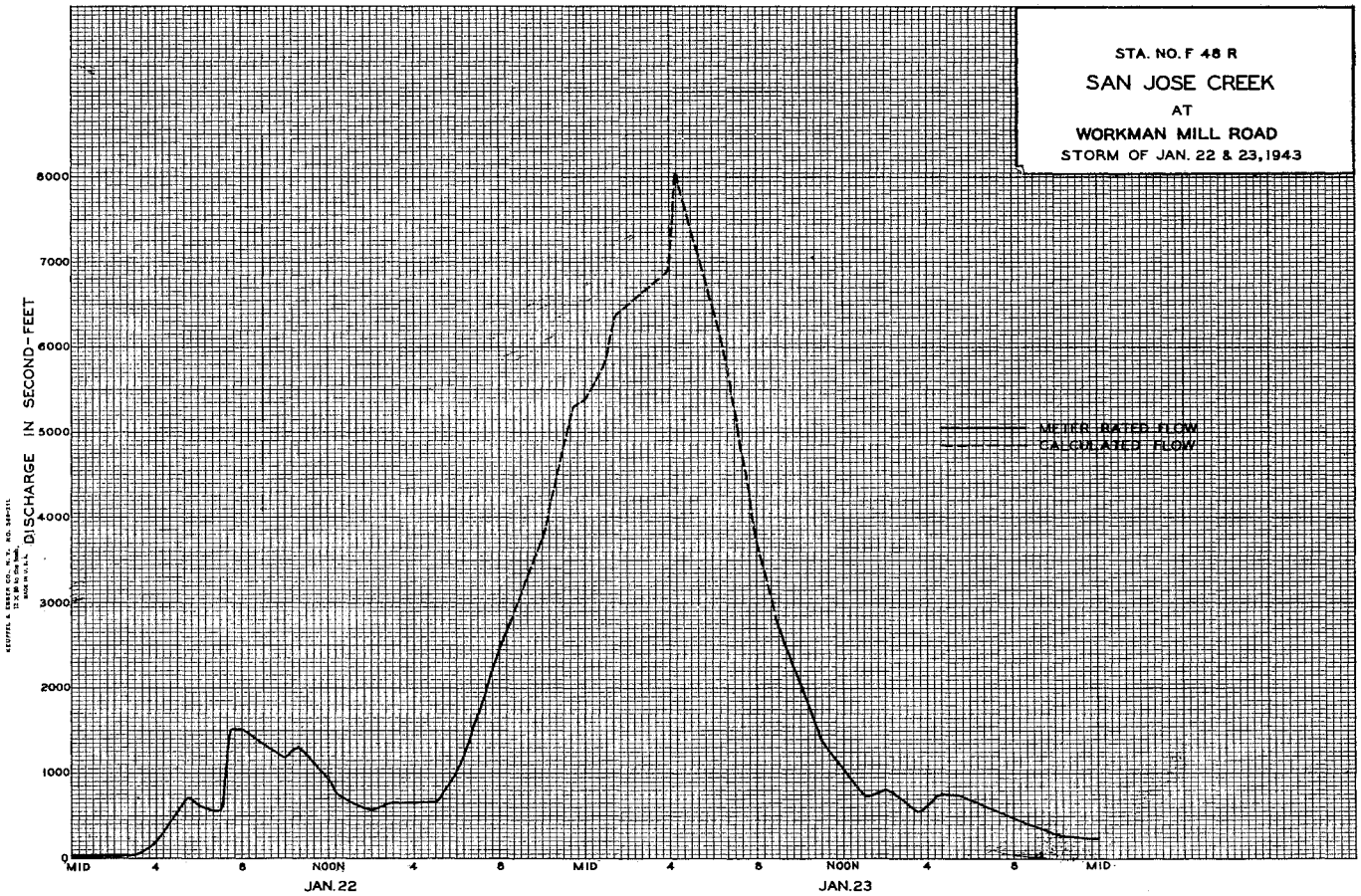
Sta. No F48R

Daily discharge, in second-feet of SAN JOSE CREEK At Workman Mill Road, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	1.4	2.0	2.0	34	9	14	11	6	2.3	2.6	2.6
2	1.8	1.4	2.2	1.9	23	9	13	12	6	2.3	2.3	2.6
3	1.4	1.4	2.2	1.6	16	866	13	12	6.5	2.3	2.3	2.8
4	1.4	1.4	2.3	1.6	b 12	1380	13	11	5	2.6	2.3	2.8
5	1.4	1.4	2.2	1.6	b 9.5	b352	13	11	4.7	2.6	2.6	2.3
6	1.5	1.5	1.9	1.5	9.5	78	18	12	4.5	2.8	2.3	2.2
7	1.9	1.5	1.9	1.4	9.5	56	13	12	3.4	2.6	2.0	2.6
8	1.9	1.5	2.0	1.5	46	33	14	11	4.5	2.8	2.0	3.1
9	2.0	1.6	2.2	1.8	20	32	14	11	4.7	2.8	2.0	2.8
10	1.8	1.8	2.0	1.8	b 13	25	15	9.5	5	2.6	2.8	2.6
11	1.9	1.8	1.9	1.6	7	23	14	8.5	5.5	2.6	2.8	2.2
12	1.8	1.8	1.9	1.8	7	21	13	8	4.5	2.3	2.6	2.2
13	1.9	1.8	2.0	2.0	7.5	21	14	8.5	5.5	2.3	2.6	2.2
14	2.0	1.9	1.5	2.0	7.5	20	14	8.5	6.5	2.6	2.6	2.6
15	1.9	1.9	1.4	2.3	8	19	15	8.5	6.5	2.8	2.3	2.8
16	1.9	1.9	1.6	2.8	8	18	16	5.5	6	2.8	2.3	2.6
17	2.2	1.9	1.8	2.3	8	19	15	5.5	4.2	2.8	2.2	2.6
18	2.2	1.9	1.8	2.0	7.5	34	14	6	5.5	2.8	2.3	2.6
19	1.6	1.6	1.9	2.2	6.5	17	14	5	5.5	2.3	2.2	2.6
20	1.8	1.6	2.2	2.3	6.5	18	13	6	5.5	2.8	2.2	2.6
21	1.9	1.5	2.0	3.5	19	18	12	5	4.5	2.8	2.3	2.3
22	1.6	1.5	2.2	1310	423	23	12	6	4.5	3.1	2.2	2.0
23	1.5	1.5	2.3	2740	275	21	12	5.5	4.2	3.1	2.2	2.2
24	1.4	1.6	3.7	82	151	19	12	6.5	4.7	2.8	2.3	2.3
25	1.4	2.3	5.5	18	b 46	18	11	7	4.2	3.1	2.6	2.3
26	1.5	2.6	2.2	26	18	17	11	7	3.9	2.8	2.3	2.3
27	1.5	2.0	1.8	85	14	18	11	6.5	3.7	2.6	2.6	2.2
28	1.8	1.9	1.8	10	12	18	11	6	3.9	2.8	2.8	2.3
29	1.9	2.6	1.9	9.5		15	11	6	2.2	2.8	2.8	2.3
30	1.4	1.9	2.0	49		16	11	6	2.3	2.8	2.8	2.3
31	1.4		2.0	285		15		6		2.6	2.6	
	53.5	52.4	66.3	4656	1224	3248	396	250.0	143.6	83.1	74.8	73.9
Mean	1.73	1.75	2.14	150.2	43.7	105.	13.2	8.06	4.79	2.68	2.41	2.46
Acre-Feet	106.	104.	132.	9240.	2430.	6440.	785.	496.	285.	165.	148.	147.

Remarks:

Year or Period Mean 28.3
Acre-Feet 20470



STATION U4R

LOS ANGELES RIVER BASIN Santa Anita Creek near Sierra Madre

LOCATION:

Water-stage recorder, lat. 34°11'30", long. 118°01'00", in SW¼NE¼ sec. 10, T 1 N., R. 11 W., at head of Hermits Falls, 4 miles northeast of Sierra Madre. Altitude of gage, about 1,460 feet (from topographic map).

DRAINAGE AREA:

10.5 square miles.

RECORDS AVAILABLE:

July 1916 to September 1943.

AVERAGE DISCHARGE:

27 years, 6.50 second-feet.

EXTREMES:

Maximum discharge during year, 2,530 second-feet Jan.23, (gage height, 12.33 feet) from rating curve extended above 202 second-feet by logarithmic plotting on basis of velocity mean-depth relationship; minimum daily, 0.4 second-foot Oct. 1-8.

1916-1943

Maximum discharge, about 5,200 second-feet Mar. 2, 1938, based on inflow to flood-control reservoir; practically no flow Aug. 18 to Sept. 14, 1929.

REMARKS:

Records good below 200 second-feet and fair above. No diversions above station.

F.C.D. FORM 104 SM 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U4R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

AT NEAR Sierra Madre DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
854	10-2		U.S.G.S.				0.32	0.46		.6	6	0	
855	10-15		"				0.36	0.56		.6	6	0	
856	10-26		"				0.36	0.52		.6 .8	14	0	
857	11-13		"				0.37	0.63		.6	6	0	
858	11-24		"				0.40	0.88		.6	8	0	
859	12-21		U.S.G.S.				0.41	0.92		.6	5	0	
860	12-28		"				0.47	1.3		.6	5	0	
861	1-12		"				0.41	1.0		.6	4	0	
861a	1-23		"				12.33	2530.		.6			
862	1-25		"				2.12	87.		.2	11	0	
863	2-2		"				1.89	63.		.6	24	-.02	
864	2-11		"				1.30	23.8		.6	19	-.07	
865	2-18		"				1.11	17.2		.6 .6	23	0	
866	3-1		"				1.87	53.		.8	18	0	
867	3-6		"				3.45	202.		.8	10	0	
868	3-8		"				2.67	139.		.8	20	0	
869	3-11		"				2.26	88.		.6	20	0	
870	3-17		"				1.83	59.		.8	17		
871	3-23		"				1.60	41.7		.8	16	0	
872	3-31		"				1.38	28.1		.8	16	-.01	
873	4-7		"				1.34	25.5		.6	20		
874	4-14		U.S.G.S.				1.24	22.5		.6	20	0	
875	4-19		"				1.18	18.8		.6	20	0	
876	4-26		"				1.10	17.0		.6 .2-.8	12	0	
877	5-3		"				1.05	16.0		.6	12	0	
878	5-10		"				0.98	13.1		.6	12	0	
879	5-17		"				0.95	12.1		.6	12	0	
880	5-31		"				0.90	10.6		.6	12	0	
881	6-10		"				0.84	8.6		.6	15	0	
882	7-9		"				0.68	4.5		.6	14	0	
883	7-15		"				0.70	5.1		.6	15	0	
884	7-25		"				0.62	3.4		.6	14	0	
885	7-26		"				0.66	3.4		.6	13	0	
886	8-13		"				0.60	2.8		.6	14	0	
887	8-30		"				0.55	2.0		.6	14	0	
888	9-14		"				0.52	1.9		.6	14	0	
889	9-24		"				0.52	2.0		.6	9	0	

F.C. Dist. Form 52 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No U4R

Daily discharge, in second-feet of SANTA ANITA CREEK Near Sierra Madre, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.8	0.9	1.1	73	54	28	16	11	5.5	3.1	2.1
2	0.4	0.7	0.9	1.1	64	50	27	16	11	5.5	3.2	2.1
3	0.4	0.7	0.9	1.1	56	114	26	16	10	5.5	3.4	2.1
4	0.4	0.8	0.9	1.1	49	522	25	16	10	5.5	3.6	2.1
5	0.4	0.8	1.0	1.1	45	361	27	16	10	5.5	3.6	2.1
6	0.4	0.8	1.0	1.0	40	213	32	15	9	5	3.4	2.1
7	0.4	0.8	1.0	1.0	36	156	26	14	9	4.9	3.4	2.1
8	0.4	0.7	1.0	1.0	36	141	30	14	8.5	4.9	3.2	2.1
9	0.5	0.7	1.0	1.0	30	112	27	13	8	4.7	3.1	2.1
10	0.5	0.7	0.9	1.0	26	95	26	13	8.5	4.9	3.1	2.1
11	0.7	0.6	0.9	1.0	24	85	25	13	8.5	4.9	2.9	2.1
12	1.2	0.6	0.9	1.0	22	79	24	13	9	4.9	2.9	2.1
13	0.7	0.6	0.9	1.0	21	74	23	12	9	4.9	2.9	2.1
14	0.6	0.6	0.9	1.0	20	69	23	12	8	5	3.1	2.1
15	0.6	0.7	0.9	1.0	19	66	22	12	7.5	5	3.1	2.1
16	0.6	0.8	0.9	1.0	18	62	22	12	7.5	5	2.9	2.1
17	0.6	0.8	0.9	1.1	18	60	21	12	7	4.9	2.9	2.0
18	0.6	0.8	0.9	1.1	17	59	19	11	7	4.7	2.9	1.8
19	0.6	1.5	1.0	1.1	17	53	19	11	7	4.7	2.9	1.8
20	0.6	1.1	1.0	1.1	16	49	18	11	7	4.5	2.9	1.8
21	0.5	1.0	0.9	1.7	33	46	18	11	6.5	4.3	2.9	1.7
22	0.5	0.9	0.9	912	129	45	18	11	6.5	4.1	2.8	1.7
23	0.5	0.9	1.0	902	112	42	17	10	6.5	4.0	2.6	1.7
24	0.5	0.9	1.8	169	120	41	17	11	6.5	3.8	2.5	2.0
25	0.6	0.9	3.7	92	92	38	17	11	6	3.4	2.4	2.4
26	0.5	0.9	1.7	75	78	37	17	11	6	3.4	2.2	2.5
27	0.5	0.9	1.4	67	68	35	17	11	6	3.2	2.1	2.5
28	1.3	0.9	1.3	54	60	34	17	10	6	3.2	2.1	2.3
29	1.3	0.9	1.2	48		32	17	11	6	3.2	2.1	2.4
30	1.0	0.9	1.2	70		31	16	11	5.5	3.2	2.1	2.1
31	0.8		1.2	104		29		11		3.1	2.1	
	190	24.7	350	2515.6	1339	2884	661	387	234.0	139.3	88.4	62.5
MEAN	0.61	.82	1.13	81.1	47.8	93.0	22.0	12.5	7.80	4.49	2.85	2.08
ACRE-FEET	38	49	69	4990	2660	5720	1310	768	464	276	175	124

Remarks:

YEAR OR PERIOD MEAN 23.0
ACRE-FEET 16,640

STATION F260B-R

SANTA ANITA WASH at Foothill Boulevard

LOCATION:

On the downstream side on left (east) end of Foothill Boulevard bridge, about one mile north of Arcadia, and approximately ½ mile below the confluence of Santa Anita Creek and Little Santa Anita Creek.
The former Station F260R was about 3/8 mile upstream.

DRAINAGE AREA:

17.2 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel, and boulders; banks protected with wire and rock.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of highway bridge.

RECORDER:

Installed April 22, 1938 over an 18 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by Big Santa Anita and Sierra Madre Dams.

DIVERSIONS:

About 2 second-feet diverted for irrigation at mouth of Big Santa Anita Canyon. The City of Sierra Madre diverts water from Little Santa Anita Canyon.
Flow occasionally diverted for spreading from Little Santa Anita Creek at Sierra Madre Spreading Grounds.

RECORDS AVAILABLE:

April 22, 1938 to September 30, 1943.
For records prior to April, 1938, see Station F260H and F21R.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 3800 second-feet, January 23.
Minimum no flow at various times.
1936-1943 (Stations F260R and F260B-R)
Maximum not determined, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair due to extreme and undetermined channel shift and occasional sanding during sluicing period at Santa Anita Dam.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F260B-R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

AT Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
260	10-28	624P / 627P	Haig & Waddicor	2.3	0.30	0.60	3.77	0.18		.6	3	-0.02	FC 33
261	11-12	951A / 953A	Haig	0.6	0.13	0.30	3.63	0.04		.6	2		"
262	11-25	1056A / 1058A	"	0.5	0.06	0.17	3.58	0.01		.6	2		"
263	12-10	1155A / 1158A	"	1.3	0.26	1.04	3.72	0.27		.6	2	-0.01	"
264	12-23	1145A / 1150A	"	1.8	0.30	0.87	3.74	0.26		.6	4		"
265	1-8	1100A / 1105A	"	3.0	0.43	0.65	3.73	0.28		.6	4	-0.01	"
266	1-21	855P / 902P	Haig & Clair	9.0	2.33	0.94	4.03	2.2		.6	6	+0.03	"
267	1-21	1020P / 1030P	" "	18.0	13.8	2.30	4.73	31.8		.6	7	+0.07	"
268	1-22	615A / 645A	" "	32.0	61.8	6.76	6.20	418.		.6	9	+0.20	"
269	1-22	1005A / 1025A	" "	32.0	77.3	8.98	4.76	694.		.6	10	+0.15 -0.10	"
270	1-22	740P / 840P	Haig & Wallace	38.0	108.	12.8	6.22	1390.	Est.	.6	7	-0.85 +0.20	"
271	1-24	120P / 150P	Haig	33.0	73.2	8.46	5.74	619.		.6	10		FC 33
272	1-25	435P / 445P	Haig & Wallace	29.5	36.4	2.40	4.14	87.4		.6	10	-0.03	"
273	1-26	405P / 412P	Haig	26.0	22.8	2.74	4.07	62.6		.6	11	0	"
274	1-27	1005A / 1013A	"	27.0	17.8	3.81	4.03	67.6		.6	14		"
275	1-29	148P / 200P	"	24.5	16.2	3.02	3.93	49.0		.6	12	-0.02	"
276	1-30	1158A / 1212P	"	23.0	13.1	3.10	3.85	40.6		.6	11	0	"
277	1-31	305P / 315P	"	30.0	25.5	4.47	4.44	114.		.6	11	0	"
278	2-3	1157A / 1215P	"	29.0	27.5	3.67	4.25	101.		.6	12		"
279	2-4	322P / 334P	"	29.5	26.8	2.64	4.13	70.7		.6	12		"
280	2-5	406P / 417P	"	25.0	15.3	1.94	3.59	29.7		.6	11		"
281	2-6	325P / 330P	"	20.0	9.73	2.83	3.73	27.5		.6	9	0	"
282	2-10	242P / 250P	"	14.3	6.51	1.16	3.44	7.5		.6	8		"
283	2-18	1250P / 1255P	Haig	5.5	2.44	1.43	3.45	3.5		.6	5		FC 33
284	2-21	650P / 702P	"	25.5	18.5	2.38	3.95	44.2		.6	11	-0.02	"
285	2-22	1258P / 108P	Haig & Wallace	30.0	36.9	4.58	4.17	169.		.6	11	-0.02	"
286	2-22	705P / 725P	" "	30.0	46.0	5.26	4.31	242.		.6	12	-0.01	"
287	2-23	155P / 220P	Haig	30.0	47.1	4.01	4.26	189.		.6	14	0	"
288	2-26	135P / 145P	"	29.5	33.3	3.03	4.11	101.		.6	11	-0.01	"
289	3-2	425P / 430P	"	16.0	7.60	1.82	3.68	13.8		.6	8	0	"
290	3-3	1124A / 1135A	"	33.0	47.2	5.72	4.35	270.		.6	7	0	"
291	3-4	1253A / 125A	Haig & Snyder	34.3	120.	9.08	5.86	1090.		.6	11	+0.30 -0.55	"
292	3-5	1220P / 1240P	Haig & Wallace	33.0	62.7	9.33	4.55	585.		.6	10	-0.02	"
293	3-5	638P / 652P	" "	33.0	78.3	6.49	4.03	508.		.6	11	-0.04	"
294	3-6	418P / 430P	Haig	33.0	58.9	5.67	3.70	334.		.6	11	0	"
295	3-7	557P / 617P	Blakely	29.0	61.3	3.95	3.54	242.		.6	10	0	FC 44
296	3-11	1120A / 1132A	Haig & Blakely	29.0	37.4	3.34	3.29	125.		.6	12	0	FC 33
297	3-13	1236P / 1250P	Haig	28.5	33.0	2.59	3.10	85.4		.6	13	0	"
298	3-16	1245P / 1255P	"	26.5	30.7	2.37	3.03	72.9		.6	14	0	FC 35
299	3-18	330P / 345P	"	30.5	29.3	2.22	2.95	65.1		.6	12	0	"
300	3-26	430P / 440P	"	24.0	13.4	2.07	2.65	27.8		.6	13	0	"
301	3-31	1220P / 1235P	"	27.5	17.7	1.73	2.75	30.6		.6	14		"
302	4-6	925A / 935A	"	26.5	16.2	1.91	2.74	30.9		.6	11		"
303	4-8	1205P / 1220P	"	26.0	19.1	2.02	2.80	38.6		.6	12		"
304	4-16	410P / 418P	Haig	23.0	13.1	2.13	2.65	27.9		.6	10		FC 35
305	4-23	315P / 322P	"	18.3	7.49	2.07	2.41	15.5		.6	10		"
306	4-30	220P / 230P	"	24.0	9.13	1.95	2.41	17.8		.6	12		"
307	5-7	418P / 435P	Moon & Haig	23.0	6.40	1.61	2.31	10.3		.6	14		"
308	5-14	1050A / 1106A	Moon & Lindsay	11.5	9.27	1.73	2.43	16.0		.6	9		FC 22
309	5-21	958A / 1006A	Moon	10.0	6.60	1.45	2.26	9.6		.6	8	+.02	"
310	5-27	205P / 210P	Haig	10.5	3.40	2.41	2.27	8.2		.6	8		FC 33
311	6-3	445P / 452P	Moon	11.0	3.55	2.37	2.21	8.4		.6	7		FC 22
312	6-14	1112A / 1118A	"	10.5	2.46	2.40	2.40	5.9		.6	6	-.06	"
313	6-17	254P / 302P	"	10.5	2.24	2.41	2.39	5.4		.6	7		"
314	6-25	853A / 900A	"	11.5	1.72	2.67	2.37	4.6		.6	7		"
315	7-2	945A / 951A	"	11.5	2.23	3.32	2.46	7.4		.6	6		"
316	7-9	1005A / 1011A	"	10.0	1.03	2.52	2.77	2.6		.6	6		"
317	7-16	1250P / 100P	Haig	8.3	1.65	3.21	3.52	5.3		.6	5		FC 35
318	7-21	230P / 242P	Brewster	8.0	1.47	3.47	4.14	5.1		.6	5	0	FC 12
319	7-29	505P / 511P	Moon	6.0	0.62	1.77	4.51	1.1		.6	6	0	FC 22
320	8-13	1035A / 1039A	"	4.0	0.54	2.78	4.70	1.5		.6	4		"
321	8-20	1103A / 1108A	"	5.0	0.53	3.40	4.83	1.8		.6	5		"
322	8-25	1020A / 1025A	"	5.0	0.56	2.68	5.25	1.5		.6	5		"
323	9-1	1030A / 1034A	"	4.2	0.42	2.88	5.26	1.2		.6	4		"
324	9-8	334P / 340P	Brewster	2.0	0.35	0.46	5.55	0.16		.6	3		FC 12
325	9-14	235P / 240P	"	2.0	0.24	0.83	5.57	0.20		.6	2		"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F260B-R

Daily discharge, in second-feet of SANTA ANITA WASH At Foothill Boulevard, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0	+	0	d 106	30	19	39	b 8.5	b 7.5	b 1.3	1.2
2	0	0	+	0	d 104	31	3.2	36	b 8.5	b 7.5	b 1.3	1.2
3	0	0	+	0	d 104	233	31	33	b 8.5	b 7.0	b 1.3	1.0
4	0	0	0.2	0	d 71	519	37	24	b 8.5	b 6.5	b 1.3	0.8
5	0	0	0.3	0.1	d 30	505	32	14	b 8.5	b 6.0	b 1.3	0.6
6	0	0	0.3	0.3	d 28	b 343	33	11	b 8	b 5.5	b 1.4	0.4
7	0	+	0.2	0.3	34	248	29	11	b 8	b 5.0	b 1.4	0.2
8	0	+	0.3	0.2	37	223	34	9.5	b 7.5	b 4.2	b 1.4	0.2
9	0	0	0.5	0.2	32	d 176	31	3.4	b 7.5	3.4	b 1.4	0.2
10	0	+	0.4	0.3	28	d 138	29	14	b 7	b 2.6	b 1.4	0.2
11	0	+	0.4	0.3	27	113	29	13	b 6.5	b 2.9	b 1.4	0.2
12	a 0.3	+	0.3	0.3	32	89	27	12	b 6.5	b 2.3	b 1.4	0.2
13	0	+	0.5	0.3	20	84	26	14	b 6	2.0	1.5	0.2
14	0	+	0.2	0.3	23	96	26	16	b 6	3.0	b 1.5	0.2
15	0	+	0.2	0.2	13	86	28	16	b 6	4.0	b 1.5	+
16	0	+	0.4	0.2	12	71	41	15	b 5.5	5.5	b 1.6	b +
17	0	0.1	0.5	0.3	11	82	28	14	b 5.5	5.5	b 1.6	b +
18	0	0.1	0.4	0.4	6	76	18	13	6	5.0	b 1.7	b +
19	0	0.3	0.5	0.4	7.5	62	8	12	6.5	5.0	b 1.7	b +
20	0	+	0.6	0.4	8.5	51	11	11	5.0	5.0	1.8	b +
21	0	+	0.4	3.2	31	47	2.6	10	6	5.0	1.7	b +
22	0	+	0.4	724	176	46	16	9.5	6.5	4.5	1.7	b +
23	0	+	0.4	2130	197	30	18	9.5	7	3.9	1.6	b +
24	0	0.1	1.4	b 600	180	b 26	19	10	7.5	3.3	1.6	b +
25	0	+	1.0	b 200	156	b 26	23	10	4.6	2.7	1.5	b +
26	0	0.2	0	90	102	27	17	b 9	b 5.4	2.1	1.4	b +
27	0	0.2	0	66	78	29	6.5	b 8	b 5.5	1.5	1.4	b +
28	0.5	0.2	0	55	53	34	32	b 8	b 6.0	1.3	1.4	b +
29	0	0.2	0	50		33	40	b 8	b 6.5	b 1.3	1.3	b +
30	0	0.1	0	40		32	31	b 8	b 7.0	b 1.3	1.3	b +
31	0		0	96		31		b 8.5		1.3	1.3	
	0.9	1.5	9.8	4058.7	1707.0	3617.0	725.3	429.4	201.6	123.6	45.4	6.8
MEAN	0.03	0.05	0.32	130.9	61.0	116.7	24.2	13.9	6.72	3.99	1.46	0.23
ACRE-FEET	1.8	3.0	19.4	8050.	3390.	7170.	1440.	852.	400.	245.	90.0	13.5

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD — MEAN 29.9 — ACRE-FEET 21670

STATION F92B-R

SANTA CLARA RIVER at Highway 99

LOCATION:

On the downstream side of the highway bridge about 4 miles west of Saugus.
The former Station F92R was about 1000 feet downstream.

DRAINAGE AREA:

355 square miles.

CHANNEL AND CONTROL:

Channel-fine to coarse sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream side of highway bridge.

RECORDER:

Installed January 18, 1930 at Station F92R.
Removed September 21, 1938.
Installed at Station F92B-R September 30, 1938 over a 24 inch corrugated iron pipe stilling well.
An Au continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Partially regulated by Bouquet Canyon and Dry Canyon Reservoirs. Flows occasionally originate from Los Angeles City Aqueduct blowoff at Santa Clara River crossing.

DIVERSIONS:

Some flow diverted for irrigation near Lang.

RECORDS AVAILABLE:

At station F92R
Recorder records available 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.
At Station F92B-R
Recorder records available from October 1, 1938 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 15000 second-feet, January 23.
Minimum 1.0 second-foot, October 5,6.
1930-1943 (Stations F92R and F92B-R)
Maximum 24000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair due to occasional loss of communication and extreme and undetermined control shift. Extremely high flows based on slope-area method.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F92B-R

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

at Highway 99

DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
208	10-1	155P 200P	Luce	5.0	1.35	1.18	4.95	1.6		.6	6	0	FC 39
209	10-9	1202P 1212P	"	5.0	1.48	1.07	4.96	1.6		.6	6	0	"
210	10-16	1200N 1210P	"	7.0	1.81	0.98	4.97	1.8		.6	7	0	"
211	10-22	205P 215P	"	7.0	1.80	1.06	4.99	1.9		.6	7	0	"
212	10-29	120P 130P	"	7.0	2.93	0.99	5.00	2.9		.6	7	0	"
213	11-6	1115A 1120A	"	5.0	2.32	1.24	5.02	2.7		.6	6	0	"
214	11-12	315P 325P	"	5.5	2.37	1.31	5.03	3.1		.6	6	0	"
215	11-19	925A 935A	"	5.6	2.38	1.30	5.04	3.1		.6	6	0	"
216	11-27	415P 425P	"	6.5	2.40	1.41	5.07	3.4		.6	6	0	"
217	12-7	620P 630P	"	6.0	2.89	1.53	5.14	4.4		.6	5	0	"
218	12-10	320P 335P	"	22.0	14.7	3.75	5.91+	55.0		.6	8	0	"
219	12-17	255P 305P	"	11.5	4.05	1.28	5.66	5.2		.6	7	0	"
220	12-23	230P 245P	"	15.0	4.26	1.41	5.66	6.0		.6	10	0	"
221	12-30	1125A 1135A	"	11.5	3.81	1.47	5.62	5.6		.6	7	0	"
222	1-8	250P 300P	"	22.0	11.2	2.68	5.94	29.9		.6	8	0	"
223	1-15	400P 415P	"	25.5	14.0	2.70	6.22+	38.0		.6	10	0	"
224	1-26	515P 530P	Luce & Bardleck	Three Channels			8.07	25.7		.6	13	0	"
225	1-29	520P 535P	Luce	Two Channels			8.04	14.3		.6	12	0	"
226	2-5	545P 555P	"	"	"		8.01	17.6		.6	13	0	"
227	2-12	500P 515P	"	25.0	6.72	2.02	7.76	13.6		.6	9	0	"
228	2-18	145P 155P	"	Two Channels			7.67	15.7		.6	9	0	"
229	2-23	1015A 1035A	"	"	"		7.76	99.8		.6	13	0	FC 41
230	2-24	421P 436P	Luce & Bardleck	119.	59.4	5.66	7.87	304.		.6	14	-.02	"
231	2-26	450P 500P	Luce	23.0	17.2	4.60	7.42	79.2		.6	9	0	FC 39
232	3-4	610P 635P	Luce & Blakely	172.	229.	8.45	8.60	1930.		.6	14	+.09	FC 41
233	3-5	240P 318P	" "	Four Channels			7.86	616.		.6	31	-.01	FC 39
234	3-11	120P 140P	Luce	Two Channels			7.91	231.		.6	19	0	"
235	3-18	1117A 1131A	Luce & Pardieck	122.	45.1	2.90	7.69	131.		.6	14	+.02	"
236	3-25	400P 415P	Luce	74.5	26.9	2.82	7.45	75.8		.6	12	0	"
237	4-2	240P 255P	"	68.0	19.8	2.53	7.38	50.1		.6	14	0	"
238	4-9	340P 355P	"	68.0	19.3	3.15	7.14	60.7		.6	12	0	"
239	4-16	310P 320P	"	44.0	12.3	2.21	7.22	27.2		.6	11	0	"
240	4-22	615P 630P	"	47.0	12.1	1.97	7.16	23.8		.6	10	0	"
241	5-7	542P 555P	"	Two Channels			6.99	9.6		.6	12	0	"
242	5-14	300P 315P	"	"	"		6.98	9.6		.6	13	0	"
243	5-20	300P 315P	Turner	"	"		7.08	5.5		.6	10	-.02	FC 5
244	5-27	900A 920A	Luce	Three Channels			7.02	7.0		.6	13	0	FC 39
245	6-24	100P 110P	"	13.3	3.24	1.79	6.87	5.8		.6	7	0	"
246	7-9	1135A 1140A	"	7.5	2.75	1.60	6.90	4.4		.6	6	0	"
247	7-22	645P 655P	"	10.5	2.27	1.41	6.44	3.2		.6	6	0	"
248	7-29	135P 145P	Turner	7.5	1.85	1.51	6.40	2.8		.6	8	0	FC 5
249	8-6	1000A 1010A	Luce	6.5	1.81	1.38	6.34	2.5		.6	7	0	FC 39
250	8-13	635P 645P	"	6.5	1.66	1.69	6.34	2.8		.6	7	0	"
251	8-19	650P 710P	"	6.0	1.64	1.46	6.33	2.4		.6	7	0	"
252	8-28	645P 655P	"	7.2	1.78	1.24	6.32	2.2		.6	7	0	"
253	9-3	415P 430P	Luce	5.7	1.65	1.21	6.32	2.0		.6	6	0	FC 39
254	9-11	320P 330P	"	7.2	1.74	1.32	6.33	2.3		.6	7	0	"
255	9-17	1240P 1250P	"	6.0	2.03	1.08	6.35	2.2		.6	7	0	"
256	9-23	435P 445P	"	6.0	1.97	1.27	6.32	2.5		.6	6	0	"

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

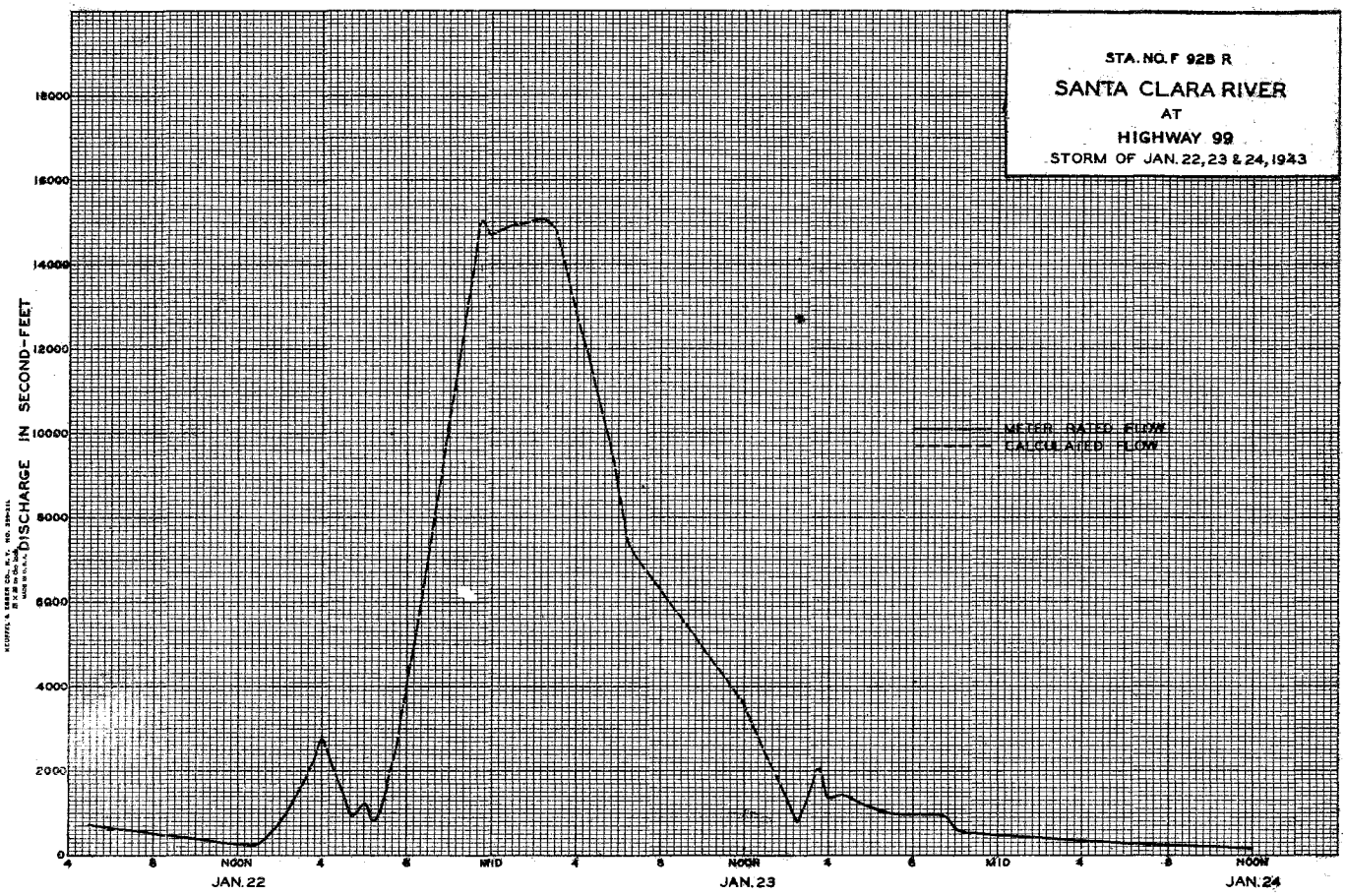
Sta. No. F-92-B-R

Daily discharge, in second-feet of SANTA CLARA RIVER At Highway #99, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.6	2.5	v 4.5	6	b 46	b101	b 53	b21	6.5	5	3.8	3.0
2	1.6	2.2	v 4.8	5.5	b 23	b 98	b 51	b20	6.5	5	5.8	3.0
3	1.6	2.8	v 4.8	5	b 21	1570	51	b16	6.5	4.6	3.8	3.0
4	1.6	2.8	v 4.8	5	b 20	2360	b 37	b16	6.5	5.5	3.4	3.0
5	1.4	2.8	v 5	8.5	b 20	1140	b 30	b15	6.5	5	3.4	2.8
6	1.4	2.8	v 4.8	25	19	b830	b 19	b18	6.5	5	3.4	2.6
7	1.6	2.8	4.8	27	22	b620	b 12	b10	6.5	4.6	2.6	2.6
8	1.6	3.0	4.5	30	b 22	b491	b 6.5	13	6.5	4.6	2.8	3.0
9	1.6	2.8	4.0	31	b 16	b363	b 6	12	7	4.2	3.4	2.6
10	1.8	2.8	2.8	35	b 16	b300	21	13	7	4.2	4.6	2.4
11	1.8	3.0	59	36	b 15	b240	21	12	7	4.2	3.8	2.4
12	1.8	3.0	v 14	36	b 13	294	19	11	8	4.2	4.2	2.4
13	1.6	3.0	6.5	36	15	232	27	10	b 8.5	3.4	4.2	2.8
14	1.6	2.8	6.5	37	20	b206	23	9.5	b 8.5	2.6	3.4	2.0
15	1.8	3.0	6.5	38	b 15	b156	b 21	13	b 8.5	3.0	3.4	2.0
16	1.8	2.8	6	40	b 16	b136	27	8.5	b 9.5	2.6	3.8	2.2
17	1.6	2.5	5.5	38	b 15	b136	25	6.5	b 8.5	2.8	3.8	2.2
18	1.8	2.8	5	37	b 16	b136	33	6	b 8.5	3.4	4.2	2.4
19	1.6	2.8	5	24	b 20	125	33	4.6	b 8.5	4.2	4.2	2.4
20	1.8	2.5	5	3.8	b 21	125	b 27	4.2	b 8	4.2	4.6	2.2
21	1.6	2.5	5.5	6.5	b 32	b105	b 27	3.4	b 8	4.2	4.6	2.2
22	1.8	3.0	5.5	2620	295	b125	27	5	b 8	3.8	4.6	2.4
23	2.0	3.2	6	5420	190	b 83	27	6	b 7	3.8	4.2	2.6
24	2.2	3.2	6.5	214	619	b 73	26	6.5	b 6	4.2	3.0	2.8
25	2.2	3.5	6	52	b 110	b 76	27	6.5	6	4.2	3.4	2.6
26	2.5	3.2	5	36	b 94	91	29	7	5.5	4.6	3.4	2.8
27	2.5	3.5	5	50	b 120	94	b 25	7	4.2	4.2	3.0	2.8
28	3.8	3.8	5.5	26	b 110	101	b 23	7	5	3.8	2.8	2.6
29	2.8	v 4.2	5.5	21		b 76	b 22	6.5	5.5	3.4	2.8	2.2
30	2.5	v 4.5	5.5	83		b 66	b 22	6.5	5	3.4	2.8	2.0
31	2.2		5	160		b 59		6.5		3.8	3.4	
	59.1	90.1	250.0	9192.3	1961	10608	797.5	301.2	209.7	125.7	114.6	75.4
MEAN	1.90	3.00	8.06	297.	70.0	345.	26.6	972	6.99	4.05	3.70	2.51
ACRE-FEET	117.	179.	496.	18230.	3890.	21040	1580.	597.	416.	249.	227.	150.

Remarks:

YEAR OR PERIOD MEAN 65.2
ACRE-FEET 47170.



STATION F278R

SAWPIT CREEK below Sawpit Dam

LOCATION:

On the right (north) side of the stream, about 150 feet downstream from Sawpit Dam and about 2½ miles north of Monrovia. September 4 the station was moved to a new location 500 feet below Sawpit Dam on the (north) right side of the Channel.

DRAINAGE AREA:

3.3 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel above timber flume to August 31.
A broad-crested weir forms the control subsequent to September 4.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured in throat of flume.

RECORDER:

Installed February 6, 1942 over a 14 inch diameter corrugated iron pipe stilling well. Removed August 31 and installed in new location on September 4.
A horizontal rational recorder was in service from October 1, 1942 to January 21 and February 1 to August 31.
An H.C.F. continuous recorder was in service September 9-30.

REGULATION:

Flow regulated by Sawpit Dam. Station F278R measures outlet discharge, spillway discharge enters below station.

DIVERSIONS:

City of Monrovia diverts flow above Sawpit Dam. Spillway discharge from Sawpit Dam is diverted past station.

RECORDS AVAILABLE:

January 6, 1942 to September 30, 1943. Outflow records from Sawpit Dam are available commencing October 1, 1931.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 284 second-feet, January 23.
Minimum no flow most of year.

ACCURACY:

Poor for high flows since station was washed out January 22. Flows based on Sawpit Dam outflows. Good for low flows.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F278-R

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

AT below Sawpit Dam DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
17	12-17	1255P / 103P	Haig	2.6	0.68	1.62	0.13	1.1		.6	5	0	FC 33
18	12-23	1232P / 1238P	"	2.6	0.64	1.42	0.13	0.91		.6	5	0	"
19	12-30	1215P / 1225P	"	2.6	0.68	1.37	0.13	0.93		.6	5	0	"
20	1-21	1136P / 1145P	Haig & Clair	1.2	0.26	0.81	0.07	0.21		.6	3	0	"
21	1-24	520P / 530P	Haig & Wallace	23.5	21.0	2.18		45.8		.6	9		"
22	1-27	1108A / 1110A	" "	1.0	0.25	0.84		0.21		.6	2		"
23	1-31	200P / 210P	Haig	10.0	9.05	2.07		18.7		.6	9		"
24	2-1	410P / 415P	"	2.0	1.50	7.62	0.81	11.4		.6	4	-.02	"
25	2-4	150P / 200P	"	9.0	1.81	6.50		11.8		.6	10		"
26	2-11	1230P / 1238P	"	4.0	1.74	2.80		4.9		.6	5		"
27	2-22	205P / 212P	Haig & Wallace	16.0	8.39	7.39		62.0		.6	6		"
28	2-23	813P / 823P	" "	13.0	11.0	2.25		24.7		.6	8		"
29	3-2	325P / 335P	Haig	7.7	5.30	1.58		8.4		.6	9		"
30	3-4	609P / 621P	Wallace & Henderson	16.5	17.6	3.94		69.4		.6	10		FC 42
31	3-5	1100A / 1112A	Wallace	16.5	15.6	3.43		53.5		.6	9		"
32	3-7	452P / 506P	Blakely	15.0	16.5	2.87		47.4		.6	9		FC 44
33	3-8	245P / 255P	Haig	13.0	10.9	2.66		29.0		.6	12		FC 33
34	3-12	247P / 258P	Haig & Waddicor	10.0	7.82	1.94		15.2		.6	8		"
35	3-19	1027A / 1037A	Haig	8.5	6.58	1.58	0.80	10.4		.6	8		FC 35
36	3-25	410P / 420P	"	8.8	5.81	1.39	0.60	8.1		.6	7		"
37	3-31	120P / 130P	"	7.8	5.06	1.44	0.56	7.3		.6	9		"
38	4-6	1130A / 1138A	Haig	8.5	5.75	1.46	0.64	8.4		.6	8		FC 35
39	4-15	930A / 938A	"	8.5	4.85	1.11	0.47	5.4		.6	8		"
40	4-22	400P / 408P	Haig & Moon	7.4	3.75	0.85	0.34	3.2		.6	8		"
41	4-30	1100A / 1105A	Haig	7.0	3.91	0.69	0.32	2.7		.6	7		"
42	5-6	235P / 240P	"	3.2	0.91	0.97	0.16	0.88		.6	5	0	"
43	5-14	854A / 859A	Moon & Lindsay	Two Channels				0.60		.6	5	0	FC 22
44	5-21	842A / 848A	Moon	4.0	0.79	0.75	0.12	0.59		.6	6	0	"
45	5-27	225P / 230P	Haig	4.3	1.05	0.62	0.14	0.65		.6	5	0	FC 33
46	6-3	340P / 346P	Moon	4.0	0.85	0.80	0.13	0.71		.6	6	0	FC 22
47	6-14	918A / 925A	"	4.0	0.83	0.76	0.11	0.63		.6	6	0	"
48	6-18	802A / 806A	"	4.0	0.80	0.70	0.10	0.56		.6	4	0	"
49	6-24	310P / 315P	"	3.7	0.70	0.37	0.06	0.26		.6	5	0	"
50	7-2	810A / 815A	"	2.8	0.54	0.26	0.05	0.14		.6	4	0	"
51	7-9	810A / 814A	"	3.3	0.70	0.36	0.08	0.25		.6	4	0	"
52	7-16	130P / 135P	Haig	1.0	0.24	0.79	0.06	0.19		.6	2	0	FC 33
53	7-21	414P / 420P	Brewster	1.5	0.43	0.79	0.07	0.34		.6	3	0	FC 12
54	7-30	821A / 825A	Moon	3.0	0.53	0.72	0.10	0.38		.6	4	0	FC 22
55	8-6	805A / 808A	"	2.1	0.23	0.35	0.05	0.08		.6	3	0	"
56	8-13	806A / 810A	"	2.4	0.31	0.48	0.06	0.15		.6	4	0	"
57	8-19	803A / 806A	"	2.3	0.28	0.43	0.06	0.12		.6	3	0	"
58	8-25	810A / 812A	"	2.4	0.29	0.41	0.06	0.12		.6	3	0	"

F.C. Dist. Form 51 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F278R

Daily discharge, in second-feet of SAWPIT CREEK Below Sawpit Dam, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.9	d 21	d 11	7	2.2	0.6	0.2	0.2	0
2	0	0	0	0.7	d 44	d 8.5	5.5	2.2	0.7	0.2	0.2	0
3	0	0	0	+	d 14	d 13	6	2.1	0.7	0.2	0.2	0
4	0	0	0	0	d 12	d 46	5	2.3	0.7	0.2	0.1	0
5	0	0	0	0	d 11	d 55	6	2.1	0.7	0.2	0.1	0
6	0	0	0	0	d 10	d 45	9	0.8	0.6	0.2	0.1	0
7	0	0	0	0	d 9	d 40	7.5	1.5	0.6	0.2	0.1	0
8	0	0	0	0	d 9	d 35	9	1.3	0.6	0.2	0.1	0
9	0	0	0	0	d 8	d 30	8	1.3	0.6	0.2	0.2	0
10	0	0	0.3	0	d 6	d 25	7	1.3	0.6	0.2	0.2	0
11	0	0	0.8	0	d 5	d 20	5.5	1.1	0.6	0.2	0.2	0
12	0	0	0.8	0	d 2.8	d 15	5.5	0.9	0.6	0.2	0.2	0
13	0	0	0.9	0	0	d 15	5.5	0.8	0.6	0.2	0.2	0
14	0	0	1.1	0	0	d 14	5.5	0.7	0.5	0.2	0.2	0
15	0	0	1.2	0	0	d 14	5.5	0.6	0.5	0.2	0.2	0
16	0	0	0.7	0	0	d 13	5	0.6	0.5	0.2	0.2	0
17	0	0	0.9	0	0	d 12	4.3	0.7	0.4	0.2	0.1	0
18	0	0	1.1	0	0	d 11	4.3	0.6	0.5	0.2	0.1	0
19	0	0	1.1	0	0	d 10	4.3	0.8	0.4	0.3	0.1	0
20	0	0	1.0	0	0	10	4.3	0.6	0.3	0.3	0.1	0
21	0	0	1.0	+	0	9.5	3.6	0.6	0.3	0.3	0.1	0
22	0	0	0.9	a 54	d 23	9	3.2	0.5	0.2	0.3	0.1	0
23	0	0	0.9	a186	d 28	9	3.1	0.5	0.2	0.4	0.1	0
24	0	0	0.9	a 82	d 24	9	3.3	0.5	0.2	0.4	0.1	0
25	0	0	0.5	a 25	d 21	8.5	3.5	0.5	0.2	0.4	0.1	0
26	0	0	0.9	a 0	d 17	8	3.5	0.6	0.2	0.4	0.1	0
27	0	0	0.9	a 0	d 15	8	3.2	0.6	0.3	0.3	+	0
28	0	0	0.9	a 0.9	d 13	8	2.5	0.6	0.2	0.3	+	0
29	0	0	0.9	a 7		8	2.7	0.6	0.2	0.3	0	0
30	0	0	0.9	a 9.5		7.5	2.5	0.6	0.2	0.2	0	0
31	0		0.9	a 23		7		0.6		0.2	0	
	0		19.5		292.8		150.8		13.5		3.7	
		0		389.0		534.0		30.7		7.7		0
MEAN	0	0	0.63	12.5	10.5	17.2	5.03	0.99	0.45	0.25	0.12	0
ACRE-FEET	0	0	39	772	581	1060	299	61	27	15	7.3	0

Remarks: + = 0.05 c.f.s. or less

YEAR OR PERIOD MEAN 3.95 ACRE-FEET 2860

STATION U5R

SAN GABRIEL RIVER BASIN Sawpit Creek near Monrovia.

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°10'25", long. 117°59'20", in NE¼SW¼ sec. 13, T. 1 N., R. 11 W., 0.1 mile downstream from Monrovia Creek. Altitude of gage, about 1,100 feet (from topographic sheet).

DRAINAGE AREA:

5.3 square miles.

RECORDS AVAILABLE:

November 1916 to September 1943.

AVERAGE DISCHARGE:

26 years (1917-43), 1.42 second-feet; including diversion by Monrovia pipe line, 26 years, 2.83 second-feet.

EXTREMES:

Maximum discharge during year, 441 second-feet Jan 23 (gage height, 3.90 feet); no flow during several periods, 1916-1943

Maximum discharge, about 2,000 second-feet Apr. 7, 1926, estimated from flow of Rogers Creek; no flow during parts of most years.

REMARKS:

Records good. Regulation at flood-control dam above station and diversions by city of Monrovia.

COOPERATION:

Results of 26 discharge measurements furnished by Los Angeles County Flood Control District, through H. E. Hedger, chief engineer, and M. E. Salsbury, acting chief engineer during the war emergency.

F. D. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U5R

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

AT NEAR Monrovia DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
645	Dec. 15		U.S.G.S.				0.26	1.3		.6	6	0	
646	17	115P / 123P	Haig	1.6	0.64	1.47	0.21	0.94		.6	4	0	FC.33
647	23	1245P / 1250P	"	1.9	0.66	1.27	0.20	0.84		.6	5	0	"
648	24		U.S.G.S.				0.30	0.71		.6	8	0	
649	30		"				0.17	0.70		.6	5	0	
650	30	1243P / 1248P	Haig	2.5	0.84	0.99	0.17	0.83		.6	6	0	FC.33
	1943												
651	Jan 23	1105P / 1115P	Van der Goot Wallace	19.0	19.4	3.45	2.20	67.		.6	7		FC.33
652	24		U.S.G.S.	21.	29.5	3.26	2.01	96.		.6	8	0	
653	25		"				1.20	42.6		.6 2-8	12	0	
654	27	1050A / 1055A	Haig	6.8	1.75	1.99	0.58	3.5		.6	5	-.01	FC.33
655	27		U.S.G.S.				0.51	2.6		.6	7	0	
656	31	230P / 240P	Haig	7.0	4.69	4.46	1.05	20.9		.6	5	0	FC.33
657	Feb 2		U.S.G.S.				1.42	48.3		.6	16	0	
658	4	240P / 250P	Haig	6.9	1.83	7.32	0.72	13.4		.6	6	0	FC.33
659	5		U.S.G.S.				0.58	7.4		.6	7	0	
660	8		"				0.64	9.8		.6	8	0	
661	11		U.S.G.S.				0.56	5.0		.6	9	0	
662	17	600P / 602P	Haig	1.0	0.12	2.33		0.28		Float X Sec2			
663	18		U.S.G.S.				0.03	0.10		.6	1	0	
664	24		"				1.19	34.9		.6	18	0	
665	26	345P / 353P	Haig	16.0	8.72	1.96	0.78	17.1		.6	9	0	FC.33
666	Mar 3		U.S.G.S.				1.02	25.2		.6	17	0	
667	Mar 9		U.S.G.S.				1.14	28.6		.6	17		
668	12	200P / 206P	Haig	15.0	10.3	1.96	0.92	20.2		.6	8	0	FC.33
669	17		U.S.G.S.				0.80	13.5		.6 2-8	15	0	
670	19	1010A / 1017A	Haig	13.5	11.1	1.30	0.79	14.4		.6	8	0	FC.35
671	20		U.S.G.S.				0.78	13.8		.6	13	0	
672	24		"				0.71	9.6		.6	13	0	
673	25	505P / 515P	Haig	13.3	10.0	1.04	0.70	10.4		.6	9	0	FC.35
674	30		U.S.G.S.				0.66	7.8		.6	12	0	
675	Apr. 6		"				0.69	10.2		.6	12	0	
676	13		"				0.61	7.0		.6	10	0	
677	15	1030A / 1036A	Haig	10.0	7.03	1.04	0.62	7.3		.6	6	0	FC.35
678	20		U.S.G.S.				0.58	6.5		.6	10	0	
679	28		"				0.47	3.9		.6	9	0	
680	May 5		"				0.42	3.2		.6	10	0	
681	10		"				0.40	2.9		.6	10	0	
682	14	1022A / 1027A	Moon-Lindsay	5.0	2.54	0.87	0.33	2.2		.6	5	0	FC.22
683	17		U.S.G.S.				0.37	2.3		.6	10	0	
684	21	909A / 914A	Moon	5.0	2.10	0.71	0.31	1.5		.6	5	0	FC.22
685	26		U.S.G.S.				0.31	1.5		.6	10	0	
686	31		"				0.29	1.3		.6	10	0	
687	June 10		"				0.31	1.2		.6	9	0	
688	18	842A / 847A	Moon	4.5	1.67	0.46	0.25	0.77		.6	5	0	FC.22
689	24	330P / 333P	"	1.2	0.33	2.00	0.21	0.66		.6	3	0	"
690	July 2	844A / 845A	Moon	1.0	0.14	1.14	0.11	0.16		.6	2	0	FC.22
691	5		U.S.G.S.				0.14	0.32		.6	7	0	
692	9	855A / 857A	Moon	1.2	0.22	1.18		0.26		.6	3		FC.22
693	14		U.S.G.S.				0.11	0.22		.6	7	0	
694	16	220P / 225P	Haig	1.0	0.14	1.14	0.10	0.16		.6	2	0	FC.33
695	21	320P / 330P	Brewster	2.0	0.97	0.36	0.12	0.35		.6	4	0	FC.12
696	24		U.S.G.S.				0.10	0.18		.6	6	0	
697	26		"				0.13	0.22		.6	2	0	
698	30	855A / 857A	Moon	1.3	0.64	0.31	0.10	0.20		.6	2	0	FC.22
699	Aug. 6	850A / 852A	"	0.90	0.17	0.47	0.04	0.8		.6	2	0	"
700	13	910A / 912A	"	1.0	0.20	0.70	0.06	0.14		.6	2	0	"
701	14		U.S.G.S.				0.06	0.10		.6	4	0	
702	20	855A / 856A	Moon	0.90	0.18	0.78	0.06	0.14		.6	2	0	FC.22
703	25	930A / 931A	"	0.90	0.20	0.70	0.06	0.14		.6	2	0	"
704	28		U.S.G.S.				0.02	0.03		.6	3	0	

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No 115R

Daily discharge, in second-feet of SAWPIT CREEK Near Monrovia, for the year ending September 30, 1943

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.7	18	10	8	3.5	1.3	0.2	0.2	0
2	0	0	0	0.6	41	8.5	7.5	3.5	1.5	0.2	0.2	0
3	0	0	0	0	18	25	7.5	3.5	1.4	0.2	0.2	0
4	0	0	0	0	13	111	8	3.7	1.5	0.3	0.2	0
5	0	0	0	0	13	89	13	3.4	1.3	0.3	0.1	0
6	0	0	0	0	15	72	12	2.9	1.2	0.3	0.1	0
7	0	0	0	0	15	67	9.5	3.7	1.1	0.4	0	0
8	0	0	0	0	14	49	12	3.2	1.1	0.3	0	0
9	0	0	0	0	7.5	30	10	3.0	1.1	0.3	0	0
10	0	0	0.1	0	4.7	26	8	2.9	1.1	0.3	0.1	0
11	0	0	0.9	0	3.0	22	7	2.6	1.3	0.3	0.1	0
12	0	0	1.1	0	0.1	20	7	2.2	1.4	0.2	0.1	0
13	0	0	1.2	0	0.1	18	7	2.1	1.1	0.2	0.1	0
14	0	0	1.2	0	0.2	17	7	2.6	1.0	0.2	0.1	0
15	0	0.2	1.2	0	0.2	16	7	2.2	0.9	0.2	0.1	0
16	0	0.1	0.6	0	0.3	14	7	2.0	0.8	0.2	0.1	0
17	0	0	0.7	0	0.3	14	6.5	1.9	0.9	0.2	0.1	0
18	0	0	0.9	0	0.1	14	6.5	1.6	0.7	0.2	0.1	0
19	0	0.3	0.9	0	0.1	14	6.5	1.6	0.7	0.3	0.1	0
20	0	0	0.9	0.1	0.2	14	6.5	1.3	0.6	0.4	0.1	0
21	0	0	0.9	0.3	1.9	12	6	1.5	0.6	0.4	0.1	0
22	0	0	0.9	103	38	12	5.5	1.5	0.5	0.4	0.1	0
23	0	0	0.9	207	29	11	4.7	1.2	0.5	0.3	0.2	0
24	0	0	0.9	76	31	11	4.7	1.3	0.5	0.2	0.2	0
25	0	0	1.1	39	22	10	5	1.3	0.5	0.3	0.1	0
26	0	0	1.0	5.5	18	10	5	1.4	0.4	0.2	0.1	0
27	0	0	0.8	3.1	14	9.5	4.7	1.4	0.3	0.2	0.1	0
28	0.3	0	0.7	2.1	12	9	4.1	1.5	0.2	0.2	0	0
29	0.1	0	0.7	5.5		8.5	4.3	1.3	0.2	0.2	0	0
30	0	0	0.7	10		8	4.1	1.3	0.2	0.2	0	0
31	0		0.7	24		8		1.3		0.3	0	
	0.4	0.6	19.0	476.9	329.7	759.5	211.6	68.4	26.0	8.1	3.0	0
MEAN	0.01	.02	.61	15.4	11.8	24.5	7.05	2.21	.87	.26	.10	0
ACRE-FEET	.8	1.2	38	946	654	1510	420	136	52	16	6.0	0

Remarks:

YEAR OR PERIOD — MEAN 5.21 — ACRE-FEET 3780

MEAN												
ACRE-FEET	95	79	80	65	105	124	222	286	253	250	232	189

Remarks: Diversion to Monrovia pipe line. Records furnished by city of Monrovia.

YEAR OR PERIOD — MEAN — ACRE-FEET 1980

STATION F185R

SEPULVEDA CREEK at Charnock Road

LOCATION:

On the left (east) wing wall of the downstream side of the Charnock Road bridge, about 1200 feet west of Sawtelle Boulevard and approximately 2 miles northwest of Culver City.

DRAINAGE AREA:

25.7 square miles.

CHANNEL AND CONTROL:

Channel-adobe and some sand.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge 100 feet below the station.

RECORDER:

Installed September 15, 1932; removed March 3, 1937 on account of bridge construction; reinstalled August 11, 1937; removed March 3, 1938 due to the stilling well being washed out; reinstalled July 7, 1938, over 20 inch corrugated iron pipe stilling well. An HG.F. recorder was in operation from October 1, 1942 to September 30, 1943.

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, 1943

EXTREMES OF DISCHARGE:

1942-1943
Maximum 2200 second-feet Jan. 22.
Minimum + flow several days in July.
1932-1942
Maximum 3100 second-feet, estimated March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Fair.

F. C. D. FORM 104 EN 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT STATION NO. F185-R
HYDRAULIC DIVISION

DISCHARGE MEASUREMENTS OF SEPULVEDA CREEK

AT Charnock Road DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
439	10-1	1052A / 1057A	Moon	3.5	0.48	1.02	3.79	0.49		.6	4	0	FC 22
440	10-8	1044A / 1049A	"	3.5	0.45	0.98	3.79	0.44		.6	4	0	"
441	10-12	940A / 944A	"	4.0	0.56	0.73	3.84	0.41		.6	4	0	"
442	10-15	1117A / 1122A	"	4.0	0.49	0.73	3.74	0.36		.6	4	0	"
443	10-22	1134A / 1138A	"	3.0	0.23	0.52	3.59	0.12		.6	3	0	"
444	10-28	1156A / 1205P	Moon & Andren	26.0	28.2	1.40	4.91	39.6		.6	9	-.03	"
445	10-29	1130A / 1135A	Moon	4.0	0.54	1.09	3.95	0.59		.6	4	0	"
446	11-5	1045A / 1050A	"	4.0	0.40	1.18	3.89	0.47		.6	4	0	"
447	11-18	1052A / 1056A	"	4.0	0.36	1.00	3.88	0.36		.6	4	0	"
448	11-19	930A / 935A	"	4.5	0.70	1.14	3.90	0.80		.6	4	-0.01	"
449	11-25	1125A / 1128A	"	2.8	0.21	0.81	3.75	0.17		.6	3	0	"
450	12-3	1057A / 1102A	"	4.0	0.50	1.24	3.86	0.62		.6	4	+0.01	"
451	12-11	948A / 953A	"	3.0	0.34	0.76	3.82	0.26		.6	4	0	"
452	12-17	1010A / 1015A	"	4.5	0.62	1.02	3.91	0.63		.6	4	+0.01	"
453	12-23	1215P / 1220P	"	4.5	0.81	1.21	3.90	0.98		.6	5	0	"
454	12-25	1256P / 102P	"	4.3	0.61	0.98	4.09	0.60		.6	5	-0.01	"
455	12-30	1037A / 1042A	"	4.5	0.35	1.00	4.06	0.35		.6	5	0	"
456	1-8	1048A / 1053A	"	3.0	0.36	0.75	3.90	0.27		.6	4	0	"
457	1-15	1134A / 1138A	"	3.0	0.45	1.22	3.98	0.55		.6	4	0	"
458	1-21	245P / 253P	"	14.0	13.8	2.25	4.79	31.0		.6	7	+0.04	"
459	1-23	1207P / 1220P	Moon & Andren	31.0	36.6	3.39	5.35	124.		.6	9	-0.13	"
460	1-24	1235P / 1238P	Moon	5.0	2.09	0.91	4.12	1.9		.6	5	0	FC 22
461	1-27	1107A / 1115A	"	10.0	5.15	0.78	4.17	4.0		.6	6	0	"
462	1-29	1102A / 1106A	"	3.5	0.84	0.90	4.03	0.76		.6	4	-.03	"
463	2-1	956A / 1004A	"	5.0	1.93	1.45	4.12	2.8		.6	5	0	"
464	2-5	900A / 904A	"	4.2	1.12	1.79	4.05	2.0		.6	4	+0.01	"
465	2-8	942A / 948A	"	5.2	1.09	1.19	4.03	1.3		.6	5	0	"
466	2-11	1132A / 1137A	"	5.0	1.04	0.93	3.99	0.97		.6	5	0	"
467	2-19	955A / 1000A	"	4.2	0.75	0.77	3.94	0.58		.6	4	0	"
468	2-22	147P / 156P	Moon & Andren	16.0	11.7	1.67	4.46	19.5		.6	8	-0.06	"
469	2-23	1243P / 1254P	Moon & Andren	30.0	33.2	2.61	5.03	86.7		.6	11	+0.25	FC22
470	2-24	941A / 948A	" "	26.0	16.0	1.73	4.69	27.7		.6	9	-0.02	"
471	2-26	1127A / 1134A	Moon	Two Channels			4.14	1.5		.6	7	0	"
472	3-3	957A / 1006A	Moon & Andren	29.5	20.3	2.00	4.82	40.5		.6	11	-0.10	"
473	3-3	1254P / 107P	" "	31.0	79.2	4.66	6.24	327.		.6	8	-0.15	"
474	3-4	940A / 950A	" "	Two Channels			4.75	42.8		.6	13	0	"
475	3-5	343P / 401P	Andren	22.0	11.6	1.52	4.38	17.6		.6	10	0	"
476	3-9	1123A / 1143A	Moon	8.5	2.23	1.34	4.02	3.0		.6	7	0	"
477	3-12	216P / 222P	Andren	4.0	0.63	0.67	3.87	0.42		.6	3	0	FC 2
478	3-18	952A / 957A	Moon	4.0	0.54	0.80	3.84	0.43		.6	4	0	FC 22
479	3-19	1035A / 1040A	"	4.0	0.48	0.87	3.84	0.42		.6	4	0	"
480	3-26	1000A / 1005A	"	5.0	0.58	0.91	3.85	0.53		.6	5	0	"
481	4-2	1055A / 1100A	"	5.0	0.74	1.04	3.90	0.77		.6	5	0	"
482	4-6	716A / 727A	Moon & Andren	29.5	17.4	1.55	4.54	26.9		.6	14	-0.10	"
483	4-9	1054A / 1058A	Moon	4.0	0.48	0.96	3.82	0.46		.6	4	+0.01	FC 22
484	4-16	1010A / 1014A	"	4.0	0.51	0.90	3.80	0.46		.6	4	0	"
485	4-23	1011A / 1013A	Moon & Bollinger	1.4	0.07	0.57	3.72	0.04		.6	2	-0.01	"
486	4-30	952A / 957A	Moon	4.0	0.70	1.06	3.85	0.74		.6	4	0	"
487	5-7	1035A / 1038A	Bollinger	4.0	0.66	0.77	3.84	0.51		.6	4	-0.01	FC 6
488	5-15	1120A / 1124A	"	4.3	0.94	0.99	3.89	0.93		.6	4	-	"
489	5-19	1108A / 1112A	Moon	4.0	0.86	0.92	3.86	0.79		.6	4	0	FC 22
490	6-3	1053A / 1058A	Bollinger	3.8	0.60	0.83	3.92	0.50		.6	4	0	FC 6
491	6-10	1023A / 1028A	"	6.8	1.59	0.49	3.91	0.78		.6	5	0	"
492	6-17	1028A / 1034A	"	8.0	2.49	0.52	4.01	1.3		.6	6	+.02	"
493	7-22	1042A / 1045A	Bonadiman	5.0	1.05	0.72	4.21	0.76		.6	3	0	FC 19
494	7-29	1037A /	"	4.0	0.60	0.83	4.22	0.50		.6	2	0	"
495	8-13	955A / 1000A	Bollinger	3.0	0.69	0.61	4.26	0.42		.6	3	-.01	FC 6
496	8-20	1008A / 1013A	"	3.5	1.24	0.72	4.32	0.89		.6	4	+.01	"
497	8-27	958A / 1002A	"	5.5	1.27	0.50	4.31	0.63		.6	4	0	"
498	9-3	1008A / 1013A	"	4.2	0.95	0.71	4.34	0.67		.6	4	0	"
499	9-10	1012A / 1017A	"	4.5	1.33	0.49	4.35	0.65		.6	5	-.02	"
500	9-17	1038A / 1043A	"	4.7	1.48	0.47	4.34	0.69		.6	5	0	"
501	9-24	1041A / 1047A	"	5.3	2.04	0.28	4.35	0.58		.6	7	0	FC 5

F.C. Dist. Form 82 2-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

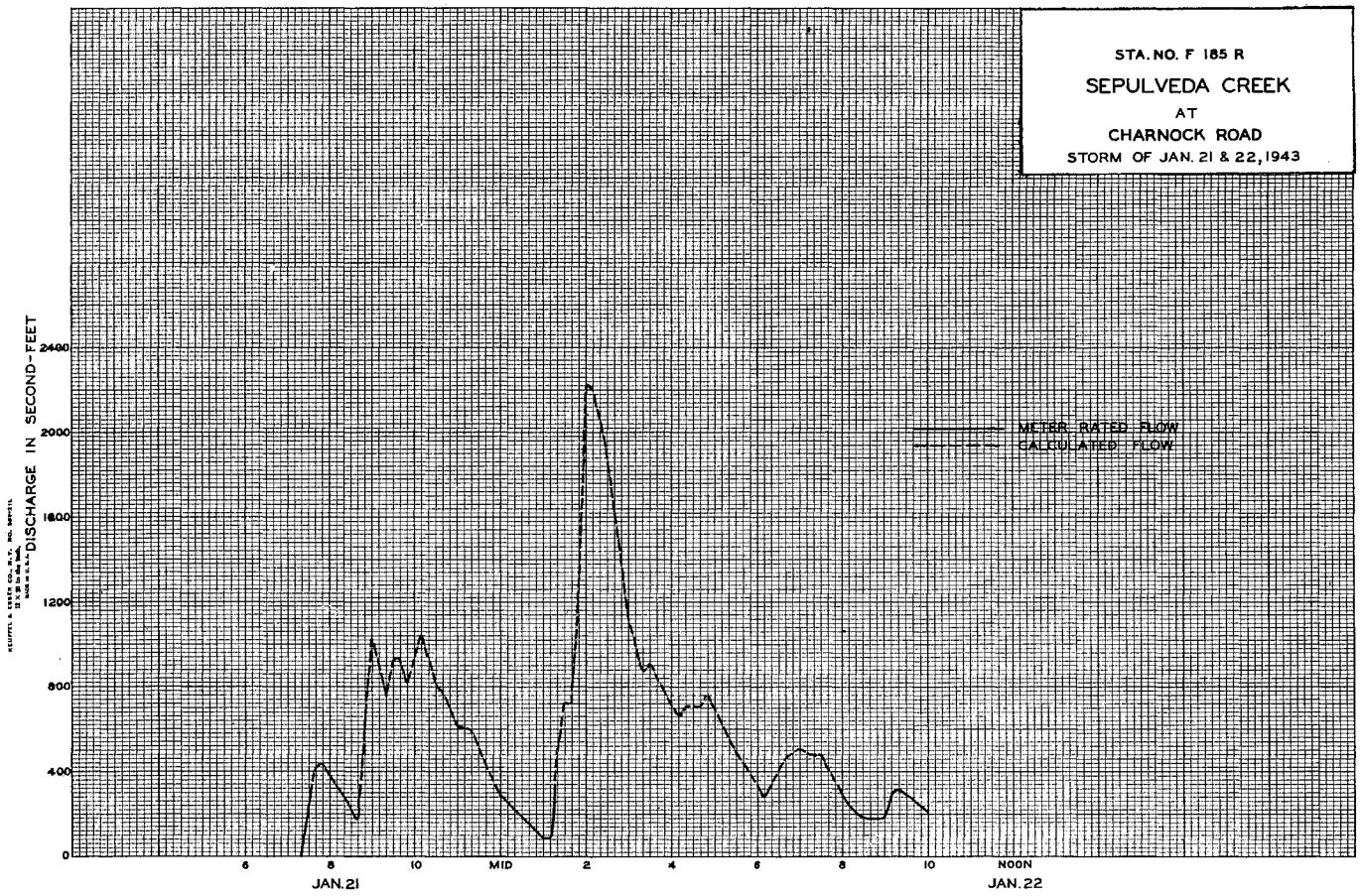
Sta. No. F185R

Daily discharge, in second-feet of SEPULVEDA CREEK At Charnock Road, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.4	0.6	0.2	2.9	0.7	0.6	0.6	0.4	+	0.6	0.6
2	0.6	0.5	0.7	0.2	2.6	0.7	0.7	0.6	0.4	+	0.4	0.5
3	0.6	0.6	0.6	0.2	1.4	218	0.6	0.6	0.4	+	0.6	0.8
4	0.3	0.6	0.5	0.7	1.4	119	0.5	0.5	0.5	+	0.6	0.5
5	0.6	0.5	0.5	0.9	0.9	20	13	0.6	0.5	+	0.6	0.6
6	0.8	0.6	0.4	1.0	1.0	12	20	0.5	0.4	0.1	0.7	0.6
7	0.5	0.5	0.5	0.4	0.9	8	0.4	0.5	0.5	+	0.6	0.6
8	0.5	0.5	0.4	0.4	9.5	5	0.4	0.4	0.6	0.1	0.5	0.6
9	0.4	0.4	0.5	0.6	0.6	3.3	0.5	0.5	0.6	+	0.5	0.6
10	0.2	0.4	0.3	0.5	0.6	1.6	0.4	0.5	0.8	0.1	0.5	0.6
11	0.4	0.4	0.3	0.5	0.9	0.8	0.3	0.6	0.5	0.1	0.5	0.6
12	0.8	0.5	0.1	0.5	0.9	0.5	0.5	0.4	0.5	+	0.6	1.1
13	0.5	0.5	0.3	0.7	0.8	0.5	0.5	0.4	0.5	+	0.4	0.7
14	0.8	0.5	0.9	0.7	0.5	0.5	0.5	0.6	0.6	+	0.4	0.7
15	1.2	0.3	0.6	0.7	0.7	0.5	0.6	0.8	0.8	+	0.4	0.7
16	0.9	0.3	0.5	0.6	0.8	0.6	0.5	0.7	0.9	+	0.5	0.8
17	0.6	0.4	0.4	0.4	0.7	15	0.5	0.9	0.8	+	0.6	0.8
18	0.9	0.5	0.3	0.3	0.7	2.8	0.3	0.9	0.5	0.1	0.4	0.8
19	0.8	4.8	0.4	0.3	0.6	0.3	0.2	0.8	0.4	+	0.6	0.7
20	0.5	0.5	0.5	0.6	1.0	0.4	0.2	0.8	0.2	0.2	0.9	0.7
21	0.4	0.5	0.6	132	16	0.5	0.3	0.8	0.3	0.3	0.9	0.7
22	0.9	0.5	0.8	740	76	0.8	0.2	0.7	0.4	0.4	0.8	0.7
23	2.0	0.6	5.5	261	51	0.5	0.1	0.6	0.8	0.4	0.8	0.7
24	0.9	0.7	32	1.6	83	0.6	0.2	0.8	0.8	0.5	0.8	0.8
25	1.1	0.8	35	8	2.7	0.6	0.3	0.8	0.2	0.5	1.4	0.7
26	1.5	0.3	0.5	78	1.2	0.6	0.3	0.8	0.1	0.5	0.6	0.5
27	1.4	0.3	0.4	14	0.8	0.5	0.3	0.5	0.1	0.5	0.6	0.5
28	27	0.3	0.5	0.8	0.8	0.6	0.5	0.4	0.1	0.5	0.6	0.5
29	0.6	0.3	0.3	6.5		0.6	0.5	0.5	0.1	0.5	0.7	0.5
30	0.6	0.5	0.4	65		0.6	0.6	0.4	0.1	0.5	0.6	0.5
31	0.5		1.2	29		0.6		0.5		0.5	0.6	
	494	186	865	1346.3	260.9	416.7	44.5	190	138	5.8	193	197
MEAN	1.59	0.62	2.79	43.4	9.32	13.4	1.48	0.61	0.46	0.19	0.62	0.66
ACRE-FEET	98.	37.	172.	2670.	517.	827.	88.	38.	27.	12.	38.	39.

Remarks: + = 0.05 c.f.s. or less.

YEAR OR PERIOD MEAN 6.30
ACRE-FEET 4560.



STATION F43R

SYCAMORE UPPER STORM DRAIN above Solway Street

LOCATION:

Right (north) side of concrete drain, approximately 80 feet above Solway Street and about 3 miles northeast of Glendale.

DRAINAGE AREA:

2.7 square miles.

CHANNEL AND CONTROL:

Channel-rectangular concrete, 8.0 feet wide and 8.0 feet deep. Invert is 0.1 foot below bottom of vertical side walls.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge about 80 feet below station.

RECORDER:

Installed January 30, 1928 in a 3 foot by 4.0 foot concrete house and stilling well combined.
Recorder removed April 16, 1932.
Recorder reinstalled October 1, 1935.
Stevens type L recorder was in service from October 1, 1942 to September 30, 1943.

REGULATIONS:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

From January 30, 1928 to April 6, 1932 and from October 1, 1935 to September 30, 1940.
Not published from October 1, 1936 to September 30, 1938, but records are available at office of the Los Angeles County Flood Control District's Hydraulic Division. Records published from October 1, 1938 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 340 second-feet, January 22.
Minimum no flow at various times.
1928-1943
Maximum not determined.
Minimum no flow at various times.

ACCURACY:

Fair.
Low flows interpolated between weekly measurements due to loss of communication or estimates.

OPERATION:

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

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F43-R

DISCHARGE MEASUREMENTS OF SYCAMORE UPPER STORM DRAIN

at above Solway Street DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
27	2-4	340P 345P	Bollinger & Moon	2.1	0.35	7.80	0.09	2.7		.6	3	0	FC 6
28	2-17	1012A 1015A	Bollinger	1.3	0.13	3.74	0.02	0.50	Float	1	1	0	-
29	2-26	1240P 1247P	"	4.8	0.81	6.58	0.11	5.3		.6	5	0	FC 6
30	3-11	1153A 1200N	"	3.0	0.55	7.27	0.27	4.0		.6	4	0	"
31	3-25	300P 305P	"	2.2	0.27	7.78	0.07	2.1		.6	3	0	"
32	4-8	1100A 1105A	"	2.0	0.30	3.67	0.04	1.1	Float	1	1	0	-
33	4-30	230P 235P	"	2.3	0.18	3.33	0.02	0.60	"		2	0	-
34	5-6	200P 205P	Turner	3.6	0.26	1.54	0.04	0.40	"		2	0	-

F.C. Dist. Form SI 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F-43-R

Daily discharge, in second-feet of SYCAMORE UPPER STORM DRAIN Near Solway Street, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	+	+	b 2.5	b 2.5	1.2	2.2	0.4	+	+	+
2	0	+	+	+	b 1.8	b 2.0	1.2	4.1	0.4	+	+	+
3	0	+	+	+	b 1.6	2.8	1.2	1.6	0.5	+	+	+
4	0	+	+	+	1.5	9.0	1.6	1.2	0.6	+	+	+
5	0	+	+	+	b 1.4	3.0	1.6	0.6	0.6	+	+	+
6	0	+	+	+	b 1.3	1.3	1.0	0.4	0.6	+	+	+
7	0	+	+	+	b 1.2	8.5	1.0	0.4	0.6	+	+	+
8	0	+	+	+	2.9	6.5	1.0	0.3	0.5	+	+	+
9	0	+	+	+	1.0	5	0.6	0.3	0.5	+	+	+
10	0	+	+	+	0.8	4.5	0.8	0.4	0.4	+	+	+
11	0	+	+	+	0.8	4.1	1.0	0.4	0.4	+	+	+
12	0	+	+	+	0.6	3.0	0.6	0.4	0.4	+	+	+
13	0	+	+	+	0.6	b 3.5	0.6	0.4	0.3	+	+	+
14	0	+	+	+	0.5	b 4.0	0.6	0.4	0.3	+	+	+
15	0	+	+	+	0.5	b 3.5	0.6	0.4	0.2	+	+	+
16	0	+	+	+	0.5	b 4.0	1.0	0.3	0.2	+	+	+
17	0	+	+	+	0.5	b 5.0	1.2	0.3	0.2	+	+	+
18	0	+	+	+	0.5	b 3.5	1.2	0.3	0.1	+	+	+
19	0	+	+	+	0.5	b 2.5	1.2	0.4	0.1	+	+	+
20	+	+	+	+	0.5	b 2.3	1.0	0.4	0.1	+	+	+
21	0	+	+	1.4	1.6	2.2	1.0	0.4	0.1	+	+	+
22	0	+	+	7.2	13	2.2	1.0	0.5	0.1	+	+	+
23	0	+	+	f 8.1	6.5	2.2	0.6	1.0	0.1	+	+	+
24	+	+	0.3	b 6	10	2.2	0.6	0.6	0.1	+	+	+
25	+	+	0.2	b 2.0	6.5	2.0	0.6	1.0	0.1	+	+	+
26	+	+	0.1	b 3.5	b 5.0	2.0	0.6	0.8	+	+	+	+
27	+	+	+	b 2.0	b 4.0	2.0	0.6	0.6	+	+	+	+
28	0.4	+	+	b 2.0	b 3.0	2.0	0.6	0.4	+	+	+	+
29	+	+	+	b 4.0		1.6	a 0.6	0.4	+	+	+	+
30	+		+	b 15		1.4	0.6	0.4		+	+	+
31				b 9		1.6		0.5			+	
	0.4	+	0.6	1979	71.1	246.8	27.0	21.8	7.9			
Mean	+	+	+	6.38	2.54	7.96	0.90	0.70	0.26	+	+	+
Acre-Feet	0.8	+	1.2	393.	141.	490.	54.	43.	16.	+	+	+

Remarks: + = 0.05 c.f.s. or less.

Year or Period — Mean 1.57 — Acre-Feet 1140

STATION F44R

SYCAMORE LOWER STORM DRAIN at Adams Square

LOCATION:

In man-hole in yard of Union Oil Company Service Station at southwest corner of Adams Street and Chevy Chase Drive, on the left (south) side of the drain, about 30 feet west of west curb of Adams Street about 1 mile southeast of Glendale.

DRAINAGE AREA:

6.2 square miles.

CHANNEL AND CONTROL:

Channel-closed rectangular concrete drain, 9.0 feet wide and 10.0 feet deep. Invert is 0.1 foot below bottom of vertical side walls. Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from footbridge in open channel below station.

RECORDER:

Installed December 15, 1928, underground in a 3.0 foot by 4.0 foot concrete house and stilling well combined.
An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 15, 1927 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 757 second-feet, January 22.
Minimum + flow at various times.
1927-1943
Maximum 2800 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor.
Low flows estimated or interpolated between weekly measurements due to sand and debris obstructing communication.

OPERATION:

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F44-R

DISCHARGE MEASUREMENTS OF SYCAMORE LOWER STORM DRAIN

AT Adams Square DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
49	2-8	117P / 125P	Bollinger	2.7	0.78	3.01	-	2.4		.6	5	0	FC 6
50	2-19	620P / 625P	"	3.0	0.58	0.81	-	0.47		.6	5	-	"
51	2-21	417P / 427P	"	9.0	2.15	2.14	-	4.6		.6	6	0	"
52	2-26	1122A / 1133A	"	9.0	2.34	2.64	-	6.2		.6	8	0	"
53	3-11	938A / 950A	"	9.0	2.03	2.79	0.25	5.7		.6	7	0	"
54	3-25	343P / 348P	"	9.0	1.12	1.25	0.15	1.4		.6	4	0	"
55	4-15	832A / 837A	"	5.5	0.38	2.60	0.11	1.0	Float		3	0	-
56	5-21	1245P / 1250P	Turner	4.0	0.20	1.20	0.08	0.24	"		4	0	-

P.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F44R

Daily discharge, in second-feet of SYCAMORE LOWER STORM DRAIN At Adams Square, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	+	b 3.5	a 3.5	1.1	0.6	0.3	+	+	+
2	+	+	+	+	b 2.5	a 3.0	0.8	0.6	0.2	+	a +	+
3	+	+	+	+	b 2.0	a 7.0	1.1	0.6	0.2	a +	a +	+
4	+	+	+	+	b 1.8	a 13.0	1.1	0.6	0.2	a +	a +	+
5	+	+	+	+	b 1.7	a 4.0	5.5	0.6	0.2	a +	a +	+
6	+	0.3	+	+	b 1.6	a 15	7.0	0.6	0.2	a +	a +	+
7	+	+	+	+	b 1.5	a 12	2.3	0.6	0.1	a +	a +	+
8	+	+	+	+	14.5	a 10	3.1	0.5	0.2	a +	a +	+
9	+	+	+	+	2.0	a 9	2.3	0.5	0.1	a +	a +	+
10	+	0.7	+	+	b 1.5	a 7	2.3	0.5	0.1	+	a +	+
11	+	+	+	+	b 1.3	a 5	1.9	0.5	0.1	+	a +	+
12	+	+	+	+	b 1.2	a 7	1.5	0.4	0.1	+	a +	+
13	+	+	+	+	b 1.1	a 7	1.5	0.4	0.1	+	a +	+
14	+	+	+	+	b 1.0	a 7	1.1	0.4	0.1	+	+	+
15	+	+	+	+	b 0.9	a 6	1.1	0.4	0.1	+	+	+
16	+	+	+	+	b 0.8	a 8	1.5	0.4	0.1	+	+	+
17	+	+	+	+	b 0.7	11	1.5	0.4	+	+	+	+
18	+	+	+	+	b 0.6	7	1.5	0.4	+	+	+	+
19	+	1.9	+	+	ba 0.5	4.0	1.5	0.3	+	+	+	+
20	0.3	+	+	+	b 1.0	4.0	1.5	0.2	+	+	+	+
21	0.2	+	+	27	b 3.5	3.5	1.1	0.2	+	+	+	+
22	+	+	+	205	a 2.5	3.5	1.1	0.3	+	+	+	+
23	+	+	0.6	151	a 1.0	2.3	1.1	0.3	+	+	+	+
24	0.4	+	7.5	b 9	a 2.0	2.3	1.1	0.3	+	+	+	+
25	+	+	6.6	b 3	a 1.0	1.5	0.8	0.3	+	+	+	+
26	+	+	+	b 6	ab 7	1.5	0.6	0.3	+	+	+	+
27	+	+	+	b 3	b 5	1.5	0.8	0.3	+	+	+	0.2
28	6.6	+	+	b 3	b 4	1.5	0.8	0.3	+	+	+	0.4
29	+	+	+	b 6		1.5	0.8	0.3	+	+	+	+
30	+	+	+	57		1.5	0.6	0.3	+	+	+	+
31	+		+	27		1.1		0.3		+	+	
	7.50	2.90	14.7	497	126.2	387.2	50.0	12.7	2.4	+	+	0.6
Mean	0.24	0.10	0.47	16.0	4.51	12.5	1.67	0.41	0.08	+	+	+
Acre-Feet	14.9	5.8	29.	986.	250.	768.	99.	25.	4.8	+	+	1.2

Remarks: + = 0.05 c.f.s. or less.

Year or Period Mean 3.02
Acre-Feet 2180.

STATION F276R

THOMPSON CREEK SPREADING GROUNDS INTAKE
at Thompson Creek Dam

LOCATION:

On the left (east) side at the downstream side of the 3 foot x 3 foot diversion outlet thru Thompson Creek Dam.

DRAINAGE AREA:

3.7 square miles.

CHANNEL AND CONTROL:

Channel-3 foot x 3 foot conorete, covered outlet with a transition into a 5 foot diameter semi-circular flume.
Control-transition into semicircular flume acts as control at gage.

DISCHARGE MEASUREMENTS:

All flows measured by wading.

RECORDER:

Installed January 14, 1941 over a 24 inch corrugated iron pipe. A Horizontal Rational recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION AND/OR DIVERSIONS:

Inflow to Thompson Creek Dam from Cobal and Palmer Canyons can be directed thru a 3 foot x 3 foot outlet tunnel to Thompson Creek Spreading Grounds. Flow thru the tunnel can be controlled by two slide gates so that any flow in excess of the capacity of gate opening is passed over a spillway back to the reservoir.

RECORDS AVAILABLE:

January 14, 1941 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 21. second-feet, February 24.
Minimum no flow most of year.
1940-1943
Maximum 21. second-feet, February 24, 1943.
Minimum no flow most of each year.

ACCURACY:

Fair

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F276-R

DISCHARGE MEASUREMENTS OF THOMPSON CREEK SPREADING GROUNDS INTAKE

AT Thompson Creek Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
22	1-29	410P / 418P	Brewster	4.0	1.29	1.40	0.39	1.8		.6	5	0	FC 35
23	2-4	554P / 600P	"	3.0	0.63	1.17	0.29	0.74		.6	4	0	FC 12
24	2-6	155P / 200P	"	3.0	0.56	0.75	0.23	0.42		.6	4	0	"
25	2-23	225P / 230P	"	3.0	0.44	0.68	0.26	0.30		.6	3	0	"
26	2-24	1010A / 1020A	"	5.0	2.10	1.14	0.55	2.4		.6	5	0	"
27	2-24	1100A / 1110A	"	10.0	6.80	3.07	1.38	20.9		.6	5	-.01	"
28	2-25	430P / 440P	"	7.0	3.60	2.44	0.89	8.8		.6	4	0	"
29	2-27	1107A / 1115A	"	4.5	1.95	2.15	0.64	4.2		.6	5	0	"
30	3-1	1056A / 1105A	"	5.0	1.54	1.69	0.51	2.6		.6	5	0	"
31	3-3	1102A / 1110A	"	5.0	1.50	1.40	0.54	2.1		.6	5	0	"
32	3-4	554P / 603P	"	8.0	3.40	1.71	0.80	5.8		.6	4	0	"
33	3-5	1040A / 1050A	Brewster & Smith	9.0	4.05	2.47	0.94	10.0		.6	5	-.01	"
34	3-6	210P / 220P	" "	9.0	5.85	2.27	1.05	13.3		.6	5	0	"
35	3-8	1040A / 1051A	Brewster	8.0	3.80	1.97	0.85	7.5		.6	4	0	FC 12
36	3-11	350P / 400P	"	8.0	3.00	1.63	0.65	4.9		.6	4	0	"
37	3-15	240P / 248P	"	5.0	1.70	1.18	0.51	2.0		.6	5	0	"
38	3-18	352P / 400P	"	6.0	2.15	0.98	0.50	2.1		.6	4	0	"
39	3-22	152P / 200P	"	7.0	1.80	0.83	0.42	1.5		.6	4	0	"
40	3-25	234P / 240P	"	4.0	0.98	0.60	0.30	0.59		.6	4	0	"
41	3-29	1150A / 1155A	"	3.0	1.00	0.49	0.28	0.49		.6	3	0	"
42	4-1	406P / 410P	"	2.0	0.24	0.25	0.16	0.06		.6	2	0	"
43	4-6	324P / 330P	Brewster	4.0	1.68	1.19	0.50	2.0		.6	4	0	FC 12
44	4-8	442P / 450P	"	4.0	1.65	1.21	0.51	2.0		.6	4	0	"
45	4-9	1200N / 1205P	Green	4.0	0.69	1.16	0.40	0.80		.6	4	0	FC 30
46	4-12	1254P / 100P	Brewster	4.0	0.90	0.63	0.36	0.57		.6	4	0	FC 12
47	4-15	125P / 130P	"	3.0	0.64	0.50	0.30	0.32		.6	3	0	"
48	4-19	1210P / 1215P	"	3.0	0.48	0.23	0.20	0.11		.6	3	0	"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No F276R

Daily discharge, in second-feet of THOMPSON CREEK SPREADING GROUNDS INTAKE at Thompson Creek Dam, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	1.3	2.4	0.3	0	0	0	0	0
2	0	0	0	0	1.2	a 1.9	0.1	0	0	0	0	0
3	0	0	0	0	1.0	1.0	0	0	0	0	0	0
4	0	0	0	0	0.8	3.8	0	0	0	0	0	0
5	0	0	0	0	0.7	11	0.2	0	0	0	0	0
6	0	0	0	0	0.5	11	2.0	0	0	0	0	0
7	0	0	0	0	0.4	9.5	1.1	0	0	0	0	0
8	0	0	0	0	0.3	6.0	1.8	0	0	0	0	0
9	0	0	0	0	0	5	1.0	0	0	0	0	0
10	0	0	0	0	+	5.5	0.6	0	0	0	0	0
11	0	0	0	0	0.3	5.5	0.5	0	0	0	0	0
12	0	0	0	0	0.2	4.2	0.4	0	0	0	0	0
13	0	0	0	0	0.1	3.0	0.3	0	0	0	0	0
14	0	0	0	0	+	2.3	0.3	0	0	0	0	0
15	0	0	0	0	0	2.0	0.3	0	0	0	0	0
16	0	0	0	0	0	1.8	0.4	0	0	0	0	0
17	0	0	0	0	0	1.2	0.3	0	0	0	0	0
18	0	0	0	0	0	1.4	0.3	0	0	0	0	0
19	0	0	0	0	0	1.9	0.2	0	0	0	0	0
20	0	0	0	0	0	1.8	0.1	0	0	0	0	0
21	0	0	0	0	0.3	1.8	0.1	0	0	0	0	0
22	0	0	0	0.2	a 0.1	1.6	+	0	0	0	0	0
23	0	0	0	0.1	a 4.9	1.0	+	0	0	0	0	0
24	0	0	0	0	1.4	0.8	0	0	0	0	0	0
25	0	0	0	0	1.0	0.7	0	0	0	0	0	0
26	0	0	0	0	.6	0.6	0	0	0	0	0	0
27	0	0	0	1.8	4.1	0.6	0	0	0	0	0	0
28	0	0	0	3.0	3.2	0.5	0	0	0	0	0	0
29	0	0	0	2.2		0.5	0	0	0	0	0	0
30	0	0	0	2.0		0.5	0	0	0	0	0	0
31	0		0	0.5		0.3		0		0	0	
	0	0	0	9.8	49.3	91.0	10.3	0	0	0	0	0
Mean	0	0	0	0.32	1.76	2.94	0.34	0	0	0	0	0
Acre-Feet	0	0	0	19.	98.	180.	20.	0	0	0	0	0

Remarks: + = 0.05 c.f.s. or less.

Year or Period — Mean 0.44 — Acre-Feet 317.

STATION F54R

TOPANGA CREEK above Mouth of Canyon

LOCATION:

On right (west) downstream abutment of the concrete bridge 2 miles north of Topanga Beach and 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:

Low flows measured by wading.
High flows measured from cable car above station.

RECORDER:

Installed January 1, 1930 at Station F54R. Removed June 4, 1940. Installed June 5, 1940 at Station F54B-R over a 21 inch diameter corrugated iron pipe stilling well. Removed December 9, 1941. Reinstalled December 9, 1941 at the approximate former location of Station F54B-R in a new concrete house and well constructed in the abutment of the concrete bridge. An H.C.F. recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 1, 1930 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 2,200 second-feet, January 22.
Low flow was plus (+) on several days in October, November and December.
1930-1943
Maximum 9,300 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Records occasionally estimated due to loss of communication.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F54-R

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

AT above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
391	10-1	106P / 109P	Moon	2.6	0.24	0.25	3.90	0.06		.6	2	0	FC 22
392	10-8	106P / 108P	"	2.6	0.26	0.23	3.91	0.06		.6	2	0	"
393	10-15	240P / 243P	"	2.6	0.24	0.29	3.90	0.07		.6	2	0	"
394	10-28	300P / 307P	"	5.0	0.73	0.75	4.07	0.55		.6	5	0	"
395	10-29	145P / 150P	"	3.0	0.40	0.58	4.00	0.23		.6	4	0	"
396	11-5	235P / 238P	"	2.5	0.23	0.26	3.93	0.06		.6	3	0	"
397	11-19	233P / 235P	"	2.8	0.38	0.34	3.95	0.13		.6	3	0	"
398	11-25	342P / 345P	"	2.5	0.27	0.26	3.94	0.07		.6	3	0	"
399	12-3	316P / 320P	"	2.5	0.27	0.26	3.95	0.07		.6	3	0	"
400	12-11	246P / 247P	"	2.6	0.20	0.40	3.95	0.08		.6	2	0	"
401	12-17	120P / 125P	Moon	2.6	0.27	0.22	3.95	0.06		.6	4	0	FC 12
402	12-23	230P / 234P	"	2.7	0.32	0.31	3.96	0.10		.6	3	0	"
403	12-27	300P / 305P	"	2.9	0.35	0.46	3.99	0.16		.6	4	0	"
404	12-30	114P / 117P	"	3.0	0.36	0.42	3.98	0.15		.6	3	0	"
405	1-8	305P / 308P	"	2.9	0.32	0.31	3.97	0.10		.6	3	0	"
406	1-15	303P / 304P	"	2.8	0.33	0.33	3.98	0.11		.6	4	0	"
407	1-22	1242A / 1258A	Moon & Andren	31.0	36.4	5.25	5.35	191.		.6	6	+.05	"
408	1-22	200P / 230P	" "	50.0	160.	9.38	8.53	1500.		.6	7	-.27	"
409	1-23	535A / 555A	" "	50.0	112.	6.45	5.85	722.		.6	6	-.04	"
410	1-24	510P / 525P	Moon	21.0	19.8	2.37	-	47.0		.6	10	-	"
411	1-25	435P / 448P	Moon & Andren	20.0	15.4	1.64	3.14	2528.		.6	8	0	FC 22
412	1-26	1008A / 1017A	" "	20.5	16.4	2.04	3.27	33.4		.6	10	0	"
413	1-27	259P / 311P	Moon	21.0	16.3	1.74	3.26	28.4		.6	11	0	"
414	1-29	300P / 308P	"	19.0	18.9	0.73	3.00	13.8		.6	8	0	"
415	2-1	1125A / 1137A	"	20.5	15.8	1.89	3.14	29.9		.6	11	0	"
416	2-5	217P / 228P	"	19.4	10.4	0.98	2.89	10.2		.6	12	0	"
417	2-11	228P / 235P	"	9.0	4.81	0.91	2.77	4.4		.6	7	0	"
418	2-19	115P / 123P	"	7.4	3.19	0.91	2.68	2.9		.6	7	0	"
419	2-22	948A / 956A	Moon & Andren	20.0	11.8	1.48	2.97	17.5		.6	10	+.02	"
420	2-23	902A / 910A	" "	Two Channels			3.51	67.0		.6	12	+.02	"
421	2-23	800P / 830P	" "	Three Channels			3.86	132.		.6	8	+.02 -.05	"
422	2-24	1125A / 1136A	" "	37.0	53.2	2.52	3.77	134.		.6	12	-.02	"
423	2-26	205P / 217P	Moon	21.0	18.5	1.91	3.10	35.4		.6	12	0	"
424	3-3	522P / 545P	Moon & Andren	55.8	121.	7.42	5.55	898.	Surf.	13	+.28	"	
425	3-4	405A / 429A	" "	51.6	106.	6.00	4.88	636.	Surf.	9	-.02	"	
426	3-5	910A / 932A	" "	44.0	43.0	3.00	3.54	129.		.6	17	-.01	"
427	3-9	120P / 132P	Moon	18.0	18.2	1.96	2.97	35.6		.6	10	0	"
428	3-12	1050A / 1115A	Andren	22.0	15.4	1.85	2.85	28.5		.6	14	0	FC 2
429	3-19	230P	Moon	19.0	12.7	0.86	2.76	10.9		.6	13	-	FC 22
430	3-26	130P / 142P	"	17.5	10.2	0.68	2.65	6.9		.6	10	0	"
431	4-2	130P / 138P	"	7.0	3.52	1.34	2.57	4.7		.6	7	0	"
432	4-9	125P / 132P	"	7.0	3.50	1.11	2.61	5.0		.6	7	0	"
433	4-16	345P / 352P	Moon	6.5	2.48	1.12	2.51	2.8		.6	6	0	FC 22
434	4-23	100P / 105P	Moon & Bollinger	6.0	2.20	1.09	2.49	2.4		.6	6	-	"
435	4-30	1252P / 100P	Moon	6.0	2.12	0.94	2.43	2.0		.6	6	-	"
436	5-7	145P / 153P	Bollinger	5.3	1.88	0.96	2.47	1.8		.6	6	0	FC 6
437	5-15	228P / 233P	"	8.0	2.28	0.79	2.43	1.8		.6	6	0	"
438	5-19	147P / 152P	Moon	5.0	1.30	0.56	2.39	0.73		.6	5	0	FC 22
439	5-28	240P / 247P	Bollinger	8.0	3.30	0.33	2.49	1.1		.6	6	0	FC 6
440	6-3	140P / 148P	"	8.0	2.56	0.51	2.44	1.3		.6	5	0	"
441	6-10	113P / 121P	"	8.0	2.51	0.35	2.40	0.88		.6	6	0	"
442	6-17	210P / 215P	"	7.3	2.02	0.18	2.38	0.36		.6	6	0	"
443	6-25	225P / 230P	"	2.5	0.77	0.44	2.43	0.34		.6	4	-	"
444	7-2	148P / 153P	"	2.5	0.53	0.58	2.46	0.31		.6	4	0	"
445	7-9	1235P / 1239P	"	2.2	0.45	0.62	2.45	0.28		.6	3	0	"
446	7-16	155P / 158P	"	2.1	0.41	0.59	2.39	0.24		.6	3	0	"
447	7-22	240P / 245P	Bonadiman	3.0	0.45	0.22	2.37	0.10		.6	2	0	FC 19
448	7-29	225P / 231P	"	3.0	0.30	0.33	2.20	0.10		.6	2	0	"
449	8-6	340P / 345P	Bollinger	2.0	0.37	0.43	2.40	0.16		.6	3	0	FC 6
450	8-13	113P / 118P	"	2.6	0.64	0.36	2.40	0.23		.6	4		"
451	8-20	130P / 135P	"	2.0	0.35	0.70		0.20		.6	3		"
452	8-27	200P / 206P	"	2.1	0.35	0.37		0.13		.6	3		"
453	9-3	254P / 258P	"	2.2	0.36	0.28		0.10		.6	3		"
454	9-10	228P / 233P	"	2.1	0.30	0.27		0.08		.6	3		"

F.C. Dist. Form H 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

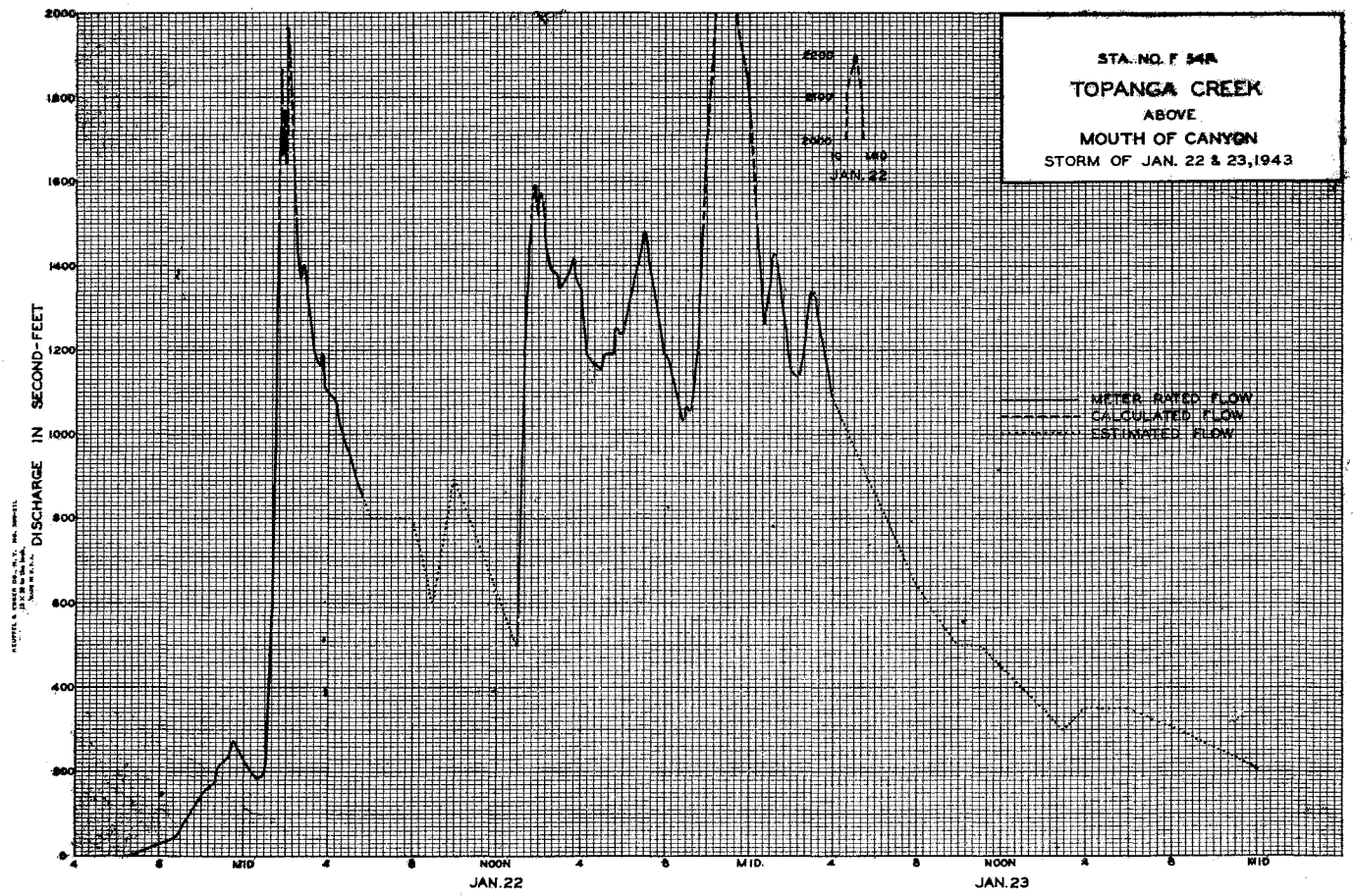
Sta. No. F 54 B

Daily discharge, in second-feet of TOPANGA CREEK Above Mouth of Canyon, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.1	0.1	0.2	31	19	4.5	1.6	b 1.2	b 0.3	b 0.1	b 0.1
2	+	0.1	0.1	0.2	23	17	4.7	1.6	b 1.3	b 0.3	b 0.1	b 0.1
3	+	0.1	0.1	0.2	17	309	4.2	1.3	b 1.3	b 0.3	b 0.2	b 0.1
4	+	0.1	0.1	0.1	14	f 391	4.2	1.5	b 1.2	b 0.3	b 0.2	b 0.1
5	0.1	0.1	0.1	0.1	11	b 119	6.5	1.6	b 1.2	b 0.3	b 0.2	b 0.1
6	0.1	0.1	0.1	0.1	9	81	15	1.8	b 1.1	b 0.3	b 0.2	b 0.1
7	0.1	0.1	0.1	0.1	8	54	7	b 1.8	b 1.1	b 0.3	b 0.2	b 0.1
8	0.1	0.1	0.1	0.1	7	45	6	b 1.8	b 1.0	b 0.3	b 0.2	b 0.1
9	0.1	0.1	0.1	0.1	6	35	5	b 1.8	b 1.0	b 0.3	b 0.2	b 0.1
10	+	0.1	0.1	0.1	4.9	33	4.7	b 1.8	b 0.9	b 0.3	b 0.2	b 0.1
11	+	0.1	0.1	0.1	4.3	30	4.2	b 1.8	b 0.8	b 0.3	b 0.2	b 0.1
12	0.1	0.1	+	0.1	4.0	28	3.7	b 1.8	b 0.8	b 0.3	b 0.2	b 0.1
13	0.1	0.1	+	0.1	3.8	25	3.2	b 1.8	b 0.7	b 0.2	b 0.2	b 0.1
14	0.1	0.1	+	0.1	3.6	21	2.9	b 1.8	b 0.6	b 0.2	b 0.2	b 0.1
15	0.1	+	0.1	0.1	3.5	20	2.9	b 1.8	b 0.6	b 0.2	b 0.2	b 0.1
16	0.1	0.1	+	0.1	3.5	17	2.9	b 1.5	b 0.5	b 0.2	b 0.2	b 0.1
17	0.1	0.1	0.1	0.1	3.3	14	2.9	b 1.2	b 0.4	b 0.2	b 0.2	b 0.1
18	0.1	0.1	0.1	0.1	2.9	12	2.7	b 1.0	b 0.4	b 0.2	b 0.2	b 0.1
19	0.1	0.2	0.1	0.1	2.9	11	2.7	b 0.7	b 0.4	b 0.2	b 0.2	b 0.1
20	0.1	0.2	0.1	0.1	2.9	9.5	2.7	b 0.7	b 0.4	b 0.1	b 0.2	b 0.1
21	0.1	0.1	0.1	25	8	9	2.7	b 0.8	b 0.4	b 0.1	b 0.2	b 0.1
22	+	0.1	0.1	f 1110	140	9.5	2.4	b 0.8	b 0.3	b 0.1	b 0.2	b 0.1
23	+	0.1	0.1	b 610	109	8.5	2.4	b 0.9	b 0.3	b 0.1	b 0.2	b 0.1
24	+	0.1	0.5	b 103	141	7.5	2.4	b 0.9	b 0.3	b 0.1	b 0.2	b 0.1
25	0.1	0.1	0.8	f 26	51	7	2.1	b 1.0	b 0.3	b 0.1	b 0.2	b 0.1
26	0.1	0.1	0.3	38	37	7	1.9	b 1.0	b 0.3	b 0.1	b 0.1	b 0.1
27	0.1	0.1	0.2	42	29	7	2.1	b 1.0	b 0.3	b 0.1	b 0.1	b 0.1
28	0.2	0.1	0.2	19	23	7	2.1	b 1.1	b 0.3	b 0.1	b 0.1	b 0.1
29	0.3	0.1	0.2	14		6.5	2.2	b 1.1	b 0.3	b 0.1	b 0.1	b 0.1
30	0.2	0.1	0.2	74		6	1.9	b 1.2	b 0.3	b 0.1	b 0.1	b 0.1
31	0.1		0.2	54		5		b 1.2		b 0.1	b 0.1	
	2.6	3.1	4.5	2117.3	703.6	1370.5	114.8	41.7	20.0	6.2	5.4	3.0
Mean	0.08	0.10	0.15	68.3	25.1	44.2	3.83	1.35	0.67	0.20	0.17	0.10
Acre-Feet	5.2	6.1	8.9	4,200.	1400.	2720.	228.	83.	40.	12.	11.	6.0

Remarks: + = 0.05 c.f.s. or less.

Year or Period — Mean 12.0 — Acre-Feet 8720.



STATION F252R

VERDUGO CHANNEL at Estelle Avenue

LOCATION:

On the right (north) side of channel at Estelle Avenue, 800 feet east of San Fernando Road, and about 2 miles northwest of Glendale.

DRAINAGE AREA:

22.4 square miles.

CHANNEL AND CONTROL:

Channel-rectangular concrete, 87 feet wide by 11 feet deep to bottom of invert. Invert is 1.0 foot below bottom of vertical side walls.
Channel forms control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from cable car 40 feet above station.

RECORDER:

Installed December 2, 1935 over a 20 inch x 30 inch concrete well. An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

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, 1943.
For earlier records see Stations F9R, Verdugo at Glen Oaks Boulevard, and F244R, Verdugo at Don Carlos Street.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 3570 second-feet, estimated, Jan. 23.
Minimum 0.3 second-feet, several days during year.
1935-1943
Maximum 4400 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.

OPERATION:

Located, and constructed by United States Engineer Department and operated by Los Angeles County Flood Control District in co-operation with the United States Engineer Department.

F. C. D. FORM 104 3M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F252-R

DISCHARGE MEASUREMENTS OF VERDUGO CHANNEL

AT Estelle Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	ENTIRE	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
		915A											
38	12-3	933A	Bollinger	5.4	0.48	2.92	0.16	1.4	Float	4	0		
		1150P	Bollinger &										
39	1-21	1158P	Belt	52.0	11.6	9.4	0.61	109.	"		5	-.04	
		1230A											
40	1-22	1237A	" "	55.0	19.1	11.7	0.65	223.	"		5	-.07	
		320P											
41	2-21	330P	Bollinger	19.0	3.78	7.35	0.38	27.8		.6	5	0	FC 6
		207P											
42	2-26	213P	"	18.0	3.01	7.44	0.37	22.4		.6	6	0	"
		127P											
43	3-25	135P	"	16.0	2.58	3.72	0.29	9.6		.6	6	-.01	"
		315P											
44	4-9	325P	"	13.5	2.07	4.44	0.28	9.2		.6	5	0	"
		1055A											
45	4-15	1106A	"	14.0	1.35	4.52	0.24	6.1	Surf.		6	0	"
		120P											
46	4-30	127P	"	6.0	0.57	2.63	0.18	1.5		.6	5	0	"
		310P											
47	5-5	320P	Turner	7.0	0.60	3.00	0.18	1.8		.6	5	0	FC 5
		1145A											
48	5-28	1150A	"	7.0	0.99	1.01	0.20	1.0		.6	5	0	"
		421P											
49	6-18	428P	Bollinger	6.7	0.85	3.41	0.20	2.9		.6	6	0	FC 6
		1140A											
50	7-2	1145A	Turner	5.0	0.40	3.30	0.22	1.3		.6	5	0	FC 5
		155P								.6+			
51	8-20	200P	"	5.0	0.39	2.82	0.28	1.1	Surf.		4	0	"
		325P											
52	9-2	333P	Bollinger	4.3	0.34	1.79	0.17	0.61		.6	5	0	FC 6
		205P											
53	9-30	208P	"	5.5	0.24	2.92	0.07	0.70	Float		4	0	-

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

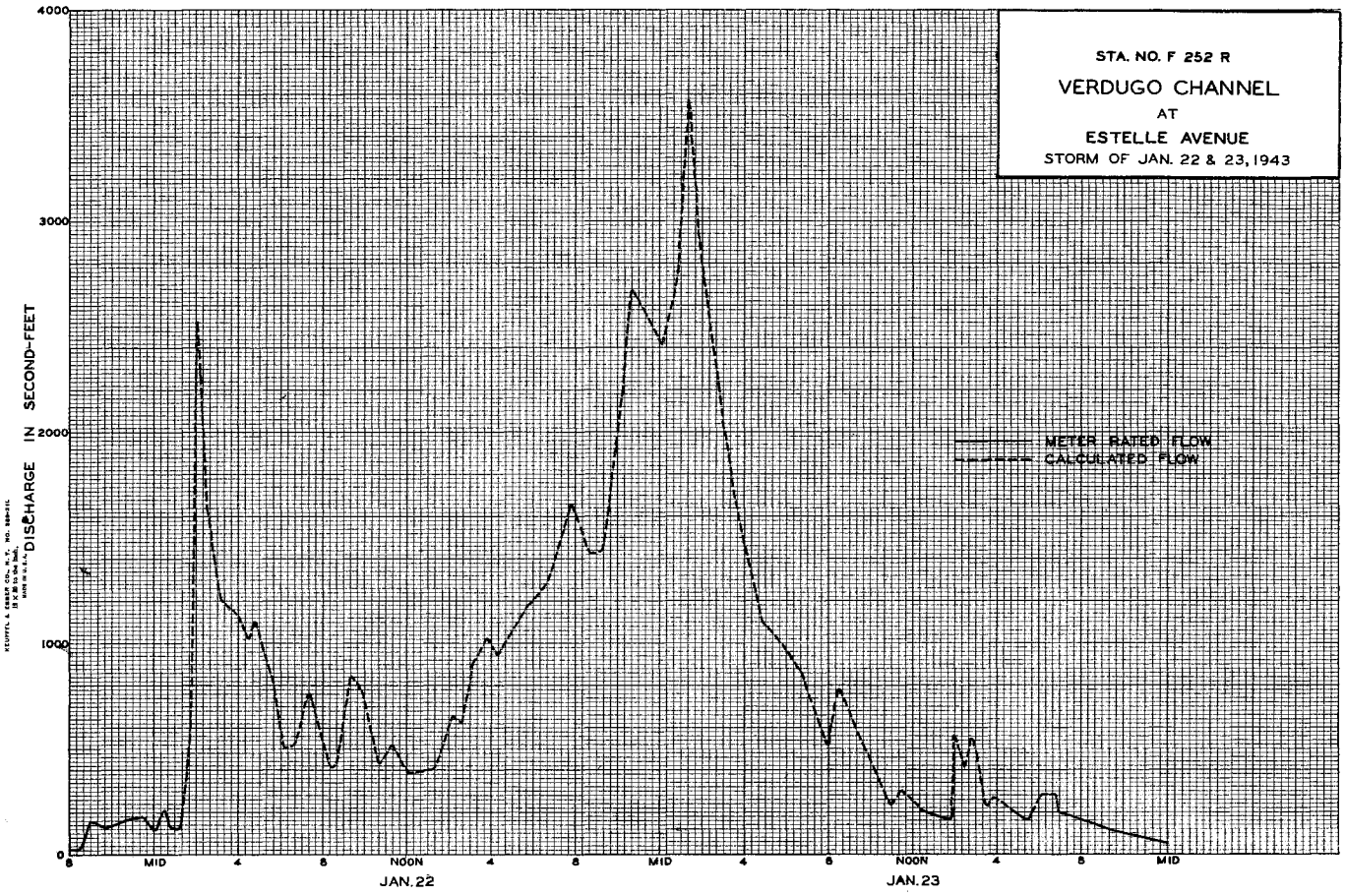
Sta. No. F252R

Daily discharge, in second-feet of VERDUGO CHANNEL, At Estelle Avenue, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	1.4	1.7	3.0	b 3.0	5.5	6.5	1.7	1.4	1.4	1.1	1.1
2	0.8	1.7	1.4	3.0	b 1.9	4.9	6.5	2.1	1.1	1.4	1.7	0.8
3	0.6	2.1	1.4	2.1	4.2	257	5.5	2.5	1.1	1.4	1.4	0.4
4	0.4	1.4	1.1	1.4	3.0	380	4.9	3.0	1.1	2.5	1.1	0.4
5	0.6	1.1	1.1	1.1	2.5	117	12	2.5	0.8	2.5	1.1	0.3
6	1.1	1.1	1.1	0.8	3.0	42	16	2.5	1.1	2.1	1.1	0.4
7	1.1	1.4	0.8	0.6	3.0	28	6.5	2.5	1.1	2.5	0.8	0.3
8	1.4	1.7	1.1	0.6	31	25	12	3.0	1.4	2.1	0.8	0.3
9	1.4	2.1	1.1	0.6	3.6	25	7.5	3.0	1.4	1.7	0.8	0.3
10	1.4	1.4	0.8	1.1	2.5	19	5.5	1.4	1.4	2.1	0.4	0.3
11	1.1	1.1	0.6	1.1	2.1	16	5.5	1.7	1.4	2.5	0.4	0.3
12	1.4	1.1	0.4	1.1	2.1	21	9	2.5	2.1	2.1	0.6	0.4
13	0.8	1.4	0.8	0.8	2.1	21	6.5	1.4	2.5	1.7	0.6	1.1
14	1.1	1.1	0.8	0.8	2.1	21	7.5	1.1	2.1	2.1	0.6	2.1
15	1.1	1.1	1.1	0.8	2.1	19	6.5	0.8	1.7	2.1	0.6	2.5
16	1.1	1.4	1.1	0.8	2.1	21	6.5	0.8	2.1	1.7	0.6	2.5
17	0.8	1.4	1.1	0.8	2.5	28	5.5	1.7	2.1	1.7	0.4	2.5
18	0.8	1.9	1.4	0.6	3.0	42	4.9	1.7	2.1	1.4	0.8	2.5
19	0.8	4.8	1.4	0.4	3.0	28	4.9	1.7	2.1	1.1	0.8	2.1
20	1.1	1.7	1.7	0.8	3.6	25	4.2	1.4	2.1	0.6	0.8	3.0
21	1.1	1.4	1.7	24	27	23	3.0	1.7	1.7	0.6	1.1	3.6
22	1.1	1.1	1.4	1020	103	23	3.6	1.7	1.1	0.4	1.1	2.5
23	1.7	0.8	1.7	f 758	39	19	2.5	1.4	2.1	0.4	1.1	3.0
24	1.7	1.1	11	b 30	119	14	3.0	1.7	2.1	0.6	0.8	4.2
25	1.4	1.4	8.5	b 10	28	10	3.0	1.4	1.7	0.4	0.6	3.0
26	1.7	1.4	1.7	b 19	23	10	2.5	1.1	1.7	0.4	0.6	3.0
27	2.5	1.7	2.1	b 11	21	11	2.1	1.4	1.7	0.6	0.6	3.6
28	8.5	1.4	2.1	b 10	11	10	2.1	1.1	2.1	0.4	0.8	3.0
29	2.1	1.1	2.1	b 21		10	2.1	1.1	1.7	0.6	0.8	4.2
30	1.7	1.4	1.7	78		10	2.1	1.1	1.7	0.6	1.1	2.1
31	1.7		2.1	46		7.5		1.4		0.8	1.1	
	44.9	45.2	58.1	2049.3	497.5	1292.9	169.9	54.1	49.8	42.5	26.2	55.8
MEAN	1.45	1.51	1.87	66.7	17.8	41.7	5.66	1.74	1.66	1.34	0.85	1.86
ACRE-FEET	89.	90	115	4100	987	2560	337	107	99	84	52	111

Remarks:

YEAR OR PERIOD MEAN 12.6
ACRE-FEET 8690



STATION F47R

WALNUT CREEK at Covina Boulevard

LOCATION:

On downstream side of highway bridge, about 2 miles southwest of Baldwin Park. This station is at or near the location of the station operated from 1923 to 1928 by the State Division of Water Rights.

DRAINAGE AREA:

99.0 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel.
No artificial control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from upstream 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. An H.C.F. continuous recorder was in service from October 1, 1942 to September 30, 1943.

REGULATION:

Flow partially regulated by Big Dalton Dam, San Dimas Dam, Puddingetone Diversion Dam, Puddingstone Dam, and Live Oak Dam. Irrigation companies at times spread San Gabriel River Water from the Covina and Azusa Canals in Little and Big Dalton channels.

DIVERSIONS:

Some water diverted for irrigation.

RECORDS AVAILABLE:

December 15, 1928 to September 30, 1943.

EXTREMES OF DISCHARGE:

1942-1943
Maximum 4380 second-feet, January 23.
Minimum no flow most of year.
1928-1943
Maximum 8060 second-feet, January 1, 1934.
Minimum no flow most of each year.

ACCURACY:

Fair due to shifting control and occasional sanded communication.

OPERATION:

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

F. C. D. FORM 104 2M 7-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F47-R

DISCHARGE MEASUREMENTS OF WALNUT CREEK

AT Covina Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
196	1-22	605P / 615P	Waddicor & Blakely	60.0	62.5	3.50	3.35	219.		.6	9	+.16	FC 24
197	1-23	158P / 205P	"	48.0	57.3	3.63	3.15	208.		.6	8	-.10	"
198	1-24	1213P / 1225P	Brewster & Smith	24.0	11.9	2.18	2.62	25.9		.6	7	-.01	FC 35
199	1-25	1249P / 1257P	" "	16.0	3.76	0.90	2.38	3.4		.6	4	0	"
200	1-27	1150A / 1159A	Brewster	18.0	4.40	0.93	2.28	4.1		.6	5	-.01	"
201	1-30	1145A / 1159A	"	24.0	8.24	1.50	2.38	12.4		.6	7	0	"
202	2-21	355P / 405P	"	26.0	13.2	1.81	2.58	23.9		.6	6	+.09	FC 12
203	2-22	140P / 205P	"	102.	131.	4.92	3.84	645.		.6	12	-.12	"
204	2-22	335P / 350P	"	54.0	55.3	3.67	3.16	203.		.6	6	-.03	"
205	2-23	405P / 415P	Haig	17.0	8.70	1.87	2.74	16.3		.6	6	0	FC 33
206	2-24	1040A / 1058A	Waddicor & Blakely	97.0	52.4	3.17	3.26	172.		.6	21	-.02	FC 24
207	2-26	550P / 602P	Brewster	26.0	11.4	1.34	2.70	15.3		.6	7	0	FC 12
208	3-3	314P / 325P	Wallace	29.0	19.4	3.14	2.91	61.0		.6	8	+.05	FC 42
209	3-4	753A / 811A	Waddicor & Mellen	101.	140.	5.93	4.10	830.		.6	12	-.09	FC 28
210	3-5	1257A / 123A	" "	105.	125.	4.16	4.02	520.		.6	11	-.02	FC 33
211	3-6	500P / 515P	Brewster & Smith	46.0	47.8	3.85	3.58	184.		.6	6	0	FC 12

F.C. Dist. Form 52 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

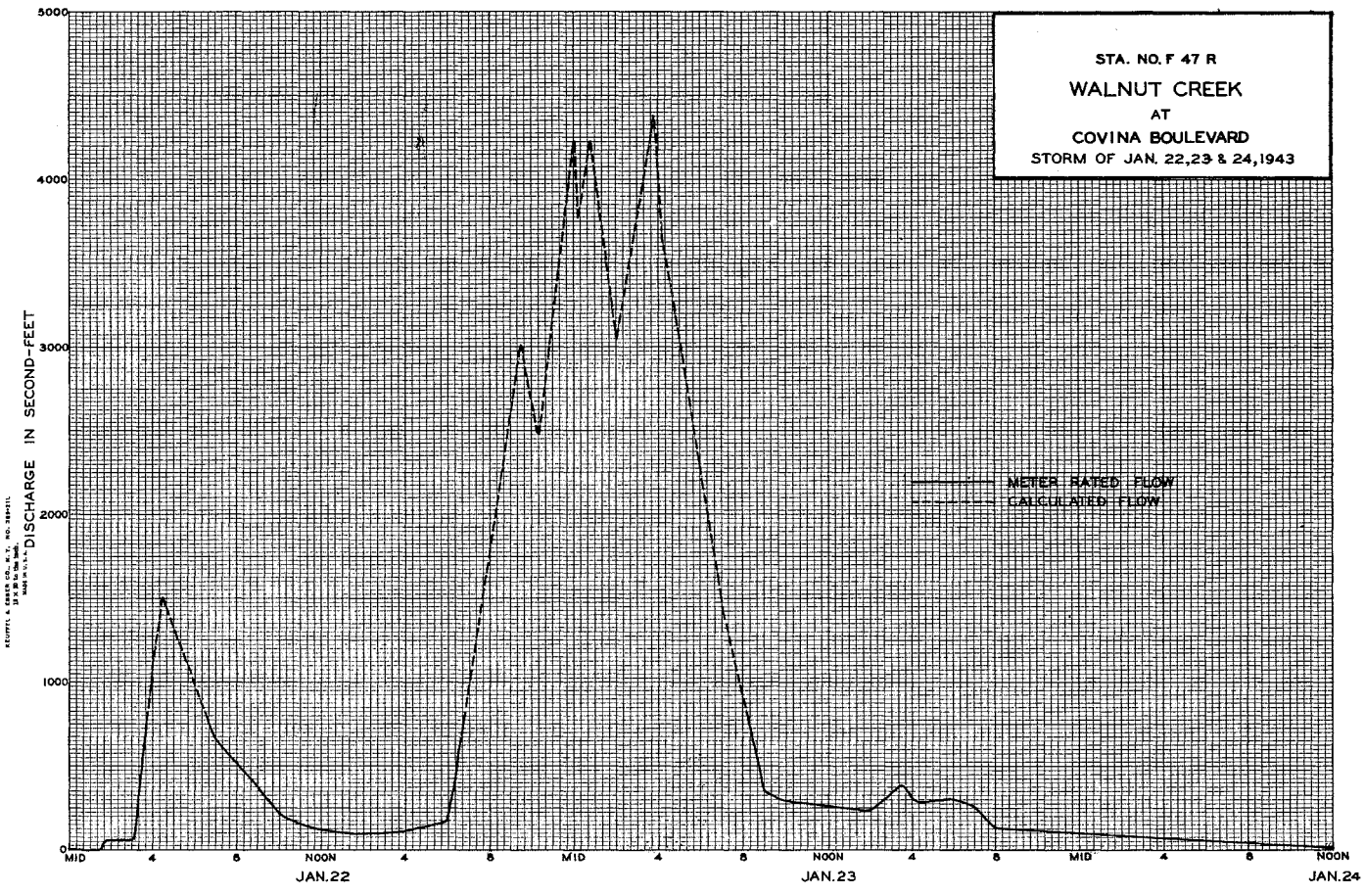
Sta. No. F47R

Daily discharge, in second-feet of WALNUT CREEK At Covina Boulevard, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	13	0	0	0	0	0	0
2	0	0	0	0	0	10	0	0	0	0	0	0
3	0	0	0	0	0	367	0	0	0	0	0	0
4	0	0	0	0	0	1040	0	0	0	0	0	0
5	0	0	0	0	0	f 339	0	0	0	0	0	0
6	0	0	0	0	0	b 184	0	0	0	0	0	0
7	0	0	0	0	0	154	0	0	0	0	0	0
8	0	0	0	0	0	123	30	0	0	0	0	0
9	0	0	0	0	0	136	0	0	0	0	0	0
10	0	0	0	0	0	72	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	5	0	0	0	0	0	0	0
22	0	0	0	823	247	0	0	0	0	0	0	0
23	0	0	0	1190 b	b 113	0	0	0	0	0	0	0
24	0	0	0	b 35	b 78	0	0	0	0	0	0	0
25	0	0	0	3.1 b	b 15	0	0	0	0	0	0	0
26	0	0	0	7	b 15	0	0	0	0	0	0	0
27	0	0	0	8.5	15	0	0	0	0	0	0	0
28	0	0	0	0	14	0	0	0	0	0	0	0
29	0	0	0	1.2		0	0	0	0	0	0	0
30	0	0	0	14		0	0	0	0	0	0	0
31	0		0	b 88		0		0		0	0	
	0	0	0	2169.8	502.	2438.	30	0	0	0	0	0
MEAN	0	0	0	70.0	17.9	78.6	0.10	0	0	0	0	0
ACRE-FEET	0	0	0	4300.	996.	4840.	6.0	0	0	0	0	0

Remarks:

YEAR OR PERIOD — MEAN 14.0 — ACRE-FEET 10140.



STAFF GAGING STATIONS

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F116S

DISCHARGE MEASUREMENTS OF ARROYO DITCH

AT NEAR below Headgate DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
326	10-1	1250P / 100P	Brewster	7.5	14.1	1.52		21.4		.6	4		FC 12
327	10-8	100P / 110P	"	7.5	12.4	1.80		22.3		.6	4		"
328	10-15	1210P / 1220P	"	7.5	12.6	1.68		21.2		.6	4		"
329	10-22	1215P / 1225P	"	7.5	12.8	1.75		22.4		.6	4		"
330	10-29	100P / 110P	"	7.5	10.2	1.50		15.3		.6	4		"
331	11-5	1230P / 1240P	"	7.5	14.4	1.43		20.6		.6	4		"
332	11-12	135P / 145P	"	7.5	15.2	1.47		22.4		.6	4		"
333	11-19	1250P / 100P	"	7.5	11.8	1.57		18.5		.6	4		"
334	11-25	200P / 210P	"	7.5	12.7	1.63		20.7		.6	4		"
335	12-3	143P / 151P	"	7.5	12.0	1.60		19.2		.6	4		"
336	12-10	110P / 120P	"	7.5	14.0	1.49		20.8		.6	4		"
337	12-17	1210P / 1217P	"	7.5	14.4	1.22		17.6		.6	4		"
338	12-23	110P / 120P	"	7.5	13.2	1.35		17.8		.6	4		"
339	12-30	130P / 140P	"	7.5	9.40	1.18		11.1		.6	4		"
340	1-8	200P / 210P	"	7.5	7.00	1.20		8.4		.6	4		"
341	1-15	230P / 240P	"	7.5	6.60	1.27		8.4		.6	4		"
342	2-5	1130A	"					No Flow					
343	2-11	245P	"					"					
344	2-19	300P	"					"					
345	2-26	1235P	"					"					
346	3-12	1120A	"					"					
347	3-19	1210P	"					"					
348	3-26	215P	"					"					
349	4-2	200P	Brewster					No Flow					
350	4-9	135P	"					"					
351	4-16	110P	"					"					
352	4-23	1040A	"					"					
353	4-30	1202P / 1214P	"	7.0	12.0	1.82		21.8		.6	4		FC 12
354	5-7	235P / 245P	"	7.0	12.2	1.62		19.8		.6	4		"
355	5-13	220P / 230P	"	7.0	16.8	1.36		22.9		.6	4		"
356	5-21	120P / 130P	"	7.0	10.5	2.02		21.2		.6	4		"
357	5-28	115P / 125P	"	7.0	12.6	1.81		22.8		.6	4		"
358	6-4	110P / 120P	"	7.0	13.3	1.85		24.6		.6	4		"
359	6-11	130P / 142P	"	7.0	12.6	1.93		24.3		.6	4		"
360	6-18	1140A / 1152A	"	7.0	12.9	1.86		24.0		.6	4		"
361	6-25	1235P / 1245P	"	7.0	12.1	1.76		21.3		.6	4		"
362	7-2	1240P / 1250P	"	7.0	13.3	1.41		18.8		.6	4		"
363	7-9	1240P / 1250P	"	7.0	11.9	1.55		18.5		.6	4		"
364	7-16	120P / 130P	"	7.0	13.3	1.45		19.3		.6	4		"
365	7-23	1240P / 1250P	"	7.0	13.3	1.56		20.7		.6	4		"
366	7-30	100P / 110P	"	7.0	14.7	1.63		23.9		.6	4		"
367	8-6	1230P / 1240P	"	7.0	13.7	1.72		23.6		.6	4		"
368	8-13	115P / 127P	"	7.0	13.3	1.85		24.6		.6	4		"
369	8-20	1250P / 100P	"	7.0	13.7	1.66		22.7		.6	4		"
370	8-27	100P / 105P	Haig	6.8	12.0	1.78		21.3		.6	6		FC 35
371	9-3	1240P / 1250P	"	6.8	12.1	1.95		23.6		.6	7		"
372	9-10	102P / 110P	Brewster	7.0	14.3	1.59		22.8		.6	4		FC 12
373	9-17	1240P / 1252P	"	7.0	13.3	1.65		21.9		.6	4		"
374	9-24	1240P / 1250P	"	7.0	13.3	1.54		20.5		.6	4		"

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F58S

DISCHARGE MEASUREMENTS OF ARROYO SECO

AT NEAR Avenue 26 DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
64	10-8	837A / 842A	Bollinger	3.3	0.38	0.87	0.33	0.33		.6	3		FC 6
65	10-29	1044A / 1048A	"	5.5	0.84	1.31	1.1	1.1		.6	4		"
66	11-12	910A / 915A	"	4.0	0.49	1.45	0.71	0.71		.6	5		"
67	12-10	155P / 200P	"	4.2	0.45	1.49	0.67	0.67		.6	5		"
68	1-15	247P / 253P	"	4.5	0.58	1.39	0.81	0.81		.6	4		"
69	2-8	822A / 833A	"	18.5	8.68	4.93	2.8	2.8		.6	8		"
70	2-11	133P / 140P	"	10.5	2.92	3.36	9.8	9.8		.6	7		"
71	2-19	446P / 452P	"	5.8	1.09	1.19	1.3	1.3		.6	5		"
72	3-14	1050A / 1100A	Luce	54.0	21.3	5.26	112.	112.		.6	9		FC 39
73	3-19	433P / 448P	Bollinger	19.0	9.72	6.11	59.4	59.4		.6	8		FC 6
74	3-26	422P / 428P	"	11.0	3.49	3.04	10.6	10.6		.6	6		"
75	4-2	250P / 256P	"	10.0	3.18	3.02		9.6		.6	6		"
76	4-9	453P / 500P	"	9.0	2.08	2.12		4.4		.6	5		"
77	4-16	337P / 345P	"	7.0	2.24	1.88		4.2		.6	5		"
78	4-22	935A / 945A	"	6.2	1.33	2.03		2.7		.6	5		"
79	4-30	433P / 438P	"	7.0	2.20	1.77		3.9		.6	5		"
80	5-7	145P / 155P	Turner	7.0	1.50	1.33		2.0		.6	6		FC 5
81	6-11	858A / 905A	Bollinger	6.0	1.69	1.24		2.1		.6	6		FC 6
82	9-2	353P / 358P	"	3.7	1.13	0.93		1.1		.6	4		"
83	9-8	412P / 418P	"	5.2	1.07	0.83		0.89		.6	5		"
84	9-23	254P / 302P	"	4.0	1.09	0.78		0.85		.6	4		FC 5
85	9-30	323P / [illegible]	"	3.5	0.92	0.95		0.87		.6	4		FC 6

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F157S

DISCHARGE MEASUREMENTS OF ARROYO SEQUIT

AT NEAR Roosevelt Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
30	2-24	220P / 228P	Moon & Andren	23.0	19.5	3.62	2.70	70.6		.6	10		FC 22
31	3-5	1112A / 1121A	" "	23.5	22.5	3.68	2.83	82.9		.6	9		"
32	3-12	745A / 800A	Andren	16.0	10.1	1.94	2.42	19.6		.6	8		FC 2
33	3-19	358A / 406P	Moon	14.0	7.30	1.45	2.32	10.6		.6	7		FC 22
34	4-2	310P / 316P	"	6.0	2.10	1.19	2.00	2.5		.6	6		"
35	4-16	154P / 158P	"	Two Channels				0.74	Est.	.6	4		"

F. C. D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F078

DISCHARGE MEASUREMENTS OF BANTA DITCH

AT NEAR head of pipe line DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
300	10-1	1218A / 1227A	Brewster	10.0	12.8	1.11		14.2		.6	5		FO 12
301	10-8	1235P / 1245P	"	10.5	15.6	1.18		18.4		.6	6		"
302	10-15	1145A / 1155A	"	11.0	16.9	1.25		21.1		.6	5		"
303	10-22	1140A / 1150A	"	12.0	16.0	1.05		16.8		.6	6		"
304	10-29	1230P / 1240P	"	12.0	16.8	1.20		20.1		.6	6		"
305	11-5	1208P / 1217P	"	11.0	16.5	1.30		21.4		.6	6		"
306	11-12	100P / 110P	"	10.0	15.2	1.18		18.0		.6	5		"
307	11-19	1230P / 1240P	"	11.0	16.1	1.16		18.6		.6	6		"
308	11-25	130P / 140P	"	13.0	16.0	1.23		19.7		.6	6		"
309	12-3	115P / 125P	"	11.0	15.8	1.14		18.0		.6	5		"
310	12-10	1245P / 1257P	"	11.0	16.6	1.24		20.6		.6	6		"
311	12-17	1115A / 1123A	Brewster & Waddigar	11.0	15.9	1.09		17.4		.6	6		"
312	12-23	1240P / 1250P	Brewster	11.0	15.5	1.10		17.1		.6	6		"
313	12-30	102P / 110P	"	6.0	3.55	0.39		1.4		.6	4		"
314	1-8	140P / 147P	"	4.0	2.00	0.22		0.45		.6	4		"
315	1-15	101P / 106P	"	3.0	0.48	0.77		0.37		.6	3		"
316	2-5	1150A	"					No Flow					
317	2-11	230P	"					"					
318	2-19	240P	"					"					
319	2-26	1215P	"					"					
320	3-12	1045A	"					"					
321	3-19	1150A	"					"					
322	3-26	200P	"					"					
323	4-2	145P	Brewster					No Flow					
324	4-9	120P	"					"					
325	4-16	1255P	"					"					
326	4-23	1100A	"					"					
327	4-30	1130A	"					"					
328	6-7	225P	"					"					
329	5-13	210P	"					"					
330	5-21	1250P / 102P	"	11.0	19.4	1.28		24.9		.6	6		FO 12
331	5-28	1250P / 100P	"	9.0	16.5	1.47		24.2		.6	5		"
332	6-4	1245P / 1254P	"	4.5	7.50	3.51		26.3		.6	4		"
333	6-11	100P / 110P	"	4.5	6.45	3.40		21.9		.6	4		"
334	6-18	1110A / 1120A	"	4.5	9.10	2.55		23.2		.6	4		"
335	6-25	1210A / 1220A	"	4.5	5.65	3.33		18.8		.6	4		"
336	7-2	1210P / 1220P	"	4.5	5.90	3.64		21.5		.6	4		"
337	7-9	1215P / 1225P	"	4.5	7.90	3.22		25.4		.6	4		"
338	7-16	1245P / 1255P	"	4.5	6.10	3.97		24.2		.6	4		"
339	7-23	1210P / 1220P	"	4.5	7.00	3.17		22.2		.6	4		"
340	7-30	1235P / 1245P	"	4.5	7.45	3.26		24.3		.6	4		"
341	8-6	1205P / 1215P	"	4.5	8.80	2.86		25.2		.6	4		"
342	8-13	1240P / 1250P	"	4.5	6.10	3.49		21.3		.6	4		"
343	8-20	1225P / 1237P	"	4.5	6.40	3.50		22.4		.6	4		"
344	8-27	1232P / 1240P	Haig	9.5	16.6	1.55		25.7		.6	7		FO 35
345	9-3	1205P / 1216P	"	10.0	19.8	1.32		26.2		.6	8		"
346	9-10	1220P / 1230P	Brewster	4.5	6.25	4.01		25.1		.6	4		FO 12
347	9-17	1220P / 1230P	"	4.5	7.90	3.29		26.0		.6	4		"
348	9-24	1212P / 1223P	"	4.5	6.25	4.06		25.4		.6	4		"

F. C. D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F202-8

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

AT NEAR above Sierra Madre Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
51	2-4	220P / 226P	Brewster	4.0	0.76	1.45		1.1		.6			FO 12
52	2-9	1150A / 1154A	"	2.0	0.24	0.42		0.10		.6			"
53	2-10	1230P / 1234P	"	1.0	0.12	0.42		0.05		.6			"
54	2-18	1155A	"					No Flow					
55	2-24	545P / 600P	"	17.0	8.95	2.91		26.0		.6			"
56	2-25	215P / 225P	"	10.0	4.00	1.75		7.0		.6			"
57	3-1	450P / 500P	"	8.0	2.20	1.19		2.6		.6			"
58	3-3	100P / 110P	"	8.0	2.20	1.38		3.0		.6			"
59	3-11	155P / 205P	"	10.0	4.40	1.28		5.6		.6			"
60	3-15	200P / 208P	"	8.0	3.20	0.79		2.5		.6			"
61	3-18	100P / 106P	"	8.0	2.80	0.56		1.6		.6			"
62	3-22	1205P / 1215P	"	10.0	5.00	1.06		5.3		.6			"
63	3-25	1120A / 1128A	"	6.0	2.00	0.37		0.74		.6			"
64	3-29	1110A / 1116A	"	3.0	0.48	0.23		0.11		.6			"
65	4-1	1110A	"					No Flow					
66	4-5	250P	"					"					
67	4-8	1100A	"					"					
68	4-12	1125A	"					"					
69	4-15	1055A	"					"					
70	4-19	1130A	"					"					
71	4-22	1120A	"					"					
72	4-29	1115A	"					"					
73	5-6	945A	Brewster					No Flow					
74	5-12	1125A	"					"					
75	5-20	1035A	Brewster					No Flow					
76	5-27	1040A	"					"					
77	6-3	1115A	"					"					
78	6-10	955A	"					"					
79	6-17	1210P	"					"					
80	6-24	1030A	"					"					
81	7-1	930A	"					"					

F. C. D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F1438

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK

AT NEAR above Pallette Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
65	10-16	430P / 440P	Luce	6.0	2.89	1.11		3.2		.6	6		FO 39
66	11-27	250P / 300P	"	10.2	4.47	0.76		3.4		.6	6		"
67	12-18	1040P / 1050P	"	10.5	4.39	0.79		3.5		.6	6		"
68	1-16	315P / 325P	"	10.0	4.01	0.82		3.3		.6	6		"
69	2-20	240P / 250P	"	19.0	11.4	3.08		35.2		.6	7		"
70	4-17	125P / 135P	"	29.5	23.2	3.42		79.3		.6	13		"
71	5-15	315P / 330P	"	19.8	17.6	2.86		50.4		.6	10		"
72	6-28	210P / 220P	"	16.8	10.9	2.21		24.1		.6	9		"
73	7-17	1200M / 1215P	"	16.0	11.9	1.55		18.5		.6	9		"
74	8-14	250P / 305P	"	16.0	7.58	1.62		12.3		.6	8		"
75	9-17	1135A / 1150A	"	18.5	6.28	0.99		6.2		.6	10		"

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F1408

DISCHARGE MEASUREMENTS OF CASTIAC CREEK

AT NEAR Elizabeth Lake Canyon Highway DURING THE YEAR ENDING SEPTEMBER 30, 19__

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
9	4-22	545P / 550P	Luce	18.0	6.83	1.49		10.2		.6	8		FC 39
10	5-14	1230P / 1240P	"	8.5	3.43	1.17		4.0		.6	5		"

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F1418

DISCHARGE MEASUREMENTS OF ELIZABETH LAKE CREEK

AT NEAR above Dry Gulch DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
47	1-15	1015A / 1020A	Luce	8.0	2.60	2.27		5.9		.6	7		FC 39
48	4-22	420P / 430P	"	9.5	7.31	2.56	3.88	18.7		.6	7		"
49	5-14		"	10.0	5.22	2.41	2.70	12.6		.6	6		"
50	5-20	350P / 400P	Turner	9.3	4.28	1.89	3.00	8.1		.6	8		FC 5
51	6-25	1205P / 1210P	Luce	7.0	3.50	1.26		4.2		.6	7		FC 39
52	9-11	215P / 220P	"	1.5	0.19	0.42		0.08		.6	3		"

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F2758

DISCHARGE MEASUREMENTS OF LAS FLORES CREEK

AT NEAR Roosevelt Highway DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
5	12-30	140P / 141P	Moon	1.0	0.04	1.25		0.05		.6	2		FC 22
6	1-21	910P	Moon & Andren	21.0	35.6	10.0	5.3	356.	Surf. Float		2		
7	1-21	1030P	" "	22.0	48.7	8.80	5.9	428.	"		3		
8	1-23	230A	" "	28.0	76.4	10.6	7.0	810.	"		3		
9	1-24	226P / 235P	Moon	8.0	2.49	1.29		3.2		.6	8		FC 22
10	1-27	400P / 406P	"	8.0	2.49	1.45	4.8	3.6		.6	6		"
11	1-29	340P / 345P	"	5.5	1.25	0.58	5.05	0.72		.6	5		"
12	2-5	1230P / 123AP	"	4.5	0.69	1.13	3.85	0.78		.6	4		"
13	2-11	410P / 415P	"	3.0	0.59	0.56	3.70	0.33		.6	5		"
14	2-19	315P / 320P	"	3.0	0.51	0.53		0.27		.6	4		"
15	2-22	1024A / 1028A	Moon & Andren	10.0	3.21	2.93		9.4		.6	6		"
16	2-24	358P / 403P	" "	10.0	3.10	3.84		11.9		.6	6		"
17	3-3	612P / 622P	" "	20.7	13.3	8.87		118.		.6	5		"
18	3-5	1225P / 1231P	" "	10.0	2.59	3.55		9.2		.6	6		"
19	3-12	955A / 1000A	Andren	4.0	0.91	1.10		1.0		.6	4		FC 2
20	3-26	335P / 339P	Moon	4.0	0.60	1.01	2.20	0.61		.6	4		FC 22
21	4-2	428P / 429P	"	2.0	0.40	1.05	2.25	0.42		.6	2		"
22	4-9	310P / 315P	"	3.0	0.40	0.73	2.55	0.29		.6	4		"
23	4-16	302P / 304P	"	1.8	0.18	0.89	2.50	0.16		.6	2		"

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F30-S

DISCHARGE MEASUREMENTS OF LITTLE DALTON CREEK

AT NEAR Lorraine Avenue DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
38	2-24	610P / 620P	Brewster	5.0	1.90	2.05	0.33	3.9		.6	5	0	FC 12
39	2-25	244P / 250P	"	4.0	1.00	1.13	0.30	1.1		.6	4	0	"
40	3-8	505P / 515P	"	9.0	4.45	1.96	0.48	8.7		.6	5	0	"
41	3-11	1035A / 1043A	"	7.0	2.33	1.24	0.30	2.9		.6	4	0	"
42	3-15	1150A / 1156A	Brewster	3.0	0.46	0.41	0.24	0.19		.6	3	0	FC 12
43	3-18	140P / 146P	"	3.0	0.44	0.41		0.18		.6	3	0	"
44	3-22	1240P / 1245P	"	3.0	0.46	0.22		0.10		.6	3	0	"
45	3-25	1145A	"					No Flow					
46	3-29	1100A	"					"					
47	4-1	1130A						"					
48	4-5	150P						"					
49	4-6	130P / 138P		6.0	2.40	1.29	0.30	3.1		.6	4	0	"
50	4-12	1145P						No Flow					
51	4-15	1110A						"					
52	4-19	1145A						"					
53	4-22	1140A						"					
54	4-29	1130A						"					
55	5-6	835A						"					
56	5-12	1030A						"					
57	5-20	930A						"					
58	5-27	930A						"					
59	6-3	930A						"					
60	6-10	945A						"					

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F1008

DISCHARGE MEASUREMENTS OF MAIN SPREADING CANAL

AT NEAR mouth of San Gabriel Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
104	1-27	110P / 120P	Haig	13.5	19.7	2.41	2.13	47.5		.6	10	0	FC 33
105	2-17	305P / 315P	"	13.8	21.0	3.64	2.58	76.4		.6	9	0	"
106	3-30	300P / 312P	"	14.5	26.3	2.44	2.42	64.2		.6	9	0	FC 35
107	7-21	925A / 940A	Brewster	10.0	5.71	0.70	1.03	4.0		.6	7	0	FC 12

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F112S

DISCHARGE MEASUREMENTS OF MILL CREEK above BIG TUJUNGA CREEK

AT NEAR Highway Bridge DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
46	10-1	1120A / 1125A	Turner	3.2	0.55	0.51	0.84	0.28		.6	6	0	FC 5
47	10-8	1000A / 1005A	"	3.2	0.57	0.49	0.84	0.28		.6	6	0	"
48	10-15	1005A / 1010A	"	3.3	0.67	0.58	0.88	0.39		.6	6	0	"
49	10-22	120P / 125P	"	3.3	0.61	0.41	0.84	0.25		.6	6	0	"
50	10-29	1055A / 1100A	"	3.5	0.77	0.66	0.94	0.51		.6	4	0	"
51	11-5	955A / 1005A	"	3.4	0.82	0.67	0.90	0.55		.6	7	0	"
52	11-12	940A / 950A	"	3.4	0.76	0.59	0.90	0.45		.6	7	0	"
53	11-19	950A / 1000A	"	3.5	0.88	0.69	0.94	0.61		.6	7	0	"
54	11-25	910A / 920A	"	3.5	0.79	0.61	0.90	0.48		.6	7	0	"
55	12-3	140P / 145P	"	3.5	0.80	0.60	0.90	0.48		.6	7	0	"
56	12-10	955A / 1005A	"	3.5	0.84	0.80	0.96	0.67		.6	7	0	"
57	12-17	905A / 915A	"	3.5	0.79	0.78	0.94	0.61		.6	7	0	"
58	12-23	950A / 1000A	"	3.5	0.77	0.74	0.93	0.57		.6	7	0	"
59	12-30	1155A / 1200M	Turner & Robertson	3.5	0.87	0.83	0.96	0.72		.6	7	0	"

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F1128

DISCHARGE MEASUREMENTS OF MILL CREEK above BIG TUJUNGA CREEK

AT NEAR Highway Bridge DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
60	1-8	920A / 930A	Turner	3.5	0.80	0.72	0.94	0.58		.6	7	0	FC 5
61	1-15	150P / 200P	"	3.5	0.76	0.80	0.94	0.61		.6	7	0	"
62	1-29	930A / 945A	"	17.0	3.93	4.05		15.9		.6	9		FC 23
63	2-25	310P / 320P	"	16.0	7.28	5.34		38.9		.6	8		FC 5
64	3-8	845A / 900A	"	22.0	12.0	6.07		72.8		.6	12		"
65	3-12	325P / 340P	"	21.0	7.54	4.76		35.9		.6	10		"
66	3-18	320P / 330P	"	17.0	9.33	2.77		25.8		.6	8		"
67	3-25	205P / 215P	"	15.0	8.22	2.42		19.9		.6	7		"
68	4-8	155P / 205P	"	14.5	7.62	2.58		19.7		.6	8		"
69	4-16	1115A / 1125A	Turner	13.5	6.89	2.26		15.6		.6	7		FC 5
70	4-23	1145A / 1155A	Blakely & Turner	13.0	5.62	2.14		12.0		.6	8		"
71	4-30	100P / 110P	Turner	12.7	5.22	1.78		9.3		.6	8		"
72	5-8	1112A / 1122A	Blakely	12.5	4.83	1.68		8.1		.6	8		FC 44
73	5-15	847A / 856A	"	12.0	4.82	1.60		7.7		.6	7		"
74	5-22	320P / 330P	Turner	10.0	3.68	1.68		6.2		.6	5		FC 5
75	5-29	330P / 340P	"	10.0	3.44	1.54		5.3		.6	5		"
76	6-4	855A / 905A	Blakely	11.0	3.81	1.42		5.4		.6	7		FC 44
77	6-26	1010A / 1015A	"	10.5	3.10	1.10		3.4		.6	7		"
78	7-9	855A / 905A	"	7.3	2.66	1.43		3.8		.6	8		"
79	7-23	1220P / 1230P	"	7.0	2.19	1.10		2.4		.6	8		"
80	7-30	1103A / 1113A	"	8.0	2.33	0.94		2.2		.6	6		"
81	8-6	240P / 245P	"	9.5	2.04	0.88		1.8		.6	7		"
82	8-20	851A / 900A	"	9.5	2.30	0.91		2.1		.6	8		"
83	9-3	155P / 200P	"	8.6	1.68	0.58		0.97		.6	5		"
84	9-10	155P / 200P	"	2.7	0.95	1.16		1.1		.6	4		"
85	9-17	100P / 110P	"	3.0	0.75	1.47		1.1		.6	2		"
86	9-24	1012A / 1018A	"	3.0	0.98	1.53		1.5		.6	5		"

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F121-S

DISCHARGE MEASUREMENTS OF PALLETTE CREEK

AT NEAR above Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
52	10-6	415P / 420P	Luce	4.5	0.72	1.18		0.85		.6	5		FC 39
53	11-27	145P / 150P	"	3.3	0.62	1.81		1.12		.6	5		"
54	12-18	1135A / 1140A	"	3.0	0.64	1.31		0.84		.6	5		"
55	1-16	230P / 237P	"	3.5	0.67	1.42		0.95		.6	5		"
56	2-20	215P / 220P	"	4.0	0.80	1.81		1.4		.6	4		"
57	5-15	210P / 215P	"	6.8	2.97	1.89		5.6		.6	7		"
58	7-17	1240P / 1245P	"	5.5	2.08	1.88		3.9		.6	5		"
59	8-14	325P / 330P	"	4.5	1.33	1.57		2.1		.6	4		"
60	9-18	1230P / 1240P	"	4.0	0.73	0.62		0.45		.6	5		"

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F122-S

DISCHARGE MEASUREMENTS OF PALLETTE CREEK

AT NEAR Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
60	10-6	500P / 505P	Luce	3.5	0.51	0.94		0.48		.6	5		FC 39
61	11-27	315P / 320P	"	2.8	0.45	1.09		0.49		.6	4		"
62	12-18	1105P / 1110P	"	3.0	0.69	1.45		1.0		.6	3		"
63	1-16	250P / 255P	"	3.2	0.49	0.67		0.33		.6	4		"
64	2-20	230P / 235P	"	3.7	0.78	1.15		0.90		.6	4		"
65	3-6	600P / 604P	Luce & Blakely	29.0	10.5	4.98		52.3		.6	7		"
66	4-17	205P / 210P	Luce	6.0	2.64	0.57		1.5		.6	3		"
67	5-15	240P / 250P	"	7.0	2.48	1.57		3.9		.6	7		"
68	6-28	230P / 235P	"	6.2	1.95	1.44		2.8		.6	5		"
69	7-17	1125A / 1130A	"	6.0	2.03	0.94		1.9		.6	6		"
70	8-14	225P / 230P	"	7.0	2.42	0.58		1.4		.6	7		"
71	9-18	130P / 135P	"	7.0	2.10	0.52		1.1		.6	7		"

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F197-S

DISCHARGE MEASUREMENTS OF PACOIMA WASH

AT NEAR Arleta Street, above Spreading Grounds DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
34	1-28	845A / 855A	Luce	30.0	26.4	2.89		76.0		.6	10		FC 39
35	1-29	230P / 240P	"	30.0	25.8	2.60		67.3		.6	14		"
36	1-31	1200N / 1215P	"	31.0	28.4	2.59		73.4		.6	13		"
37	2-5	200P / 215P	Koch	22.5	22.2	2.89		64.0		.6	9		FC 43
38	2-5	430P / 440P	Luce	30.5	25.5	2.54		64.9		.6	10		FC 39
39	2-8	1205P / 1215P	"	30.5	27.6	2.55		72.9		.6	11		FC 41
40	2-23	447P / 448P	"	30.5	28.9	2.90		83.8		.6	12		FC 39
41	2-24	1213P / 1224P	"	31.0	34.1	3.43		117.		.6	12		FC 41
42	2-26	1000A / 1015A	"	31.0	32.3	2.52		81.5		.6	11		FC 39
43	12-27	420P / 435P	"	26.5	15.4	3.17		48.8		.6	12		"

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F280-S

DISCHARGE MEASUREMENTS OF RIO HONDO DIVERSION

AT NEAR Below Santa Fe Dam DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
22	May 6	140P / 205P	Koch	23.0	19.8	1.48	2.07	29.4		.6	13	0	FC 43
23	6	400P / 415P	Koch-Jordan	24.0	28.5	1.96	2.41	56.0		.6	13	0	"
24	6	532P / 545P	" "	23.8	27.5	1.90	2.43	52.2		.6	13	0	"
25	7	820A / 840A	Jordan	23.7	25.7	1.81	2.38	46.6		.6	13	0	FC 21
26	10	850A / 905A	"	20.5	8.3	0.62	1.64	5.1		.6	10	0	"
27	11		U.S.G.S.					1.3		.6	6		
28	June 3	1002A / 1020A	Moon	24.5	31.6	2.01	2.56	64.0		.6	13	0	FC 22
29	4	1000A / 1020A	Jordan	25.5	32.4	2.16	2.57	70.0		.6	13	0	FC 21
30	17	910A / 923A	Moon	21.0	12.1	0.91	1.75	11.0		.6	11	0	FC 22

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F938

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT NEAR above Lang R. R. Station DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
25	10-22	1140A / 1145A	Luce	3.0	1.03	0.84		0.87		.6	4		FC 39
26	1-15	1130A / 1145A	"	19.5	1.29	3.03		39.1		.6	10		"
27	4-22	325P / 340P	"	20.0	7.23	3.39		24.5		.6	10		"
28	5-14	1030A / 1040A	"	13.0	5.50	3.51		19.3		.6	7		"
29	6-24	125P / 135P	"	9.0	3.49	3.04		10.6		.6	7		"
30	7-29	300P / 310P	Turner	8.0	2.81	1.57		4.4		.6	8		FC 5
31	9-10	1030A / 1035A	Luce	6.0	0.88	0.82		.72		.6	5		FC 39

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F137B-S

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT NEAR 8 miles west of Castiac Junction DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
26	10-22	130P / 140P	Luce	14.5	7.27	1.87		13.6		.6	8		FC 39
27	7-29	200P / 215P	Turner	17.5	7.80	1.42		11.1		.6	9		FC 5
28	9-10	110P / 125P	Luce	17.5	7.66	1.38		10.6		.6	9		FC 39

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F247B-S

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT NEAR Arrow Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	1-28	345P / 430P	Haig & Randolph	Two Channels			7.00	782.		.6	31		FC 33
2	1-30	130P / 148P	Haig	119.0	128.	1.80	6.26	231.		.6	16		"
3	2-11	408P / 420P	Haig	22.0	29.0	0.73		21.1		.6	10		"

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F272-S

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK

AT NEAR above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
108	10-1	240P / 242P	Moon	2.0	0.39	0.92		0.36		.6	2		FC 22
109	10-8	315P / 318P	"	1.8	0.40	0.78		0.31		.6	2		"
110	10-15	315P / 318P	"	2.0	0.49	0.73		0.36		.6	2		"
111	10-22	1056A / 1058A	"	2.0	0.52	0.63		0.33		.6	2		"
112	10-29	340P / 342P	"	2.0	0.40	1.35		0.54		.6	2		"
113	11-5	315P / 320P	"	3.4	0.62	0.71		0.44		.6	4		"
114	11-12	430P / 435P	"	3.3	0.60	0.75		0.45		.6	4		"
115	11-19	307P / 310P	"	2.0	0.52	1.21		0.63		.6	2		"
116	11-25	315P / 317P	"	2.4	0.16	2.25		0.36		.6	2		"
117	12-3	417P / 419P	"	2.3	0.12	2.83		0.34		.6	2		"
118	12-11	135P / 137P	"	2.8	0.12	2.83		0.34		.6	2		"
119	12-17	258P / 300P	"	3.0	0.12	2.83		0.34		.6	2		"
120	12-23	310P / 313P	"	3.6	0.14	2.43		0.34		.6	2		"
121	12-30	340P / 343P	"	3.0	0.16	2.25		0.36		.6	2		"
122	1-8	350P / 352P	"	2.8	0.12	2.50		0.30		.6	2		"
123	1-15	335P / 336P	"	3.0	0.12	2.00		0.24		.6	2		"
124	1-26	1246P / 1250P	Moon & Andren	6.5	0.58	6.03		3.5		.6	6		"
125	1-29	435P / 440P	Moon	5.0	0.40	5.50		2.2		.6	4		"
126	2-5	320P / 327P	Moon & Fuller	6.1	0.92	4.35		4.0		.6	6		"
127	2-11	455P / 500P	Moon	Two Channels				1.3		.6	5		"
128	2-19	355P / 403P	"	"	"			1.0		.6	7		"
129	2-22	1144A / 1150A	Moon & Andren	11.0	2.05	8.44		17.3		.6	5		FC 22
130	2-24	437P / 442P	" "	7.5	1.90	2.74		5.2		.6	5		"
131	2-26	433P / 443P	Moon	8.0	1.00	6.90		6.9		.6	7		"
132	3-5	155P / 202P	Moon & Andren	16.0	4.00	10.1		40.3		.6	7		"
133	3-12	1207P / 1214P	Andren	6.0	2.12	5.61		11.9		.6	4		FC 2
134	3-19	602P / 610P	Moon	6.0	1.83	2.68		4.9		.6	6		FC 22
135	3-26	421P / 427P	"	7.0	1.44	1.94		2.8		.6	6		"
136	4-2	525P / 531P	"	6.0	1.30	2.38		3.1		.6	6		"
137	4-9	412P / 420P	"	7.0	1.36	1.76		2.4		.6	7		"
138	4-16	430P / 435P	"	4.0	1.20	2.42		2.9		.6	4		"
139	4-23	335P / 341P	Moon & Bollinger	Two Channels				3.3		.6	8		"
140	4-30	324P / 329P	Moon	4.0	1.34	2.54		3.4		.6	5		"
141	5-7	406P / 412P	Bollinger	5.0	1.65	2.18		3.6		.6	5		FC 6
142	5-15	453P / 500P	"	4.8	1.18	2.54		3.0		.6	6		"
143	5-28	606P / 612P	"	4.0	1.00	3.00		3.0		.6	6		"
144	6-3	445P / 450P	"	4.0	0.90	3.00		2.7		.6	5		"
145	6-10	213P / 222P	"	5.5	0.84	4.52		3.8		.6	7		"
146	6-17	510P / 515P	"	6.0	0.94	3.62		3.4		.6	5		"
147	6-25	400P / 405P	"	7.0	0.77	5.32		4.1		.6	6		"
148	7-2	415P / 424P	"	6.0	0.57	5.27		3.0		.6	6		"
149	7-9	255P / 304P	"	5.6	1.50	1.93		2.9		.6	6		"
150	7-16	443P / 442P	"	5.2	1.18	1.78		2.1		.6	7		"
151	7-22	200P / 206P	Bonadiman	6.0	1.45	1.52		2.2		.6	3		FC 19
152	7-29	121P / 125P	Bonadiman	6.0	1.72	1.39		2.4		.6	4		FC 19
153	8-6	426P / 434P	Bollinger	5.4	1.37	1.53		2.1		.6	7		FC 6
154	8-13	217P / 224P	"	3.2	0.93	1.94		1.8		.6	5		"
155	8-20	217P / 222P	"	3.3	1.07	1.59		1.7		.6	6		"
156	8-27	1118P / 1123P	"	3.2	0.92	1.41		1.3		.6	5		"
157	9-1	1209P / 1215P	"	3.3	0.94	1.49		1.4		.6	5		"
158	9-3	1106A / 1111A	"	5.0	1.05	1.37		1.4		.6	6		"
159	9-10	1213P / 1219P	"	3.4	0.99	1.31		1.3		.6	6		"
160	9-17	140P / 147P	"	5.2	1.02	0.98		1.0		.6	7		"
161	9-24	122P / 128P	"	5.4	1.32	0.98		1.3		.6	7		FC 5

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F55-S

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK

AT NEAR below Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
171	10-1	230P / 235P	Moon	3.5	0.61	0.85		0.52		.6	5		FC 22
172	10-8	303P / 308P	"	4.0	0.57	0.70		0.40		.6	4		"
173	10-15	306P / 311P	"	4.0	0.56	1.02		0.58		.6	4		"
174	10-22	1045A / 1049A	"	4.0	0.54	0.91		0.49		.6	4		"
175	10-29	330P / 335P	"	4.0	0.60	1.22		0.73		.6	4		"
176	11-5	305P / 310P	"	3.6	0.63	1.02		0.64		.6	4		"
177	11-12	420P / 425P	"	4.0	0.57	1.16		0.66		.6	4		"
178	12-3	425P / 427P	"	3.5	0.18	2.67		0.48		.6	2		"
179	12-11	128P / 130P	"	4.0	0.20	2.60		0.52		.6	2		"
180	12-17	245P / 247P	"	3.5	0.28	1.86		0.52		.6	2		"
181	12-23	300P / 303P	"	4.0	0.20	2.70		0.54		.6	2		"
182	12-30	330P / 333P	"	4.0	0.20	2.70		0.54		.6	2		"
183	1-8	345P / 347P	"	4.0	0.16	2.88		0.46		.6	2		"
184	1-15	330P / 331P	"	4.0	0.16	2.50		0.40		.6	2		"
185	1-26	1234P / 1244P	Moon & Andren	16.0	5.05	3.13		15.8		.6	8		"

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F55-B

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK

AT NEAR below Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
186	2-11	440P / 450P	Moon	Two Channels				5.7		.6	10		FC22
187	2-19	408P / 420P	"	" "				3.2		.6	8		"
188	2-22	1127A / 1137A	Moon & Andren	Three Channels				21.7		.6	13		"
189	2-24	430P / 435P	" "	12.0	7.29	4.69		34.2		.6	7		"
190	2-26	415P / 428P	Moon	Two Channels				17.3		.6	11		"
191	3-5	148P / 153P	Moon & Andren	14.0	10.3	6.83		70.4		.6	6		"
192	3-12	1148A / 1203P	Andren	Two Channels				24.9		.6	10		FC 2
193	3-19	550P / 558P	Moon	9.5	3.39	3.04		10.3		.6	6		FC 22
194	3-26	410P / 417P	"	10..	3.30	2.42		8.0		.6	7		"
195	4-2	515P / 522P	"	9.5	2.99	2.23		6.6		.6	7		"
196	4-9	402P / 410P	"	9.0	2.41	2.22		5.4		.6	8		"
197	4-16	418P / 425P	"	6.5	2.14	2.57		5.5		.6	6		"
198	4-23	326P / 331P	Moon & Bollinger	7.0	2.22	2.43		5.4		.6	6		"
199	4-30	313P / 320P	Moon	6.5	2.17	2.49		5.4		.6	7		"
200	5-7	357P / 402P	Bollinger	4.5	2.34	2.69		6.3		.6	5		FC 6
201	5-15	443P / 450P	"	4.0	1.93	2.33		4.5		.6	5		"
202	5-19	425P / 431P	Moon	5.5	1.70	2.59		4.4		.6	6		FC 22
203	5-28	558P / 604P	Bollinger	4.0	1.76	2.27		4.0		.6	6		FC 6
204	6-3	435P / 443P	"	3.8	1.69	2.60		4.4		.6	6		"
205	6-10	200P / 208P	"	3.9	1.85	2.49		4.6		.6	6		"
206	6-17	456P / 505P	"	4.0	1.95	1.95		3.8		.6	7		"
207	6-25	347P / 354P	"	4.2	1.95	2.46		4.8		.6	6		"
208	7-2	430P / 437P	"	5.5	1.80	2.06		3.7		.6	7		"
209	7-9	233P / 240P	"	7.0	0.73	4.66		3.4		.6	5		"
210	7-16	443P / 450P	"	5.0	1.61	1.99		3.2		.6	6		"
211	7-22	141P / 148P	Bonadiman	7.0	1.76	1.59		2.8		.6	4		FC 19
212	7-29	130P	"	6.0	1.35	1.78		2.4		.6	3		"
213	8-6	437P / 445P	Bollinger	4.8	1.42	1.48		2.1		.6	7		FC 6
214	8-13	226P / 235P	"	5.7	1.37	1.46		2.0		.6	7		"
215	8-20	226P / 233P	"	5.0	1.45	1.38		2.0		.6	9		"
216	8-27	1127A / 1136A	Bollinger	5.2	1.41	1.35		1.9		.6	9		FC 6
217	9-1	1220P / 1227P	"	5.0	1.37	1.31		1.8		.6	8		"
218	9-3	1115A / 1123A	"	5.3	1.68	1.61		2.7		.6	9		"
219	9-10	1223P / 1233P	"	5.2	1.37	1.31		1.8		.6	10		"
220	9-17	150P / 200P	"	5.4	1.49	1.14		1.7		.6	10		"
221	9-24	132P / 142P	"	5.3	1.72	0.93		1.6		.6	9		FC 5

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F125-B

DISCHARGE MEASUREMENTS OF SANTIAGO CREEK

AT above Little Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
33	10-16	1130P	Luce					No Flow					
34	11-27	1030A	"					"					
35	12-18	150P	"					"					
36	1-24	220P / 224P	Luce & Pardieck	14.5	4.12	4.32		17.8		.6	6		FC A1
37	2-20	1115A / 1120A	Luce	4.5	1.03	1.15		1.2		.6	5		FC 39
38	3-18	550P / 553P	Luce & Pardieck	10.5	4.19	1.17		4.9		.6	6		"
39	4-17	1120A / 1125A	Luce	8.5	2.43	0.74		1.8		.6	5		"

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F258-B

DISCHARGE MEASUREMENTS OF TRANCAS CREEK

AT Roosevelt Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
3	2-24	245P / 256P	Moon & Andren	24.0	18.4	2.63		48.4		.6	10		FC 22
4	3-5	1142A / 1152A	" "	26.0	25.3	2.66		67.4		.6	10		"
5	3-12	828A / 846A	Andren	15.0	11.8	1.01		11.9		.6	8		FC 2
6	3-19	430P / 437P	Moon	10.0	5.60	1.02		5.7		.6	6		FC 22
7	4-12	340P / 346P	"	6.0	1.55	0.65		1.0		.6	6		"
8	4-16	218P / 223P	"	3.0	0.60	0.52		0.31		.6	4		"

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:

$$X = A + B - (D + E + F) + I + J + K + (L - M) + O + P - R$$ in which, in general,

X = the rising water at Whittier Narrows, in second-feet.

A = the measured discharge at Station F64R, Rio Hondo 1000 feet above Mission Bridge.

B = the measured discharge at Station F83R, Rio Hondo Slough at San Gabriel Boulevard.

D = the measured discharge of the Rio Hondo above Rising Water.

E = the measured discharge at Station F66S, Tri-City Outfall Sewer above junction with Rio Hondo.

F = the measured discharge of the El Monte Sewer.

I = the measured discharge of Temple Ditch.

J = the measured discharge of Rincon Ditch.

K = the measured discharge of Durfee Ditch.

L = the measured discharge at Station F84S, Gate Ditch below sluice gate.

M = the measured, or estimated, discharge from the Gate Ditch Well.

O = the measured discharge at Station F85S, Standifer Ditch below headgate.

P = the measured discharge at Station F86S, San Gabriel River below Standifer Ditch.

R = the measured discharge of San Gabriel River above Rising Water.

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. (See Page 204.)

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "E"

DISCHARGE MEASUREMENTS OF TRI - CITY OUTFALL SEWER

~~STATE~~ NEAR above RIO HONDO DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METH OD	MEAN SEC. NO.	O. HT. CHANGE TOTAL	METER NO.
226	Oct. 1	824A	833A	Brewster	11.0	4.74	1.27		6.0		.6	5		FC.12
227	8	817A	826A	"	9.0	4.56	1.43		6.5		.6	5		"
228	15	828A	839A	"	9.0	5.40	1.39		7.5		.6	5		"
229	22	805A	815A	"	8.0	6.00	1.05		6.3		.6	4		"
230	29	819A	830A	"	11.0	6.33	1.25		7.9		.6	5		"
231	Nov. 5	824A	836A	"	13.0	4.62	1.41		6.5		.6	7		"
232	12	816A	827A	"	10.0	5.20	1.35		7.0		.6	5		"
233	19	835A	845A	"	14.0	8.80	1.57		13.8		.6	7		"
234	25	830A	840A	"	12.0	5.88	1.38		8.1		.6	6		"
235	Dec. 3	822A	831A	"	10.0	6.68	1.32		8.8		.6	5		"
236	10	836A	845A	"	9.0	5.90	1.53		9.0		.6	5		"
237	17	832A	840A	Brewster & Waddicor	10.0	6.04	1.36		8.2		.6	5		"
238	23	821A	832A	Brewster	11.0	6.74	1.32		8.9		.6	5		"
239	30	820A	830A	"	11.0	7.66	1.27		9.7		.6	6		"
240	Jan. 8	832A	843A	"	10.0	6.72	1.15		7.7		.6	5		"
241	15	831A	842A	"	10.0	6.20	1.22		7.6		.6	5		"
242	Feb. 5	815A	825A	"	11.0	7.50	1.54		11.6		.6	6		"
243	11	820A	830A	"	12.0	6.60	1.82		12.0		.6	6		"
244	19	835A	845A	"	11.0	7.75	1.54		11.9		.6	6		"
245	Mar. 26	815A	825A	"	12.0	6.80	1.69		11.5		.6	6		"
246	Apr. 2	830A	842A	"	13.0	8.68	1.66		14.4		.6	7		"
247	9	835A	845A	"	13.0	8.55	1.85		15.8		.6	7		"
248	16	840A	850A	"	13.0	7.20	1.65		11.9		.6	6		"
249	23	845A	855A	"	12.0	7.20	1.56		11.2		.6	6		"
250	Apr. 30	834A	846A	Brewster	11.0	7.15	1.50		10.7		.6	6		FC.12
251	May 7	840A	852A	"	11.0	7.20	1.57		11.3		.6	6		"
252	13	835A	846A	"	10.0	7.30	1.56		11.4		.6	6		"
253	21	830A	843A	"	15.0	8.15	1.41		11.5		.6	7		"
254	28	836A	847A	"	12.0	7.00	1.51		10.6		.6	6		"
255	June 4	812A	824A	"	13.0	6.90	1.59		11.0		.6	6		"
256	11	750A	802A	"	11.0	5.18	1.62		8.4		.6	6		"
257	18	650A	702A	"	12.0	4.68	1.50		7.0		.6	6		"
258	25	730A	742A	"	11.0	4.05	1.38		5.6		.6	6		"
259	July 2	803A	815A	"	9.0	5.15	1.51		7.8		.6	5		"
260	9	800A	812A	"	11.0	6.17	1.49		9.2		.6	6		"
261	16	810A	820A	"	12.0	5.60	1.46		8.2		.6	6		"
262	23	744A	755A	"	11.0	4.97	1.61		8.0		.6	5		"
263	30	754A	806A	"	11.0	6.15	1.41		8.7		.6	5		"
264	Aug. 6	743A	755A	"	11.0	6.40	1.12		7.2		.6	5		"
265	13	809A	818A	"	8.0	6.15	1.37		8.4		.6	5		"
266	20	743A	755A	"	11.0	6.68	1.24		8.3		.6	6		"
267	27	755A	805A	Haig	10.0	6.27	1.47		9.2		.6	10		FC.35
268	Sept. 3	800A	810A	"	9.0	5.77	1.69		9.7		.6	8		"
269	10	755A	807A	Brewster	9.0	6.00	1.37		8.2		.6	5		FC.12
270	17	802A	814A	"	9.0	6.05	1.57		9.5		.6	5		"
271	24	749A	758A	"	9.0	5.25	1.45		7.6		.6	4		"

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "F"

DISCHARGE MEASUREMENTS OF EL MONTE SEWER

~~AT~~ NEAR Junction with Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN	END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METH OD	MEAN SEC. NO.	O. HT. CHANGE TOTAL	METER NO.
183	Oct. 1	842A	848A	Brewster	3.0	0.64	0.73		0.47		.6	3		FC.12
184	8	855A	902A	"	4.0	0.98	0.76		0.74		.6	4		"
185	15	805A	811A	"	4.0	0.76	0.82		0.62		.6	4		"
186	22	828A	835A	"	3.0	0.72	0.62		0.45		.6	3		"
187	29	845A	852A	"	3.0	0.74	0.72		0.53		.6	3		"
188	Nov. 5	850A	858A	"	4.0	1.08	0.69		0.75		.6	4		"
189	12	835A	843A	"	3.0	0.82	0.78		0.64		.6	3		"
190	19	817A	825A	"	4.0	1.06	0.69		0.73		.6	4		"
191	25	900A	906A	"	3.0	0.70	0.80		0.56		.6	3		"
192	Dec. 3	855A	902A	"	4.0	0.94	0.54		0.51		.6	4		"
193	10	853A	859A	"	3.0	0.76	0.79		0.60		.6	3		"
194	17	845A	850A	"	4.0	1.08	0.61		0.66		.6	4		"
195	23	843A	849A	"	3.0	0.78	0.81		0.63		.6	3		"
196	30	840A	847A	"	4.0	0.72	0.83		0.60		.6	4		"
197	Jan. 8	856A	902A	"	3.0	0.60	1.13		0.68		.6	3		"
198	15	814A	820A	"	3.0	0.66	0.74		0.49		.6	3		"
199	Feb. 5	835A	841A	"	3.0	1.40	0.49		0.69		.6	3		"
200	11	850A	856A	"	3.0	1.56	0.56		0.87		.6	3		"
201	19	816A	822A	"	4.0	0.98	0.84		0.82		.6	4		"
202	Mar. 26	835A	842A	"	3.0	0.70	0.81		0.57		.6	3		"
203	Apr. 2	912A	918A	"	3.0	0.82	0.77		0.63		.6	3		"
204	9	814A	820A	"	4.0	0.98	0.78		0.76		.6	4		"
205	16	824A	830A	"	3.0	0.72	0.83		0.60		.6	3		"
206	23	820A	830A	"	4.0	0.92	1.30		1.2		.6	3		"
207	Apr. 30	815A	822A	Brewster	4.0	1.06	1.13		1.2		.6	4		FC.12
208	May 7	800A	808A	"	3.0	0.76	1.03		0.78		.6	3		"
209	13	817A	824A	"	4.0	0.80	1.14		0.91		.6	4		"
210	21	813A	820A	"	4.0	0.90	0.92		0.83		.6	4		"
211	28	814A	822A	"	4.0	1.10	1.18		1.3		.6	4		"
212	June 4	830A	838A	"	4.0	1.04	1.06		1.1		.6	4		"
213	11	824A	830A	"	4.0	0.86	1.28		1.1		.6	4		"
214	18	720A	728A	"	4.0	1.08	1.02		1.1		.6	4		"
215	25	750A	756A	"	3.0	0.92	1.20		1.1		.6	3		"
216	July 2	746A	752A	"	3.0	0.76	1.25		0.95		.6	3		"
217	9	822A	830A	"	4.0	0.90	0.89		0.80		.6	4		"
218	16	750A	756A	"	3.0	0.80	1.16		0.93		.6	3		"
219	23	810A	816A	"	3.0	0.84	1.19		1.0		.6	3		"
220	30	816A	824A	"	4.0	0.78	0.72		0.56		.6	4		"
221	Aug. 6	810A	818A	"	4.0	1.08	0.86		0.93		.6	4		"
222	13	830A	836A	"	3.0	1.00	1.10		1.1		.6	3		"
223	20	820A	826A	"	3.0	0.56	1.55		0.87		.6	3		"
224	27	820A	825A	Haig	3.0	0.67	1.10		0.74		.6	4		FC.35
225	Sept. 3	820A	825A	"	4.0	0.70	0.84		0.59		.6	5		"
226	10	818A	825A	Brewster	3.0	0.72	0.85		0.61		.6	3		FC.12
227	17	826A	832A	"	3.0	0.64	1.00		0.64		.6	3		"
228	24	810A	816A	"	3.0	0.64	1.11		0.71		.6	3		"

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "I"

DISCHARGE MEASUREMENTS OF TEMPLE DITCH

AT above head of pipeline DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
181	Oct. 1	245P / 254P	Brewster	8.0	7.85	0.57		4.5		.6	4		FC.12
182	8	230P / 240P	"	8.0	7.23	0.54		3.9		.6	4		"
183	15	110P / 120P	"	9.0	8.15	0.50		4.1		.6	5		"
184	22	150P / 202P	"	8.0	12.2	0.26		3.2		.6	5		"
185	29	200P / 210P	"	8.0	7.40	0.42		3.1		.6	4		"
186	Nov. 5	140P / 150P	"	6.0	4.29	0.96		4.1		.6	4		"
187	12	250P / 300P	"	9.0	7.00	0.66		4.6		.6	5		"
188	19	135P / 145P	"	8.0	6.00	0.47		2.8		.6	4		"
189	25	300P / 310P	"	8.0	5.80	0.53		3.1		.6	4		"
190	Dec. 3	300P / 308P	"	7.0	4.95	0.63		3.1		.6	4		"
191	10	235P / 245P	"	9.0	6.33	0.47		3.0		.6	4		"
192	17	115P / 122P	Brewster & Waddicor	7.0	2.90	1.07		3.1		.6	4		"
193	23	220P / 230P	Brewster	8.0	5.00	0.60		3.0		.6	4		"
194	30	240P / 246P	"	4.0	1.26	0.66		0.83		.6	4		"
195	Jan. 8	255P	"					0					
196	15	405P / 415P	"	8.0	3.12	1.09		3.4		.6	4		FC.12
197	Feb. 5	1230P	"					0					
198	11	410P	"					0					
199	19	425P	"					0					
200	26	445P	"					0					
201	Mar.12	300P	"					0					
202	19	255P	"					0					
203	26	310P	"					0					
204	Apr. 2	340P	"					0					
205	Apr. 9	250P	Brewster					0					
206	16	210P	"					0					
207	23	525P	"					0					
208	30	445P	"					0					
209	May 7	410P	"					0					
210	13	400P	"					0					
211	21	330P / 340P	"	7.0	4.40	0.91		4.0		.6	4		FC.12
212	28	320P / 330P	"	7.0	3.70	1.41		5.2		.6	4		"
213	June 4	305P / 317P	"	9.0	3.25	1.45		4.7		.6	5		"
214	11	320P	"					0					
215	18	150P / 200P	"	9.0	6.80	0.75		5.1		.6	5		FC.12
216	25	210P / 220P	"	6.0	3.65	1.42		5.2		.6	4		"
217	July 2	240P / 250P	"	6.0	3.15	1.37		4.3		.6	4		"
218	9	245P / 255P	"	5.0	3.16	1.30		4.1		.6	5		"
219	16	305P	"					0					
220	23	235P / 245P	"	5.0	4.50	1.38		6.2		.6	4		FC.12
221	30	300P / 310P	"	8.0	5.25	0.91		4.8		.6	4		"
222	Aug. 6	246P / 255P	"	5.0	4.65	1.18		5.5		.6	4		"
223	13	255P / 305P	"	6.0	4.70	1.00		4.7		.6	4		"
224	20	330P / 340P	"	6.0	8.50	0.87		7.4		.6	4		"
225	27	232P / 240P	Haig	8.5	12.3	0.76		9.3		.6	8		FC.35
226	Sept.3	200P / 210P	"	10.0	13.8	0.40		5.6		.6	7		"
227	10	235P / 245P	Brewster	7.0	7.00	0.93		6.5		.6	4		FC.12
228	17	230P	"					0					
229	Sept.24	238P / 247P	Brewster	5.0	3.25	1.23		4.0		.6	4		FC.12

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "J"

DISCHARGE MEASUREMENTS OF RINCON DITCH

AT above head of pipeline DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
182	Oct. 1	210P / 220P	Brewster	8.0	11.0	0.58		6.4		.6	4		FC.12
183	8	325P / 335P	"	8.0	10.6	0.53		5.6		.6	4		"
184	15	130P / 140P	"	8.0	9.60	0.49		4.7		.6	4		"
185	22	240P / 250P	"	8.0	10.0	0.47		4.7		.6	4		"
186	29	220P / 230P	"	8.0	10.0	0.47		4.7		.6	4		"
187	Nov. 5	115P / 125P	"	8.0	10.2	0.40		4.1		.6	4		"
188	12	315P / 325P	"	8.0	10.2	0.65		6.6		.6	4		"
189	19	155P / 205P	"	8.0	12.2	0.41		5.0		.6	4		"
190	25	320P / 330P	"	8.0	11.2	0.57		6.4		.6	4		"
191	Dec. 3	325P / 334P	"	8.0	11.4	0.57		6.5		.6	4		"
192	10	300P / 310P	"	8.0	10.8	0.61		6.6		.6	4		"
193	17	133P / 140P	Brewster & Waddicor	8.0	10.8	0.52		5.6		.6	4		"
194	23	245P / 255P	Brewster	8.0	11.2	0.50		5.6		.6	4		"
195	30	310P / 318P	"	8.0	11.6	0.43		5.0		.6	4		"
196	Jan. 8	310P / 320P	"	8.0	11.6	0.47		5.4		.6	4		"
197	15	425P	"					0					
198	Feb. 5	1210P	"					0					
199	11	350P	"					0					
200	19	405P	"					0					
201	26	430P	"					0					
202	Mar.12	240P	"					0					
203	19	240P	"					0					
204	26	300P	"					0					
205	Apr. 2	315P	"					0					
206	Apr. 9	230P	Brewster					0					
207	26	155P	"					0					
208	23	500P	"					0					
209	30	422P / 430P	"	6.0	1.98	0.96		1.9		.6	4		FC.12
210	May 7	346P / 352P	"	3.0	0.80	0.84		0.67		.6	3		"
211	13	330P / 340P	"	8.0	11.6	0.25		2.9		.6	4		"
212	21	305P / 315P	"	8.0	10.0	0.54		5.4		.6	4		"
213	28	240P / 250P	"	8.0	10.4	0.38		3.9		.6	4		"
214	June 4	230P / 240P	"	9.0	15.9	0.32		5.1		.6	5		"
215	11	250P / 300P	"	8.0	13.4	0.47		6.3		.6	4		"
216	18	100P / 110P	"	8.0	12.2	0.52		6.3		.6	4		"
217	25	145P / 155P	"	8.0	11.4	0.45		5.1		.6	4		"
218	July 2	215P / 225P	"	8.0	12.2	0.47		5.7		.6	4		"
219	9	215P / 225P	"	8.0	12.4	0.48		6.0		.6	4		"
220	16	240P / 250P	"	8.0	11.6	0.53		6.1		.6	4		"
221	23	210P / 221P	"	10.0	14.6	0.24		3.5		.6	4		"
222	30	230P / 240P	"	8.0	11.8	0.39		4.6		.6	4		"
223	Aug. 6	210P / 220P	"	8.0	12.0	0.42		5.0		.6	4		"
224	13	225P / 235P	"	8.0	12.4	0.43		5.3		.6	4		"
225	20	300P / 312P	"	8.0	11.6	0.44		5.1		.6	4		"
226	27	200P / 210P	Haig	8.6	12.9	0.36		4.7		.6	8		FC.35
227	Sept.2	140P / 150P	"	8.5	12.6	0.23		2.9		.6	8		"
228	10	215P / 225P	Brewster	8.0	11.4	0.56		6.4		.6	4		FC.12
229	17	200P / 212P	"	8.0	11.8	0.44		5.2		.6	4		"
230	Sept.24	210P / 222P	Brewster	8.0	9.00	0.48		4.3		.6	4		FC.12

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "L"

DISCHARGE MEASUREMENTS OF GATE DITCH

MEAS. below Sluice Gate DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
300	Oct. 1	1030A / 1040A	Brewster	11.0	13.6	1.12		15.2		.6	5		FC.12
301	8	1030A / 1040A	"	11.0	14.8	1.13		16.7		.6	5		"
302	15	1020A / 1030A	"	11.0	10.8	1.20		13.0		.6	5		"
303	22	1015A / 1025A	"	9.0	10.6	1.03		10.9		.6	4		"
304	29	1025A / 1035A	"	10.0	8.0	1.13		9.7		.6	5		"
305	Nov. 5	1030A / 1040A	"	10.0	9.0	1.14		11.2		.6	5		"
306	12	1045A / 1055A	"	10.0	9.0	1.13		10.6		.6	5		"
307	19	1030A / 1034A	"	3.0	0.46	0.30		0.14		.6	3		"
308	25	1052A / 1101A	"	10.0	11.2	1.05		11.8		.6	5		"
309	Dec. 3	1100A / 1110A	"	9.0	10.1	1.12		11.3		.6	4		"
310	10	1045A / 1055A	"	9.0	10.4	1.04		10.8		.6	4		"
311	17	955A / 1000A	Brewster & Waddicor	9.0	10.1	1.01		10.2		.6	4		"
312	23	1045A / 1055A	Brewster	9.0	10.5	1.10		11.5		.6	4		"
313	30	1048A / 1056A	"	8.0	6.60	0.59		3.9		.6	4		"
314	Jan. 8	1115A / 1125A	"	8.0	8.40	0.98		8.2		.6	4		"
315	15	1140A / 1150A	"	8.0	7.80	0.99		7.7		.6	4		"
315a	Feb. 5	1040A	"					0					
315b	Mar. 19	1055A	"					0					
316	26	1140A / 1150A	"	4.0	4.30	0.73		3.1		.6	4		FC.12
317	Apr. 2	1020A / 1027A	"	8.0	4.20	0.64		2.7		.6	4		"
318	9	1100A / 1110A	"	8.0	4.60	0.74		3.4		.6	4		"
319	16	1055A / 1105A	"	8.0	4.60	0.80		3.7		.6	4		"
320	23	1148A / 1157A	"	9.0	4.80	0.69		3.3		.6	4		"
321	30	1040A / 1050A	"	8.0	4.60	0.70		3.2		.6	4		"
322	May 7	1210P / 1225P	Brewster	8.0	4.20	0.69		2.9		.6	4		FC.12
323	13	1202P / 1211P	"	10.0	11.2	1.04		11.6		.6	5		"
324	21	1105A / 1115A	"	10.0	13.2	1.02		13.4		.6	5		"
325	28	1100A / 1110A	"	10.0	16.4	0.91		15.0		.6	5		"
326	June 4	1100A / 1110A	"	10.0	15.2	0.93		14.2		.6	5		"
327	11	1040A / 1050A	"	10.0	17.0	0.96		16.4		.6	5		"
328	18	910A / 922A	"	10.0	13.6	0.91		12.4		.6	5		"
329	25	920A / 932A	"	10.0	16.8	0.93		15.6		.6	5		"
330	July 2	1020A / 1032A	"	10.0	17.6	0.91		16.1		.6	5		"
331	9	1035A / 1045A	"	10.0	16.6	0.89		14.8		.6	5		"
332	16	1045A / 1055A	"	10.0	16.0	0.91		14.6		.6	5		"
333	23	1010A / 1020A	"	10.0	15.4	0.86		13.2		.6	5		"
334	30	1035A / 1047A	"	10.0	13.4	0.99		13.2		.6	5		"
335	Aug. 6	1020A / 1030A	"	10.0	13.6	1.05		14.3		.6	5		"
336	13	1045A / 1057A	"	10.0	16.4	0.90		14.8		.6	5		"
337	20	1045A / 1057A	"	10.0	15.8	0.99		15.7		.6	5		"
338	27	1100A / 1110A	Haig	12.0	18.8	0.91		17.2		.6	9		FC.35
339	Sept. 3	1040A / 1050A	"	11.0	15.0	0.98		14.7		.6	8		"
340	10	1020A / 1030A	Brewster	10.0	7.80	1.33		10.4		.6	5		FC.12
341	17	1040A / 1052A	"	10.0	12.6	1.17		14.7		.6	5		"
342	24	1025A / 1035A	"	10.0	11.0	1.31		14.4		.6	5		"

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "O"

DISCHARGE MEASUREMENTS OF STANDEFER DITCH

MEAS. below headgate DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
300	Oct. 1	1100A / 1110A	Brewster	7.0	14.0	1.59		22.3		.6	4		FC.12
301	8	1115A / 1125A	"	7.0	12.8	1.56		20.0		.6	4		"
302	15	1045A / 1055A	"	7.0	12.2	1.44		17.6		.6	4		"
303	22	1035A / 1045A	"	7.0	14.9	1.70		25.4		.6	4		"
304	29	1050A / 1100A	"	7.0	13.4	1.46		19.6		.6	4		"
305	Nov. 5	1100A / 1110A	"	7.0	12.2	1.38		16.8		.6	4		"
306	12	1115A / 1125A	"	7.0	13.0	1.56		20.3		.6	4		"
307	19	1110A / 1120A	"	7.5	15.8	1.63		25.7		.6	4		"
308	25	1130A / 1140A	"	7.0	11.4	1.52		17.3		.6	4		"
309	Dec. 3	1120A / 1130A	"	7.0	12.2	1.51		18.4		.6	4		"
310	10	1110A / 1120A	"	7.0	11.4	1.40		16.0		.6	4		"
311	17	1020A / 1025A	Brewster & Waddicor	7.0	13.7	1.68		23.0		.6	4		"
312	23	1115A / 1125A	Brewster	7.0	13.4	1.64		22.0		.6	4		"
313	30	1110A / 1120A	"	7.0	10.2	1.13		11.5		.6	4		"
314	Jan. 8	1148A / 1154A	"	3.0	0.46	0.78		0.36		.6	3		"
315	15	1202P / 1211P	"	7.0	10.6	1.34		14.2		.6	4		"
316	Feb. 5	1100A	"	Head works washed out				0					
317	11	1205P	"					0					
318	19	1230P	"					0					
319	26	1150A	"					0					
320	Mar. 12	1030A	"					0					
321	19	1125A	"					0					
322	26	1205P	"					0					
323	Apr. 2	1155A	"					0					
324	Apr. 9	1130A	Brewster					0					
325	16	1120A	"					0					
326	23	1130A	"					0					
327	30	1240P	"					0					
328	May 7	1245P	"					0					
329	13	1230P	"					0					
330	21	1133A / 1145A	"	8.0	9.30	1.29		12.0		.6	4		FC.12
331	28	1125A / 1137A	"	10.0	19.5	1.46		28.4		.6	5		"
332	June 4	1120A / 1136A	"	32.0	12.8	1.28		22.1		.6	8		"
333	11	1110A / 1122A	"	4.6	7.22	2.65		19.1		.6	5		"
334	18	935A / 941A	"	3.0	0.66	0.27		0.18		.6	3		"
335	25	945A / 955A	"	4.6	6.46	3.50		22.6		.6	5		"
336	July 2	1045A / 1055A	"	4.6	6.24	3.29		20.5		.6	5		"
337	9	1058A / 1107A	"	4.6	6.84	3.29		22.5		.6	5		"
338	16	1115A / 1125A	"	5.0	7.60	3.36		25.5		.6	5		"
339	23	1035A / 1045A	"	4.6	6.38	3.23		20.6		.6	5		"
340	30	1100A / 1110A	"	4.6	6.08	3.22		19.6		.6	5		"
341	Aug. 6	1045A / 1055A	"	4.6	5.86	3.09		18.1		.6	5		"
342	13	1110A / 1120A	"	4.8	7.42	3.32		24.6		.6	5		"
343	20	1115A / 1125A	"	4.6	6.46	3.28		21.2		.6	5		"
344	27	1130A / 1135A	Haig	4.6	6.84	3.23		22.1		.6	5		FC.35
345	Sept. 3	1105A / 1110A	"	4.4	6.44	2.67		17.2		.6	5		"
346	10	1045A / 1055A	Brewster	4.6	6.54	3.00		19.6		.6	5		FC.12
347	17	1110A / 1120A	"	4.8	7.02	2.92		20.5		.6	5		"
348	Sept. 24	1050A / 1102A	Brewster	4.8	6.70	2.96		19.8		.6	5		FC.12

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

FACTOR "P"

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT OR NEAR below Standefer Ditch DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH OD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
299	Oct. 1	1120A / 1138A	Brewster	23.0	20.1	0.92		18.5		.6	6		FC.12
300	8	1135A / 1150A	"	22.0	20.9	0.97		20.2		.6	5		"
301	15	1100A / 1120A	"	24.0	27.5	0.95		26.2		.6	6		"
302	22	1050A / 1106A	"	25.0	22.1	0.94		20.8		.6	6		"
303	29	1105A / 1120A	"	22.0	24.6	1.14		28.1		.6	6		"
304	Nov. 5	1115A / 1130A	"	23.0	27.0	1.04		28.2		.6	7		"
305	12	1135A / 1150A	"	19.0	23.1	1.01		23.3		.6	6		"
306	19	1130A / 1145A	"	22.0	28.0	1.14		32.0		.6	6		"
307	25	1150A / 1208P	"	25.0	26.9	1.03		27.6		.6	7		"
308	Dec. 3	1140A / 1158A	"	21.0	24.6	1.04		25.7		.6	6		"
309	10	1130A / 1145A	"	26.0	28.1	0.98		27.4		.6	7		"
310	17	1028A / 1035A	Brewster & Waddicor	23.0	21.5	0.98		21.1		.6	6		"
311	23	1135A / 1150A	Brewster	22.0	21.4	0.97		20.8		.6	6		"
312	30	1130A / 1147A	"	24.0	23.1	1.80		41.6		.6	7		"
313	Jan. 8	1210P / 1228P	"	23.0	23.2	2.11		48.9		.6	6		"
314	15	1220P / 1235P	"	32.0	39.0	0.95		36.9		.6	9		"
315	Feb. 11	1220P / 1240P	"	56.0	36.3	2.23		81.0		.6	8		"
316	19	1250P / 110P	"	62.0	38.8	2.09		81.1		.6	8		"
317	Mar. 26	1225P / 1250P	"	108.	89.9	2.74		246.		.6	12		"
318	Apr. 2	1210P / 1235P	"	74.0	72.9	3.48		254.		.6	8		"
319	9	1135A / 1147A	"	76.0	47.1	2.36		111.		.6	9		"
320	16	1125A / 1150A	Brewster	86.0	55.7	1.97		110.		.6	10		FC12
321	May 7	1255P / 120P	"	88.0	54.4	1.99		108.		.6	10		"
322	13	1235P / 1255P	"	99.0	50.3	1.85		93.3		.6	12		"
323	May 21	1150A / 1212P	Brewster	97.0	42.8	1.64		70.0		.6	11		FC.12
324	28	1145A / 1207P	"	78.0	30.2	1.61		48.6		.6	9		"
325	June 4	1142A / 1204P	"	89.0	34.8	1.44		50.0		.6	10		"
326	11	1130A / 1150A	"	29.0	35.7	1.43		51.1		.6	8		"
327	18	946A / 1014A	"	37.0	43.2	1.48		64.1		.6	8		"
328	25	1000A / 1020A	"	31.0	37.3	0.98		36.7		.6	8		"
329	July 2	1100A / 1120A	"	27.0	39.4	0.96		37.8		.6	7		"
330	9	1123A / 1141A	"	30.0	40.9	0.83		34.0		.6	7		"
331	16	1131A / 1149A	"	28.0	38.2	0.91		34.8		.6	7		"
332	23	1050A / 1110A	"	33.0	42.3	0.86		36.2		.6	8		"
333	30	1115A / 1135A	"	28.0	36.6	0.97		35.5		.6	7		"
334	Aug. 6	1102A / 1120A	"	30.0	35.2	0.95		33.3		.6	7		"
335	13	1130A / 1152A	"	19.0	18.8	1.41		26.5		.6	6		"
336	20	1132A / 1150A	"	18.0	18.4	1.44		26.5		.6	6		"
337	27	1140A / 1150A	Haig	25.0	15.4	1.63		25.1		.6	11		FC.35
338	Sept. 3	1120A / 1130A	"	13.0	19.9	1.98		39.3		.6	10		"
339	10	1105A / 1125A	Brewster	26.0	26.8	1.27		34.1		.6	7		FC.12
340	17	1125A / 1140A	"	14.0	18.0	1.95		35.1		.6	7		"
341	24	1110A / 1125A	"	15.0	17.4	1.87		32.6		.6	7		"

F.C. Dist. Form 82 3-41

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

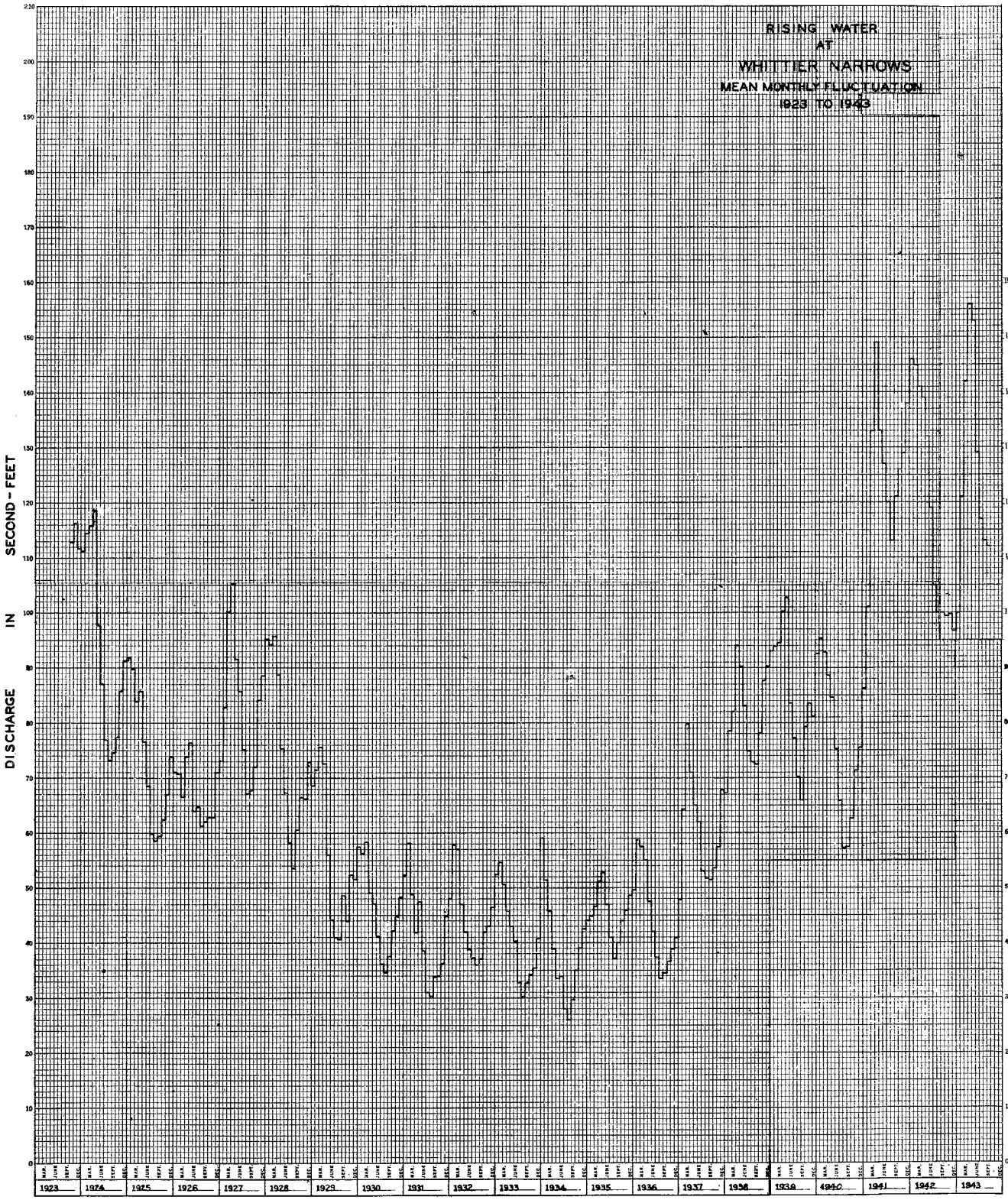
Sta. No

Daily discharge, in second-feet of RISING WATER at Whittier Narrows, for the year ending September 30, 19 43

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	100	100	99	97	115	129	151	157	138	122	114	113
2	100	99	99	97	116	130	151	156	137	122	114	113
3	100	99	99	97	118	131	151	156	137	121	113	113
4	100	99	99	96	119	132	152	155	136	121	113	113
5	99	99	98	96	120	133	153	155	135	120	113	113
6	99	99	98	96	120	134	154	154	135	120	113	113
7	99	99	98	96	120	135	155	154	134	119	113	113
8	99	99	98	96	120	136	156	153	134	119	113	113
9	99	100	97	96	121	136	157	152	133	118	113	113
10	99	100	97	95	121	137	158	151	133	118	112	113
11	99	100	97	95	121	138	158	151	132	118	112	113
12	99	100	97	95	121	139	158	150	131	118	112	112
13	99	100	97	95	121	140	158	149	130	117	112	112
14	99	100	96	94	121	141	157	149	129	117	112	112
15	99	100	96	94	121	142	157	148	129	117	112	112
16	99	101	96	95	121	143	157	148	128	117	112	111
17	99	101	96	96	121	144	157	147	127	117	112	111
18	99	101	96	98	121	145	157	147	126	117	112	111
19	99	101	96	99	121	146	157	146	126	117	112	111
20	99	101	96	100	121	146	158	146	125	116	112	111
21	99	100	95	101	122	147	158	145	125	116	112	110
22	99	100	95	103	123	148	158	144	125	116	113	110
23	99	100	95	104	124	149	158	144	125	116	113	110
24	99	99	95	105	125	150	158	143	124	116	113	110
25	99	99	96	106	125	151	158	143	124	115	113	110
26	100	99	96	108	126	152	158	142	124	115	114	110
27	100	99	96	109	127	152	157	142	123	115	114	110
28	100	99	96	110	128	152	157	141	123	115	114	110
29	100	99	97	111		152	157	140	123	114	114	110
30	100	99	97	113		152	157	140	123	114	114	110
31	100		97	114		151		139		114	113	
	3079	2991	3000	3107	3400	4413	4688	4587	3874	3637	3498	3346
MEAN	99.3	99.7	96.8	100	121	142	156	148	129	117	113	112
ACRE-FEET	6110	5930	5950	6160	6740	8750	9300	9100	7680	7210	6940	6640

Remarks:

YEAR OR PERIOD MEAN 120
ACRE-FEET 86510


RISING WATER
AT
WHITTIER NARROWS
MEAN MONTHLY FLUCTUATION
1923 TO 1943
DISCHARGE IN SECOND-FEET
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MISCELLANEOUS STATIONS

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF BALLONA CREEK DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			BALLONA CREEK, at Jackson Avenue										
61	10-1	840A / 847A	Moon	12.0	8.20	0.95		7.8		.6	6		FC 22
62	10-8	900A / 910A	"	12.0	8.18	0.88		7.2		.6	6		"
63	10-15	900A / 910A	"	13.5	9.60	0.54		5.2		.6	7		"
64	5-7	845A / 855A	Bollinger	18.0	15.6	1.09		17.0		.6	9		FC 6
65	5-15	935A / 941A	"	12.0	9.90	0.80		7.9		.6	7		"
66	5-19	845A / 853A	Moon	13.0	7.15	1.12		8.0		.6	8		FC 22
67	5-28	908A / 915A	Bollinger	19.0	12.2	0.91		11.1		.6	9		FC 6
68	6-3	913A / 920A	"	15.2	9.97	0.79		7.8		.6	9		"
69	6-10	840A / 848A	"	12.6	8.86	0.93		8.2		.6	8		"
70	6-17	825A / 837A	"	17.1	10.6	1.06		11.2		.6	9		"
71	6-25	835A / 845A	"	11.8	9.18	0.86		7.9		.6	9		"
72	7-2	815A / 825A	"	11.7	8.92	0.90		8.0		.6	10		"
73	7-9	815A / 823A	"	12.5	8.99	0.91		8.2		.6	9		"
74	7-16	823A / 835A	"	11.6	8.52	0.79		6.7		.6	10		"
75	7-29	915A / 925A	Bonadiman	11.0	8.70	0.69		6.0		.6	6		FC 19
76	8-6	840A / 848A	Bollinger	12.3	7.48	0.96		7.2		.6	9		FC 6
77	8-13	805A / 815A	"	11.5	8.29	0.76		6.3		.6	10		"
78	8-20	820A / 830A	"	11.2	8.09	0.77		6.2		.6	8		"
79	8-27	756A / 806A	"	11.5	7.89	0.86		6.8		.6	10		"
80	9-3	825A / 834A	Bollinger	10.8	8.09	0.87		7.0		.6	10		FC 6
81	9-10	815A / 825A	"	10.7	7.01	0.78		5.5		.6	9		"
82	9-17	843A / 853A	"	10.8	7.69	0.86		6.6		.6	11		"
83	9-24	848A / 858A	"	10.6	7.33	0.82		6.0		.6	10		FC 5

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			BIG TUJUNGA CREEK, Inflow to Dam No. 1 Reservoir										
166	9-17	1220P / 1230P	Turner	4.0	1.35	1.04		1.4		.6	5		FC 5
167	10-8	1055A / 1105A	"	6.0	1.60	0.87		1.4		.6	6		"
168	10-15	130P / 140P	"	5.7	0.97	1.75		1.7		.6	6		"
169	10-22	1120A / 1125A	"	5.0	1.50	0.93		1.4		.6	5		"
170	11-5	125P / 135P	"	6.0	1.62	1.36		2.2		.6	7		"
171	11-12	1120A / 1130A	"	4.5	1.42	1.34		1.9		.6	5		"
172	11-19	1205P / 1215P	"	5.0	1.76	1.70		3.0		.6	5		"
173	11-25	1208P / 1218P	"	6.0	1.44	1.67		2.4		.6	6		"
174	12-3	300P / 310P	"	6.0	1.50	1.60		2.4		.6	6		"
175	12-10	120P / 130P	"	7.0	2.00	1.35		2.7		.6	8		"
176	12-17	1140A / 1150A	"	7.0	1.94	1.44		2.8		.6	7		"
177	12-23	1145A / 1155A	"	9.0	2.14	1.26		2.7		.6	9		"
			BIG TUJUNGA CREEK, Inflow to Dam No. 1 Reservoir										
178	12-30	150P / 200P	Turner	7.0	2.40	1.46		3.5		.6	7		FC 5
179	1-8	1135A / 1145A	"	7.0	1.90	1.32		2.5		.6	7		"
180	1-15	1130A / 1140A	"	7.5	2.70	1.19		3.2		.6	7		"
181	2-27	145P / 205P	"	45.0	30.9	5.24		162.		.6	11		"
182	4-26	1000A / 1015A	"	25.5	18.4	2.62		48.2		.6	13		"
183	4-30	1000A / 1020A	"	26.0	18.2	2.34		42.5		.6	13		"
184	5-4	1252P / 103P	Blakely	13.5	10.4	3.67		38.2		.6	9		FC 44
185	5-8	245P / 258P	"	17.0	13.7	2.57		35.2		.6	10		"
186	5-22	920A / 935A	Turner	16.0	14.5	1.99		28.8		.6	8		FC 5
187	5-29	925A / 940A	"	19.0	13.8	1.89		26.1		.6	10		"
188	6-4	1242P / 1252P	Blakely	18.5	11.5	2.31		26.6		.6	8		FC 44
189	6-18	1145A / 1200N	Mellen	16.0	16.6	1.06		17.6		.6	8		FC 28
190	6-26	1245P / 1253P	Blakely	12.5	7.80	1.90		14.8		.6	8		FC 44
191	7-9	120P / 127P	Blakely & Marlin	12.0	7.50	1.41		10.6		.6	8		"
192	7-16	1200N / 1207P	Blakely	11.7	6.74	1.34		9.0		.6	7		"
193	7-23	950A / 1000A	"	13.0	6.24	1.76		11.0		.6	8		"
194	8-6	1215P / 1222P	"	15.7	5.51	1.19		6.6		.6	9		"
195	8-13	125P / 132P	"	10.6	5.96	1.04		6.2		.6	9		"
196	8-20	115P / 125P	"	13.8	3.85	1.43		5.5		.6	7		"
197	8-27	914A / 922A	"	11.4	3.08	1.43		4.4		.6	8		"
198	9-3	1056A / 1102A	"	8.0	2.65	2.26		6.0		.6	7		"
199	9-17	933A / 938A	"	7.0	1.72	2.33		4.0		.6 Surf.	4		"
			LOS ANGELES RIVER, LAWD Main Spreading Canal										
121	9-24	1030A / 1048A	Bollinger & van der Goot	Two Channels				47.1		.2 .8	10		FC 6
122	10-8	1138A / 1157A	Bollinger	" "				44.8		.2 .8	8		"
123	10-15	245P / 300P	"	" "				45.1		.2 .8	8		"
124	10-29	120P / 140P	"	" "				46.6		.2 .8	8		"
125	5-28	955A / 1015A	Turner	Three Channels				53.2		.6	18		FC 5
126	6-4	230P / 250P	Bollinger	" "				48.3		.6	18		FC 6
127	6-11	1127A / 1158A	"	" "				51.0		.6	15		"
128	6-18	1015A / 1040A	"	" "				47.6		.6	15		"
129	6-25	1100A / 1125A	Turner	" "				43.0		.6	18		FC 5
130	7-2	950A / 1020A	"	" "				42.8		.6	18		"
131	7-9	1045A / 1115A	"	" "				36.9		.6	18		"
132	7-16	1025A / 1045A	"	Two Channels				39.0		.6	12		"
133	7-23	1210P / 1225P	"	" "				39.4		.6	12		"
134	8-6	1130A / 1155A	"	" "				43.3		.6	12		"
135	8-13	1000A / 1020A	"	" "				45.0		.6	12		"
136	8-20	1005A / 1025A	"	" "				43.9		.6	12		"
137	8-27	815A / 835A	"	" "				43.2		.6	12		"
138	9-2	1041A / 1058A	Bollinger & Odekirk	" "				41.6		.6	12		FC 6
139	9-8	137P / 153P	Bollinger	" "				41.4		.6	10		"
140	9-17	1025A / 1045A	Turner	" "				40.9		.6	12		FC 5
141	9-23	1255P / 113P	Bollinger	" "				38.2		.6	8		"
142	9-30	1121A / 1132A	"	" "				37.2		.6	8		FC 6

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER DRAINAGE AREA

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			ARROYO SECO below Millard Creek										
		930A											
19	2-10	940A	Haig	13.0	7.6	2.29		17.4		.6	7		FC 33
		1035A											
20	3-13	1055A	"	24.5	37.6	2.76		104.		.6	12		"
		920A											
21	3-18	930A	"	24.0	25.2	2.05		51.7		.6	8		FC 35
		820A											
22	3-20	835A	"	23.0	27.2	2.30		62.4		.6	8		"
		1015A											
23	3-23	1020A	"	21.0	19.7	1.72		33.8		.6	9		FC 33
		1125A											
24	4-7	1135A	"	22.0	20.7	1.63		33.8		.6	7		FC 35
			ARROYO SECO below Devils Gate Dam										
		832A											
104	3-23	840A	Haig	9.5	3.14	2.17		6.8		.6	5		FC 35
		1140A											
105	3-26	1146A	"	10.3	4.37	1.49		6.5		.6	7		"
		952A											
106	9-24	1000A	Moon	7.8	2.45	1.22		3.0		.6	7		FC 22

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA ANITA CREEK above Santa Anita Dam (Inflow)										
		855A											
12	Apr. 3	905A	Waddicor	15.9	16.9	1.69		28.6		.6	9		FC 24
		1000A											
13	8	1015A	Haig	15.0	11.7	2.80		32.8		.6	8		FC 35
		230P											
14	16	245P	"	12.0	13.4	1.55		21.0		.6	9		"
		1225P											
15	23	1235P	"	12.5	14.3	1.46		20.9		.6	8		"
		845A											
16	30	858A	"	10.0	8.10	1.94		15.7		.6	9		"
		205P											
17	May 7	215P	Moon & Haig	11.4	8.58	1.53		13.1		.6	9		"
		1255P											
18	14	105P	Moon-Lindsay	10.5	10.2	1.12		11.4		.6	10		FC 22
		105P											
19	21	114P	Moon	9.5	8.90	1.02		9.1		.6	9		"
		1135A											
20	27	1140A	Haig	9.5	6.55	1.37		9.0		.6	8		FC 33
		940A											
21	June 4	951A	Moon	10.5	9.69	0.97		9.4		.6	10		FC 22
		253P											
22	12	303P	"	9.5	8.93	0.94		8.4		.6	9		"
		1008A											
23	18	1016A	"	8.5	7.53	0.89		6.7		.6	8		"
		1010A											
24	25	1020A	"	9.0	7.59	0.79		6.0		.6	8		"
		1125A											
25	July 2	1133A	"	8.5	6.98	0.73		5.1		.6	8		"
		1120A											
26	9	1128A	"	8.5	7.08	0.66		4.7		.6	8		"
		950A											
27	16	958A	Haig	7.0	3.53	0.88		3.1		.6	7		FC 33
		145P											
28	21	200P	Brewster	12.0	10.0	0.47		4.7		.6	6		FC 12
		1035A											
29	30	1042A	Moon	6.5	3.34	0.87		2.9		.6	7		FC 22
		1040A											
30	Aug. 6	1046A	"	5.0	3.15	0.95		3.0		.6	6		"
		117P											
31	13	122P	"	5.0	2.88	0.90		2.6		.6	5		"
		1218P											
32	20	1224P	"	5.0	2.66	0.68		1.8		.6	6		"
		1215P											
33	25	1220P	"	5.0	2.50	0.68		1.7		.6	5		"
		1220P											
34	Sept. 1	1225P	Moon	5.0	2.29	0.57		1.3		.6	5		FC.22
		240P											
35	8	250P	Brewster	8.0	2.40	0.96		2.3		.6	4		FC.12
		1000A											
36	14	1010A	"	8.0	2.52	0.95		2.4		.6	4		"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA ANITA CREEK below Santa Anita Dam (Outflow)										
		955A											
162	Oct. 1	1005A	Haig	8.6	2.02	1.14		2.3		.6	9		FC.33
		1020A											
163	8	1027A	"	8.6	2.02	1.09		2.2		.6	9		"
		1135A											
164	15	1142A	"	8.6	1.90	1.00		1.9		.6	8		"
		930A											
165	22	944A	"	8.6	1.76	1.08		1.9		.6	9		"
		1050A											
166	29	1100A	"	8.5	1.97	1.07		2.1		.6	8		"
		130P											
167	Nov. 4	140P	"	8.5	2.00	1.04		2.1		.6	9		"
		920A											
168	12	932A	"	8.5	1.95	1.08		2.1		.6	9		"
		230P											
169	19	240P	"	8.5	1.95	1.13		2.2		.6	9		"
		1015A											
170	25	1025A	"	7.9	1.69	1.01		1.7		.6	8		"
		548P											
171	Dec. 3	555P	"	8.4	1.85	1.14		2.1		.6	9		"
		220P											
172	10	235P	"	7.3	1.62	1.23		2.0		.6	8		"
		205P											
173	17	215P	"	6.6	1.39	1.37		1.9		.6	8		"
		1100A											
174	23	1118A	"	7.2	1.85	1.19		2.2		.6	9		"
		140P											
175	25	145P	"	1.6	0.30	0.70		0.21		.6	4		"
		1105A											
176	30	1110A	"	1.5	0.23	0.57		0.13		.6	4		"
		215P											
177	Jan. 7	225P	"	5.5	1.14	1.23		1.4		.6	6		"
		330P											
178	Jan. 14	338P	Haig	5.6	1.20	1.09		1.3		.6	7		FC.33
		1140A											
179	29	1150A	"	24.2	34.0	1.58		53.8		.6	13		"
		110P											
180	Feb. 10	120P	"	6.4	2.61	0.62		1.6		.6	7		"
		255P											
181	26	310P	"	33.0	42.4	2.01		85.4		.6	15		"
		140P											
182	Mar. 16	150P	"	Two	Channels			66.5		.6	13		FC.35
		1105A											
183	31	1115A	"	17.5	19.1	1.88		35.9		.6	9		"
		210P											
184	Apr. 23	220P	"	17.5	17.6	1.84		32.4		.6	10		"
		1115A											
185	May 21	1125A	Moon	10.0	4.50	2.89		13.0		.6	8		FC.22
		350P											
186	Jun. 17	356P	"	10.0	2.02	4.21		8.5		.6	6		"
		930A											
187	25	936A	"	7.0	2.00	3.30		6.6		.6	6		"
		1118A											
188	Jul. 16	1130A	Haig	12.5	2.06	2.96		6.1		.6	7		FC.33
		1200N											
189	Aug. 13	1207P	Moon	6.0	1.90	1.68		3.2		.6	6		FC.22
		1105A											
190	25	1111A	"	6.0	1.48	2.16		3.2		.6	6		"
		1117A											
191	Sept. 1	1123A	"	6.0	1.58	1.89		3.0		.6	6		"
		1055A											
192	14	1105A	Brewster	7.0	2.59	1.20		3.1		.6	4		FC.12
		110P											
193	24	116P	Moon	6.0	2.10	1.29		2.7		.6	6		FC.22
			SANTA ANITA CREEK, Three Cities Farms Diversion										
		225P											
1	Apr. 23	230P	Haig	2.2	2.16	0.93		2.0		.6	4		FC.35
		1140A								.6			
2	May 14	1144A	Moon-Lindsay	Two	Channels			1.2		& Weir	3		FC.22
		1040A								.6			
3	July 9	1045A	Moon	"	"			1.2		& Weir	3		"
		950A								.6			
4	Jul. 30	951A	Moon	Two	Channels			0.72		& Weir	2		FC.22
		945A								.6			
5	Aug. 6	946A	"	"	"			1.6		& Weir	2		"
		1110A								.6			
6	13	1112A	"	"	"			0.77		& Weir	2		"
		1135A								.6			
7	20	1145A	"	"	"			2.2		Sur.	4		"
		1147A								.6			
8	25	1150A	"	"	"			0.87		& Weir	3		"
		1100A								.6			
9	Sept. 1	1105A	"	"	"			1.9		& Weir	3		"
		130P											
10	8	136P	Brewster	"	"			2.0		.6	6		FC.12
		1110A											
11	14	1120A	"	"	"			2.1		.6	6		"
		1250P											
12	24	1255P	Moon	"	"			1.8		.6	4		FC.22

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA ANITA above Clamshell Canyon										
98	Feb.10	125P / 130P	Haig	1.3	0.21	1.14		0.24		.6	4		FC.33
99	Mar.11	1245P / 110P	"	36.4	38.3	2.92		112.		.6	19		"
100	13	130P / 146P	"	Two	Channels			74.4		.6	19		"
101	18	230P / 244P	"	36.5	27.5	2.38		65.6		.6	14		FC.35
102	Apr.18	1110A / 1125A	"	Two	Channels			34.8		.6	15		"
			CLAMSHELL CREEK above Santa Anita Creek										
1	Mar.11	120P / 125P	Haig	3.0	0.99	2.82		2.8		.6	4		FC.33
2	31	1130A / 1138A	"	2.5	0.96	1.25		1.2		.6	4		FC.35
3	Apr.23	240P / 245P	"	2.5	0.60	1.37		0.82		.6	4		"
4	July 7	715A / 745A	Moon	Two	Channels			0.50		.6	6		FC.22
5	16	1140A / 1145A	Haig	2.4	0.43	0.93		0.40		.6	5		FC.33
6	16	1205P / 1220P	"	Two	Channels			0.59		.6	6		"
7	16	1225P / 1230P	"	2.3	0.63	0.73		0.46		.6	4		"
			EATON CREEK above Eaton Dam (Inflow)										
24	Feb.10	1050A / 1100A	Haig	9.0	3.95	2.10		8.3		.6	8		FC.33
25	26	920A / 930A	"	16.5	12.9	2.98		38.4		.6	8		"
26	Mar.13	1150A / 1200N	"	13.0	15.2	2.66		40.5		.6	8		"
27	.18	950A / 1000A	"	13.0	12.1	2.12		25.7		.6	8		FC.35
28	Mar.20	905A / 912A	Haig	13.0	12.9	1.82		23.5		.6	8		FC.35
29	23	1105A / 1115A	"	13.0	10.2	1.82		18.6		.6	8		"
30	Apr. 7	1230P / 1235P	"	8.5	4.44	1.77		7.9		.6	6		"
31	16	1040A / 1050A	"	7.3	3.61	1.66		6.0		.6	8		"
32	28	925A / 930A	"	4.3	1.26	1.51		1.9		.6	5		"
33	May 7	1120A / 1130A	Moon - Haig	3.0	0.73	0.58		0.42		.6	4		"
			SOTOW DRAIN at Potrero Avenue										
6	Mar.22	315P / 320P	Koch - Jordan	2.3	0.90	0.38		0.34		.6	5		FC.21
7	22	324P / 330P	" "	3.8	2.39	0.37		0.88		.6	6		"
8	22	400P / 404P	" "		0.48	2.34		1.1		.6	2		"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN GABRIEL RIVER WESTFORK, above Devil's Creek										
4	7-8	245P / 258P	DeVore	6.4	3.01	1.50		4.5		.6	8		FC 20
5	7-14	940A / 953A	"	8.3	2.66	1.54		4.1		.6	8		"
6	7-21	300P / 305P	Godfrey	5.0	1.93	1.55		3.0		.6	5		"
7	7-28	203P / 212P	DeVore	4.7	1.30	1.92		2.5		.6	7		"
8	8-4	258P / 301P	Godfrey	4.0	0.98	3.37		3.3		.6	4		"
9	8-11	212P / 223P	DeVore	6.2	1.67	1.26		2.1		.6	7		"
10	8-19	232P / 243P	"	4.3	1.04	1.35		1.4		.6	7		"
11	8-25	240P / 253P	"	4.3	0.96	1.34		1.3		.6	8		"
12	9-1	1225P / 1233P	Godfrey	3.8	0.93	1.40		1.3		.6	7		"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			DEVIL'S CREEK, above Junction with San Gabriel River										
2	3-13	329P / 341P	Godfrey & DeVore	34.0	35.0	2.66		93.3		.6	12		FC 20
3	7-8	350P / 402P	DeVore	4.9	1.31	1.68		2.2		.6	7		"
4	7-14	1019A / 1030A	"	5.5	1.51	0.79		1.2		.6	6		"
5	7-21	235P / 240P	Godfrey	3.6	0.94	1.05		0.99		.6	5		"
6	7-28	245P / 253P	DeVore	2.8	0.76	1.05		0.80		.6	5		"
7	8-4	225P / 230P	Godfrey	2.5	0.74	0.84		0.62		.6	5		"
8	8-11	306P / 315P	DeVore	5.7	1.51	0.93		1.4		.6	6		"
9	8-19	312P / 319P	"	3.2	1.21	0.99		1.2		.6	5		"
10	8-25	411P / 420P	"	4.3	1.00	1.00		1.0		.6	5		"
11	9-1	1555 / 206P	Godfrey	3.0	0.69	1.59		1.1		.6	5		"
			SAN GABRIEL RIVER WESTFORK, misc. Tributaries below Dam No. 2										
29	1-24	1020A / 1030A	Godfrey	7.5	3.03	1.62		4.9		.6	7		FC 26
30	1-30	1125A / 1128A	"	3.5	1.20	0.78		0.93		.6	4		"
31	1-31	125P / 128P	"	1.0	0.40	0.60		0.24		.6	2		"
32	1-31	140P / 148P	"	5.0	1.29	0.78		1.0		.6	6		"
33	2-4	923A / 925A	"	1.0	0.37	0.16		0.06		.6	2		"
34	2-4	930A / 935A	"	3.5	1.13	0.50		0.56		.6	4		"
35	2-8	1130A / 1145A	"	3.5	0.92	0.34		0.31		.6	4		"
36	2-10	1037A / 1044A	"	3.2	0.53	0.53		0.28		.6	5		"
37	2-21	918A / 922A	"	3.2	0.91	0.62		0.56		.6	4		"
38	2-22	842A / 848A	"	2.8	1.51	1.19		1.8		.6	5		"
39	2-24	947A / 957A	Godfrey & DeVore	7.8	2.82	1.28		3.6		.6	10		"
40	2-26	125P / 135P	Godfrey	5.0	1.62	1.11		1.8		.6	6		"
41	3-4	322P / 335P	Godfrey & DeVore	9.2	6.38	1.96		12.5		.6	11		"
42	3-5	1154A / 1205P	Godfrey	9.0	5.17	1.53		7.9		.6	7		"
43	3-6	1049A / 1057A	"	8.5	4.67	1.13		5.3		.6	7		"
44	6-12	1108A / 1114A	DeVore	2.4	0.12	2.08		0.25	Float	7			-
			SAN GABRIEL RIVER WEST FORK below Forks										
2	7-31	1150A / 1206A	Middleton	17.0	13.3	2.91		38.7		.6	9		FC 11
3	8-1	655P / 710P	"	18.0	13.3	2.87		38.2		.6	9		"
4	8-2	1232P / 1244P	"	18.0	14.5	3.00		43.5		.6	9		"
5	8-6	1154A / 1206P	"	18.0	14.4	2.63		37.9		.6	9		"
6	7-9	1228P / 1238P	Middleton & Godfrey	17.5	13.6	2.54		34.6		.6	9		"
			SAN GABRIEL RIVER EAST FORK below Forks										
1	7-31	1215P / 1235P	Middleton	20.0	15.6	3.25		50.6		.6	11		FC 11
2	8-1	715P / 730P	"	20.5	15.9	2.94		46.8		.6	10		"
3	8-2	1215P / 1229P	"	20.5	15.8	3.03		47.9		.6	10		"
4	8-6	1135A / 1150A	"	20.0	16.7	3.08		51.5		.6	10		"
5	8-9	1212P / 1225P	Middleton & Godfrey	20.0	16.2	2.97		48.1		.6	10		"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN GABRIEL RIVER above Dam No. 1										
128	7-31	1115A / 1135A	Middleton	38.0	28.4	3.24		91.8		.6	13		FC 11
129	7-31	720P / 740P	"	37.0	27.6	2.99		82.5		.6	13		"
130	7-31	800P / 820P	Middleton	23.5	22.2	3.68		81.7		.6	12		FC 11
131	8-1	740P / 800P	"	38.0	27.9	3.05		85.0		.6	14		"
132	8-2	100P / 120P	"	38.0	30.1	3.04		91.6		.6	14		"
133	8-2	750P / 810P	"	38.0	28.1	2.70		75.7		.6	14		"
134	8-6	1220P / 1240P	"	37.5	29.9	3.00		89.8		.6	14		"
135	8-6	750P / 810P	"	37.0	28.1	2.68		75.3		.6	14		"
136	8-9	1250P / 105P	Middleton & Godfrey	37.5	28.7	2.79		80.0		.6	12		"
137	8-9	735P / 755P	Middleton	37.0	26.6	2.73		72.7		.6	13		"
138	8-16	1005A / 1025A	Godfrey	36.4	27.2	2.53		68.8		.6	12		"
			SAN GABRIEL RIVER below Dam No. 1 (Outflow)										
127	10-21	1010A / 1030A	Cooper & Shipley	17.9	6.76	3.23		21.8		.6	9		FC 11
128	10-28	130P / 150P	Cooper & Shipley	39.0	20.0	2.44		49.0		.6	10		"
129	9-30	922A / 938A	Middleton	20.0	12.3	2.02		24.9		.6	10		FC 18
			FISH CREEK above Junction with San Gabriel River										
40	2-24	113P / 130P	Haig	Two Channels				150.		.6	14		FC 33
41	4-8	425P / 435P	"	12.0	9.70	2.07		20.1		.6	8		FC 3'
42	4-15	340P / 350P	"	11.0	4.28	1.31		5.6		.6	7		"
43	4-30	1232P / 1240P	"	10.0	3.63	1.60		5.8		.6	6		"
			BIG DALTON CREEK INFLOW to Spreading Grounds										
10	2-6	1115A / 1125A	Brewster	9.0	3.80	1.11		4.2		.6	5		FC 12
11	2-9	1215P / 1225P	"	9.0	3.39	0.97		3.3		.6	5		"
12	2-24	520P / 535P	"	14.0	11.0	3.89		42.8		.6	7		"
13	3-1	430P / 440P	"	12.0	7.60	2.64		20.1		.6	6		"
14	3-3	1236P / 1247P	"	12.0	6.60	2.34		15.5		.6	6		"
15	3-8	430P / 440P	"	10.0	6.40	5.58		35.7		.6	5		"
16	3-15	110P / 120P	"	10.0	5.80	1.44		8.3		.6	5		"
17	3-22	1110A / 1122A	"	12.0	9.80	2.14		21.0		.6	6		"
18	3-29	1030A / 1040A	"	11.0	5.75	1.08		6.2		.6	6		"
19	4-5	230P / 240P	"	8.0	3.20	0.84		2.7		.6	4		"
20	4-12	1100A / 1110A	"	10.0	4.20	0.79		3.3		.6	5		"
21	4-19	1105A / 1115A	"	10.0	4.80	0.50		2.4		.6	5		"
			SAN DIMAS CREEK below San Dimas Dam (Outflow)										
48	1-26	1201P / 1220P	Brewster & Smith	17.0	21.2	0.86		18.2		.6	9		FC 35
49	1-26	1240P / 1245P	Brewster	6.0	1.85	2.05		3.8		.6	4		"
50	1-29	240P / 300P	"	20.0	22.7	0.81		18.4		.6	10		"
51	2-13	635P / 645P	"	4.0	2.42	1.45		3.5		.6	4		FC 12
52	2-22	500P / 515P	"	22.0	31.2	1.67		52.0		.6	6		"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN DIMAS CREEK below San Dimas Dam (Outflow)										
53	3-6	920A / 930A	Brewster & Smith	12.0	7.60	2.40		18.2		.6	6		FC 12
54	3-8	800A / 820A	Brewster	32.0	97.2	1.88		97.2		.6	8		"
55	3-10	430P / 445P	"	25.0	39.7	1.47		58.4		.6	7		"
56	4-2	503P / 510P	Green	14.0	17.3	0.62		10.8		.6	11		FC 30
57	4-7	1000A / 1015A	Brewster	21.0	25.0	1.09		27.2		.6	6		FC 12
58	4-14	830A / 840A	"	14.0	9.80	0.96		9.4		.6	6		"
59	4-22	130P / 140P	Whisler & Green	10.5	9.29	0.67		6.2		.6	7		FC 30X
			SAN DIMAS WASH, 30' below Parshall Flume and Puddingstone Div. Dam										
5	1-31	1140A / 1150A	Brewster	5.0	9.50	2.96		28.1		.6	5		FC 35
6	2-6	1050A / 1100A	Green	7.7	4.46	1.26		5.6		.6	8		FC 30X
7	4-3	1217P / 1222P	"	7.5	3.18	1.58		5.0		.6	6		"
8	4-7	920A / 935A	Brewster	7.5	5.60	0.96		5.4		.6	8		FC 12
9	4-10	239P / 244P	Green	8.3	4.27	1.97		8.4		.6	9		FC 30X
10	4-14	630P / 635P	"	8.6	4.67	2.12		9.9		.6	9		"
			LIVE OAK CREEK below Live Oak Dam										
58	1-26	220P / 230P	van der Goot Courtney	5.8	3.90	2.36		9.2		.6	5		FC 13
59	1-27	850A / 900A	van der Goot	4.3	1.91	1.57		3.0		.6	5		"
60	1-28	950A / 1000A	van der Goot	4.0	1.37	0.88		1.2		.6	4		FC 13
61	3-19	130P / 135P	Green	4.2	2.23	1.58		3.5		.6	6		FC 30X
62	3-19	150P / 155P	"	3.6	2.17	1.65		3.6		.6	4		"
63	3-19	335P / 340P	"	3.0	0.69	2.46		1.7		.6	4		"
64	3-19	345P / 350P	"	4.1	0.94	2.69		2.5		.6	5		"
65	4-2	215P / 220P	"	4.2	1.24	1.45		1.8		.6	7		"
66	4-16	240P / 245P	"	1.6	0.89	1.80		1.6		.6	5		"
67	6-9	1120A / 1125A	Brewster	1.0	0.22	0.55		0.12		.6	2		FC 12
			PADUA CREEK above Diversion to Thompson Creek Dam										
13	2-25	415P / 420P	Brewster	3.0	0.60	1.18		0.71		.6	3		FC 12
14	3-5	1056A / 1102A	Brewster & Smith	8.0	2.40	1.98		4.7		.6	4		"
15	3-6	225P / 230P	" "	6.0	2.20	1.39		3.0		.6	4		"
16	3-8	1100A / 1106A	Brewster	3.0	0.90	0.90		0.81		.6	3		"
17	3-15	300P / 305P	"	3.0	0.60	0.78		0.47		.6	3		"
18	3-18	410P / 416P	"	4.0	1.30	1.05		1.4		.6	4		"
19	3-22	215P / 223P	"	6.0	2.35	1.49		3.5		.6	4		"
20	3-25	250P / 258P	"	6.0	2.55	1.56		4.0		.6	4		"
21	3-29	1220P / 1228P	"	5.0	1.80	1.33		2.4		.6	5		"
22	4-1	420P / 428P	"	6.0	2.23	1.12		2.5		.6	4		"
23	4-5	410P / 418P	Brewster	4.0	1.20	1.00		1.2		.6	4		FC 12
24	4-6	340P / 348P	"	4.0	1.30	1.15		1.5		.6	4		"
25	4-8	500P / 506P	"	4.0	1.30	1.00		1.3		.6	4		"
26	4-12	110P / 116P	"	4.0	0.94	0.51		0.48		.6	4		"
27	4-15	150P / 155P	"	3.0	0.56	0.43		0.24		.6	3		"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN GABRIEL RIVER above Santa Fe Diversion (Inflow)										
3	2-18	205P / 220P	Haig	54.0	51.5	3.63		187.		.6	13		FC 33
4	6-2	1120A / 1134A	Kooh	35.0	38.8	1.94		77.0		.6	10		FC 43
5	6-2	200P / 218P	"	34.0	37.8	1.80		68.0		.6	12		"
6	6-5	257P / 317P	Moon & Jordan	34.0	40.2	1.98		79.8		.6	13		FC 22
7	6-12	900A / 915A	Moon	32.5	25.5	1.36		34.6		.6	12		"
8	6-17	954A / 1006A	"	30.0	19.0	1.02		19.3		.6	12		"
			THOMPSON CREEK below Thompson Creek Dam										
6	1-26	1030A / 1040A	Brewster & van der Goot	11.0	7.76	2.06		16.0		.6	8		FC 35
7	1-30	825A / 835A	" "	10.0	6.91	1.87		12.9		.6	8		"
8	2-27	1130A / 1140A	Brewster	11.0	9.50	1.44		13.6		.6	7		FC 12
9	3-1	1115A / 1125A	"	11.0	7.80	1.29		10.0		.6	6		"

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN ANTONIO CANYON DRAINAGE AREA

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN ANTONIO CREEK 600 feet below Station No. F151R										
52	Jan. 30	545P / 555P	Brewster	4.0	1.20	2.58		3.2		.6	4		FC.35
53	31	910A / 920A	"	6.0	1.76	2.78		4.9		.6	4		"
54	31	540P / 550P	"	6.0	1.94	1.80		3.5		.6	4		"
55	Feb. 4	650P / 700P	"	6.0	2.16	2.69		5.8		.6	4		FC.12
56	6	310P / 318P	"	8.0	3.20	3.38		10.8		.6	4		"
57	9	215P / 225P	"	9.0	3.36	2.71		9.1		.6	5		"
58	10	330P / 340P	"	6.0	3.25	2.97		9.6		.6	4		"
59	18	240P / 250P	"	6.0	2.50	2.90		7.3		.6	4		"
60	21	135P / 145P	"	6.0	2.87	3.21		9.2		.6	4		"
61	25	630P / 640P	"	10.0	4.20	2.86		12.0		.6	5		"
62	27	1025A / 1035A	"	11.0	3.95	3.03		12.0		.6	4		"

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN ANTONIO CANYON DRAINAGE AREA

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN ANTONIO CREEK 600 feet below Station No. F151R										
63	Mar. 1	950A / 1000A	Brewster	8.0	3.80	2.94		11.2		.6	4		FC 12
64	3	945A / 955A	"	10.0	7.20	3.57		25.7		.6	5		"
65	10	200P / 210P	"	10.0	6.60	3.36		22.2		.6	5		"
66	11	500P / 510P	"	10.0	6.40	3.50		22.4		.6	5		"
67	15	415P / 425P	"	10.0	6.00	3.32		19.9		.6	5		"
68	18	515P / 525P	"	9.0	5.20	3.77		19.6		.6	5		"
69	22	320P / 330P	"	9.0	5.55	3.15		17.5		.6	5		"
70	25	430P / 440P	"	11.0	6.30	3.00		18.9		.6	5		"
71	29	240P / 250P	"	10.0	7.80	3.88		30.3		.6	5		"
72	Apr. 1	230P / 240P	"	10.0	7.60	3.82		29.0		.6	5		"
73	5	500P / 510P	"	10.0	6.20	2.48		15.4		.6	4		"
74	Apr. 6	430P / 440P	Brewster	10.0	6.40	2.25		14.4		.6	5		FC.12
75	7	1205P / 1215P	"	10.0	6.20	2.03		12.6		.6	5		"
76	8	120P / 130P	"	10.0	6.20	2.26		14.0		.6	5		"
77	12	220P / 230P	"	10.0	5.80	2.53		14.7		.6	5		"
78	15	250P / 300P	"	10.0	5.80	2.48		14.4		.6	5		"
79	19	240P / 250P	"	10.0	4.80	2.48		11.9		.6	5		"
80	22	300P / 310P	"	10.0	4.80	2.00		9.6		.6	5		"
81	26	330P / 340P	"	10.0	4.40	1.89		8.3		.6	5		"
82	29	410P / 420P	"	9.0	4.25	1.53		6.5		.6	5		"
83	May 3	350P / 400P	"	9.0	3.76	1.60		6.0		.6	5		"
84	6	1245P / 1255P	"	8.0	3.00	1.27		3.8		.6	4		"
85	10	835A / 845A	"	8.0	3.00	1.17		3.5		.6	4		"
86	12	230P / 239P	"	9.0	3.33	1.65		5.5		.6	5		"
87	20	300P / 310P	"	9.0	3.85	1.48		5.7		.6	5		"
88	27	345P / 355P	"	9.0	3.65	1.26		4.6		.6	5		"
89	June 3	315P / 323P	"	8.0	3.40	1.29		4.4		.6	4		"
90	10	1250P / 1258P	"	6.0	1.44	1.11		1.6		.6	4		"
91	17	330P / 338P	"	4.0	1.44	0.97		1.4		.6	4		"
			SAN ANTONIO CREEK at Foothill Boulevard										
2	Mar. 4	1050A / 1105A	Brewster-Smith	48.0	29.3	5.41		159.		.6	6		FC.12
3	5	1000A / 1025A	" "	Two	Channels			175.		.6	11		"
4	6	135P / 148P	" "	"	"			109.		.6	9		"

PERCOLATION MEASUREMENTS

F. C. D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

Percolation ~~Underflow~~ MEASUREMENTS OF SANTA MONICA CREEK

~~AT~~ NEAR Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19~~43~~

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC.-FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SOUTHERN END of RIVIERA COUNTRY CLUB GOLF COURSE										
1	9-1	1040A / 1046A	Bollinger	3.1	0.40	1.15		0.46		.6	5		FC 6
			NORTH END of EAST CHANNEL ROAD										
2	9-1	1117A / 1124A	Bollinger	3.5	0.98	1.94		1.9		.6	6		FC 6
			SOUTH AMALFI DRIVE										
3	9-1	1148A / 1153A	Bollinger	3.8	0.82	1.46		1.2		.6	6		FC 6
			Above RUSTIC CANYON										
4	9-1	1209P / 1215P	Bollinger	3.3	0.94	1.49		1.4		.6	5		FC 6
			Below RUSTIC CANYON										
5	9-1	1220P / 1227P	Bollinger	5.0	1.37	1.31		1.8		.6	8		FC 6

SANTA MONICA CREEK — PERCOLATION MEASUREMENTS — SET NO. 1

September 1, 1943

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
1030A	600' upstream from south line of Riviera Country Club Golf Course		0	1	0						
1043A	South line - Riviera Country Club Golf Course		6+00	2	0.46	600				40.46	
1120A	North end - East Channel Road		14+00	3	1.9	800				41.44	Rubble walls - bottom of channel not paved. Springs flowing from banks.
1150A	Amalfi Drive		31+00	4	1.2	1700				-0.70	Area in vicinity very dry
1212P	Above Rustic Canyon		37+00	5	1.4	600				40.20	In full concrete section - concrete bottom covered with gravel to an average depth of six inches.
1224P	Below Rustic Canyon		39+00	6	1.8	200				40.40	Increase due to flow from Rustic Canyon

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF PACOIMA WASH

AT NEAR Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
			At San Fernando Road										
1	12-28	408P / 416P	Haig	13.2	12.8	1.34		17.1		.6	8		FC 33
			At Laurel Canyon Road										
2	12-28	455P / 503P	Haig	13.8	14.2	0.87		12.3		.6	8		FC 33
			At Arleta Street										
3	12-28	555P / 600P	Haig	13.5	4.15	1.68		7.0		.6	7		FC 33
			At Woodman Avenue										
4	12-28	620P / 625P	Haig	8.0	2.45	1.36		3.3		.6	5		FC 33

PACOIMA WASH — PERCOLATION MEASUREMENTS — SET NO. 1

December 28, 1942

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
410P	San Fernando Road			1	17.1						
500P	Laurel Canyon Road			2	12.3				4.8		Pacoima Dam release
600P	Arleta Street below Spreading Grounds Headworks			3	7.0				5.3		
620P	Woodman Avenue			4	3.3				3.7		
900P	500' above Plummer Street			5	0				3.3		End of percolation

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF EATON WASH

AT NEAR Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
			Below Eaton Wash Dam										
1	2-26	955A / 1008A	Haig	25.8	9.18	6.26		57.5		.6	7		FC 33
			At Ellis Lane										
2	2-26	1108A / 1118A	Haig	31.5	10.2	3.70		39.0		.6	9		FC 33
			At Ramona Boulevard										
3	2-26	1130A / 1140A	Haig	34.0	11.4	3.10		35.3		.6	9		FC 33

EATON WASH — PERCOLATION MEASUREMENTS — SET NO. 1

February 26, 1943

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
1000A	Below Eaton Wash Dam		0+00	1	57.5						
1113A	Ellis Lane		E350+00	2	39.0	35000	E29.	23.3	18.5	0.79	
1135A	Ramona Boulevard		E410+00	3	35.3	6000	E33.	4.54	3.7	0.81	Flow empties into Rio Hondo

Areas are an approximation

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF EATON WASH

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			Below Eaton Wash Dam										
1	3-20	950A / 1000A	Haig	Two Channels				27.6		.6	8		FC 35
			At Ellis Lane										
2	3-20	1115A / 1122A	Haig	Three	Channels			10.0		.6	10		FC 35
			At Ramona Road										
3	3-20	1140A / 1145A	Haig	23.0	4.82	1.85		8.9		.6	7		FC 35

PERCOLATION MEASUREMENTS

SET NO. 2

EATON WASH — March 20, 1943

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
955A	Below Eaton Wash Dam		0+00	1	27.6						
1118A	Ellis Lane		350+00	2	10.0	35000	18.	14.5	17.6	1.2.	
1142A	Ramona Boulevard		410+00	3	8.9	6000	20.	2.75	1.1	0.40	Flow empties into Rio Hondo
					Areas are an approximation.						

F.C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF SANTA ANITA WASH

AT Below Santa Anita Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA ANITA CREEK Below Santa Anita Dam										
1	1-29	1145A / 1150A	Haig	Two Channels				53.8		.6	13		FC 33
			CLAMSHELL CREEK Above Santa Anita Creek										
2	1-29	1210P / 1215P	Haig	1.9	0.47	1.66		0.78		.6	4		FC 33
			SANTA ANITA CREEK Below Clamshell Canyon										
3	1-29	1218P / 1225P	Haig	18.0	30.2	1.77		53.4		.6	9		FC 33
			SANTA ANITA CREEK At Grand Avenue Produced East										
4	1-29	1250P / 110P	Haig	Three	Channels			47.3		.6	18		FC 33
			LITTLE SANTA ANITA CREEK Above Santa Anita Creek										
5	1-29	130P / 134P	Haig	10.0	1.67	3.92		6.5	Floats		4		
			SANTA ANITA CREEK At Foothill Boulevard										
6	1-29	148P / 200P	Haig	24.5	16.2	3.02		49.0		.6	12		FC 33
			SANTA ANITA CREEK At Huntington Drive										
7	1-29	210P / 224P	Haig	Two	Channels			11.0		.6	10		FC 33
			SANTA ANITA CREEK At Duarte Road										
8	1-29	240P / 245P	Haig	3.0	0.34	2.50		0.85	Floats		3		
			SANTA ANITA CREEK 1,000 feet Below Duarte Road										
9	1-29	300P	Haig					0					

PERCOLATION MEASUREMENTS

SET NO. 1

SANTA ANITA WASH — January 29, 1943

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
1148A	Santa Anita Creek below Santa Anita Dam		0+00	1	53.80						Dam release steady during percolation test
1212P	Clamshell Creek			2	0.78						
1220P	Santa Anita Creek below Clamshell Creek		16+00	3	53.4	1600	20.0	0.73	1.18	1.62	
100P	Santa Anita Creek at Grand Avenue Produced East		45+00	4	47.3	2900	25.0	1.66	6.1	3.67	
132P	Little Santa Anita Creek above Santa Anita Creek			5	6.5						
154P	Santa Anita Creek at Foothill Boulevard		110+00	6	49.0	6500	27.5	4.10	4.8	1.17	
217P	Huntington Drive		155+00	7	11.0	4500	27.5	2.84	38.0	13.4	
242P	Duarte Road		193+00	8	0.85	3800	10.5	0.92	10.20	11.1	
300P	Santa Anita Creek 1,000' below Duarte Road		203+00	9	0	1000	1.5	0.34	0.80	2.35	End of percolation
					Areas are an approximation						

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF SANTA ANITA WASH

AT OR NEAR Below Santa Anita Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			Below Santa Anita Dam										
1	4-3	1012A / 1025A	Waddicor	16.0	20.4	1.67		34.0		.6	19		FC 24
			At Foothill Boulevard										
2	4-3	1120A / 1130A	Waddicor	25.9	15.0	1.74		26.1		.6	10		FC 24
			At Duarte Road										
3	4-3	1150A / 1202P	Waddicor	16.0	10.5	1.68		17.6		.6	6		FC 24
			At Arrow Highway										
4	4-3	1210P / 1217P	Waddicor	9.8	2.58	1.74		4.5		.6	5		FC 24
			At Rio Hondo										
5	4-3	1230P	Waddicor					0					

PERCOLATION MEASUREMENTS

SET NO. 2

SANTA ANITA WASH — April 3, 19 43

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
1015A	Santa Anita Creek below Santa Anita Dam			1	34.0						
	Three Cities Farms Diversion			2	E 1,5						E = Estimated
	Clamshell Canyon			3	E41.0						
	Little Santa Anita Creek			4	+						
1125A	Santa Anita Creek at Foothill Boulevard			5	26.1				7.4		
1200N	Santa Anita Creek at Duarte Road			6	17.6				8.5		
	Santa Anita Creek at Arrow Highway			7	4.5				13.1		
1230P	Santa Anita Creek at Rio Hondo			8	0				4.5		

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF SAWPIT CREEK

AT OR NEAR Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAWPIT CREEK Below Sawpit Dam										
1	2-4	150P / 200P	Haig	9.0	1.81	6.50		11.8		.6	10		FC 33
			MONROVIA CREEK above Sawpit Creek										
2	2-4	210P / 215P	Haig	5.0	1.58	1.08		1.7		.6	6		FC 33
			SAWPIT CREEK below Monrovia Creek										
3	2-4	240P / 250P	Haig	6.9	1.83	7.32		13.4		.6	6		FC 33
			SAWPIT CREEK above Duarte Road (below Lemon Avenue)										
4	2-4	110P / 115P	Haig	9.0	1.80	2.39		4.3		.6 Float			FC 33

PERCOLATION MEASUREMENTS

SET NO. 1

SAWPIT CREEK — February 4, 19 43

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
155P	Sawpit Creek below Sawpit Dam		0400	1	11.8						Steady release
212P	Monrovia Creek above Sawpit Creek			2	1.7						
245P	Sawpit Creek below Monrovia Creek		7+50	3	13.4	750	8.0	0.14	0.1	0.71	
112P	Sawpit Creek above Duarte Road (below Lemon Ave.)		122+00	4	4.3	11450	8.0	2.1	9.1	4.33	

Areas are an approximation.

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF SAWPIT CREEK

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			Sawpit Creek Below Sawpit Dam										
1	2-26	400P	Haig					13.7		E			
			Monrovia Creek Above Sawpit Creek										
2	2-26	410P 415P	Haig	2.6	1.46	2.33		3.4		.6	5		FC 33
			Sawpit Creek Below Monrovia Creek										
3	2-26	350P 355P	Haig	16.0	8.72	1.96		17.1		.6	9		FC 33
			Sawpit Wash At Norumbega Drive										
4	2-26	430P 440P	Haig	16.0	7.10	2.31		16.4		.6	9		FC 33
			Sawpit Wash At Lemon Avenue										
5	2-26	445P 450P	Haig	9.0	2.90	3.76		10.9		.6	5		FC 33
			Sawpit Wash At Duarte Road										
6	2-26	500P 505P	Haig	Four Channels				0.24		.6			FC 33

PERCOLATION MEASUREMENTS

SET NO. 2

SAWPIT CREEK — February 26, 19 43

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
400P	Sawpit Creek below Sawpit Dam		0+00	1	E13.7						
412P	Monrovia Creek above Sawpit Creek			2	3.4						
350P	Sawpit Creek below Monrovia Creek		7+50	3	17.1	750	E10.	0.17			
435P	Sawpit Wash at Norumbega Drive		70+00	4	16.4	6250	16.	2.30	0.70	0.30	
448P	Sawpit Wash at Lemon Avenue		122+00	5	10.9	5200	12.	1.43	5.5	3.85	
502P	Sawpit Wash at Duarte Road		185+00	6	0.24	6300	8.0	1.15	10.66	9.27	
515P	Sawpit Wash 200' below Euclid Ave.		197+00	7	0	1200	2.0	0.06	0.24	4.00	
					Areas are an approximation.						End of perc

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF SAWPIT CREEK

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			Sawpit Creek Below Sawpit Dam										
1	3-2	325P 335P	Haig	7.7	5.30	1.58		8.4		.6	9		FC 33
			Monrovia Creek Above Sawpit Creek										
2	3-2	340P 345P	Haig	2.6	1.27	1.97		2.5		.6	5		FC 33
3	3-2	400P	Haig					E10.9					
			Sawpit Wash Below Lemon Avenue										
4	3-2	300P 310P	Haig	4.0	0.86			4.5		.6	5		FC 33

PERCOLATION MEASUREMENTS

SET NO. 3

SAWPIT CREEK — March 2, 19 43

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
330P	Sawpit Creek below Sawpit Dam		0+00	1	8.4	0					Steady release
342P	Monrovia Creek above Sawpit Creek			2	2.5						
400P	Sawpit Creek below Monrovia Creek		7+50	3	E10.9	750	8.0	0.14			E - Indicates estimated
305P	Sawpit Wash below Lemon Avenue		122+00	4	4.5	11450	8.0	2.10	6.4	3.05	
					Areas are an approximation						

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF SAWPIT CREEK

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
			Sawpit Creek Below Sawpit Dam										
1	3-19	1027A / 1037A	Haig	8.5	6.58	1.58		10.4		.6	8		FC 35
			Monrovia Creek Above Sawpit Creek										
2	3-19	1120A / 1130A	Haig	10.0	4.46	0.76		3.5		.6	7		FC 35
			Sawpit Creek Below Monrovia Creek										
3	3-19	1010A / 1017A	Haig	13.5	11.1	1.30		14.4		.6	8		FC 35
			Sawpit Wash At Norumbega Drive										
4	3-19	950A / 955A	Haig	10.5	7.62	1.77		13.5		.6	7		FC 35
			Sawpit Wash At Foothill Boulevard										
5	3-19	920A / 925A	Haig	6.0	2.15	2.79		6.0		.6	4		FC 35

PERCOLATION MEASUREMENTS

SET NO. 4

SAWPIT CREEK — March 19, 19 43

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
1032A	Sawpit Creek below Sawpit Dam			1	10.4						Steady release
1125A	Monrovia Creek above Sawpit Creek			2	3.5						
1135A	Sawpit Creek below Monrovia Creek			3	14.4	750	9.5	0.16	+0.5		Gain in reach
952A	Sawpit Wash at Norumbega Drive			4	13.5	6250	12.0	1.72	0.9	0.52	
922A	Sawpit Wash at Foothill Boulevard			5	6.0	8500	8.5	1.65	7.5	4.55	
910A	Sawpit Wash 4500' below Foothill			6	0	4500	3.0	0.31	6.0	19.35	End of perc
					Areas are an approximation.						

F. C. D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF SAWPIT CREEK

AT Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 19 43

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH OD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
			Sawpit Creek Below Sawpit Dam										
1	4-15	930A / 938A	Haig	8.5	4.85	1.11		5.4		.6	8		FC 35
			Monrovia Creek Above Sawpit Creek										
2	4-15	1012A / 1015A	Haig	4.0	0.88	1.83		1.6		.6	4		FC 35
			Sawpit Creek Below Monrovia Creek										
3	4-15	1030A / 1036A	Haig	10.	7.03	1.04		7.3		.6	6		FC 35
			Sawpit Wash Below Lemon Avenue										
4	4-15	1100A / 1105A	Haig	5.8	2.53	1.78		4.5		.6	6		FC 35
			Sawpit Wash At Duarte Road										
5	4-15	1112A / 1115A	Haig	3.0	0.50	1.56		0.78		.6	4		FC 35

PERCOLATION MEASUREMENTS

SET NO. 5

SAWPIT CREEK — April 15, 19 43

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
955A	Sawpit Creek below Sawpit Dam		0400	1	5.4						
1012A	Monrovia Creek above Sawpit Creek			2	1.6						
1033A	Sawpit Creek below Monrovia Creek		7+50	3	7.3	750	8.0	0.14	+0.3		Gain in reach
1102A	Sawpit Wash below Lemon Avenue		122+00	4	4.5	11450	7.0	1.84	2.8	1.52	
1113A	Sawpit Wash at Duarte Road		185+00 0400	5	0.78	6300	5.0	0.72	3.72	5.17	
1135A	Sawpit Wash 300' above Arrow Highway		65+00	6	0	*6500	1.0	0.15	0.78	5.20	End of percola-tion
						Areas are an approximation.					
						* 1500' of impervious channel not included					

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF SAN GABRIEL RIVER

AT MEAN Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			At Foothill Boulevard										
1	3-25	1104A / 1132A	Haig	75.0	104.	4.41		457.		.6	13		FC 35
			Above Santa Fe Dam Reservoir										
2	3-25	1225P / 1250P	Haig	75.0	105.	3.85		404.		.6	18		FC 35
			Below Santa Fe Dam										
3	3-25	110P / 130P	Haig	90.0	77.8	2.57		200.		.6	19		FC 35

SAN GABRIEL RIVER — PERCOLATION MEASUREMENTS — SET NO. 1 — March 25, 1943

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
1118A	At Foothill Boulevard		0+00	1	457						
1237P	Above Santa Fe Reservoir		60+00	2	404	6000	82.5	11.4	53.	4.65	
120P	Below Santa Fe Dam		140+00	3	200	8000	82.5	15.2 +80*	204.	2.14	No change in Santa Fe reservoir W. S. elevation during test

* Estimated reservoir area

F.C.D. FORM 104 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

Percolation MEASUREMENTS OF SAN GABRIEL RIVER

AT MEAN Miscellaneous points DURING THE YEAR ENDING SEPTEMBER 30, 1943

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			At Foothill Boulevard										
1	4-2	933A / 953A	Haig	75.0	99.4	4.40		438.		Surf	12		FC 35
			Above Santa Fe Dam Reservoir										
2	4-2	1020A / 1035A	Haig	74.0	103.	3.64		375.		.6	15		FC 35
			Below Santa Fe Dam										
3	4-2	1055A / 1113A	Haig	88.0	82.3	2.76		227.		.6	17		FC 35

SAN GABRIEL RIVER — PERCOLATION MEASUREMENTS — SET NO. 2 — April 2, 1943

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
943A	At Foothill Boulevard		0+00	1	438						
1027A	Above Santa Fe Reservoir		60+00	2	375	6000	82.5	11.4	63.	5.53	
1104A	Below Santa Fe Dam		140+00	3	227	8000	82.5	15.2 +80*	148.	1.55	No change in Santa Fe reservoir W. S. elevation during test

* Estimated reservoir area

YEARLY DISCHARGE - SUMMARY

Water Year Ending September 30, 1943

F.C. No.	Station	Location	Maximum Daily C.F.S.	Minimum Daily C.F.S.	Mean C.F.S.	Runoff A.F.	Peak Flows Month	Peak Flows Day	Peak Flows Flow C.F.S.
F81D-R	ALHAMBRA WASH	near Short Street	893.	0	8.38	6070.	3	4	4480.
F152R	ALISO WASH	at Nordhoff Street	449.	0	3.66	2640.	1	22	1750.
U1R	ARROYO SECO	near Pasadena	1760.	0.4	29.4	21260.	1	23	5660.
P277R	ARROYO SECO	below Devils Gate Dam	3190.	0	33.0	23920.	1	23	5640.
F38B-R	BALLONA CREEK	at Sawtelle Boulevard	4840.	2.6	47.3	34240.	1	22	13210.
F120R	BIG DALTON CREEK	below Big Dalton Dam	103.	0	4.40	3180.	3	4	111.
U9R	DALTON CREEK	near Glendora	155.	0	4.37	3170.	1	24	277.
F274R	DALTON WASH	at Merced Avenue	336.	0	4.83	3500.	1	22	1230.
F111B-R	BIG TUJUNGA CREEK	above Edison Road	4510.	0.8	61.7	44670.	1	23	14770.
F168R	BIG TUJUNGA CREEK	below Big Tujunga Dam No. 1	6640.	0.2	73.1	52910.	1	23	17670.
F213R	BIG TUJUNGA CREEK	above Gold Canyon	8000.	1.2	105.	76020.	1	23	23000.
F20B-R	TUJUNGA WASH	at Glenoaks Boulevard	1610.	0	92.5	66970.	1	23	1780.
F105R	TUJUNGA WASH	at Magnolia Boulevard	140.	+	0.98	708.	1	22	1350.
F106R	TUJUNGA WASH CENTRAL BRANCH	at Magnolia Boulevard	1220.	0	30.3	21920.	1	24	1460.
F270R	CALABASAS CREEK	at Ventura Boulevard	60.	0	+	402.	1	23	445.
F37B-R	COMPTON CREEK	at Greenleaf Drive	752.	0.8	11.8	8560.	3	4	2360.
F41C-R	COYOTE CREEK	at Del Amo Street	1030.	0	16.7	12070.	1	23	1478.
F265R	DOMINGUEZ CHANNEL	at Carson Boulevard	614.	2.0	16.8	12200.	1	23	706.
F53R	DUME CREEK	at Roosevelt Highway	666.	0	4.17	3020.	1	22	1440.
U2R	EATON CREEK	near Pasadena	432.	0	9.60	6950.	1	23	813.
F271R	EATON WASH	below Eaton Wash Dam	663.	0	8.84	6400.	1	23	1080.
F104R	EATON WASH	at Ellis Lane	885.	0	9.82	7100.	1	23	2280.
U7R	FISH CREEK	near Duarte	874.	0.1	14.8	10720.	1	23	2100.
U12R	HAINES CREEK	near Tujunga	35.	+	0.51	371.	1	23	142.
F149R	LIMEKILN CREEK	at Devonshire Avenue	60.	0	0.85	619.	1	22	300.
F65B-R	LITTLE DALTON CREEK	above Mouth of Canyon	76.	0	2.64	1910.	1	23	182.
L1R	LITTLE ROCK CREEK	above Little Rock Dam	2730.	0	49.5	35870.	1	23	5700.
U3R	LITTLE SANTA ANITA CREEK	near Sierra Madre	95.	0.1	3.64	2630.	3	4	324.
F67B-R	LITTLE SANTA ANITA CREEK	below Sierra Madre Dam	208.	0	5.26	3810.	1	23	533.
F267R	LITTLE SANTA ANITA CREEK	at Woodland Avenue	216.	0	3.43	2480.	1	23	542.
F19R	LITTLE TUJUNGA WASH	at Foothill Boulevard	592.	0	10.2	7380.	1	23	3700.
F31R	LIVE OAK CREEK	near Mouth of Canyon	35.	0	1.14	822.	1	23	54.
F5B-R	LOS ANGELES RIVER	below Sepulveda Boulevard	2370.	5.	45.7	33070.	1	23	2710.
F266R	LOS ANGELES RIVER	at Mariposa Street	4440.	11.	136.	97060.	1	23	7580.
F57C-R	LOS ANGELES RIVER	above Arroyo Seco	7120.	15.	172.	124400.	1	23	23880.
F34B-R	LOS ANGELES RIVER	at Firestone Boulevard	10710.	18.	268.	193700.	1	23	27480.
F180R	LOS ANGELES RIVER	at Pacific Coast Highway	18060.	28.	366.	264900.	1	23	37880.
F130R	MALIBU CREEK	at Crater Camp	5370.	0.1	65.8	47600.	1	22	12240.
F22R	MONROVIA CREEK	above Sawpit Creek	95.	+	1.75	1270.			N.D.
F195R	MONROVIA STORM DRAIN	at Peck Road	147.	0	1.18	855.	2	22	717.
F181R	MONTEBELLO STORM DRAIN	at Outlet into Rio Hondo	300.	0.1	3.60	2580.			N.D.
F118B-R	PACOIMA CREEK FLUME	below Pacoima Dam	576.	0	28.2	20400.	1	23	598.
F16R	PACOIMA WASH	at Parthenia Street	431.	0	9.24	6683.	1	22	843.
F40R	PUDDINGSTONE CREEK	below Puddingstone Dam	141.	0.05	4.23	3060.	3	4	287.
F192R	RIO HONDO	at Lower Azusa Road	1300.	0	14.7	10680.	1	23	3500.
F64R	RIO HONDO	above Mission Bridge	4650.	20.	82.2	59470.	1	23	13190.
F45R	RIO HONDO	at Stewart and Gray Road	4660.	0	57.9	41910.	1	23	11825.
F83R	RIO HONDO SLOUGH	at San Gabriel Boulevard	101.	19.	24.0	17410.	1	22	252.
U14R	ROCK CREEK	near Valyermo	1380.	3.6	42.5	30740.	1	23	3040.
U6R	ROGERS CREEK	near Azusa	684.	0	12.8	9290.	1	23	1700.
F82C-R	RUBIO WASH	at Glendon Way	697.	0	6.23	4520.	3	4	2780.
U15R	SAN ANTONIO WASH	near Claremont	606.	1.3	30.5	22050.	1	23	2100.
F151R	SAN ANTONIO CREEK	at Mouth of Canyon	1280.	0	41.4	29990.	1	23	3000.
U10R	SAN DIMAS CREEK	near Glendora	828.	0.1	14.9	10770.	1	23	1970.
F209R	SAN GABRIEL RIVER - WEST FORK	below San Gabriel Dam No. 2	4780.	0.6	75.9	54930.	1	23	7300.
P3R	SAN GABRIEL RIVER - WEST FORK	above Forks	9820.	6.5	211.	153000.	1	23	20000.
P4B-R	SAN GABRIEL RIVER - EAST FORK	above Forks	5800.	11.	160.	116100.	1	23	25000.
F250R	SAN GABRIEL - AZUSA CONDUIT	at Weir below San Gabriel Dam No. 1	106.	0	44.6	32250.	5	24	127.
F220R	SAN GABRIEL - AZUSA CONDUIT	at Garcia Canyon	94.	0.1	36.6	26510.	5	4	94.
U8R	SAN GABRIEL RIVER	near Azusa	10370.	2.1	334.	242000.	1	23	12100.
S100A-R	SAN GABRIEL - AZUSA DUARTE TUNNEL DIV.	at Mouth of Canyon	68.9	0	14.8	10720.	-	-	-
F190R	SAN GABRIEL RIVER	at Foothill Boulevard	10400.	0	318.	230200.	1	23	11400.
F261B-R	SAN GABRIEL RIVER	at Valley Boulevard	8000.	0	221.	160300.	1	23	9350.
F263R	SAN GABRIEL RIVER	at Beverly Boulevard	10500.	0	289.	209580.	1	23	14810.
F262R	SAN GABRIEL RIVER	at Florence Avenue	9190.	0	257.	186420.	1	23	14000.
F42R	SAN GABRIEL RIVER	at Spring Street, Long Beach	9570.	0	280.	175100.	1	23	14600.
F48R	SAN JOSE CREEK	at Workman Mill Road	2740.	1.4	28.3	20473.	1	23	8040.
U4R	SANTA ANITA CREEK	near Sierra Madre	912.	0.4	23.0	16640.	1	23	2530.
F260B-R	SANTA ANITA WASH	at Foothill Boulevard	2130.	0	29.9	21670.	1	23	3800.
F92B-R	SANTA CLARA RIVER	at Highway 99	5420.	1.4	65.2	47170.	1	23	15040.
F278R	SAWPIT CREEK	below Sawpit Dam	186.	0	3.95	2860.	1	23	284.
U5R	SAWPIT CREEK	near Monrovia	207.	0	5.21	3780.	1	23	441.
F185R	SEPULVEDA CREEK	at Charnock Road	740.	+	6.30	4560.	1	22	2220.
F43R	SYCAMORE UPPER STORM DRAIN	above Solway Street	90.	0	1.57	1140.	1	22	340.
F44R	SYCAMORE LOWER STORM DRAIN	at Adams Square	205.	+	3.02	2180.	1	22	757.
F276R	THOMPSON CREEK SPREADING GROUNDS INTAKE	at Thompson Creek Dam	14.	0	0.44	317.	2	24	21.
F54B-R	TOPANGA CREEK	above Mouth of Canyon	1110.	+	12.0	8720.	1	22	2200.
F252R	VERDUGO CHANNEL	at Estelle Avenue	1020.	0.3	12.0	8690.	1	23	3570.
F47R	WALNUT CREEK	at Covina Boulevard	1190.	0	14.0	10140.	1	23	4380.

Legend

N.D. = Not Determined
\+ = 0.05 c.f.s. or less

DAM OPERATION RECORDS

DAMS AND DEBRIS BASINS

FOREWORD

The District operated and maintained fourteen dams, three debris dams, and sixteen debris basins during the 1942-43 water year. In addition, Hansen Dam on Tujunga Wash, Sepulveda Dam on the Los Angeles River, partially completed Santa Fe Dam on the San Gabriel River and Rio Hondo together with Haines Debris Basin were operated and maintained by the United States Engineer Department for the purpose of flood control. Rubio Diversion-Rubio Debris Dam above Altadena was under construction by the District in June 1943. Pertinent data relative to the District's flood control and water conservation dams, debris dams, and debris basins are presented in the three following tables.

Table I.
Flood Control and Water Conservation Dams

	Dam	Date of Completion	Drainage Area Sq. Mi.	Original Storage at Spwy.- A.F.	Latest Storage at Spwy.- A.F.	Date of Survey
1	Pacoima	Feb. 1929	27.8	6060	4837	Oct. 1942
2	Big Tujunga	July 1931	81.4	6240	4236	Apr. 1943
3	Devils Gate	June 1920	31.9	4554	2504	Dec. 1943
4	Eaton Wash	Feb. 1937	9.5	956	722	June 1942
5	Big Santa Anita	Mar. 1927	10.8	1376	568	Mar. 1943
6	Sawpit	June 1927	3.3	476	322	Dec. 1943
7	San Gabriel #2	Apr. 1934	40.4	12298	10915	Nov. 1941
8	San Gabriel #1	July 1939	°161.6	53344	45759	Oct. 1942
9	Big Dalton	Aug. 1929	4.5	1290	953	Sept. 1943
10	San Dimas	Sept. 1922	16.2	1496	1071	Oct. 1943
11	ƒPuddingstone Div.	July 1928	2.6	148	101	Oct. 1942
12	Puddingstone	Jan. 1928	°°11.0	17398	17190	Jan. 1941
13	Live Oak	Nov. 1922	2.3	250	228	May 1936
14	Thompson Creek	Mar. 1928	3.7	812	612	Jan. 1943
	Total		407.0	106698	90018	

ƒ Temporary storage. Functions to divert flow.
° Exclusive of drainage area above San Gabriel Dam #2.
°°Exclusive of drainage area above Live Oak, San Dimas, and Puddingstone Diversion Dams.

Table II
Debris Dams

	Debris Dam	Date of Completion	Drainage Area Sq. Mi.	Max. Debris Capacity Cu. Yds.	Capacity at beginning of 1942-43 season Cu. Yds.	Approx. Debris Inflow 1942-43 Season Cu.Yds
1	Sunset Canyon	Nov. 1929	0.4	17500	14200	1000
2	Sierra Madre	Feb. 1928	2.4	88700	55000	6500
3	Verdugo	Mar. 1935	°10.6	185000	172000	98800
	Total		13.4	291200	241200	106300

°Exclusive of drainage areas above Dunsmuir, Shields, Eagle Goss, Pickens, Snover, and Hall Beckley Debris Basins.

Table III
Debris Basins

	Debris Basin	Date of Completion	Drainage Area Sq. Mi.	Max. Debris Capacity Cu. Yds.	Capacity at beginning of 1942-43 season Cu. Yds.	Approx. Debris Inflow 1942-43 Season Cu. Yds.
1	Aliso Wilbur	June 5, 1942	8.63	52650	52600	44200
2	Nichols	Nov. 23, 1937	0.94	32200	20820	3000
3	Stough	Jan. 23, 1941	1.65	96200	87600	4900
4	Brand	Nov. 12, 1935	1.03	72500	71400	3100
5	Dunsmuir	°Oct. 14, 1936	0.84	122200	108530	14000
6	Shields	°Jan. 11, 1937	0.27	46650	41200	7900
7	Eagle Goss	Oct. 20, 1936	0.61	71900	47630	15400
8	Pickens	°Nov. 14, 1935	1.84	116400	116300	53600
9	Snover	°Feb. 16, 1937	0.23	34800	29270	5900
10	Hall Beckley	°Nov. 22, 1935	1.06	89300	88440	48300
11	Hay	Oct. 20, 1936	0.20	39750	39750	3100
12	Lincoln	Jan. 17, 1936	0.50	40800	40790	10400
13	West Ravine	Dec. 10, 1935	0.25	49600	49600	8200
14	Fern	Dec. 5, 1935	0.30	32900	32910	10600
15	Fair Oaks	Dec. 29, 1935	0.21	28470	28460	3200
16	Las Flores	Apr. 15, 1936	0.42	48900	43600	10100
	Total		18.98	975220	898900	245900

°indicates revised dates corrected in this report.

PURPOSE°

Dams in the Los Angeles County Flood Control District serve two purposes, the primary purpose being flood control, the secondary, conservation. Proper flood control operation precludes any appreciable conservation storage during the storm season as flood control obviously demands that a maximum amount of storage capacity be kept in reserve. However, regulated flood releases restricted to available natural channel capacities permit a maximum amount of percolation in the pervious areas.

OPERATION°

Due to certain inadequate and unimproved channels in the valley reaches below the dams, careful flood regulation is necessary for moderate as well as large storms in order to hold damage to a minimum below the mountain drainage areas. The major portion of available storage is kept in reserve during the winter season to enable the District to store or detain peak flood flows until valley runoff has receded sufficiently to allow the discharging of the storm waters from the dams. If meteorological conditions permit, it is sometimes possible to temporarily store such storm water for release after cessation of a storm at such rates as will percolate in the existing channels and spreading grounds downstream. The storage of inflows is usually commenced when the threat of the winter flood season is passed. Water stored in this manner is conserved primarily for use as a gravity supply to satisfy irrigation and water rights requirements.

Reclaiming of valuable storage capacity is effected by sluicing the District reservoirs to the limit of available and safe channel capacity below the dams.

During the season, sluicing was carried on at Big Tujunga, Eaton, Devils Gate, Sawpit, Sierra Madre, San Gabriel No. 1, and Santa Anita Dams. A total of 775 acre feet of silt was moved out of the reservoirs at an average estimated cost of $0.038 per cubic yard. The greatest quantity of debris moved, 400 acre feet, was at San Gabriel Dam #1. This was effected at an estimated cost of $0.0211 per cubic yard.

RECORDS

The daily storage and flow records at fourteen of the District dams are summarized on the Dam Operation Record sheets. The sheets show:

1. Reservoir water surface elevations based on the U.S.G.S.

°The detailed explanation of "Purpose" and "Operation" of the District's dams is presented for the benefit of those readers outside the District personnel who are not familiar with these items.

datum used for the design and construction of the dam. Water stage recorder graphs or interpolations from staff gage readings are obtained and recorded as of midnight of each day.

2. Storages in acre feet based on topographic surveys taken following important changes in reservoir beds. These changes consist primarily of debris inflow during large storms and debris removal by sluicing or mechanical means.

3. Inflows in cubic feet per second are usually determined from storage change and known outflow. When outflow is not determined, the inflow may be determined from gaging station records or interpolated between measurements.

4. Outflows in cubic feet per second as mean daily valve and/or spillway discharge. These are determined from gaging station records, known valve openings and rating curves, or from storage change and known inflow.

5. In some instances, total monthly and yearly evaporation and percolation losses have been computed and indicated on the Dam Operation Records. Discrepancies between outflow and storage losses at certain dams were attributed to percolation and evaporation losses and are shown as total monthly and yearly losses. For San Gabriel Dam No. 1 reservoir, total monthly evaporation losses are shown as determined from measurements made on a floating evaporation pan. In those cases where no allowances were made for evaporation the amounts are necessarily included in the flow values.

Accuracy of the flow records computed from storage records is dependent on the frequency with which storage is revised to keep in step with physical change in reservoirs. Percentage of error is in direct proportion to the error in water surface areas through the range at which the flows were computed.

RUNOFF AND OPERATION SUMMARY

A summary table showing total annual inflow, outflows, storages, and extremes for each of the fourteen District dams during the 1942-43 water year is included in this report on page 225.

The operation of the District's dams for the storm of January 21-23, 1943, is summarized in the following table:

TABLE IV

SUMMARY OF DAM OPERATION DURING STORM OF JANUARY 21-23, 1943

Dam	Total Storage at Spillway Elevation A.F.	Storage in Reservoir at Beginning of Storm A.F.	Percentage of Storage Available at Beginning of Storm	Maximum 24 Hour Runoff A.F.	Ratio of Maximum 24 Hour Runoff to Reservoir Capacity at Spillway Elevation	Peak Inflow Sec. Ft.	Peak Outflow Sec. Ft.	Percent Reduction	Delay Between Peak Inflow and Peak Outflow
Pacoima	4837.0	0.6	100	2808	0.6	2651	598	77.5	240 min.
Big Tujunga	4424.7	373.1	91.6	14918	3.4	17850	17670	1.1	15 min.
Devils Gate	2728.3	0.5	100	6733	2.5	7740	5530	28.6	90 min.
Eaton	721.6	0	100	1400	1.9	1700	1100	35.3	50 min.
Santa Anita	710.4	52.5	92.6	3139	4.4	3100	3060	1.2	0 min.
Sawpit	342.3	0	100	493	1.4	520	284	45.4	165 min.
San Gabriel No. 2	10915.	101.2	99.1	11809	1.1	15000	7100	52.7	20 min.
San Gabriel No. 1	45759.	475.	99.0	39222	0.9	46000	10360	77.5	100 min.
Big Dalton	968.7	0	100	392	0.4	595	25	95.8	17.5 min.
San Dimas	1145.4	118.2	89.7	1441	1.3	1700	1230	27.6	50 min.
Puddingstone Diversion	101.1	0	100	2075	20.5	2045	2035*	0.5	0 min.
Puddingstone	17190.	3924.9	77.2	2715	0.2	2300	0	100.0	-
Live Oak	227.5	0	100	196	0.7	170	50	70.6	9 hrs.
Thompson Creek	639.8	0	100	281	0.4	270	0	100.0	-

*Diverted to Puddingstone Reservoir

No release was made to San Dimas Wash during the storm period since all the water was diverted to Puddingstone Diversion reservoir. Consequently, the actual peak reduction from San Dimas Canyon was 100 percent. Since risers have been installed on the outlets at six of the dams following the 1938 storm and the general practice inaugurated of making no releases until the reservoirs have filled from 10 to 25 percent, no difficulty was experienced with outlet operations due to debris encroachment. For the two dams at which water passed over the spillway, Santa Anita and Big Tujunga, the inflow during the 24 hour period of maximum runoff was 4.4 and 3.4 times the reservoir capacity, respectively.

RESPONSIBILITY

Preparation of the operation records was under the supervision of H. A. van der Goot and Paul A. Haig and the direction of Walter J. Wood.

Reservoir operation was under the direction of Finley B. Laverty, Chief - Hydraulic Division. Dam and debris basin maintenance and mechanical operation was under the supervision of R. D. Reeve, Chief - Operation and Maintenance Division.

DAM OPERATION RECORDS

PACOIMA

F. C. Dist. Form 68 Revised 600 5/39

Storages based on composite survey as of October 1942 (Table V)

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, 1943

Continuous Water Stage Recorder Au

Drainage Area 27.8 Square Miles. Capacity of Reservoir 4837.0 Ac. Ft. at Spillway Elev. 1950.0 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	Day
1	1739.5	88.6	0.2	3.5	1772.0	1.1	0.3	0.3	1770.7±	0.2	0.1	+	1770.1±	+	0.2	0.1	1
2	1738.7	82.6	0.2	3.5	1771.9	1.0	0.2	0.3	1771.1±	0.4	0.1	+	1770.9±	0.3	0.2	0.1	2
3	1737.8	76.0	0.2	3.5	1771.8	0.9	0.3	0.3	1771.4	0.6	0.1	+	1771.3	0.5	‡ 0.2	0.1	3
4	1736.9	69.5	0.2	3.4	1771.7	0.9	0.3	0.3	1771.7	0.9	0.1	+	1771.6	0.8	0.2	0.1	4
5	1735.9	62.6	0.3	3.4	1771.7	0.9	0.3	0.3	1771.9	1.0	0.1	+	1772.0	1.1	0.3	0.1	5
6	1735.0	56.6	0.5	3.4	1771.7	0.9	0.3	0.3	1772.2	1.4	0.2	+	1772.3	1.5	0.3	0.1	6
7	1734.1	50.8	0.6	3.4	1771.7	0.9	0.3	0.3	1772.4	1.6	0.1	+	1772.5	1.8	0.2	0.1	7
8	1733.3	45.9	0.6	3.3	1771.6	0.8	0.2	0.3	1772.6	1.9	0.2	0	1772.7	2.0	0.1	+	8
9	1732.4	40.4	0.6	3.3	1771.6	0.8	0.3	0.3	1772.8	2.1	0.1	0	1772.9	2.3	0.2	+	9
10	1731.5	35.2	0.6	3.3	1771.6	0.8	0.3	0.4	1772.9	2.3	0.1	0	1773.1	2.6	0.1	+	10
11	1730.5	29.6	0.5	3.2	1771.6	0.8	0.2	0.2	1773.1	2.6	0.1	0	1773.3	2.9	0.2	+	11
12	1729.5	24.4	0.6	3.1	1771.6	0.8	0.1	0.1	1773.2	2.8	0.1	0	1773.5	3.3	0.2	+	12
13	1728.4	19.1	0.6	3.0	1771.6	0.8	0.1	0.1	1773.4	3.1	0.2	0	1773.7	3.7	0.2	+	13
14	1727.4	14.8	0.6	2.9	1771.6	0.8	0.1	0.1	1773.5	3.3	0.1	0	1773.9	4.0	0.1	0	14
15	1726.5	11.4	0.6	2.7	1771.6	0.8	0.2	+	1773.6	3.5	0.1	0	1774.0	4.2	0.1	0	15
16	1725.6	8.4	0.7	2.3	1771.5	0.7	0.2	0.4	1773.7	3.7	0.1	0	1774.1	4.4	0.1	0	16
17	1724.9	6.4	0.8	2.0	1771.5	0.7	0.2	0.2	1773.9	4.0	0.1	0	1774.3	4.9	0.3	0	17
18	1724.2	4.7	0.8	1.7	1771.7	0.9	0.2	0.1	1774.0	4.2	0.1	0	1774.6	5.6	0.3	0	18
19	1723.9	4.0	0.8	1.2	1771.8	0.9	0.3	0.3	1774.1	4.4	0.1	0	1774.8	6.1	0.3	0	19
20	1723.5	3.3	0.8	0.8	1771.8	0.9	0.2	0.2	1774.2	4.7	0.2	0	1775.0	6.6	0.2	0	20
21	1723.2	2.8	0.6	0.9	1771.8	0.9	0.1	0.1	1774.3	4.9	0.1	0	1775.4	7.8	0.6	+	21
22	1722.9	2.3	0.7	0.9	1771.8	0.9	0.1	0.1	1774.5	5.4	0.2	0	1858.4	1138.6	570.1	+	22
23	1722.8	2.1	0.6	0.8	1759.0	0	0.1	0.5	1774.7	5.9	0.2	0	1907.6	2670.2	1246.2	474.0	23
24	1722.3	1.5	0.6	0.8	1760.6	+	0.1	0.1	1774.8	6.1	0.2	0	1895.8	2223.7	350.9	576.0	24
25	1722.1	1.2	0.6	0.8	1762.3	+	* 0.2	10.5	1775.0	6.6	0.2	0	1847.3	1936.7	165.3	310.0	25
26	1722.3	1.5	* 0.5	0.6	1763.9	+	0.1	0.1	1775.1	6.9	0.2	0	1876.4	1605.2	138.9	306.0	26
27	1722.7	2.0	0.4	0.2	1765.5	Sluiced +	0.1	0.1	1775.3	7.5	0.3	0	1872.3	1490.3	102.1	160.0	27
28	1722.5	1.8	0.4	0.2	1766.9	+	0.1	0.1	1761.0‡	0	* 7.3	11.4	1870.8	1449.6	73.4	94.0	28
29	1722.3	1.5	0.4	0.5	1768.3	+	0.1	+	1763.8‡	+	0.2	0.1	1866.6	1339.4	68.5	124.0	29
30	1722.1	1.2	0.4	0.6	1769.6	+	0.1	+	1765.3‡	+	0.2	0.1	1863.9	1271.2	99.6	134.0	30
31	1722.0	1.1	0.4	0.4					1768.5‡	+	0.2	0.1	1868.9	1399.1	153.5	89.0	31
TOTAL			16.4	63.6			15.8	16.4			11.7	11.7			2973.1	2267.7	
Inf. Ac. Ft.			32.5				31.3				23.2				5897.1	5984.1	
Outf. Ac. Ft.				126.1				32.5				23.2			4497.9	4679.7	
Maximum Mean Daily Inflow			0.8				10.2				7.3				1246.2	1246.2	
Minimum Mean Daily Inflow			0.2				0.1				0.1				0.1	0.1	
Storage Change		- 93.7				- 11				0.0				+ 1399.1		+ 1304.3	

REMARKS

½ Year

Max. W. S. Elev.	1907.9	feet on	1-23-43	Storage	2682.2	Acre Feet	
Min. W. S. Elev.	1759.0‡	feet on	11-23-42	Storage	0	Acre Feet	
Max. Peak Inf.	2651	C.F.S. from	3:00 A.M. on 1-23-43	to	4:00 A.M. on	1-23-43	
Max. Peak Outf.	598	C.F.S. from	6:00 P.M. on 1-23-43	to	12:00 P.M. on	1-23-43	

RECORDS COLLECTED BY

L. L. Moore	Dam Tender	
J. W. Luce	Hydrographer	
	Hydrographer	

COMPUTATIONS Date

Gage Hts. copied	H. A. V. 6-9-43
Storage applied	H. A. V.
Inf. & Outf. computed	H.A.V. 2-11-44
Checked	

Gage heights and storages as of midnight on day shown.

* = Flow bulked by storage below mud level.
{ = Mean for period.
+ = Negligible flow.

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, 1943

Continuous Water Stage Recorder Au

Drainage Area 27.8 Square Miles. Capacity of Reservoir 4837.0 Ac. Ft. at Spillway Elev. 1950.0 Ft. Gage Heights Read Daily

Day	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	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	Day
1	1871.3	1463.1	123.3	91.0	1869.0	1992.0	106.0	111.0	1839.9	2021.7	34.3	41.0	1865.6	1313.9	15.8	39.0	1
2	1872.4	1493.1	104.1	89.0	1868.8	1955.5	93.7	97.0	1839.5	2008.5	33.3	40.0	1863.7	1266.3	15.0	39.0	2
3	1872.7	1501.3	90.1	86.0	1865.4	1876.0	140.8	196.0	1838.9	1988.7	31.1	41.0	1861.8	1219.7	15.5	39.0	3
4	1872.3	1490.3	75.5	81.0	1860.5	2008.5	363.8	302.0	1838.3	1969.1	31.1	41.0	1859.9	1173.9	15.9	39.0	4
5	1871.3	1463.1	66.3	80.0	1893.5	2143.4	406.0	338.0	1838.4	1972.4	33.6	32.0	1858.0	1129.2	[16.4	39.0	5
6	1868.5	1388.6	57.4	95.0	1895.6	2216.7	324.0	267.0	1890.6	2045.0	36.6	+	1855.9	1000.9	14.7	39.0	6
7	1864.6	1288.7	56.6	107.0	1896.1	2234.4	290.9	272.0	1891.1	2061.7	32.5	24.0	1854.6	1051.6	1 14.0	c 28.5	7
8	1863.0	1249.0	68.0	88.0	1893.2	2133.0	238.9	290.0	1890.9	2055.0	37.6	41.0	1854.3	1044.9	1 13.3	c 16.7	8
9	1858.3	1136.2	48.2	105.0	1887.5	1943.2	225.3	321.0	1890.5	2041.7	34.3	41.0	1854.0	1038.2	1 12.6	c 15.9	9
10	1853.0	1016.1	44.4	105.0	1881.1	1930.2	180.5	197.0	1890.0	2025.0	32.6	41.0	1853.9	1036.0	1 12.0	c 13.1	10
11	1847.3	895.4	41.2	102.0	1869.1	1995.3	144.8	112.0	1839.3	2001.9	28.3	40.0	1854.0	1038.2	[12.0	10.3	11
12	1841.2	775.9	34.7	95.0	1890.3	2028.3	127.6	111.0	1838.7	1982.2	30.1	40.0	1854.2	1042.7	[12.0	10.3	12
13	1841.2	775.9	36.0	36.0	1890.5	2035.0	113.4	110.0	1838.0	1959.3	25.4	37.0	1854.3	1044.9	[12.0	10.3	13
14	1840.6	768.3	28.2	32.0	1889.6	2018.4	100.6	109.0	1837.3	1936.7	25.6	37.0	1854.5	1049.4	[11.9	10.3	14
15	1840.7	766.5	28.1	29.0	1888.9	1998.7	95.0	110.0	1836.7	1917.4	24.5	34.0	1854.7	1053.9	[11.9	9.6	15
16	1840.7	766.5	26.0	26.0	1887.6	1946.4	88.7	110.0	1836.0	1895.0	22.7	34.0	1854.9	1058.4	[10.5	8.3	16
17	1840.7	766.5	23.0	23.0	1886.0	1895.0	82.1	108.0	1835.3	1872.9	22.9	34.0	1854.8	1056.1	[8.5	9.6	17
18	1840.8	768.3	20.8	19.9	1885.4	1876.0	76.4	86.0	1834.3	1841.5	22.1	38.0	1854.7	1053.9	[8.5	9.6	18
19	1841.4	779.7	21.1	15.4	1886.9	1923.8	69.1	44.0	1833.1	1804.3	22.3	41.0	1854.5	1049.4	[8.1	9.0	19
20	1842.0	791.1	18.9	13.1	1888.1	1962.6	63.6	44.0	1831.9	1767.6	22.5	41.0	1854.4	1047.2	[8.1	9.0	20
21	1844.9	847.3	28.3	+	1889.0	1992.0	59.8	44.0	1830.7	1731.3	22.7	41.0	1854.3	1044.9	[8.0	9.0	21
22	1854.1	1040.4	97.4	+	1890.0	2025.0	60.6	44.0	1879.4	1692.5	21.4	41.0	1854.3	1044.9	[8.0	8.3	22
23	1860.4	1185.9	172.3	99.0	1890.4	2039.3	50.8	44.0	1878.1	1654.3	21.6	41.0	1854.4	1047.2	[8.0	7.6	23
24	1875.6	1582.3	298.9	99.0	1890.7	2043.3	49.0	44.0	1876.7	1613.8	20.5	41.0	1854.5	1049.4	[8.0	7.6	24
25	1882.6	1749.0	228.2	124.0	1890.8	2051.6	44.7	43.0	1875.2	1571.0	19.4	40.0	1854.6	1051.6	[8.2	7.6	25
26	1886.6	1914.2	173.1	110.0	1890.9	2055.0	42.7	41.0	1873.8	1531.7	19.3	40.0	1854.6	1051.6	[8.1	7.6	26
27	1888.6	1978.9	143.6	111.0	1891.0	2058.3	42.6	41.0	1872.2	1487.6	18.7	40.0	1854.7	1053.9	[7.6	7.6	27
28	1889.3	2001.9	122.6	111.0	1890.9	2055.0	38.4	40.0	1870.7	1447.0	18.6	40.0	1854.8	1056.1	[7.6	7.6	28
29					1890.6	2045.0	33.9	39.0	1869.1	1404.4	17.5	39.0	1854.8	1056.1	[7.6	7.0	29
30					1890.6	2045.0	36.0	36.0	1867.4	1360.0	16.6	39.0	1854.8	1056.1	[7.5	7.0	30
31					1890.3	2035.0	36.0	41.0					1854.8	1056.1	[7.5	6.3	31
TOTAL			2276.3	1972.4			3818.7	3802.0			779.7	1120.0			334.6	408.0	
Inf. Ac. Ft.			4515.0				7574.3				1546.5				664.1	2028.4	
Outf. Ac. Ft.				3912.2				7541.2				2221.5			967.9	1932.5	
Maximum Mean Daily Inflow			298.9				406.0				37.6				16.4	12.6	
Minimum Mean Daily Inflow			18.9				33.9				16.6				7.5	0.1	
Storage Change		+ 602.8				+ 33.1				- 675.0				- 303.9		+ 961.3	

REMARKS

⅔ Year

Max. W. S. Elev.	1907.9	feet on	1-23-43	Storage	2682.2	Acre Feet	
Min. W. S. Elev.	1759.0‡	feet on	11-23-42	Storage	0	Acre Feet	
Max. Peak Inf.	2651	C.F.S. from	3:00 A.M. on 1-23-43	to	4:00 A.M. on	1-23-43	
Max. Peak Outf.	598	C.F.S. from	6:00 P.M. on 1-23-43	to	12:00 P.M. on	1-23-43	

RECORDS COLLECTED BY

L. L. Moore	Dam Tender	
J. W. Luce	Hydrographer	
	Hydrographer	

COMPUTATIONS EWG Date 11-22-43

Gage Hts. copied	H.A.V. 6-9-43
Storage applied	H. A. V.
Inf. & Outf. computed	
Checked	P.H. 3-14-44

Gage heights and storages as of midnight on day shown.

1 = Interpolated
c = Computed from storage change.
{ = Mean for Period.

F. C. Dist. Form 66 Revised 000 5/29

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, 1943

Continuous Water Stage Recorder Au

Drainage Area 27.8 Square Miles. Capacity of Reservoir 4837.0 Ac. Ft. at Spillway Elev. 1950.0 Ft. Gage Heights Read Daily

Day	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	1854.6	1056.1	6.8	6.3	1850.5	962.1	2.4	5.7	1848.6	922.1	0.9	7.7	1837.8	712.7	0.6	0	1
2	1854.9	1058.4	6.6	6.3	1850.1	953.5	2.1	5.7	1847.9	907.7	0.9	7.7	1837.8	712.7	0.6	0	2
3	1855.0	1060.6	6.8	6.3	1849.8	947.2	1.8	5.5	1847.2	893.4	0.9	7.7	1837.9	714.5	0.7	0	3
4	1855.0	1060.6	6.7	6.3	1849.5	940.9	1.6	5.3	1846.6	881.3	0.9	7.7	1837.7	710.8	1 0.6	o 2.5	4
5	1855.0	1060.6	6.7	6.3	1849.2	934.6	1.5	5.1	1846.0	869.2	0.9	7.7	1836.9	696.3	1 0.6	7.3	5
6	1855.0	1060.6	5.2	5.7	1848.9	928.3	1.4	4.8	1845.3	855.3 1	0.8	7.2	1836.2	683.6	1 0.6	o 7.3	6
7	1855.0	1060.6	6.0	5.7	1848.5	920.1	1.3	4.5	1844.7	843.4 1	0.8	7.1	1835.5	671.1	1 0.6	7.2	7
8	1855.0	1060.6	5.8	5.7	1848.2	913.8	1.2	4.1	1844.0	829.7 1	0.8 o	7.1	1834.7	656.8	1 0.6	7.7	8
9	1854.9	1058.4	5.5	5.7	1847.8	905.6	1.1	3.6	1843.4	818.1 1	0.8	7.1	1833.9	642.7	1 0.6	7.7	9
10	1854.6	1056.1	5.4	5.7	1847.7	903.6	1.0	2.7	1842.8	806.5 1	0.8	7.1	1833.1	628.7	1 0.6	7.7	10
11	1854.8	1056.1	5.4	5.7	1847.8	905.6	1.0	0	1842.1	793.0 1	0.7	7.2	1832.2	613.0	1 0.6	o 7.7	11
12	1854.8	1056.1	5.3	5.7	1847.8	905.6	1.0	0	1841.5	781.6 1	0.7 o	7.1	1831.4	599.2	1 0.6	7.7	12
13	1854.8	1056.1	5.1	5.7	1847.9	907.7	1.0	0	1840.8	768.3 1	0.7	7.1	1830.6	585.5	1 0.6	7.7	13
14	1854.8	1056.1	4.9	6.3	1848.0	909.7	0.9	0	1840.4	760.8 1	0.7 o	4.2	1829.8	571.9	1 0.6	7.7	14
15	1854.6	1051.6	4.7	7.0	1848.1	911.8	0.9	0	1840.5	762.7 1	0.7	0	1829.0	558.5	1 0.6	7.7	15
16	1854.4	1047.2	4.3	7.0	1848.2	913.8	0.9	0	1840.6	764.6 1	0.6 o	0	1828.1	543.6	1 0.6	7.5	16
17	1854.2	1042.7	4.0	6.3	1848.3	915.9	0.9	0	1840.4	760.8 1	0.6	2.2	1827.3	530.5	1 0.6	7.5	17
18	1854.0	1038.2	3.7	5.5	1848.4	918.0	0.9	0	1839.7	747.7 1	0.6	7.6	1826.5	517.6	1 0.6	o 7.4	18
19	1853.8	1033.8	3.5	5.5	1848.5	920.1	0.9	0	1838.9	732.9 1	0.6	7.6	1825.6	503.2	1 0.6	7.4	19
20	1853.6	1029.4	3.3	5.7	1848.6	922.1	0.9	0	1838.1	718.1 1	0.6	7.6	1824.8	490.6	1 0.6	7.4	20
21	1853.3	1022.7	3.2	5.9	1848.7	924.2	0.9	0	1837.4	705.4 1	0.6	7.5	1823.9	476.6	1 0.6	7.4	21
22	1853.0	1016.1	2.9	6.0	1848.8	926.3	0.9	0	1837.2	701.7 1	0.6	2.5	1823.1	464.3	1 0.6	o 7.3	22
23	1852.8	1011.7	2.9	6.0	1848.9	928.3	0.9	0	1837.3	703.6	0.6	0	1822.2	450.7	1 0.6	7.2	23
24	1852.5	1005.2	2.9	6.1	1849.0	930.4	0.9	0	1837.3	703.6	0.5	0	1821.4	438.8	1 0.6	o 6.6	24
25	1852.2	998.7	2.8	6.1	1849.1	932.5	0.9	0	1837.4	705.4	0.5	0	1820.7	428.5	1 0.6	o 5.8	25
26	1851.9	992.1	2.7	6.1	1849.2	934.6	0.9	0	1837.4	705.4	0.5	0	1820.0	418.3	0.6	5.0	26
27	1851.5	983.5	2.7	6.1	1849.2	934.6	0.9	0	1837.5	707.2	0.5	0	1819.3	408.2	0.6	5.0	27
28	1851.2	977.0	2.7	6.1	1849.3	936.7	0.9	0	1837.5	707.2	0.5	0	1818.6	398.3	0.6	5.0	28
29	1851.0	972.7	2.7	5.9	1849.4	938.8	0.9	0	1837.6	709.0	0.5	0	1817.9	388.4	0.6	4.9	29
30	1850.7	966.3	2.7	5.7	1849.4	938.8	0.9	0	1837.6	709.0	0.5	0	1817.7	385.7	0.7	4.8	30
31					1849.3	936.7	0.9	2.5	1837.7	710.8	0.5	6					31
TOTAL			135.1	180.4			34.6	49.5			20.8	134.7			18.2	182.1	
Inf. Ac. Ft.			268.0				68.6				41.3				36.1	206.9.0	
Outf. Ac. Ft.				357.8				98.2				267.2			36.2	204.06.9	
Maximum Mean Daily Inflow			6.8				2.4				0.9				0.7	12.46.2	
Minimum Mean Daily Inflow			2.7				0.9				0.5				0.6	0.1	
Storage Change		-39.6				-29.6				-22.5.9				-32.5.1		+29.0.9	
REMARKS																Yearly Totals	

Max. W. S. Elev.	1907.9	feet on 1-23-43	Storage 2682.2	Acre Feet		
Min. W. S. Elev.	1759.0±	feet on 11-23-42	Storage 0	Acre Feet		
Max. Peak Inf.	2651	C.F.S. from 3:00 A.M. on 1-23-43	to 4:00 A.M. on	1-23-43		
Max. Peak Outf.	598	C.F.S. from 6:00 P.M. on 1-23-43	to 12:00 P.M. on	1-23-43		

RECORDS COLLECTED BY

L. L. Moore	Dam Tender	
J. W. Luse	Hydrographer	
	Hydrographer	

COMPUTATIONS Date

Gage Hts. copied	H. A. V.
Storage applied	H. A. V.
Inf. & Outf. computed	H. A. V.
Checked	P. H. 3-14-44

Gage heights and storages as of midnight on day shown.

1 = Interpolated.
o = Computed from storage change.
{ = Mean for period.

BIG TUJUNGA

F. C. Dist. Form 66 Revised 000 5/29

* Storages to January 22 based on L.A.C.F.C.D. survey of July 1941 (Table V) Storages from January 22 based on L.A.C.F.C.D. survey of February 1943 (Table VI)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Big Tujunga Canyon for the Year Ending September 30, 1943

Continuous Water Stage Recorder Au

Drainage Area 81.4 Square Miles. Capacity of Reservoir 4424.7* Ac. Ft. at Spillway Elev. 2290.0 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	Day
1	2198.7	395.7	1.1	17.1	2161.3	230	2.4	0.2	2182.0	166.1	2.7	0.2	2196.1	351.3	3.4	0.2	1
2	2196.9	364.6	1.2	16.7	2162.5	273	2.3	0.2	2182.5	171.4	2.7	0.2	2196.5	358.0	3.4	0.2	2
3	2195.1	334.9	1.2	16.3	2163.5	311	2.3	0.2	2182.9	175.6	2.7	0.2	2196.9	364.6	3.3	0.2	3
4	2193.3	306.9	1.2	15.8	2164.5	352	2.4	0.2	2183.3	179.9	2.7	0.2	2197.2	369.7	3.3	0.2	4
5	2191.4	279.3	1.5	15.4	2165.5	396	2.4	0.2	2183.8	185.3	2.7	0.2	2197.4	373.1 1	3.3	1.6	5
6	2189.5	253.8	1.9	14.9	2166.5	443	2.4	0.2	2184.2	189.8	2.7	0.2	2197.5	374.9	4.3 1	3.4	6
7	2187.5	228.6	1.9	14.5	2167.4	488	2.4	0.2	2184.7	195.4	2.8	0.2	2197.6	376.6	3.9 1	3.4	7
8	2185.6	205.8 1	1.9	13.4	2168.2	531	2.4	0.2	2185.2	201.1	2.8	0.2	2197.6	376.6	3.7 1	3.4	8
9	2182.9	175.6 1	1.9	17.1	2168.9	571	2.4	0.2	2185.7	207.0	2.8	0.2	2197.6	376.6	3.5 1	3.4	9
10	2179.3	139.1 1	1.9	20.3	2169.6	613	2.4	0.2	2186.1	211.7	2.8	0.2	2197.6	376.6 1	3.4	3.4	10
11	2176.2	110.6 1	1.9	16.3	2170.3	656	2.5	0.2	2186.5	216.5	2.8	0.2	2197.4	373.1 1	3.4	5.2	11
12	2175.5	104.6 1	1.9	4.9	2171.0	701	2.5	0.2	2187.0	222.4	2.8	0.2	2197.4	373.1 1	3.4	3.4	12
13	2175.3	102.9	1.9	3.0	2171.6	742	2.5	0.2	2187.4	227.3	2.8	0.2	2197.4	373.1 1	3.4	3.4	13
14	2175.1	101.2	1.9	3.0	2172.2	785	2.5	0.2	2187.8	232.2	2.8	0.2	2197.4	373.1 1	3.4	3.4	14
15	2174.9	99.5	1.9	2.5	2172.8	828	2.5	0.2	2188.2	237.2	2.8	0.2	2197.4	373.1	3.4	3.4	15
16	2174.7	97.8	1.9	2.5	2173.4	874	2.5	0.2	2188.6	242.3	2.8	0.2	2197.4	373.1	3.4	3.4	16
17	2174.4	95.4 1	1.9	3.1	2174.1	929	2.5	0.2	2189.0	247.3	2.7	0.2	2197.4	373.1	3.4	3.4	17
18	2174.2	93.7 1	1.9	2.6	2174.7	978	2.5	0.2	2189.4	252.5	2.8	0.2	2197.4	373.1	3.4	3.4	18
19	2174.0	92.1 1	1.9	2.6	2175.5	1046	3.6	0.2	2189.9	259.0	3.5	0.2	2197.4	373.1	3.4	3.4	19
20	2173.9	91.3 1	1.9	2.6	2176.1	1097	2.8	0.2	2190.3	264.3	2.9	0.2	2197.4	373.1	3.4	3.4	20
21	2172.9	83.6 1	1.9	5.8	2176.7	1150	2.8	0.2	2190.7	269.7	2.9	0.2	2197.8	380.0	5.8	2.3	21
22	2171.5	73.6 1	1.9	6.9	2177.3	1204	2.8	0.2	2191.1	275.1	2.9	0.2	2295.6	@4878.5	3094.0	826.0	22
23	2170.9	69.5 1	1.9	4.0	2177.8	1250	2.8	0.2	2191.6	282.1	3.8	0.2	2268.4	2609.6	569.4.7	6644.0	23
24	2167.2	47.8 1	1.9	12.8	2178.4	1306	2.8	0.2	2192.2	290.6	4.4	0.2	2232.4	1070.7	632.2	1408.0	24
25	2160.8	21.3 1	1.9	15.3	2178.9	1353	3.7	0.2	2193.0	302.3	6.1	0.2	2229.7	996.3	251.5	289.0	25
26	2157.0	10.4 1	1.9	7.4	2179.4	1401	2.7	0.2	2193.5	309.9	4.1	0.2	2229.6	993.6	164.6	166.0	26
27	2158.7	14.9	2.7	0.4	2179.9	1449	2.8	0.2	2194.0	317.5	4.0	0.2	2230.8	1026.1	177.4	161.0	27
28	2160.8	21.3	3.6	0.4	2180.5	1509	2.8	0.2	2194.5	325.4	3.8	0.2	2231.3	1039.8	121.9	o 115.0	28
29	2158.3	13.7	3.8	7.6	2181.0	1558	2.8	0.2	2194.9	331.7	3.8	0.2	2228.1	953.9	94.7	o 138.0	29
30	2158.0	12.9	2.8	3.2	2181.5	1610	2.8	0.2	2195.3	338.2	3.5	0.2	2225.1	877.2	119.3	158.0	30
31	2159.8	18.1	2.8	0.2					2195.7	344.7	3.4	0.2	2226.0	899.9	230.5	219.0	31
TOTAL			61.8	268.6			78.0	6.0			98.8	6.2			1065.6.1	1018.1.5	
Inf. Ac. Ft.			122.6				154.7				196.0				2113.6.1	216.09.4	
Outf. Ac. Ft.				532.8				11.9				12.3			2019.4.7	2075.1.7	
Maximum Mean Daily Inflow			3.8								6.1				569.4.7	569.4.7	
Minimum Mean Daily Inflow			1.1								2.7				33	1.1	
Storage Change		+410.2				+142.9				+183.7				@+555.2		@+471.6	
REMARKS	Outflows based on Sta. 168 except as indicated.															½ Year	

Max. W. S. Elev.	2300.7	feet on 1-23-43	Storage 5321.0	Acre Feet		
Min. W. S. Elev.	2145.0±	feet on 9-17 to 30-43	Storage 0	Acre Feet		
Max. Peak Inf.	17850	C.F.S. from 1:30 A.M. on 1-23-43	to 2:00 A.M. on	1-23-43		
Max. Peak Outf.	17670	C.F.S. from 2:00 A.M. on 1-23-43	to 2:30 A.M. on	1-23-43		

RECORDS COLLECTED BY

D. J. Robertson	Dam Tender	
Lee Turner	Hydrographer	
S. E. Blakely	Hydrographer	

COMPUTATIONS Date

Gage Hts. copied	L. T. & C.C.G.
Storage applied	L. T.
Inf. & Outf. computed	L.T.& HAV
Checked	P.H. 5-10-1944

Gage heights and storages as of midnight on day shown.

1 = Interpolated.
o = Computed.
@ = Debris loss = 386.1 A.F.
{ = Mean for period.

BIG TUJUNGA (CONT.)

F. C. Dist. Form 65 Revised 600 5/39

Storages to March 15 based on L.A.C.F.C.D. survey of February 1943 (Table VI) Storages from April 29 based on L.A.C.F.C.D. survey of April 1943 (Table VII) Intervening storages computed from inflow and outflow records.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Big Tujunga Canyon for the Year Ending September 30, 1943.

Continuous Water Stage Recorder Au

Drainage Area 81.4 Square Miles. Capacity of Reservoir 4043 * Ac. Ft. at Spillway Elev. 2290.0 Ft. Gage Heights Read Daily

Day	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	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	Day
1	2.22 3.5	837.6	142.6	174.0	2.22 5.1	877.2	154.4	661.0	2.14 1.1		76.0	76.0	2.18 8.3	223.4	41.2	0.2	1
2	2.22 6.5	912.7	113.9	76.0	2.20 9.1	515.7	144.8	327.0	2.14 1.0		74.0	74.0	2.19 4.2	299.0	28.3	0.2	2
3	2.23 1.4	1042.6	94.4	29.0	2.19 9.1	334.5	429.6	521.0	2.14 1.0		71.0	71.0	2.19 9.3	376.7	39.4	0.2	3
4	2.23 4.2	1122.9	84.5	44.0	2.23 3.4	1099.4	1495.6	1110.0	2.14 1.0		70.0	70.0	2.20 3.6	452.6	38.4	0.2	4
5	2.23 8.8	1271.0	75.2	0.5	2.24 3.6	1445.7	920.6	746.0	2.14 1.1		79.0	79.0	2.20 7.5	531.7	40.1	0.2	5
6	2.24 2.6	1408.1	69.6	0.5	2.24 2.6	1408.1	566.1	585.0	2.14 1.5		102.0	102.0	2.21 0.9	606.0	37.7	0.2	6
7	2.24 5.8	1530*	62.3	0.5	2.24 4.3	1472.3	426.3	394.0	2.14 1.1		84.0	84.0	2.21 4.2	682.6	38.8	0.2	7
8	2.24 9.7	1689.1	80.4	0.5	2.24 4.6	1483.8	353.8	348.0	2.14 1.1		81.0	81.0	2.21 7.1	753.3	35.8	0.2	8
9	2.25 0.8	1735.8	60.5	37.0	2.24 7.8	1610.5	318.9	255.0	2.14 1.0		78.0	78.0	2.21 9.8	821.7	34.7	0.2	9
10	2.25 0.5	1723.0	55.6	62.0	2.24 5.3	1511.0	272.9	323.0	2.14 1.0		77.0	77.0	2.22 2.3	847.3	33.3	0.2	10
11	2.25 0.6	1727.3	50.1	48.0	2.24 5.7	1526.6	239.8	232.0	2.14 1.0		76.0	76.0	2.22 4.8	956.0	34.8	0.2	11
12	2.25 0.7	1731.5	52.2	50.0	2.24 5.7	1526.6	213.0	213.0	2.14 1.0		74.0	74.0	2.22 7.0	1018.6	31.8	0.2	12
13	2.25 1.3	1757.4	45.0	32.0	2.23 0.7	1023.3	204.3	458.0	2.14 1.0		72.0	72.0	2.22 9.3	1086.4	34.4	0.2	13
14	2.25 0.9	1740.0	40.3	49.0	2.23 0.9	1028.8	181.7	179.0	2.14 1.0		69.0	69.0	2.23 1.4	1150.7	32.6	0.2	14
15	2.25 0.7	1731.5	40.7	45.0	2.19 0.0	207.1	173.0	587.2	2.14 1.0		66.0	66.0	2.23 3.5	1217.7	34.0	0.2	15
16	2.25 0.3	1714.5	38.4	47.0		81.4	1163.0	226.4	2.14 1.0		64.0	64.0	2.23 5.4	1280.6	31.9	0.2	16
17	2.24 9.5	1680.8	35.4	53.0		111.2	154.0	139.0	2.14 1.0		64.0	64.0	2.23 7.3	1346.0	33.2	0.2	17
18	2.24 9.2	1668.2	35.3	41.0		101.2	146.0	151.0	2.14 1.0		63.0	63.0	2.23 9.0	1406.4	30.6	0.2	18
19	2.24 9.4	1676.6	35.2	31.0		109.2	138.0	134.0	2.14 1.0		62.0	62.0	2.24 0.6	1464.8	29.7	0.2	19
20	2.24 9.8	1693.3	36.4	28.0		121.1	130.0	124.0	2.14 1.0		62.0	62.0	2.24 2.1	1521.0	28.5	0.2	20
21	2.25 1.2	1753.0	100.1	70.0		194.5	122.0	85.0	2.14 1.0		59.0	59.0	2.24 3.6	1578.7	29.3	0.2	21
22	2.26 1.0	2218.1	635.5	401.0		186.5	115.0	119.0	2.14 1.0		57.0	57.0	2.24 5.0	1633.5	27.8	0.2	22
23	2.25 5.8	1961.5	480.6	610.0		0	*109.0	203.0	2.14 1.0		55.0	55.0	2.24 6.3	1685.6	26.5	0.2	23
24	2.26 5.7	2462.8	449.8	197.0	2.14 5.2		102.0	102.0	2.14 1.0		53.0	53.0	2.24 7.5	1734.5	24.8	0.2	24
25	2.27 4.3	2955.2	292.2	44.0	2.14 2.1		96.0	96.0	2.14 1.0		52.0	52.0	2.24 8.7	1784.3	25.3	0.2	25
26	2.27 5.3	3017.4	220.4	189.0	2.14 2.1		93.0	93.0	2.14 1.0		51.0	51.0	2.24 9.9	1835.2	25.9	0.2	26
27	2.27 5.0	2998.5	183.4	193.0	2.14 3.2		90.0	90.0	2.14 1.0		50.0	50.0	2.25 1.1	1887.2	26.4	0.2	27
28	2.25 4.1	1882.0	153.1	716.0	2.14 2.7		87.0	87.0	2.14 0*		48.0	48.0	2.25 2.2	1935.8	24.7	0.2	28
29					2.14 2.7		84.0	84.0	2.16 9.2	58.5	46.2	16.7	2.25 3.2	1981.0	23.0	0.2	29
30					2.14 2.3		82.0	82.0	2.18 0.6	142.1	42.6	0.5	2.25 4.2	2027.0	23.4	0.2	30
31					2.14 1.5		*78.0	78.0					2.25 5.2	2074.0	23.9	0.2	31
TOTAL			3763.1	3268.0			7883.8	8832.6			1977.8	1906.2			980.2	6.2	
Inf. Ac. Ft.			7464.0				15637.2				3922.9				1944.2	505777	
Outf. Ac. Ft.				6482.0				17519.2				3780.9			123	485461	
Maximum Mean Daily Inflow			635.5				1495.6				102.0				41.2	5694.7	
Minimum Mean Daily Inflow			35.2				78.0				42.6				23.0	1.1	
Storage Change		+9821				-18820				+1421				+19319		+16457	

STORAGES COMPUTED — SLUICING — NO STORAGE — SLUICING

REMARKS ½ Year

Max. W. S. Elev.	2300.7	feet on	1-23-43	Storage	5321.0	Acre Feet	
Min. W. S. Elev.	2145.0*	feet on	9-17 to 30-43	Storage	0	Acre Feet	
Max. Peak Inf.	17850	C.F.S. from	1:30 A.M. on	1-23-43	to 2:00 A.M.	on	1-23-43
Max. Peak Outf.	17670	C.F.S. from	2:00 A.M. on	1-23-43	to 2:30 A.M.	on	1-23-43

RECORDS COLLECTED BY		COMPUTATIONS	Date
D. J. Robertson	Dam Tender	Gage Hts. copied	L. T.
Lee Turner	Hydrographer	Storage applied	L.T.& HAV
S. E. Blakely	Hydrographer	Inf. & Outf. computed	L.T.& HAV
		Checked	L.T.

Gage heights and storages as of midnight on day shown.

* = Flows based on Sta. 111 x 121½.
i = Interpolated.
(R) = Debris loss = 386.1 A.F.
[= Mean for period.

F. C. Dist. Form 65 Revised 600 5/39

Storages based on L. A. C. F. C. D. survey of April 1943 (Table VII)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Big Tujunga Canyon for the Year Ending September 30, 1943.

Continuous Water Stage Recorder Au

Drainage Area 81.4 Square Miles. Capacity of Reservoir 4236.0 Ac. Ft. at Spillway Elev. 2290.0 Ft. Gage Heights Read Daily

Day	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	2.25 6.3	2126.7	26.8	0.2	2.27 3.6	3087.8	[11.8	5.0	2.26 3.9	2518.3	[6.6	3.8	2.22 0.5	839.8	[4.6	2.7	1
2	2.25 7.3	2175.4	24.7	0.2	2.27 3.9	3106.5	11.6	5.0	2.26 2.8	2458.0	6.5	3.8	2.21 7.9	773.3	4.6	3.8	2
3	2.25 8.3	2224.8	25.1	0.2	2.27 4.1	3119.2	11.3	5.0	2.26 1.7	2399.1	6.5	3.7	2.21 4.9	699.4	4.5	4.2	3
4	2.25 9.3	2275.0	[24.4	0.2	2.27 4.4	3138.2	11.1	4.9	2.26 0.6	2341.4	6.4	3.7	2.21 1.8	626.4	4.4	4.0	4
5	2.26 0.2	2320.7	24.4	0.2	2.27 4.6	3151.0	10.6	4.8	2.25 9.4	2280.0	6.3	3.6	2.20 8.6	555.4	4.3	3.9	5
6	2.26 1.1	2367.4	24.4	0.2	2.27 4.7	3157.3	10.8	4.7	2.25 8.2	2219.8	6.2	3.6	2.20 5.4	488.0	4.3	3.8	6
7	2.26 1.9	2409.6	23.9	0.2	2.27 4.9	3170.0	10.6	4.6	2.25 7.0	2160.6	6.1	3.6	2.20 2.3	428.3	4.2	3.2	7
8	2.26 2.7	2452.6	23.4	0.2	2.27 5.0	3176.4	10.4	4.5	2.25 5.8	2102.6	6.0	3.6	2.20 0.1	389.9	4.2	2.5	8
9	2.26 3.4	2490.8	22.9	0.2	2.27 5.1	3182.9	10.1	4.4	2.25 4.5	2041.0	5.9	3.5	2.19 8.0	355.7	4.2	2.3	9
10	2.26 4.2	2535.0	22.4	0.2	2.27 5.3	3195.8	9.8	4.6	2.25 3.2	1981.0	5.7	3.5	2.19 5.9	323.5	4.2	2.1	10
11	2.26 5.0	2579.6	22.3	0.2	2.27 5.4	3202.2	9.5	4.7	2.25 1.9	1922.4	5.6	3.5	2.19 3.8	293.4	4.8**	2.0	11
12	2.26 5.8	2624.7	21.8	2.0	2.27 5.6	3215.2	9.2	4.9	2.25 0.6	1865.4	5.5	3.5	2.19 1.7	265.3	5.8	2.0	12
13	2.26 6.6	2670.3	21.3	0.2	2.27 5.7	3221.6	8.9	5.0	2.24 9.3	1809.7	5.4	3.5	2.18 7.9	218.8	4.6	2.8	13
14	2.26 7.4	2716.2	20.8	0.2	2.27 5.8	3228.1	8.6	5.1	2.24 7.9	1750.9	5.3	3.5	2.18 1.8	152.0	5.3	3.9	14
15	2.26 8.1	2756.6	20.3	0.2	2.27 5.9	3234.5	8.2	5.2	2.24 6.5	1693.7	5.1	3.4	2.17 3.8	86.5	6.0	3.9	15
16	2.26 8.7	2791.7	[18.0	0.2	2.27 5.9	3234.5	8.1	12.0	2.24 5.0	1633.5	5.1	3.4	2.16 3.2	30.6	5.8	3.4	16
17	2.26 9.3	2826.9	17.2	0.2	2.27 5.4	3202.2	8.0	24.0	2.24 3.6	1578.7	5.1	3.4	2.14 5.0	0	6.0***	21.4	17
18	2.26 9.9	2862.3	16.8	0.2	2.27 4.9	3170.0	7.9	24.0	2.24 2.1	1521.0	5.0	3.3	2.14 5.0		1 50**	5.0	18
19	2.27 0.3	2886.1	16.0	3.5	2.27 4.5	3144.6	7.8	21.0	2.24 0.6	1464.8	5.0	3.3	2.14 5.0		4.0*	4.0	19
20	2.27 0.6	2904.1	16.0	5.5	2.27 3.9	3106.5	7.7	23.0	2.23 9.1	1410.0	5.0	3.2	2.14 5.0		4.0	4.0	20
21	2.27 0.9	2922.0	15.8	5.5	2.27 3.3	3069.0	7.6	29.0	2.23 7.6	1356.5	4.9	3.1	2.14 5.0		3.8	2.8	21
22	2.27 1.3	2946.2	15.6	5.5	2.27 2.6	3025.6	7.5	29.0	2.23 6.1	1304.4	4.9	3.1	2.14 5.0		3.8	3.8	22
23	2.27 1.6	2964.4	15.3	5.5	2.27 1.9	2982.5	7.4	29.0	2.23 4.6	1253.8	4.9	3.0	2.14 5.0		3.8	3.8	23
24	2.27 1.9	2982.5	14.9	5.5	2.27 1.2	2940.1	7.3	29.0	2.23 3.1	1204.7	4.8	3.0	2.14 5.0		11.6	11.6	24
25	2.27 2.2	3000.9	14.7	5.5	2.27 0.4	2892.1	7.1	29.0	2.23 1.6	1157.0	4.8	2.9	2.14 5.0		9.2	9.2	25
26	2.27 2.5	3019.4	13.8	5.5	2.26 9.7	2850.5	7.1	29.0	2.23 0.1	1110.6	4.8	2.9	2.14 5.0		5.1	5.1	26
27	2.27 2.7	3031.7	13.1	5.4	2.26 9.0	2809.2	7.0	29.0	2.22 8.6	1065.5	4.8	2.9	2.14 5.0		4.6	4.6	27
28	2.27 3.0	3050.2	12.8	5.3	2.26 8.3	2768.3	6.9	29.0	2.22 7.0	1018.5	4.8	2.8	2.14 5.0		4.4	4.4	28
29	2.27 3.2	3062.7	12.5	5.2	2.26 7.3	2710.4	6.9	34.0	2.22 5.4	972.9	4.7	2.8	2.14 5.0		3.8	3.8	29
30	2.27 3.4	3075.2	11.8	5.1	2.26 6.2	2647.4	6.8	39.0	2.22 3.8	928.1	4.7	2.7	2.14 5.0	0	3.5*	3.5	30
31					2.26 5.0	2579.6	6.7	39.0	2.22 2.1	881.9	4.7	2.7					31
TOTAL			573.2	68.4			270.5	520.4			167.1	102.3.0			148.4	59.3.0	
Inf. Ac. Ft.			1136.9				536.5				331.4				294.3	528768	
Outf. Ac. Ft.				135.7				10322				20291			1176.2	529193	
Maximum Mean Daily Inflow			26.8				11.8				6.6				11.6	5694.7	
Minimum Mean Daily Inflow			11.8				6.7				4.7				3.5	1.1	
Storage Change		+1001.2				-495.6				-1697.7				-8819		(R) +4283	

SLUICING

REMARKS Yearly Totals

Max. W. S. Elev.	2300.7	feet on	1-23-43	Storage	5321.0	Acre Feet	
Min. W. S. Elev.	2145.0*	feet on	9-17 to 30-43	Storage	0	Acre Feet	
Max. Peak Inf.	17850	C.F.S. from	1:30 A.M. on	1-23-43	to 2:00 A.M.	on	1-23-43
Max. Peak Outf.	17670	C.F.S. from	2:00 A.M. on	1-23-43	to 2:30 A.M.	on	1-23-43

RECORDS COLLECTED BY		COMPUTATIONS	Date
D. J. Robertson	Dam Tender	Gage Hts. copied	L.T. & C.C.Q.
Lee Turner	Hydrographer	Storage applied	L.T.
S. E. Blakely	Hydrographer	Inf. & Outf. computed	L.T. & HAV
		Checked	P. H. 5-10-44

Gage heights and storages as of midnight on day shown.

i = Interpolated
[= Mean for period.
* = Flows based on Sta. 111 x 121½.
** = Flows bulked by bank storage.
(R) = Debris loss = 386.1 A. F.
o = Computed.

DEVIL'S GATE

F. C. Dist. Form 68 Revised 800 5/39

°Storages to January 22 based on survey at January 1942 (Table IV) - Storages corrected from Jan. 23 based on survey of Dec.'43 (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Arroyo Seco for the Year Ending September 30, 19 43

Drainage Area 31.9 Square Miles. Capacity of Reservoir °2728.3 Ac. Ft. at Spillway Elev. 1054.0 Ft.

Continuous Water Stage Recorder All

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	Day
1	1012.5	4.0	0	0	1013.1	6.4	0	0	1012.2	3.0	0	0	1014.2	16.5	0	0	1
2	1012.5	4.0	0	0	1013.0	5.6	0	0	1012.2	3.0	0	0	1013.9	12.8	0	1.2	2
3	1012.4	3.7	0	0	1013.0	5.6	0	0	1012.1	2.7	0	0	1013.4	8.8	0	1.7	3
4	1012.3	3.4	0	0	1012.9	5.3	0	0	1012.1	2.7	0	0	1011.0	1.0	0	3.8	4
5	1012.3	3.4	0	0	1012.9	5.3	0	0	1012.0	2.4	0	0	1011.0	1.0	♣ 0.1	0	5
6	1012.2	3.0	0	0	1012.8	5.0	0	0	1011.9	2.3	0	0	1011.5	1.7	♣ 0.4	0	6
7	1012.1	2.7	0	0	1012.8	5.0	0	0	1011.9	2.3	0	0	1011.6	1.8	♣ 0.2	0	7
8	1012.1	2.7	0	0	1012.7	4.6	0	0	1011.8	2.1	0	0	1011.5	1.7	0	0	8
9	1012.0	2.4	0	0	1012.7	4.6	0	0	1011.8	2.1	0	0	1011.3	1.4	0	0	9
10	1011.9	2.3	0	0	1012.6	4.3	0	0	1011.7	2.0	0	0	1011.1	1.1	0	0	10
11	1012.4	3.7	0.9	0	1012.5	4.0	0	0	1011.7	2.0	0	0	1011.0	1.0	0	0	11
12	1012.6	4.3	0.5	0	1012.5	4.0	0	0	1011.6	1.8	0	0	1010.8	0.9	0	0	12
13	1012.6	4.3	0	0	1012.4	3.7	0	0	1011.5	1.7	0	0	1010.7	0.9	0	0	13
14	1012.5	4.0	0	0	1012.4	3.7	0	0	1011.5	1.7	0	0	1010.6	0.8	0	0	14
15	1012.4	3.7	0	0	1012.3	3.4	0	0	1011.4	1.6	0	0	1010.5	0.8	0	0	15
16	1012.4	3.7	0	0	1012.3	3.4	0	0	1011.3	1.4	0	0	1010.3	0.6	0	0	16
17	1012.3	3.4	0	0	1012.2	3.0	0	0	1011.3	1.4	0	0	1010.2	0.6	0	0	17
18	1012.2	3.0	0	0	1012.2	3.0	0	0	1011.2	1.3	0	0	1010.0	0.5	0	0	18
19	1012.2	3.0	0	0	1012.8	5.0	1.2	0	1011.1	1.1	0	0	1009.9	0.5	0	0	19
20	1012.1	2.7	0	0	1012.8	5.0	0	0	1011.0	1.0	0	0	1009.7	0.5	0	0	20
21	1012.0	2.4	0	0	1012.7	4.6	0	0	1010.9	1.0	0	0	1015.0	28.2	14.3	0	21
22	1012.0	2.4	0	0	1012.7	4.6	0	0	1010.8	0.9	0	0	1048.3	2071.3	1951.9	909.8	22
23	1011.9	2.3	0	0	1012.6	4.3	0	0	1010.9	1.0	0.2	0	1031.4	♣♣5699	2558.9	3192.6	23
24	1011.9	2.3	0	0	1012.6	4.3	0	0	1013.4	8.8	4.1	0	1029.8	4966	3755	408.8	24
25	1011.8	2.1	0	0	1012.5	4.0	0	0	1014.5	20.9	6.6	0	1030.9	5464	1222	933	25
26	1011.7	2.0	0	0	1012.5	4.0	0	0	1014.5	20.9	0.5	0	1032.1	6034	1041	710	26
27	1011.7	2.0	0	0	1012.4	3.7	0	0	1014.4	19.4	0	0	1032.7	6335	687	680	27
28	1011.4	1.8	3.6	0	1012.4	3.7	0	0	1014.4	19.4	0	0	1033.4	6697	514	270	28
29	1011.3	1.8	0	0	1012.3	3.4	0	0	1014.3	18.0	0	0	1033.3	6644	427	390	29
30	1011.2	1.7	0	0	1012.3	3.4	0	0	1014.3	18.0	0	0	1034.5	7301	1102	710	30
31	1011.1	1.6	0	0					1014.2	16.5	0	0	1034.5	7301	2094	2010	31
TOTAL			5.0	0			1.2	0			11.4	0			5630.0	5088.2	
Inf. Ac. Ft.			9.9				2.4				22.6				11166.9	11201.8	
Outf. Ac. Ft.			0 +(7.5)				0+(5.4)				0+(9.5)			10092.3	(144.2)	10258.9(166.6)	
Maximum Mean Daily Inflow			3.6				1.2				6.6				2558.9	2558.9	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			+2.4				-3.0				+13.1				+713.6 +216.8 ♣♣	+726.1♣♣	
REMARKS																½ Year	

Max. W. S. Elev.	1051.0	feet on	1-23-43	Storage	2365.8	Acre Feet		
Min. W. S. Elev.	1009.7	feet on	1-20-43	Storage	0.5	Acre Feet		
Max. Peak Inf.	7740	C.F.S. from	1:15 A.M. on 1-23-43	to	1:30 A.M. on	1-23-43		
Max. Peak Outf.	5530	C.F.S. from	3:00 A.M. on 1-23-43	to	4:00 A.M. on	1-23-43		

RECORDS COLLECTED BY		COMPUTATIONS	Date
A. E. Marshall	Dam Tender	Gage Hts. copied	F.H.M. & HAV
P. A. Haig	Hydrographer	Storage applied	F.H.M. & HAV
	Hydrographer	Inf. & Outf. computed	H.A.V.
		Checked	K.F.S.

Gage heights and storages as of midnight on day shown.

() = Total monthly evaporation and percolation loss.

♣ = Inflow from bank storage.

♣♣ = Corrected for 216.8 A.F. capacity lost due to debris.

F. C. Dist. Form 68 Revised 800 5/39

Storages based on L. A. C. F. C. D. survey of December 1943 - (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Arroyo Seco for the Year Ending September 30, 19 43

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2504.1 Ac. Ft. at Spillway Elev. 1054.0 Ft.

Continuous Water Stage Recorder All

Gage Heights Read Daily

Day	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	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	Day
1	1032.6	629.5	132.8	178.0	1032.4	618.4	31.3	76.0	1028.1	423.4	16.8	6.0	1036.6	858.8	0	0	1
2	1032.5	623.5	74.0	71.0	1032.3	613.4	67.0	64.0	1028.3	431.9	12.7	6.0	1036.3	839.3	0	0	2
3	1032.6	628.5	59.0	51.0	1036.3	839.3	320.4	201.0	1028.4	436.2	11.1	6.5	1036.1	826.2	0	0	3
4	1031.4	569.9	59.4	84.0	1036.0	819.7	963.7	962.0	1028.3	431.9	6.7	6.5	1035.8	807.5	0	0	4
5	1030.3	519.1	52.4	74.0	1034.2	713.0	609.6	657.0	1029.0	461.6	20.6	3.0	1035.5	789.1	0	0	5
6	1030.1	510.0	27.9	29.0	1034.7	741.4	349.9	328.0	1031.6	532.7	39.7	0	1035.3	776.9	0	0	6
7	1029.7	492.4	19.4	25.0	1034.6	735.7	274.7	270.0	1032.6	628.5	53.5	0	1035.0	758.5	0	0	7
8	1030.5	528.2	34.6	13.0	1031.9	593.7	219.4	284.0	1033.8	691.0	37.7	0	1034.8	747.1	0	0	8
9	1030.3	519.1	16.0	17.0	1030.6	532.7	197.0	224.0	1034.7	741.4	32.6	0	1034.5	730.1	0	0	9
10	1030.2	514.6	14.3	13.0	1022.8	211.3	{164.5	297.0	1035.3	776.9	25.9	0	1034.3	718.7	0	0	10
11	1030.1	510.0	11.9	11.0	1011.5		{160.0	256.0	1035.8	807.5	24.0	0	1034.0	701.6	0	0	11
12	1029.9	501.1	6.7	8.0	♣♣1011.9		{150.0	165.0	1036.0	819.7	14.9	0	1033.8	691.0	0	0	12
13	1029.8	496.8	4.6	3.6	1011.7		{140.0	162.0	1036.1	826.2	12.3	0	1033.5	675.1	0	0	13
14	1029.8	496.8	3.1	0	1011.6		135.1	135.0	1036.2	832.7	12.4	0	1033.3	664.4	0	0	14
15	1029.8	496.8	3.1	0	1011.6	Sluicing	118.1	118.0	1036.6	858.8	22.5	0	1033.0	648.5	0	0	15
16	1029.8	496.8	{2.2	0	1011.4		100.1	100.0	1037.0	884.9	23.2	0	1032.8	639.5	0	0	16
17	1029.7	492.4	2.2	0	1011.4		66.1	66.0	1037.4	912.5	24.0	0	1032.5	623.5	0	0	17
18	1029.7	492.4	{2.2	0	1011.3		67.1	67.0	1037.7	933.1	21.1	0	1032.3	613.4	0	0	18
19	1029.7	492.4	2.2	0	1011.2		62.1	62.0	1037.9	946.9	18.0	0	1032.1	603.4	0	0	19
20	1029.6	488.0	{2.1	0	1011.2		64.1	64.0	1038.1	961.0	18.3	0	1031.4	593.7	0	0	20
21	1030.7	537.3	28.3	0	1016.1	29.7	52.3	37.0	1039.2	968.3	14.9	0	1031.7	584.2	0	0	21
22	1037.5	919.4	370.2	171.0	1017.5	52.7	49.3	37.0	1038.3	975.5	{11.4	0	1031.5	574.7	0	0	22
23	1035.8	807.5	239.6	336.0	1019.3	95.6	36.4	14.0	1038.2	968.3	11.4	0	1031.3	565.2	0	0	23
24	1034.8	747.1	296.9	319.0	1020.9	144.6	33.7	8.0	1038.2	968.3	11.4	0	1031.1	555.7	0	0	24
25	1032.7	633.5	223.3	274.0	1022.2	189.6	30.9	7.0	1038.1	961.0	7.8	0	1030.9	546.4	0	0	25
26	1031.0	550.9	136.0	193.0	1023.5	237.6	32.6	7.0	1038.0	953.6	7.6	0	1030.8	541.8	0	0	26
27	1032.1	603.4	113.2	82.0	1024.6	280.0	29.5	6.5	1037.7	933.1	0.6	0	1030.6	532.7	0	0	27
28	1032.4	618.4	94.9	82.0	1025.5	315.9	25.4	5.5	1037.4	912.5	0	0	1030.4	523.7	0	0	28
29					1026.3	348.4	24.8	6.5	1037.1	891.8	0	0	1030.3	519.1	0	0	29
30					1027.0	377.2	23.0	6.5	1036.8	871.9	0	0	1030.2	514.6	0	0	30
31					1027.7	406.5	23.0	6.0					1030.1	510.0	0	0	31
TOTAL			2102.5	2034.6			4671.1	4699.0			513.1	28.0			0	0	
Inf. Ac. Ft.			4170.2				9265.0				1017.7				0	25654.8	
Outf. Ac. Ft.			4035.6 +(246.3)				9320.3+(156.5)				555+(496.9)			0	+(362.0)	2353.7+(1428.3)	
Maximum Mean Daily Inflow			370.2				963.7				535				0	2558.9	
Minimum Mean Daily Inflow			2.1				23.0				0				0	0	
Storage Change		-111.7				-211.9				+465.4				-361.9		+506.0+♣♣	
REMARKS																½ Year	

Max. W. S. Elev.	1051.0	feet on	1-23-43	Storage	2365.8	Acre Feet		
Min. W. S. Elev.	1009.7	feet on	1-20-43	Storage	0.5	Acre Feet		
Max. Peak Inf.	7740	C.F.S. from	1:15 A.M. on 1-23-43	to	1:30 A.M. on	1-23-43		
Max. Peak Outf.	5530	C.F.S. from	3:00 A.M. on 1-23-43	to	4:00 A.M. on	1-23-43		

RECORDS COLLECTED BY		COMPUTATIONS	Date
A. E. Marshall & K. M. York	Dam Tender	Gage Hts. copied	FHM & HAV
P. A. Haig	Hydrographer	Storage applied	F. H. M.
T. E. Moon	Hydrographer	Inf. & Outf. computed	HAV 4-11-44
		Checked	F.H.M. & K.F.S.

Gage heights and storages as of midnight on day shown.

() = Total monthly evaporation and percolation loss.

♣♣ = Corrected for 216.8 A. F. capacity lost due to debris.

{ = Mean for period.

DEVIL'S GATE (CONT.)

F. C. Dist. Form 86 Revised 600 5/39

Storages based on L.A.C.F.C.D. Survey of December 1943 - (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In ~~On~~ Arroyo Seco for the Year Ending September 30, 19 43

Drainage Area 30.9 Square Miles. Capacity of Reservoir 2504.1 Ac. Ft. at Spillway Elev. 1054.0 Ft.

Continuous Water Stage Recorder: Au

Gage Heights: Read Daily

Day	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	1029.9	501.1	0	0	1026.6	360.7	0	0	1023.6	248.9	0	0	1021.5	165.1	0	0	1
2	1029.8	496.8	0	0	1026.5	356.6	0	0	1023.7	245.1	0	0	1021.4	161.6	0	0	2
3	1029.7	492.4	0	0	1026.4	352.5	0	0	1023.6	241.3	0	0	1021.3	158.2	0	0	3
4	1029.5	483.7	0	0	1026.3	348.4	0	0	1023.5	237.6	0	0	1021.3	158.2	0	0	4
5	1029.4	479.3	0	0	1026.2	344.2	0	0	1023.4	233.8	0	0	1021.2	154.7	0	0	5
6	1029.3	474.9	0	0	1026.1	340.1	0	0	1023.4	233.8	0	0	1021.2	154.7	0	0	6
7	1029.2	470.5	0	0	1026.0	336.0	0	0	1023.3	230.0	0	0	1021.1	151.3	0	0	7
8	1029.1	466.2	0	0	1025.9	332.0	0	0	1023.2	226.2	0	0	1021.0	147.8	0	0	8
9	1029.0	461.8	0	0	1025.8	327.9	0	0	1023.1	222.4	0	0	1020.9	144.6	0	0	9
10	1028.8	453.3	0	0	1025.7	323.9	0	0	1023.0	218.6	0	0	1020.9	144.6	0	0	10
11	1028.7	449.0	0	0	1025.6	319.9	0	0	1023.0	218.6	0	0	1020.8	141.4	0	0	11
12	1028.6	444.7	0	0	1025.5	315.9	0	0	1022.9	215.0	0	0	1020.8	141.4	0	0	12
13	1028.5	440.5	0	0	1025.4	311.8	0	0	1022.8	211.3	0	0	1020.7	138.2	0	0	13
14	1028.4	436.2	0	0	1025.3	307.8	0	0	1022.7	207.7	0	0	1020.6	135.0	0	0	14
15	1028.3	431.9	0	0	1025.2	303.8	0	0	1022.7	207.7	0	0	1020.6	135.0	0	0	15
16	1028.2	427.6	0	0	1025.1	299.7	0	0	1022.6	204.1	0	0	1020.5	131.8	0	0	16
17	1028.1	423.4	0	0	1025.1	299.7	0	0	1022.5	200.5	0	0	1020.5	131.8	0	0	17
18	1028.0	419.1	0	0	1025.0	295.7	0	0	1022.4	196.8	0	0	1020.4	128.6	0	0	18
19	1027.9	414.9	0	0	1024.9	291.8	0	0	1022.4	196.8	0	0	1020.3	125.4	0	0	19
20	1027.8	410.7	0	0	1024.8	287.9	0	0	1022.3	193.2	0	0	1020.3	125.4	0	0	20
21	1027.7	406.5	0	0	1024.7	283.9	0	0	1022.2	189.6	0	0	1020.2	122.2	0	0	21
22	1027.6	402.3	0	0	1024.6	280.0	0	0	1022.2	189.6	0	0	1020.2	122.2	0	0	22
23	1027.5	398.2	0	0	1024.6	280.0	0	0	1022.1	185.9	0	0	1020.1	119.0	0	0	23
24	1027.3	389.8	0	0	1024.5	276.1	0	0	1022.0	182.3	0	0	1019.9	112.9	0	21	24
25	1027.2	385.6	0	0	1024.4	272.2	0	0	1021.9	178.9	0	0	1019.6	104.3	0	39	25
26	1027.1	381.4	0	0	1024.3	268.3	0	0	1021.9	178.9	0	0	1019.2	92.8	0	136	26
27	1027.0	377.2	0	0	1024.2	264.3	0	0	1021.8	175.4	0	0	1018.9	84.5	0	136	27
28	1026.9	373.1	0	0	1024.1	260.4	0	0	1021.7	172.0	0	0	1018.6	77.2	0	135	28
29	1026.8	369.0	0	0	1024.0	256.5	0	0	1021.7	172.0	0	0	1018.2	67.3	0	135	29
30	1026.7	364.8	0	0	1024.0	256.5	0	0	1021.6	168.5	0	0	1017.6	58.5	0	36	30
31					1023.9	252.7	0	0	1021.5	165.1	0	0					31
TOTAL			0	0			0	0			0	0			0	642	
Inf. Ac. Ft.			0				0				0				0	25654.8	
Outf. Ac. Ft.			0 +(145.2)				0+(112.1)				0 + (87.7)				480+(58.5)	23551.7+(1831.7)	
Maximum Mean Daily Inflow			0				0				0				0	2558.9	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-145.2				-112.1				-87.6				-106.6		+ 54.5+**	

REMARKS — Yearly Totals

Max. W. S. Elev.	1051.0	feet on	1-23-43	Storage	2365.8	Acre Feet		
Min. W. S. Elev.	1009.7	feet on	1-20-43	Storage	0.5	Acre Feet		
Max. Peak Inf.	7740	C. F. S. from	1:15 A.M. on 1-23-43	to	1:30 A.M. on 1-23-43			
Max. Peak Outf.	5530	C. F. S. from	3:00 A.M. on 1-23-43	to	4:00 A.M. on 1-23-43			

RECORDS COLLECTED BY

K. M. York	Dam Tender
T. E. Moon	Hydrographer
	Hydrographer

COMPUTATIONS — Date

Gage Hts. copied	EWG 10-21-43
Storage applied	C.C.G.
Inf. & Outf. computed	HAV 4-11-44
Checked	KFS

Gage heights and storages as of midnight on day shown.

() = Total monthly evaporation and percolation loss

** = Corrected for 216.8 A. F. capacity lost due to debris

{ = Mean for period.

EATON

F. C. Dist. Form 86 Revised 600 5/39

Storages based on C. I. T. survey of June 1942 - Corrected for excavation September 1942 - (Table VII.)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In ~~On~~ Eaton Wash for the Year Ending September 30, 19 43

Drainage Area 9.48 Square Miles. Capacity of Reservoir 722 Ac. Ft. at Spillway Elev. 887.5 Ft.

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	Day
1															0	0	1
2															0	0	2
3															0	0	3
4															0	0	4
5															0	0	5
6															0	0	6
7															0	0	7
8															0	0	8
9															0	0	9
10															0	0	10
11															0	0	11
12															0	0	12
13															0	0	13
14															0	0	14
15															0	0	15
16	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	0	0	16
17															0	0	17
18															0	0	18
19															0	0	19
20														0	0	0	20
21													843.8	0.8	0.4	0	21
22													831.7	514.3	451.4	183	22
23													867.5	1015	497.8	663	23
24													862.8	120.7	80.5	110	24
25													863.6	130.4	34.1	28	25
26													864.4	140.3	21.6	15	26
27													864.7	144.1	18.7	15	27
28													864.3	139.1	9.0	10	28
29													864.0	135.3	6.1	6.5	29
30													865.3	151.8	23.2	13	30
31													868.5	196.0	61.3	36	31
TOTAL			0				0				0				1204.1	1079.5	
Inf. Ac. Ft.			0				0				0				2388.3	2388.3	
Outf. Ac. Ft.				0				0				0			2141.2+(51.2)	2141.2+(51.2)	
Maximum Mean Daily Inflow			0				0				0				497.8	497.8	
Minimum Mean Daily Inflow			0				0				0				61.1	0	
Storage Change			0				0				0				+196.0	+196.0	

REMARKS — ½ Year

Max. W. S. Elev.	885.4	feet on	1-23-43	Storage	642.6	Acre Feet		
Min. W. S. Elev.	Dry	feet on	Various days	Storage	0	Acre Feet		
Max. Peak Inf.	1700	C. F. S. from	1:00 A.M. on 1-23-43	to	1:30 A.M. on 1-23-43			
Max. Peak Outf.	1100	C. F. S. from	3:30 A.M. on 1-23-43	to	4:00 A.M. on 1-23-43			

RECORDS COLLECTED BY

E. E. DeVore	Dam Tender
Paul A. Haig	Hydrographer
	Hydrographer

COMPUTATIONS — Date

Gage Hts. copied	F. H. M.
Storage applied	F. H. M.
Inf. & Outf. computed	PAH 6-20-44
Checked	L. T.

Gage heights and storages as of midnight on day shown.

Outflows as indicated by valve operation records and flows at Station F-271 R.

EATON (CONT.)

F. C. Dist. Form 68 Revised 800 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In/On Eaton Wash for the Year Ending September 30, 1943

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 722 Ac. Ft. at Spillway Elev. 887.5 Ft.

Gage Heights Read Daily

Day	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	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	Day
1	865.3	151.8	230	44	867.2	177.2	30.8	20	874.8	314.5	7.9	0	870.1	220.9	1.0	2.5	1
2	863.2	125.5	19.1	31	867.6	182.9	28.6	16	875.0	319.2	8.0	0	869.5	211.3	1.0	2.0	2
3	863.0	123.1	17.9	18	872.0	253.9	91.3	51	875.1	321.7	7.1	0	869.0	203.4	0.9	2.0	3
4	862.6	119.4	16.8	18	868.7	198.9	269.4	294	875.2	324.2	7.2	0	868.4	194.5	0.9	2.0	4
5	863.3	126.6	13.5	8	871.3	241.3	202.5	177	875.5	331.7	9.9	0	867.9	187.1	1.0	2.0	5
6	864.1	136.6	11.5	5	872.7	267.4	131.1	113	876.9	368.1	25.3	0	867.4	180.0	1.0	2.0	6
7	864.6	142.9	9.8	5	873.7	287.8	96.6	81	876.9	368.1	7.9	1.0	866.9	173.1	0.8	2.0	7
8	865.5	154.4	12.7	5	872.3	259.7	76.5	86	877.5	384.9	17.6	1.8	866.4	166.3	0.7	1.8	8
9	865.3	151.8	5.1	4.5	869.4	209.7	70.2	92	877.5	384.9	11.8	4.5	865.8	158.3	0.6	1.8	9
10	865.7	157.0	8.3	4.5	863.3	126.8	61.5	102	877.3	379.2	8.8	4.5	865.3	151.8	0.6	1.8	10
11	865.8	159.3	7.2	4.5	846.7	4.4	47.3	109	877.0	370.8	6.8	4.0	864.7	144.1	0.5	1.8	11
12	865.3	151.8	3.1	4.5	846.6	4.2	*77.9	78	876.7	362.8	6.2	3.5	864.0	135.3	0.5	2.2	12
13	865.2	150.5	2.7	1.7	848.0	6.4	61.1	60	876.3	352.2	3.9	2.5	863.3	126.8	0.5	3.0	13
14	865.4	153.1	2.3	0	846.6	4.2	46.9	48	875.9	341.7	3.4	2.3	862.5	117.2	0.4	3.0	14
15	865.2	150.5	1.8	0	847.1	5.0	40.4	40	875.7	336.7	6.1	2.2	861.8	109.0	0.4	3.0	15
16	865.0	147.9	1.4	0	846.7	4.4	41.7	42	875.6	334.2	6.5	1.5	861.2	102.2	0.3	2.5	16
17	864.8	145.4	1.0	0	853.4	19.3	39.5	32	875.4	329.2	5.0	1.5	860.6	95.5	0.3	2.2	17
18	864.5	141.6	0.6	0	846.7	4.4	30.2	35	875.2	324.2	4.3	1.0	860.2	91.1	0.2	1.8	18
19	864.6	142.9	0.2	0	846.4	3.9	29.2	24	875.0	319.2	4.3	1.2	859.8	86.8	0	1.0	19
20	864.4	140.3	0	0	853.9	36.4	*26.2	18	874.8	314.5	4.7	1.5	859.1	79.5	0	1.8	20
21	866.2	163.6	14.3	0.3	859.5	83.7	24.3	0	874.5	307.5	3.2	1.5	858.2	70.6	0	2.5	21
22	872.3	259.7	89.1	36	863.2	125.5	22.0	0	874.3	302.8	2.4	1.5	857.3	62.2	0	3.0	22
23	871.3	241.3	70.9	76	865.9	159.6	18.7	0	873.9	291.9	2.4	2.2	856.5	55.2	0	3.0	23
24	871.6	246.7	79.1	72	863.4	134.5	19.8	0	873.3	279.4	2.3	3.0	855.6	48.0	0	3.5	24
25	868.7	198.9	51.9	67	870.0	219.2	15.2	0	872.9	271.3	2.3	2.5	854.8	42.1	0	3.0	25
26	864.5	141.6	39.0	38	871.1	237.7	12.5	0	872.5	263.6	2.0	2.0	854.3	38.9	0	1.6	26
27	866.3	165.0	34.1	16	872.0	253.9	11.8	0	872.0	253.9	1.1	2.0	854.3	38.9	0	0	27
28	867.0	174.4	32.0	18	872.8	269.3	11.8	0	871.6	246.7	1.1	2.0	854.3	38.9	0	0	28
29					873.5	283.6	11.8	0	871.1	237.7	1.1	1.8	854.3	38.9	0	1.0	29
30					874.3	300.8	13.7	0	870.7	230.9	1.0	1.6	851.9	26.8	0	6.0	30
31					874.6	309.8	10.0	0					848.9	**7.9	0	9.5	31
TOTAL			568.4	497.0			1670.5	1518			181.6	53.3			11.6	75.3	
Inf. Ac. Ft.			1127.4				3313.4				360.2				23.0	7212.3	
Outf. Ac. Ft.			935.8 + (163.2)				3010.9 + (166.9)				105.7 + (333.4)				149.4 + (96.6)	6393.0	(811.2)
Maximum Mean Daily Inflow			89.1				269.4				25.3				1.0	497.8	
Minimum Mean Daily Inflow			0				10.0				0.4				0	0	
Storage Change			- 21.6				+135.4				- 78.9				-223.0	+79	
REMARKS																½ Year	

Max. W. S. Elev.	885.4	feet on 1-23-43	Storage 642.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	Dry	feet on Various days	Storage 0	Acre Feet	E. E. DeVore	Dam Tender	Gage Hts. copied	F.H.M.
Max. Peak Inf.	1700	C.F.S. from 1:00 A.M. on 1-23-43 to 1:30 A.M. on 1-23-43			Paul A. Haig	Hydrographer	Storage applied	F.H.M.
Max. Peak Outf.	1100	C.F.S. from 3:30 A.M. on 1-23-43 to 4:00 A.M. on 1-23-43				Hydrographer	Inf. & Outf. computed	PAH 6-20-44
Gage heights and storages as of midnight on day shown.							Checked	FHM & L.T.

{ = Mean for period.
( )= Percolation and evaporation losses.
* = Flows bulked by sluicing.
** = Excavation pit depleted.
Outflows as indicated by valve operation records and flows at Station F 271 R

F. C. Dist. Form 68 Revised 800 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In/On Eaton Wash for the Year Ending September 30, 1943

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 722 Ac. Ft. at Spillway Elev. 887.5 Ft.

Gage Heights Read Daily

Day	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	848.2	o 6.9	0	0.5													1
2	844.4	o 4.9	0	1.0													2
3	849.0	o 4.9	0	0													3
4	847.8	o 4.3	0	0.3													4
5	847.4	o 3.7	0	0.3													5
6	848.5	o 3.7	0	0													6
7	843.7	o 1.9	0	0.9													7
8			0	0													8
9			0	0													9
10			0	0													10
11			0	0													11
12			0	0													12
13			0	0													13
14			0	0													14
15			0	0													15
16			0	0													16
17			0	0													17
18			0	0													18
19	Small Pool		0	0	Small Pool				Reservoir Dry				Reservoir Dry				19
20			0	0													20
21			0	0													21
22	Storage Negligible		0	0	Storage Negligible				No Storage				No Storage				22
23			0	0													23
24			0	0													24
25			0	0													25
26			0	0													26
27			0	0													27
28			0	0													28
29			0	0													29
30			0	0													30
31																	31
TOTAL			0	3.0			0	0			0	0			0	0	
Inf. Ac. Ft.			0													7212.3	
Outf. Ac. Ft.			0	6.0 + (2)												7199.0	
Maximum Mean Daily Inflow			0													497.8	
Minimum Mean Daily Inflow			0													0	
Storage Change			- 6.0													0	
REMARKS																Yearly Totals	

Max. W. S. Elev.	885.4	feet on 1-23-43	Storage 642.6	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	Dry	feet on Various days	Storage 0	Acre Feet	E. E. DeVore	Dam Tender	Gage Hts. copied	F. H. M.
Max. Peak Inf.	1700	C.F.S. from 1:00 A.M. on 1-23-43 to 1:30 A.M. on 1-23-43			Paul A. Haig	Hydrographer	Storage applied	F. H. M.
Max. Peak Outf.	1100	C.F.S. from 3:30 A.M. on 1-23-43 to 4:00 A.M. on 1-23-43				Hydrographer	Inf. & Outf. computed	PAH 6-20-44
Gage heights and storages as of midnight on day shown.							Checked	L. T.

o - Indicates computed from inflows and outflows.
Outflows as indicated by valve operation records and flows from Station F 271 R.

BIG SANTA ANITA

** Storages based on L.A.C.F.C.D. survey of February 1942 (Table VI) to January 22nd.

F. C. Dist. Form 68 Revised 600 5/38

Storages based on L.A.C.F.C.D. survey of March 1943 (Table VII) from January 23rd.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Santa Anita Canyon for the Year Ending September 30, 1943

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir **701.5 Ac. Ft. at Spillway Elev. 1316.0 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	Day
1	12669	1988	0.8	2.3	12536	1249	{1.0	2.2	12397	632	{1.2	2.1	12391	609	{1.3	0.1	1
2	12665	1963	0.8	2.3	12531	1224	1.0	2.2	12392	613	1.3	2.1	12397	632	1.3	0.1	2
3	12660	1931	0.8	2.3	12526	1200	1.0	2.2	12388	597	1.3	2.1	12403	656	1.2	0.1	3
4	12655	1900	0.7	2.2	12521	1176	1.0	2.2	12384	582	1.3	2.1	12405	664	1.2	0.8	4
5	12651	1875	0.7	2.2	12516	1152	1.0	2.2	12380	566	1.3	2.1	12403	656	1.2	1.6	5
6	12646	1845	0.6	2.2	12511	1128	1.0	2.2	12376	551	1.4	2.1	12401	648	1.2	1.6	6
7	12640	1809	0.6	2.2	12506	1104	1.0	2.2	12372	536	1.4	2.1	12399	640	1.2	1.6	7
8	12634	1774	0.6	2.0	12501	1081	1.0	2.2	12368	522	1.4	2.1	12397	632	1.2	1.6	8
9	12630	1751	0.6	1.9	12496	1058	1.0	2.2	12365	511	1.4	2.1	12395	625	1.2	1.6	9
10	12626	1728	0.6	1.9	12492	1039	1.0	2.2	12361	496	1.2	2.0	12393	617	1.2	1.6	10
11	12621	1699	0.6	1.9	12487	1016	1.0	2.2	12356	478	1.2	2.0	12391	609	1.2	1.6	11
12	12622	1705	2.1	1.9	12482	993	0.9	2.2	12352	463	1.2	2.0	12389	601	1.2	1.6	12
13	12619	1687	1.0	1.9	12477	971	0.9	2.2	12348	449	1.2	2.0	12386	589	1.1	1.6	13
14	12616	1671	0.9	1.9	12471	944	1.0	2.2	12343	432	1.3	2.1	12384	582	1.1	1.6	14
15	12612	1648	0.8	1.9	12464	913	1.0	2.2	12338	415	1.3	2.1	12381	570	1.1	1.6	15
16	12607	1621	0.8	1.9	12459	891	1.1	2.2	12332	395	1.1	2.1	12379	562	1.1	1.6	16
17	12604	1604	0.8	1.9	12454	869	1.1	2.2	12327	378	1.0	1.8	12376	551	1.1	1.6	17
18	12600	1582	0.8	1.9	12449	848	1.1	2.2	12322	362	1.0	1.8	12374	544	1.1	1.6	18
19	12596	1560	0.8	1.9	12446	835	1.6	2.2	12317	347	1.0	1.9	12371	533	1.2	1.6	19
20	12593	1544	0.8	1.9	12443	822	1.5	2.2	12312	331	1.1	1.9	12369	525	1.2	1.6	20
21	12588	1517	0.8	2.3	12439	805	{1.4	2.2	12307	316	{1.1	1.9	12374	544	1.9	0.9	21
22	12582	1486	0.8	2.1	12435	788	1.3	2.2	12302	301	1.2	1.9	13250	8301	10628	671.7	22
23	12576	1454	0.8	2.2	12430	766	1.2	2.2	12297	287	1.2	1.9	13114	*5079	11129	1208.2	23
24	12570	1422	0.7	2.2	12425	746	1.1	2.1	12301	298	2.0	1.4	12926	763	2524	4700	24
25	12565	1396	0.7	2.2	12422	733	1.1	1.9	12333	398	5.1	0.1	12630	1128	94.7	76.3	25
26	12560	1370	0.7	2.2	12418	717	1.3	2.2	12345	439	2.2	0.1	12592	987	76.7	83.8	26
27	12554	1339	0.7	2.2	12414	700	1.3	2.2	12355	474	1.8	0.1	12639	1163	60.5	51.7	27
28	12551	1324	1.6	2.2	12410	684	1.2	2.1	12363	503	1.6	0.1	12634	1144	51.7	52.6	28
29	12549	1314	1.7	2.2	12406	668	1.3	2.1	12371	533	1.6	0.1	12606	1045	45.8	50.8	29
30	12545	1294	1.3	2.2	12401	648	1.3	2.1	12378	559	1.5	0.1	12738	1635	69.6	39.9	30
31	12541	1274	1.1	2.2					12385	586	1.4	0.1	12640	1230	123.3	89.6	31
TOTAL			27.1	64.7			33.7	65.3			45.3	48.4			2975.9	2822.2	
Inf. Ac. Ft.			53.7				66.8				89.9				5902.6	6113.0	
Outf. Ac. Ft.			1283				1295				960				5597.7	5951.5	
Maximum Mean Daily Inflow			2.1				1.6				5.1				1112.9	1112.9	
Minimum Mean Daily Inflow			0.6				0.9				1.0				1.1	0.6	
Storage Change			-74.6				-62.6				-6.2				*+171.7 (133.1)	*+28.3 (133.1)	

REMARKS Small outflows gaged with weir. Large outflows by valve rating curves. ½ Year

Max. W. S. Elev.	1326.3	feet on	1-23-43	Storage	716.8	Acre Feet			
Min. W. S. Elev.	1177 ±	feet on	Various	Storage	0	Acre Feet			
Max. Peak Inf.	3100	C.F.S. from	1:15 A.M. on 1-23-43	to	1:20 A.M. on	1-23-43			
Max. Peak Outf.	3060	C.F.S. from	1:15 A.M. on 1-23-43	to	1:20 A.M. on	1-23-43			

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY

E. B. Harrison	Dam Tender	
P. A. Haig	Hydrographer	
T. E. Moon	Hydrographer	

COMPUTATIONS Date

Gage Hts. copied	KFS & L.T.
Storage applied	KFS & L.T.
Inf. & Outf. computed	KFS & L.T.
Checked	L. T. 9-20-1944

* = 133.1 A.F. capacity loss by debris.

{ = Mean for period.

F. C. Dist. Form 68 Revised 600 5/38

** Storages based on L.A.C.F.C.D. survey of March 1943 (Table VII)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Santa Anita Canyon for the Year Ending September 30, 1943.

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir **568.1 Ac. Ft. at Spillway Elev. 1316.0 Ft.

Gage Heights Read Daily

Day	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	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	Day
1	12323	2182	91.1	97.2	12804	2052	57.9	46.5	12890	2699	29.2	16.0	12522	750	17.9	35.2	1
2	12775	1863	79.5	95.6	12793	1979	55.6	59.2	12925	3015	28.1	12.2	12444	511	17.9	30.0	2
3	12720	1533	69.1	85.7	12772	1844	139.9	146.7	12907	2850	33.1	41.4	12377	324	17.9	27.3	3
4	12667	1277	59.9	72.8	13003	3785	584.5	486.7	12874	2565	28.1	42.5	12327	199	17.9	24.2	4
5	12676	1316	47.6	45.7	12840	2303	397.3	472.0	12864	2485	35.4	39.4	12328	201	17.9	17.8	5
6	12722	1544	36.3	24.8	12828	2217	260.6	264.9	12877	2589	43.2	38.0	12327	199	16.8	16.9	6
7	12727	1572	33.7	32.3	12818	2147	199.2	202.8	12872	2548	35.9	38.0	12327	199	15.7	15.7	7
8	12732	1601	33.8	32.3	12738	1635	161.7	187.5	12877	2589	40.1	38.0	12328	201	15.7	15.6	8
9	12724	1555	30.0	32.3	12722	1544	131.7	136.3	12874	2565	36.8	38.0	12328	201	14.5	14.5	9
10	12720	1533	27.1	28.2	12764	1793	114.1	101.5	12866	2500	34.7	38.0	12190	0	14.5	24.7	10
11	12717	1517	25.1	25.9	12784	1920	101.6	95.2	12856	2423	34.1	38.0	12190	0	14.5	14.5	11
12	12685	1358	24.0	32.0	12814	2120	90.6	80.5	12845	2340	33.9	38.0	12190	0	14.5	14.5	12
13	12674	1308	21.8	24.4	12826	2203	85.4	81.2	12832	2245	32.7	37.5	12190	0	13.4	13.4	13
14	12632	1136	22.5	31.1	12784	1920	78.4	92.7	12817	2140	32.2	37.5	12190	0	13.4	13.4	14
15	12624	1105	23.2	24.8	12757	1750	68.5	77.1	12772	1844	28.4	43.3	12190	0	13.4	13.4	15
16	12618	1082	22.7	23.9	12764	1793	60.3	58.1	12715	1507	24.6	41.6	12190	0	13.4	13.4	16
17	12619	1086	22.0	21.8	12700	1429	58.1	76.5	12664	1265	23.5	35.7	12190	0	13.4	13.4	17
18	12644	1183	21.0	16.1	12679	1330	57.5	62.5	12673	1303	21.3	19.4	12190	0	12.3	12.3	18
19	12656	1232	23.1	20.6	12680	1334	46.9	46.7	12699	1424	21.3	15.2	12190	0	12.3	12.3	19
20	12663	1261	22.3	20.8	12703	1444	45.2	39.6	12730	1589	20.1	11.8	12190	0	12.3	12.3	20
21	12684	1353	42.4	37.8	12706	1460	40.6	39.8	12774	1856	20.1	6.6	12190	0	12.3	12.3	21
22	12830	2231	158.2	113.9	12711	1485	40.7	39.4	12771	1837	20.1	21.1	12190	0	12.3	12.3	22
23	12790	1959	145.0	158.7	12749	1701	45.8	35.0	12764	1793	19.0	21.2	12190	0	11.2	11.2	23
24	12791	1966	156.1	155.8	12787	1940	48.1	36.0	12756	1744	19.0	21.5	12190	0	12.3	12.3	24
25	12690	1381	121.5	151.0	12823	2182	49.2	37.0	12748	1695	19.0	21.5	12190	0	12.3	12.3	25
26	12700	1429	92.2	89.8	12850	2377	47.6	37.8	12760	1768	19.0	15.3	12190	0	12.3	12.3	26
27	12726	1567	72.8	65.8	12867	2508	46.1	39.5	12780	1894	19.0	12.6	12190	0	12.3	12.3	27
28	12769	1825	59.7	46.7	12869	2524	42.8	42.0	12738	1635	19.0	32.1	12190	0	11.2	11.2	28
29					12868	2516	41.6	42.0	12665	1269	19.0	37.4	12190	0	12.3	12.3	29
30					12865	2493	40.9	42.0	12621	1094	17.9	26.8	12190	0	12.3	12.3	30
31					12858	2438	33.6	36.4					12190	0	12.3	12.3	31
TOTAL			1583.7	1607.8			3272.0	3241.1			807.8	875.6			432.7	467.9	
Inf. Ac. Ft.			3141.2				6489.9				1602.2				858.2	18204.5	
Outf. Ac. Ft.			3189.0				6428.6				1736.7				967.7	18273.5	
Maximum Mean Daily Inflow			158.2				584.5				43.2				17.9	111.2	
Minimum Mean Daily Inflow			21.0				33.6				17.9				11.2	0.6	
Storage Change			-47.8				+61.3				-134.4				-109.4	*-202.0 (133.1)	

REMARKS Outflows to April 15 by valve rating curves. Outflows from April 16 computed from inflows. ½ Year

Max. W. S. Elev.	1326.3	feet on	1-23-43	Storage	716.8	Acre Feet			
Min. W. S. Elev.	1177 ±	feet on	Various	Storage	0	Acre Feet			
Max. Peak Inf.	3100	C.F.S. from	1:15 A.M. on 1-23-43	to	1:20 A.M. on	1-23-43			
Max. Peak Outf.	3060	C.F.S. from	1:15 A.M. on 1-23-43	to	1:20 A.M. on	1-23-43			

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY

E. B. Harrison	Dam Tender	
P. A. Haig	Hydrographer	
T. E. Moon	Hydrographer	

COMPUTATIONS Date

Gage Hts. copied	K.F.S.
Storage applied	K.F.S.
Inf. & Outf. computed	K.F.S.
Checked	L.T. 9-20-1944

* = 133.1 A.F. capacity loss by debris.

BIG SANTA ANITA (CONT.)

F. C. Dist. Form 66 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of BIG SANTA ANITA Dam
In Santa Anita Canyon for the Year Ending September 30, 1943
Drainage Area 10.8 Square Miles. Capacity of Reservoir 568.1 Ac. Ft. at Spillway Elev. 1316.0 Ft.
Continuous Water Stage Recorder Au
Gage Heights Read Daily

Day	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	1207	0	12.3	12.3	1189	0	6.2	6.2	1177±	0	3.5	3.5	1177±	0	2.4	2.4	1
2	1207		12.3	12.3	1189		6.2	6.2	1177±		3.6	3.6	1177±		2.4	2.4	2
3	1207		11.2	11.2	1189		6.2	6.2	1177±		3.8	3.8	1177±		2.4	2.4	3
4	1207		11.2	11.2	1198		6.2	6.2	1177±		4.0	4.0	1177±		2.4	2.4	4
5	1207		11.2	11.2	1198		6.2	6.2	1177±		4.0	4.0	1177±		2.4	2.4	5
6	1207		10.1	10.1	1198		5.6	5.6	1177±		3.8	3.8	1177±		2.4	2.4	6
7	1207		10.1	10.1	1189		5.5	5.5	1177±		3.8	3.8	1177±		2.4	2.4	7
8	1207		9.5	9.5	1189		5.5	5.5	1177±		3.6	3.6	1177±		2.4	2.4	8
9	1200		9.0	9.0	1198		5.3	5.3	1177±		3.5	3.5	1177±		2.4	2.4	9
10	1200		9.5	9.5	1198		5.5	5.5	1177±		3.5	3.5	1177±		2.4	2.4	10
11	1200	RESERVOIR EMPTY	9.5	9.5	1198	RESERVOIR EMPTY	5.5	5.5	1177±	RESERVOIR EMPTY	3.2	3.2	1177±	RESERVOIR EMPTY	2.4	2.4	11
12	1200		10.1	10.1	1198		5.5	5.5	1177±		3.2	3.2	1177±		2.4	2.4	12
13	1200		10.1	10.1	1198		5.5	5.5	1177±		3.2	3.2	1177±		2.4	2.4	13
14	1200		9.0	9.0	1198		5.6	5.6	1177±		3.5	3.5	1177±		2.4	2.4	14
15	1200		8.4	8.4	1180		5.6	5.6	1177±		3.5	3.5	1177±		2.4	2.4	15
16	1198		8.4	8.4	1177		5.6	5.6	1177±		3.2	3.2	1177±		2.4	2.4	16
17	1198		7.8	7.8	1177		5.5	5.5	1177±		3.2	3.2	1177±		2.2	2.2	17
18	1198		7.8	7.8	1177		5.3	5.3	1177±		3.2	3.2	1177±		2.0	2.0	18
19	1198		7.8	7.8	1177		5.3	5.3	1177±		3.2	3.2	1177±		2.0	2.0	19
20	1198		7.8	7.8	1177		5.0	5.0	1177±		3.2	3.2	1177±		2.0	2.0	20
21	1198		7.3	7.3	1177		4.8	4.8	1177±		3.2	3.2	1177±		1.9	1.9	21
22	1198		7.3	7.3	1177		4.6	4.6	1177±		3.1	3.1	1177±		1.9	1.9	22
23	1198		7.3	7.3	1177		4.5	4.5	1177±		2.9	2.9	1177±		1.9	1.9	23
24	1198		7.3	7.3	1177		4.3	4.3	1177±		2.8	2.8	1177±		2.2	2.2	24
25	1198		6.7	6.7	1177		3.8	3.8	1177±		2.7	2.7	1177±		2.7	2.7	25
26	1198		6.7	6.7	1177		3.8	3.8	1177±		2.5	2.5	1177±		2.8	2.8	26
27	1198		6.7	6.7	1177		3.6	3.6	1177±		2.4	2.4	1177±		2.8	2.8	27
28	1198		6.7	6.7	1177		3.6	3.6	1177±		2.4	2.4	1177±		2.8	2.8	28
29	1190		6.7	6.7	1177		3.6	3.6	1177±		2.4	2.4	1177±		2.7	2.7	29
30	1189	0	6.2	6.2	1177		3.6	3.6	1177±		2.4	2.4	1177±	0	2.4	2.4	30
31					1177	0	3.5	3.5	1177±	0	2.4	2.4					31
TOTAL			262.0	262.0			156.5	156.5			98.9	98.9			70.7	70.7	
Inf. Ac. Ft.			519.7				310.4				196.2				140.2	1937.1	
Outf. Ac. Ft.			519.7				310.4				196.2				140.2	1944.0	
Maximum Mean Daily Inflow			12.3				6.2				4.0				2.8	1112.9	
Minimum Mean Daily Inflow			6.2				3.5				2.4				1.9	0.6	
Storage Change			0				0				0				0	*-202.0(133.1)	
																Yearly Totals	

REMARKS Outflows computed from inflows. Inflows from comparison with Station U4R.

Max. W. S. Elev.	1326.3	feet	on	1-23-43	Storage	716.8	Acre Feet	
Min. W. S. Elev.	1177 ±	feet	on	Various	Storage	0	Acre Feet	
Max. Peak Inf.	3100	C.F.S. from	1:15 A.M. on 1-23-43	to	1:20 A.M.	on	1-23-43	
Max. Peak Outf.	3060	C.F.S. from	1:15 A.M. on 1-23-43	to	1:20 A.M.	on	1-23-43	

RECORDS COLLECTED BY		COMPUTATIONS	Date
E. B. Harrison	Dam Tender	Gage Hts. copied	K.F.S.
P. A. Haig	Hydrographer	Storage applied	K.F.S.
T. E. Moon	Hydrographer	Inf. & Outf. computed	K.F.S.
		Checked	L. T. 9-20-1944

Gage heights and storages as of midnight on day shown.

* = 133.1 A.F. capacity loss by debris.

SAWPIT

F. C. Dist. Form 66 Revised 600 5/39

Storage based on L.A.C.F.C.D. survey of May 1941-(Table V.)-Corrected to L.A.C.F.C.D. survey of Dec.1943 on 1-23-43-(Table VI.)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAWPIT Dam
In Sawpit Canyon for the Year Ending September 30, 1943
Drainage Area 3.3 Square Miles. Capacity of Reservoir 342.3 Ac. Ft. at Spillway Elev. 1360.0 Ft.
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	Day
1	1308.2	68.4	0	0	1307.8	67.2	0	0	1307.5	66.2	0	0	1289.7	22.1	0	0.9	1
2	1308.2	68.4	0	0	1307.8	67.2	0	0	1307.5	66.2	0	0	1289.2	21.2	0	0.5	2
3	1308.2	68.4	0	0	1307.8	67.2	0	0	1307.5	66.2	0	0	1289.2	21.2	0	0	3
4	1308.2	68.4	0	0	1307.8	67.2	0	0	1307.5	66.2	0	0	1289.2	21.2	0	0	4
5	1308.1	68.1	0	0	1307.8	67.2	0	0	1307.5	66.2	0	0	1289.2	21.2	0	0	5
6	1308.1	68.1	0	0	1307.8	67.2	0	0	1307.5	66.2	0	0	1289.2	21.2	0	0	6
7	1308.1	68.1	0	0	1307.8	67.2	0	0	1307.4	65.9	0	0	1289.2	21.2	0	0	7
8	1308.1	68.1	0	0	1307.7	66.8	0	0	1307.4	65.9	0	0	1289.2	21.2	0	0	8
9	1308.1	68.1	0	0	1307.7	66.8	0	0	1307.4	65.9	0	0	1289.2	21.2	0	0	9
10	1308.1	68.1	0	0	1307.7	66.8	0	0	1307.1	64.9	0	0.7	1289.2	21.2	0	0	10
11	1308.1	68.1	0	0	1307.7	66.8	0	0	1306.2	62.1	0	1.4	1289.2	21.2	0	0	11
12	1308.1	68.1	0	0	1307.7	66.8	0	0	1305.3	59.4	0	1.3	1289.2	21.2	0	0	12
13	1308.1	68.1	0	0	1307.7	66.8	0	0	1304.4	56.7	0	1.4	1289.2	21.2	0	0	13
14	1308.1	68.1	0	0	1307.7	66.8	0	0	1303.5	54.0	0	1.4	1289.2	21.2	0	0	14
15	1308.1	68.1	0	0	1307.7	66.8	0	0	1302.6	51.5	0	1.2	1289.2	21.2	0	0	15
16	1308.0	67.8	0	0	1307.6	66.5	0	0	1302.1	50.1	0	0.7	1289.2	21.2	0	0	16
17	1308.0	67.8	0	0	1307.6	66.5	0	0	1301.6	48.8	0	0.7	1289.2	21.2	0	0	17
18	1308.0	67.8	0	0	1307.6	66.5	0	0	1300.8	46.7	0	1.0	1289.2	21.2	0	0	18
19	1308.0	67.8	0	0	1307.6	66.5	0	0	1300.0	44.6	0	1.1	1287.2	21.2	0	0	19
20	1308.0	67.8	0	0	1307.6	66.5	0	0	1299.3	42.8	0	{1.0	1289.2	21.2	0	0	20
21	1307.9	67.5	0	0	1307.6	66.5	0	0	1298.5	40.7	0	{1.0	1289.3	21.3	0.1	0	21
22	1307.9	67.5	0	0	1307.6	66.5	0	0	1297.7	38.8	0	0.9	1344.4	235.2	161.8	54.0	22
23	1307.9	67.5	0	0	1307.6	66.5	0	0	1296.9	37.0	0	0.9	1330.7	*135.0	148.3	186.0	23
24	1307.9	67.5	0	0	1307.6	66.5	0	0	1296.3	35.6	{0	0.9	1296.8	32.4	30.3	82.0	24
25	1307.8	67.2	0	0	1307.6	66.5	0	0	1295.8	34.5	{0.1	0.5	1283.8	12.0	14.7	25.0	25
26	1307.8	67.2	0	0	1307.6	66.5	0	0	1295.0	32.7	{0	0.9	1297.7	34.3	11.2	0	26
27	1307.8	67.2	0	0	1307.5	66.2	0	0	1294.2	30.9	0	0.9	1305.9	52.7	9.3	0	27
28	1307.9	67.5	0.1	0	1307.5	66.2	0	0	1293.3	29.0	0	{0.9	1310.4	63.7	6.5	0.9	28
29	1307.9	67.5	0	0	1307.5	66.2	0	0	1292.5	27.4	0	{0.9	1310.7	64.5	6.4	6.0	29
30	1307.9	67.5	0	0	1307.5	66.2	0	0	1291.6	25.6	0	0.9	1311.7	67.1	9.3	8.0	30
31	1307.9	67.5	0	0					1290.7	23.9	0	0.8	1311.5	66.6	22.6	22.9	31
TOTAL			0.1	0			0	°0.5			0.1	21.4			420.5	386.2	
Inf. Ac. Ft.			0.2				0				0.2				834.0	834.4	
Outf. Ac. Ft.				(1.0)				(1.0)				42.4			766.0	810.4	
Maximum Mean Daily Inflow			0.1				0				0.1				161.8	161.8	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-1.3				-1.3				-42.3				+42.7*		-2.2*	
REMARKS																½ Year	

Max. W. S. Elev.	1354.3	feet	on	1-23-43	Storage	300.1	Acre Feet	
Min. W. S. Elev.	1257.±	feet	on	2-4 to 11-43	Storage	0	Acre Feet	
Max. Peak Inf.	520	C.F.S. from	1:00 A.M. on 1-23-43	to	1:15 A.M.	on	1-23-43	
Max. Peak Outf.	284	C.F.S. from	4:00 A.M. on 1-23-43	to	6:00 A.M.	on	1-23-43	

RECORDS COLLECTED BY		COMPUTATIONS	Date
R. E. Waddicor	Dam Tender	Gage Hts. copied	F.H.M. & L.T.
P. H. Haig	Hydrographer	Storage applied	F.H.M. & L.T.
T. M. Moon	Hydrographer	Inf. & Outf. computed	HAV 6-20-44
		Checked	L. T.

Gage heights and storages as of midnight on day shown.

* = Storage corrected to survey of Dec. 43 - Debris loss = 25.4 A. F.

( ) = Total monthly loss due to evaporation, percolation and leakage.

{ = Mean for period

SAWPIT (CONT.)

F. C. Dist. Form 60 Revised 500 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAWPIT Dam
In Sawpit Canyon for the Year Ending September 30, 1943
Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1360.0 Ft.
Continuous Water Stage Recorder All
Gage Heights Read Daily

Day	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	1308.9	60.0	i 15.0	18.3	1310.5	64.0	9.9	10.3	1
2	1280.3	8.8	i 14.0	39.8	1310.5	64.0	8.9	8.9	2
3	1267.1	1.4	i 12.9	16.7	1314.0	73.4	21.9	17.2	3
4	1257.0	0	11.8	e 12.5	1325.0	110.5	80.3	61.6	4
5	1257.0		i 10.8	10.8	1333.3	147.5	81.8	63.1	5
6	1257.0		i 9.8	9.8	1328.7	126.0	49.7	60.5	6
7	1257.0	[illegible]	i 8.8	8.8	1318.2	86.4	33.0	53.0	7
8	1257.0		i 7.8	7.8	1311.9	67.6	24.7	34.2	8
9	1257.0		i 6.8	6.8	1311.7	67.1	23.5	23.7	9
10	1257.0	0	i 5.8	5.8	1311.6	66.9	20.4	20.5	10
11	1268.1	1.7	4.9	4.0	1311.5	66.6	17.8	18.0	11
12	1281.0	9.4	3.9	0	1311.4	66.3	15.6	15.7	12
13	1287.2	16.0	3.3	0	1311.3	66.1	13.6	13.7	13
14	1291.4	22.2	3.1	0	1311.2	65.8	12.3	12.5	14
15	1294.6	28.0	2.9	0	1311.2	65.8	11.5	11.5	15
16	1297.4	33.6	2.9	0	1311.2	65.8	11.0	11.0	16
17	1299.9	39.0	2.7	0	1311.3	66.1	11.0	10.8	17
18	1302.1	43.8	2.4	0	1311.2	65.8	11.7	11.9	18
19	1303.9	48.0	2.1	0	1311.2	65.8	10.7	10.7	19
20	1305.4	51.5	1.8	0	1311.1	65.6	i 10.2	10.3	20
21	1308.8	59.7	4.1	0	1311.1	65.6	i 9.7	9.7	21
22	1311.8	67.4	27.2	23.3	1311.1	65.6	i 9.3	9.3	22
23	1311.4	66.3	23.4	24.0	1311.0	65.3	i 8.9	9.0	23
24	1311.5	66.6	28.5	28.3	1311.0	65.3	i 8.5	8.5	24
25	1311.1	65.6	21.5	22.0	1311.0	65.3	i 8.1	8.1	25
26	1311.0	65.3	17.0	17.2	1311.0	65.3	7.9	i 7.9	26
27	1310.9	65.0	14.2	14.3	1311.0	65.3	7.7	i 7.7	27
28	1310.8	64.8	11.9	12.0	1311.0	65.3	7.6	i 7.6	28
29					1311.0	65.3	7.5	i 7.5	29
30					1311.0	65.3	7.4	i 7.4	30
31					1311.0	65.3	7.3	7.3	31
TOTAL			281.3	282.2			569.4	569.1	
Inf. Ac. Ft.			558.0				1129.4		
Outf. Ac. Ft.				559.7				1128.8	
Maximum Mean Daily Inflow			28.5				81.8		
Minimum Mean Daily Inflow			1.8				7.3		
Storage Change			-1.8			+0.5			
REMARKS									

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	Day
1	1310.8	64.8	e 7.2	7.5	1310.3	63.5	{ 2.4	** 2.4	1
2	1310.8	64.8	e 7.1	7.1	1310.3	63.5	2.4	2.4	2
3	1310.5	64.0	e 7.0	7.4	1310.3	63.5	2.4	2.4	3
4	1310.6	64.3	e 6.9	6.7	1310.2	63.2	2.4	2.7	4
5	1311.0	65.3	7.5	e 7.0	1310.2	63.2	2.3	** 2.4	5
6	1311.0	65.3	e 8.4	8.4	1310.3	63.5	i 2.3	2.2	6
7	1310.8	64.8	e 7.5	7.8	1310.1	63.0	i 2.3	2.5	7
8	1311.1	65.6	e 8.0	7.5	1310.1	63.0	i 2.2	2.2	8
9	1311.1	65.6	i 7.6	7.6	1310.1	63.0	i 2.1	2.1	9
10	1310.9	65.0	i 7.2	7.6	1310.1	63.0	i 2.0	2.0	10
11	1311.0	65.3	i 6.8	6.6	1310.1	63.0	i 1.9	1.9	11
12	1311.1	65.6	i 6.4	6.2	1310.1	63.0	i 1.8	1.8	12
13	1311.1	65.6	i 6.1	6.1	1310.1	63.0	i 1.7	1.7	13
14	1311.1	65.6	i 5.8	5.8	1310.1	63.0	i 1.6	1.6	14
15	1311.2	65.8	e 5.5	5.4	1310.1	63.0	i 1.5	1.5	15
16	1311.0	65.3	i 5.1	5.4	1310.1	63.0	i 1.4	1.4	16
17	1311.0	65.3	i 4.7	4.7	1310.1	63.0	i 1.3	1.3	17
18	1311.1	65.6	i 4.3	4.1	1310.1	63.0	i 1.2	1.2	18
19	1311.1	65.6	i 4.0	4.0	1310.1	63.0	i 1.1	1.1	19
20	1311.0	65.3	i 3.7	3.9	1310.1	63.0	i 1.0	1.0	20
21	1310.9	65.0	i 3.4	3.6	1310.1	63.0	i 1.0	1.0	21
22	1310.8	64.8	e 3.1	3.2	1310.1	63.0	i 0.9	0.9	22
23	1310.7	64.5	i 3.0	3.1	1310.1	63.0	i 0.9	0.9	23
24	1310.6	64.3	i 2.9	3.0	1310.1	63.0	i 0.8	0.8	24
25	1310.6	64.3	i 2.8	2.8	1310.1	63.0	i 0.8	0.8	25
26	1310.6	64.3	i 2.7	2.7	1310.1	63.0	i 0.7	0.7	26
27	1310.5	64.0	i 2.6	2.8	1310.1	63.0	e 0.7	0.7	27
28	1310.6	64.3	i 2.6	2.4	1310.1	63.0	i 0.7	0.7	28
29	1310.6	64.3	i 2.5	2.5	1310.1	63.0	i 0.7	0.7	29
30	1310.5	64.0	e 2.5	2.7	1310.1	63.0	i 0.7	0.7	30
31					1310.1	63.0	i 0.7	0.7	31
TOTAL			154.9	155.6			45.9	46.4	
Inf. Ac. Ft.			307.2				91.0	2920.0	
Outf. Ac. Ft.				308.6			92.0	2899.5	
Maximum Mean Daily Inflow			8.4				2.4	161.8	
Minimum Mean Daily Inflow			2.5				0.7	0	
Storage Change		-1.3				-1.0		-5.8	
REMARKS								⅔ Year	

Max. W. S. Elev.	1354.3	feet	on	1-23-43	Storage	300.1	Acre Feet		
Min. W. S. Elev.	1257.±	feet	on	2-4 to 11-43	Storage	0	Acre Feet		
Max. Peak Inf.	520	C.F.S. from	1:00 A.M.	on 1-23-43	to	1:15 A.M.	on	1-23-43	
Max. Peak Outf.	284	C.F.S. from	4:00 A.M.	on 1-23-43	to	6:00 A.M.	on	1-23-43	

RECORDS COLLECTED BY		COMPUTATIONS	Date
R. E. Waddicor	Dam Tender	Gage Hts. copied	F.H.M. & L.T.
P. H. Haig	Hydrographer	Storage applied	F.H.M. & L.T.
T. M. Moon	Hydrographer	Inf. & Outf. computed	L. T.
		Checked	L. T.

Gage heights and storages as of midnight on day shown.

e = Estimated.
i = Interpolated.
** = Outflows based on U 5 & 22.
{ = Mean period.

F. C. Dist. Form 60 Revised 500 5/39

Storages based on L.A.C.F.C.D. survey of December 1943 (Table VI.)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of SAWPIT Dam
In Sawpit Canyon for the Year Ending September 30, 1943
Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1360.0 Ft.
Continuous Water Stage Recorder All
Gage Heights Read Daily

Day	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	Day
1	1310.1	63.0	0.7	0.7	1310.0	62.7	0.2	0.2	1
2	1310.1	63.0	0.7	0.7	1310.0	62.7	0.2	0.2	2
3	1310.1	63.0	0.7	0.7	1310.0	62.7	0.2	0.2	3
4	1310.1	63.0	0.7	0.7	1310.0	62.7	0.2	0.2	4
5	1310.1	63.0	0.7	0.7	1310.0	62.7	0.2	0.2	5
6	1310.1	63.0	0.7	0.7	1310.0	62.7	0.2	0.2	6
7	1310.1	63.0	0.7	0.7	1310.0	62.7	0.2	0.2	7
8	1310.1	63.0	0.7	0.7	1310.0	62.7	0.2	0.2	8
9	1310.1	63.0	0.7	0.7	1310.0	62.7	0.2	0.2	9
10	1310.1	63.0	0.7	0.7	1310.0	62.7	0.2	0.2	10
11	1310.1	63.0	0.6	0.6	1310.0	62.7	0.2	0.2	11
12	1310.1	63.0	0.6	0.6	1310.0	62.7	0.2	0.2	12
13	1310.1	63.0	0.6	0.6	1310.0	62.7	0.2	0.2	13
14	1310.1	63.0	0.5	(*) 0.5	1310.0	62.7	0.2	0.2	14
15	1310.1	63.0	0.5	0.5	1310.0	62.7	0.2	0.2	15
16	1310.1	63.0	0.5	0.5	1310.0	62.7	0.2	0.2	16
17	1310.1	63.0	0.4	0.4	1310.0	62.7	0.2	0.2	17
18	1310.1	63.0	0.5	0.5	1310.0	62.7	0.2	0.2	18
19	1310.1	63.0	0.4	0.4	1310.0	62.7	0.3	0.3	19
20	1310.1	63.0	0.3	0.3	1310.0	62.7	0.3	0.3	20
21	1310.1	63.0	0.3	0.3	1310.0	62.7	0.3	0.3	21
22	1310.1	63.0	0.2	0.2	1310.0	62.7	0.3	0.3	22
23	1310.1	63.0	0.2	0.2	1310.0	62.7	0.4	0.4	23
24	1310.1	63.0	0.2	0.2	1310.0	62.7	0.4	0.4	24
25	1310.1	63.0	0.2	0.2	1310.0	62.7	0.4	0.4	25
26	1310.1	63.0	0.2	0.2	1310.0	62.7	0.4	0.4	26
27	1310.0	62.7	0.2	0.3	1310.0	62.7	0.3	0.3	27
28	1310.0	62.7	0.2	0.2	1310.0	62.7	0.3	0.3	28
29	1310.0	62.7	0.2	0.2	1310.0	62.7	0.3	0.3	29
30	1310.0	62.7	0.2	0.2	1310.0	62.7	0.2	0.2	30
31					1310.0	62.7	0.2	0.2	31
TOTAL			14.0	14.1			7.7	7.7	
Inf. Ac. Ft.			27.8				15.3		
Outf. Ac. Ft.				28.0				15.3	
Maximum Mean Daily Inflow			0.7				0.4		
Minimum Mean Daily Inflow			0.2				0.2		
Storage Change	-0.3					0			
REMARKS									

Day	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	1310.0	62.7	0.2	0.2	1308.0	57.7	0	0	1
2	1310.0	62.7	0.2	0.2	1308.0	57.7	0.05	0	2
3	1310.0	62.7	0.2	0.2	1308.0	57.7	0.05	0	3
4	1310.0	62.7	0.1	0.1	1308.1	58.0	0.05	0	4
5	1310.0	62.7	0.1	0.1	1308.1	58.0	0.05	0	5
6	1310.0	62.7	0.1	0.1	1308.1	58.0	0	0	6
7	1310.0	62.7	0.1	0.1	1308.1	58.0	0	0	7
8	1310.0	62.7	0.1	0.1	1308.1	58.0	0	0	8
9	1309.9	62.5	{ 0.1	0.2	1308.1	58.0	0	0	9
10	1309.8	62.2	0.1	0.2	1308.1	58.0	0	0	10
11	1309.7	62.0	0.1	0.2	1308.1	58.0	0	0	11
12	1309.6	61.7	0.1	0.2	1308.1	58.0	0	0	12
13	1309.5	61.5	+	0.2	1308.1	58.0	0	0	13
14	1309.4	61.2	+	0.2	1308.1	58.0	0	0	14
15	1309.3	61.0	+	0.2	1308.1	58.0	0	0	15
16	1309.2	60.7	+	0.2	1308.1	58.0	0	0	16
17	1309.1	60.5	+	0.2	1308.1	58.0	0	0	17
18	1309.0	60.2	+	0.2	1308.1	58.0	0	0	18
19	1308.9	60.0	+	0.1	1308.1	58.0	0	0	19
20	1308.7	59.5	+	0.1	1308.1	58.0	0	0	20
21	1308.6	59.2	+	0.1	1308.1	58.0	0	0	21
22	1308.5	59.0	+	0.1	1308.1	58.0	0	0	22
23	1308.4	58.7	+	0.1	1308.1	58.0	0	0	23
24	1308.3	58.5	+	0.1	1308.1	58.0	0	0	24
25	1308.2	58.2	+	0.1	1308.1	58.0	0	0	25
26	1308.0	57.7	+	0.1	1308.1	58.0	0	0	26
27	1308.0	57.7	+	+	1308.1	58.0	0	0	27
28	1308.0	57.7	+	+	1308.1	58.0	0	0	28
29	1308.0	57.7	0	0	1308.1	58.0	0	0	29
30	1308.0	57.7	0	0	1308.1	58.0	0	0	30
31	1308.0	57.7	0	0					31
TOTAL			1.4	3.9			0.2	0	
Inf. Ac. Ft.			2.8				0.4	2966.3	
Outf. Ac. Ft.				7.7			0	2950.5	
Maximum Mean Daily Inflow			0.2				0.05	161.8	
Minimum Mean Daily Inflow			0				0	0	
Storage Change		-5.0				+0.3		* -10.8	
REMARKS								Yearly Totals	

Max. W. S. Elev.	1354.3	feet	on	1-23-43	Storage	300.1	Acre Feet		
Min. W. S. Elev.	1257.±	feet	on	2-4 to 11-43	Storage	0	Acre Feet		
Max. Peak Inf.	520	C.F.S. from	1:00 A.M.	on 1-23-43	to	1:15 A.M.	on	1-23-43	
Max. Peak Outf.	284	C.F.S. from	4:00 A.M.	on 1-23-43	to	6:00 A.M.	on	1-23-43	

RECORDS COLLECTED BY		COMPUTATIONS	Date
R. E. Waddicor	Dam Tender	Gage Hts. copied	F.H.M. & L.T.
P. H. Haig	Hydrographer	Storage applied	H.A.V. & L.T.
T. M. Moon	Hydrographer	Inf. & Outf. computed	H.A.V. & L.T.
		Checked	L. T.

Gage heights and storages as of midnight on day shown.

(*) - Flows from Sta. 278 beginning 6-14-43 * Includes storage correction for 25.4 A. F. of debris loss.
{ = Mean for period.

SAN GABRIEL NO. 2

F. C. Dist. Form 68 Revised 500 5/39

Storages based on Debris Determinations of November 28, 1941 - (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Gabriel - West Fork for the Year Ending September 30, 1943

Drainage Area 40.4 Square Miles. Capacity of Reservoir 10914.9 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	Day
1	2194.0	1.4	0.7	0.7	2204.0	113.6	0.9	0.7	2214.9	38.5	1.5	0.8	2225.1	104.4	2.5	5.9	1
2	2194.0	1.4	0.7	0.7	2204.1	115	0.8	0.7	2215.3	40.4	1.6	0.8	2224.5	98.2	2.6	5.7	2
3	2194.0	1.4	0.7	0.7	2204.3	118	0.8	0.7	2215.7	41.6	1.6	0.8	2223.9	92.1	3.0	6.1	3
4	2194.0	1.4	0.7	0.7	2204.5	122	0.9	0.7	2216.1	43.2	1.6	0.8	2223.2	85.8	3.0	6.3	4
5	2194.0	1.4	0.7	0.7	2204.6	123	0.8	0.7	2216.5	44.9	1.6	0.8	2222.5	79.6	2.9	5.9	5
6	2194.0	1.4	0.7	0.7	2204.9	128	0.9	0.7	2217.0	47.0	1.9	0.8	2221.8	74.1	2.7	5.5	6
7	2194.0	1.4	0.7	0.7	2205.2	134	1.0	0.7	2217.5	49.3	2.0	0.8	2221.0	68.4	2.8	5.1	7
8	2194.0	1.4	0.7	0.7	2205.5	139	1.0	0.7	2218.1	52.1	2.2	0.8	2220.1	62.8	2.8	5.1	8
9	2194.0	1.4	0.7	0.7	2205.7	143	0.9	0.7	2218.6	54.7	2.1	0.8	2219.1	57.3	2.7	4.8	9
10	2194.0	1.4	0.7	0.7	2205.9	146	0.9	0.7	2219.0	56.7	1.9	0.9	2218.7	60.6	2.8	2.4	10
11	2194.0	1.4	0.7	0.7	2206.2	152	0.9	0.7	2219.4	58.9	2.0	0.9	2220.5	65.3	2.8	0.9	11
12	2194.0	1.4	0.7	0.7	2206.4	156	0.9	0.7	2219.7	60.6	1.7	0.9	2221.7	69.1	2.8	0.9	12
13	2194.0	1.4	0.7	0.7	2206.6	159	0.9	0.7	2220.0	62.2	1.7	0.9	2222.3	73.4	3.1	0.9	13
14	2194.0	1.4	0.7	0.7	2206.9	165	1.0	0.7	2220.2	63.4	1.7	0.9	2222.8	78.0	3.2	0.9	14
15	2194.0	1.4	0.7	0.7	2207.2	171	1.0	0.7	2220.5	65.3	1.7	0.9	2223.3	82.1	3.0	0.9	15
16	2194.0	1.4	0.7	0.7	2207.5	178	1.0	0.7	2220.8	67.2	1.9	0.9	2223.3	86.5	3.1	0.9	16
17	2194.0	1.4	0.7	0.7	2207.8	184	1.0	0.7	2221.1	69.1	1.8	0.9	2223.7	90.2	2.8	0.9	17
18	2194.0	1.4	0.7	0.7	2208.3	195	1.3	0.7	2221.4	71.2	2.0	0.9	2224.1	94.0	2.8	0.9	18
19	2194.0	1.4	0.7	0.7	2209.3	217	1.8	0.7	2221.7	73.4	2.0	0.9	2224.5	98.2	2.8	1.0	19
20	2194.0	1.4	0.7	0.7	2210.1	237	1.7	0.7	2222.0	75.5	2.0	0.9	2224.8	101.2	2.8	1.0	20
21	2194.0	1.4	0.7	0.7	2210.7	252	1.6	0.8	2222.3	78.0	1.9	0.9	2226.1	115.7	8.3	1.0	21
22	2194.0	1.4	0.7	0.7	2211.2	266	1.5	0.8	2222.5	79.6	1.9	0.9	2348.6	6345.1	3340.7	*2000	22
23	2194.0	1.4	0.7	0.7	2211.7	280	1.5	0.8	2222.8	82.1	2.2	0.9	2340.8	5562.8	4315.6	4710.0	23
24	2194.0	1.4	0.7	0.7	2212.1	291	1.4	0.8	2223.4	87.4	3.6	0.9	2335.6	5080.1	695.7	939.0	24
25	2194.0	1.4	0.7	0.7	2212.5	304	1.4	0.8	2224.9	102.3	8.5	1.0	2318.6	3749.6	385.3	1054.0	25
26	2194.0	1.4	0.7	0.7	2212.9	316	1.4	0.8	2225.3	106.7	3.2	1.0	2297.7	2467.0	346.5	993.0	26
27	2194.0	1.4	0.7	0.7	2213.3	329	1.4	0.8	2225.7	111.1	3.2	1.0	2293.8	2257.0	223.1	329.0	27
28	2200.7	6.8	3.4	0.7	2213.7	343	1.5	0.8	2226.1	115.7	3.1	1.0	2294.1	2272.8	151.1	*143.0	28
29	2202.9	9.7	2.2	0.7	2214.1	357	1.6	0.8	2226.4	119.3	3.0	1.0	2294.6	2299.3	104.4	91.0	29
30	2203.5	10.6	1.1	0.7	2214.5	371	1.5	0.8	2226.3	118.1	2.6	3.2	2297.1	2434.0	160.9	*93.0	30
31	2203.8	11.0	0.9	0.7					2225.7	111.1	2.7	6.2	2303.4	2791.6	280.4	*100.0	31
TOTAL			30.4	25.6			35.2	22.0			72.4	35.1			10067.0	8715.0(0.6)	
Inf. Ac. Ft.			60.3				69.8				143.6				19967.6	20241.5	
Outf. Ac. Ft.			50.8				43.6				69.6				17285.8+(1.2)	17450.0+(1.2)	
Maximum Mean Daily Inflow			3.4				1.8				8.5				4318.6	4315.6	
Minimum Mean Daily Inflow			0.7				0.8				1.5				2.5	0.7	
Storage Change			+ 9.5				+ 26.2				+74.0				2680.5	27902	
REMARKS																⅛ Year	

Max. W. S. Elev.	2366.3	feet on	1-23-43	Storage	8383.1	Acre Feet		
Min. W. S. Elev.	2194.0	feet on	10-1 to 27-42	Storage	1.4	Acre Feet		
Max. Peak Inf.	15000	C.F.S. from	1:30 A.M. on	1-23-43	to 1:45 A.M. on	1-23-43		
Max. Peak Outf.	7100	C.F.S. from	2:00 A.M. on	1-23-43	to 3:00 A.M. on	1-23-43		

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY

E. Kenyon DeVore — Dam Tender
E. W. Godfrey — Hydrographer
Hydrographer

COMPUTATIONS — Date

Gage Hts. copied F. H. M.
Storage applied F. H. M.
Inf. & Outf. computed KFS 6-15-44
Checked C.C.G. & F. H.

Note: Outflows based on Sta. 251, & 209. *less 1.5% of outflow.
{ = Mean for period
C

F. C. Dist. Form 68 Revised 500 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Gabriel - West Fork for the Year Ending September 30, 1943

Drainage Area 40.4 Square Miles. Capacity of Reservoir 10914.9 Ac. Ft. at Spillway Elev. 2385.0 Ft.

Continuous Water Stage Recorder Pressure

Gage Heights Read Daily

Day	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	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	Day
1	2305.5	2915.9	167.8	*105.0	2345.5	6026.2	185.3	*185.0	2364.7	8183.5	68.9	68.0	2350.3	6524.6	35.0	80.0	1
2	2297.6	2461.5	153.1	*382.0	2345.6	6036.3	168.5	163.0	2364.7	8183.5	65.9	65.0	2349.5	6439.8	35.0	80.0	2
3	2289.1	2017.0	1140.0	364.0	2344.9	5965.6	578.3	614.0	2364.6	8171.2	58.7	64.0	2348.6	6345.1	33.0	80.0	3
4	2293.4	2236.1	126.3	* 15.8	2346.2	6097.2	2016.4	1950.0	2364.5	8158.8	57.6	63.0	2347.7	6251.4	33.1	79.0	4
5	2294.3	2283.8	87.0	63.0	2346.2	6097.2	985.1	985.0	2364.6	8171.2	70.8	64.0	2346.8	6158.5	33.1	76.0	5
6	2293.0	2215.2	62.7	97.0	2348.2	6303.3	649.0	545.0	2365.1	8233.1	99.2	68.0	2346.0	6076.7	33.0	78.0	6
7	2291.6	2143.1	58.8	95.0	2347.2	6199.7	491.0	543.0	2365.2	8245.5	75.5	69.0	2345.1	5985.7	33.5	79.0	7
8	2292.0	2163.5	79.3	69.0	2344.4	5915.5	395.9	539.0	2365.3	8258.0	76.3	70.0	2344.2	5895.5	32.3	82.0	8
9	2294.6	2299.3	83.2	14.6	2344.2	5895.5	357.0	367.0	2365.4	8270.5	73.7	67.0	2343.3	5806.2	32.3	78.0	9
10	2296.7	2412.2	71.7	14.6	2345.9	6066.6	320.4	234.0	2365.2	8245.5	66.7	79.0	2342.3	5708.0	32.3	74.0	10
11	2298.5	2511.4	65.3	15.1	2347.8	6261.7	281.5	183.0	2364.7	8183.5	66.0	97.0	2341.4	5620.6	26.6	70.0	11
12	2300.1	2601.2	61.7	16.2	2350.0	6492.6	234.8	118.0	2364.1	8109.4	61.0	98.0	2340.5	5534.1	24.1	67.0	12
13	2301.4	2675.5	55.6	17.8	2351.6	6664.2	207.1	120.0	2363.5	8035.8	64.5	101.0	2339.6	5448.5	23.5	66.0	13
14	2302.7	2750.7	58.2	20.0	2352.7	6783.8	184.6	124.0	2362.9	7962.5	67.5	104.0	2338.6	5354.5	22.4	66.0	14
15	2301.2	2664.0	45.5	89.0	2354.4	6971.4	177.9	83.0	2362.3	7889.7	69.6	106.0	2337.7	5271.0	22.3	65.0	15
16	2299.7	2578.6	45.1	88.0	2356.0	7151.1	156.0	65.0	2361.7	7817.3	69.6	106.0	2336.8	5188.5	22.3	65.0	16
17	2300.7	2635.4	41.6	12.8	2357.6	7334.2	162.7	70.0	2361.1	7745.2	64.4	106.0	2335.9	5107.0	22.6	63.0	17
18	2301.7	2692.8	42.0	12.8	2358.9	7485.0	149.1	73.0	2360.3	7650.0	64.3	106.0	2335.0	5026.5	23.4	64.0	18
19	2302.6	2744.9	39.6	13.1	2360.1	7626.2	142.5	71.0	2359.6	7567.2	63.5	108.0	2334.1	4947.1	23.4	63.0	19
20	2303.5	2797.5	40.1	13.4	2361.0	7733.2	124.4	70.0	2358.9	7485.0	63.4	101.0	2333.2	4868.9	23.4	63.0	20
21	2308.8	3115.8	175.9	15.4	2361.7	7817.3	110.9	68.0	2358.2	7403.5	56.4	97.0	2332.2	4783.2	23.3	63.0	21
22	2332.2	4783.2	866.6	* 26.0	2362.5	7914.0	119.1	70.0	2357.4	7311.1	47.2	90.0	2331.2	4699.0	23.3	65.0	22
23	2338.2	5317.2	630.2	361.0	2363.0	7974.6	101.0	* 70.0	2356.7	7230.9	47.2	90.0	2330.3	4624.4	23.8	64.0	23
24	2341.9	5668.9	536.5	359.0	2363.4	8023.6	95.3	70.0	2355.9	7139.8	41.9	87.0	2329.3	4542.8	23.9	64.0	24
25	2344.3	5905.5	385.5	266.0	2363.8	8072.5	95.2	70.0	2355.1	7049.6	39.1	84.0	2328.3	4462.7	23.9	62.0	25
26	2345.7	6046.4	301.4	230.0	2364.1	8109.4	88.2	69.0	2354.4	6971.4	39.6	82.0	2327.4	4391.8	24.6	60.0	26
27	2346.6	6076.7	255.5	*240.0	2364.3	8134.1	80.8	68.0	2353.6	6882.7	39.5	80.0	2326.5	4322.0	23.3	58.0	27
28	2345.5	6026.2	197.0	222.0	2364.5	8158.8	82.1	69.0	2352.8	6794.7	37.4	80.0	2325.5	4245.5	22.2	58.0	28
29					2364.6	8171.2	74.6	70.0	2352.0	6707.4	37.3	80.0	2324.6	4177.8	22.2	58.0	29
30					2364.7	8183.5	76.6	70.0	2351.2	6621.0	37.3	82.0	2323.7	4111.0	22.6	56.0	30
31					2364.7	8183.5	70.7	70.0					2322.8	4045.0	23.2	56.0	31
TOTAL			4873.2	3237.6	(4.8)		8962.0	7864.0	(10.4)		1790.0	2562.0	(15.8)		822.9	2101.0 (20.6)	
Inf. Ac. Ft.			9665.8				17759.9				3550.4				1632.2	52865.4	
Outf. Ac. Ft.			6421.7+(95)				15598.0 +(20.6)				5081.7 +(31.3)				4167.3+(40.9)	48718.6+(103.5)	
Maximum Mean Daily Inflow			866.6				2016.4				99.2				35.0	4315.6	
Minimum Mean Daily Inflow			40.1				70.7				37.3				22.2	0.7	
Storage Change			+3234.6				+2157.2				- 1562.6				- 2575.9+	4043.6	
REMARKS																⅞ Year	

Max. W. S. Elev.	2366.3	feet on	1-23-43	Storage	8383.1	Acre Feet		
Min. W. S. Elev.	2194.0	feet on	10-1 to 27-42	Storage	1.4	Acre Feet		
Max. Peak Inf.	15000	C.F.S. from	1:30 A.M. on	1-23-43	to 1:45 A.M. on	1-23-43		
Max. Peak Outf.	7100	C.F.S. from	2:00 A.M. on	1-23-43	to 3:00 A.M. on	1-23-43		

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY

E. Kenyon DeVore — Dam Tender
E. W. Godfrey — Hydrographer
Hydrographer

COMPUTATIONS — Date

Gage Hts. copied F.M. & C.C.G.
Storage applied F.M. & C.C.G.
Inf. & Outf. computed HAV 5-5-44
Checked P.H. & KFS 6-15-44

1 = Interpolated.
() = Total monthly percolation loss.
{ = Mean for period.

SAN GABRIEL NO. 2 (CONT.)

F. C. Dist. Form 66 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Gabriel - West Fork for the Year Ending September 30, 1943

Drainage Area 40.4 Square Miles. Capacity of Reservoir 10914.9 Ac. Ft. at Spillway Elev. 2385.0 Ft.

Continuous Water Stage Recorder Pressure

Gage Heights Read Daily

Day	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
1	2321.9	3980.1	21.1	54.0	2296.6	2406.8	7.1	32.0
2	2321.0	3916.1	21.1	52.0	2295.7	2358.1	7.1	32.0
3	2320.1	3853.1	21.1	50.0	2294.8	2309.9	7.1	34.0
4	2319.3	3797.7	21.1	50.0	2293.9	2262.3	7.1	32.0
5	2318.5	3742.8	21.0	50.0	2293.0	2215.2	7.1	31.0
6	2317.7	3688.4	20.3	49.0	2292.1	2168.7	7.1	30.0
7	2316.8	3627.9	20.3	47.0	2291.1	2117.5	7.0	29.0
8	2315.9	3568.0	19.3	46.0	2290.2	2072.0	7.0	29.0
9	2315.0	3508.7	19.3	46.0	2289.2	2022.0	7.0	30.0
10	2314.2	3456.6	18.3	45.0	2288.2	1972.6	7.0	30.0
11	2313.4	3405.0	18.2	43.0	2287.3	1928.7	6.6	28.0
12	2312.6	3353.8	17.2	42.0	2286.4	1885.4	6.6	28.0
13	2311.9	3309.3	17.2	42.0	2285.4	1837.8	6.6	28.0
14	2311.2	3265.1	16.2	42.0	2284.5	1795.6	6.6	28.0
15	•2310.4	3215.0	16.1	42.0	2283.6	1753.8	6.6	27.0
16	2309.5	3159.1	15.9	42.0	2282.7	1712.5	6.0	26.0
17	2308.7	3109.7	15.9	42.0	2281.8	1671.6	6.0	26.0
18	2307.8	3054.6	14.9	41.0	2280.9	1631.3	6.0	26.0
19	2307.0	3006.0	13.8	40.0	2280.0	1591.4	5.9	26.0
20	2306.1	2951.7	13.8	39.0	2279.2	1556.4	5.9	25.0
21	2305.2	2897.9	12.3	38.0	2278.5	1526.2	5.4	18.1
22	2304.3	2844.6	12.3	37.0	2278.2	1513.2	5.4	11.5
23	2303.4	2791.6	11.2	36.0	2278.1	1508.9	5.4	7.2
24	2302.6	2744.9	10.2	35.0	2277.8	1496.1	5.4	10.7
25	2301.8	2698.5	10.2	35.0	2277.1	1466.4	5.4	21.0
26	2300.9	2646.8	9.6	34.0	2276.2	1428.8	5.3	24.0
27	2300.1	2601.2	9.6	34.0	2275.4	1395.7	5.2	22.0
28	2299.2	2550.5	8.5	32.0	2274.7	1367.2	5.2	19.6
29	2298.4	2505.8	7.5	31.0	2274.1	1342.9	5.2	18.4
30	2297.5	2456.0	7.5	31.0	2273.5	1319.0	5.2	17.2
31					2272.8	1291.3	5.2	17.2
TOTAL			461.0	1247.0	(15.1)		191.7	763.9

Day	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
1	2272.2	1267.8	5.2	16.8	2257.1	792.9	4.5	14.4
2	2271.6	1244.6	5.2	16.0	2256.2	7[illegible]3.8	4.5	13.8
3	2271.6	1221.5	5.2	15.7	2254.3	730.6	4.5	26.0
4	2270.4	1198.9	5.2	15.0	2251.2	663.3	4.4	38.0
5	2269.9	1180.1	5.2	15.0	2247.8	598.3	4.4	37.0
6	2269.3	1157.8	5.2	15.4	2244.3	535.2	4.4	36.0
7	2268.7	1135.8	5.2	15.7	2244.3	534.4	4.3	4.5
8	2268.2	1117.5	5.2	15.0	2244.3	536.4	4.3	3.1
9	2267.9	1106.6	5.2	11.0	2244.2	534.6	4.3	5.0
10	2267.8	1103.0	5.2	7.8	2235.5	399.7	4.2	72.0
11	2267.6	1096.3	5.1	8.1	2217.8	257.1	4.2	76.0
12	2267.3	1089.6	5.1	8.1	2203.0	223.8	4.2	21.0
13	2267.1	1082.8	5.1	8.1	2202.0	222.0	4.1	5.0
14	2266.9	1076.1	5.1	8.1	2202.0	220.8	4.1	4.7
15	2266.8	1069.3	5.0	8.1	2202.0	220.2	4.1	4.4
16	2266.6	1062.6	5.0	8.1	2202.0	●220.0	4.0	4.1
17	2266.4	1055.7	5.0	8.1	2202.0		4.0	4.0
18	2266.1	1047.7	5.0	8.6	2202.0		4.0	4.0
19	2265.8	1038.4	4.9	9.3	2202.0		3.9	3.9
20	2265.5	1029.9	4.9	8.8	2202.0		3.8	3.8
21	2265.1	1022.3	4.9	8.3	2202.0	Reservoir Dry	3.8	3.8
22	2264.8	1014.8	4.9	8.3	2202.0		3.7	3.7
23	2264.2	997.5	4.8	13.2	2202.0		3.6	3.6
24	2263.5	974.5	4.8	16.0	2202.0		3.5	3.5
25	2262.7	952.1	4.8	15.7	2202.0		3.4	3.4
26	2262.0	929.5	4.7	15.7	2202.0		3.3	3.3
27	2261.2	906.3	4.7	16.0	2202.0		3.2	3.2
28	2260.4	883.1	4.7	16.0	2202.0		3.2	3.2
29	2259.6	859.9	4.6	16.0	2202.0		3.1	3.1
30	2258.8	836.7	4-.6	16.0	2202.0		3.0	3.0
31	2258.0	813.1	4.6	16.2				
TOTAL	(15.0)		154.3	384.2	(11.2)		118.0	414.5 (2…

	JUNE	JULY	AUGUST	SEPTEMBER	Yearly Totals
Inf. Ac. Ft.	914.4	380.2	306.0	234.0	54700.3
Outf. Ac. Ft.	2473.4 + (30.0)	1515.2+(29.7)	762.0 + (22.2)	822.1+(5.0)	53703.2+(190.4)
Maximum Mean Daily Inflow	21.1	7.1	5.2	4.5	4315.6
Minimum Mean Daily Inflow	7.5	5.2	4.6	3.0	0.7
Storage Change	1589.0	1164.7	478.2	593.1	●- 1.4
REMARKS					

Max. W. S. Elev.	2366.3	feet	on	1-23-43	Storage	8383.1	Acre Feet		
Min. W. S. Elev.	2194.0	feet	on	10-1 to 27-42	Storage	1.4	Acre Feet		
Max. Peak Inf.	15000	C.F.S. from	1:30 A.M.	on 1-23-43	to	1:45 A.M.	on	1-23-43	
Max. Peak Outf.	7100	C.F.S. from	2:00 A.M.	on 1-23-43	to	3:00 A.M.	on	1-23-43	

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY		COMPUTATIONS	Date
E. Kenyon DeVore	Dam Tender	Gage Hts. copied	F. H. M.
E. W. Godfrey	Hydrographer	Storage applied	F. H. M.
	Hydrographer	Inf. & Outf. computed	KFS 6-15-44
		Checked	P.H. 5-3-44

● = Loss due to debris loss = 220.0 A. F.
+ () = Total evaporation in A. F.
{ = Mean for period.

SAN GABRIEL NO. 1

F. C. Dist. Form 66 Revised 600 5/39

*Storages to January 25 based on L.A.C.F.C.D. survey of October 1942 (Table VII)
Storages from January 26 based on L.A.C.F.C.D. survey of March 1943 (Table VIII)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Gabriel Canyon for the Year Ending September 30, 1943

Drainage Area 202. Square Miles. Capacity of Reservoir *45759 Ac. Ft. at Spillway Elev. 1453.0 Ft.

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
1	**1275±	259	21.5	22.4	1281.30	398	23.1	0.2
2	1275±	256	21.2	22.5	1282.00	441	22.1	0.2
3	1275±	254	20.9	21.8	1283.00	485	22.5	0.2
4	1275±	252	20.5	21.3	1283.35	499	23.4	16.2
5	1275±	250	20.2	21.1	1283.35	499	24.8	24.6
6	1273±	250	20.1	20.0	1283.25	496	23.7	25.0
7	1273±	248	20.1	21.1	1283.25	496	24.0	23.8
8	1273±	246	20.0	20.9	1283.30	498	24.2	23.0
9	1273±	245	20.6	21.0	1283.35	500	24.2	23.0
10	1273±	245	20.6	20.4	1283.35	500	23.2	23.0
11	1274±	245	21.0	20.9	1283.35	500	23.3	23.0
12	1274±	256	32.6	26.8	1283.35	500	23.2	23.0
13	1274±	244	24.0	30.0	1283.35	500	23.2	23.0
14	1274±	243	23.4	23.8	1283.35	500	23.1	23.0
15	1274±	242	22.9	23.3	1283.40	502	24.1	23.0
16	1274±	241	22.4	22.7	1283.45	504	24.1	23.0
17	1274±	241	22.0	21.8	1283.50	506	24.1	23.0
18	1274±	241	21.6	21.5	1283.60	510	24.7	22.6
19	1274±	240	21.2	21.5	1284.05	529	32.2	22.6
20	1274±	239	20.7	21.0	1284.30	540	28.8	23.0
21	1274±	239	20.2	20.0	1284.50	549	27.7	23.0
22	1274±	238	19.8	20.1	1284.65	556	26.7	23.0
23	1274±	238	20.2	20.1	1284.80	562	26.3	23.0
24	1274±	237	20.6	21.0	1284.90	566	25.2	23.0
25	1274±	237	21.1	21.0	1285.00	571	25.6	23.0
26	1274±	237	21.7	21.6	1285.05	574	25.4	23.7
27	1274±	237	21.2	21.2	1285.05	574	25.1	25.0
28	1274±	237	34.0	34.0	1285.10	576	26.1	25.0
29	1277.2	260	31.0	19.3	1285.10	576	25.2	25.0
30	1280.1	304	25.1	2.8	1285.10	576	25.1	25.0
31	1280.8	353	25.4	0.5				
TOTAL			697.8	647.4			744.4	627.1

Day	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
1	1285.05	573	23.6	25.0	1282.75	475	32.4	28.8
2	1285.05	573	25.1	25.0	1282.95	483	33.0	28.8
3	1285.05	573	25.9	25.8	1283.10	489	32.0	28.8
4	1284.95	569	24.8	26.7	1283.25	495	32.5	29.3
5	1284.90	567	25.8	26.7	1283.40	502	32.5	28.8
6	1284.85	564	25.3	26.7	1283.55	508	32.1	28.8
7	1284.80	562	25.7	26.7	1283.65	512	31.1	28.8
8	1284.80	562	26.8	26.7	1283.70	514	30.0	28.8
9	1284.75	560	25.9	26.7	1283.75	516	30.0	28.8
10	1284.70	558	25.9	26.7	1283.80	519	30.5	28.8
11	1284.60	553	25.1	27.5	1283.70	514	26.5	28.8
12	1284.45	547	25.2	28.0	1283.60	510	27.0	28.8
13	1284.30	540	24.7	28.0	1283.45	504	25.4	28.2
14	1284.15	534	25.1	28.0	1283.35	500	25.2	27.1
15	1284.00	527	24.7	28.0	1283.20	493	23.7	27.1
16	1283.85	521	25.2	28.0	1283.10	489	26.0	28.0
17	1283.70	514	24.5	28.0	1282.95	483	25.1	28.0
18	1283.60	510	26.1	28.0	1282.85	479	25.3	27.2
19	1283.45	504	25.1	28.0	1282.80	477	25.8	26.7
20	1283.35	500	26.1	28.0	1282.75	475	25.8	26.7
21	1283.20	493	24.6	28.0	1283.50	506	42.4	27.7
22	1283.10	489	25.5	27.5	1375.50	14955	7587.7	303
23	1283.00	485	25.1	27.1	1418.30	29656	17183.7	9772
24	1283.25	476	32.3	26.7	1385.10	17813	3151.2	9122
25	1283.60	510	52.3	45.2	1368.30	12973	1950.8	4391
26	1283.10	489	33.2	43.6	1364.50	10716*	1869.9	2368
27	1282.95	483	31.4	34.3	1364.90	10802	1237.8	1194
28	1282.75	475	30.4	34.3	1365.50	10932	851.7	786
29	1282.50	466	29.3	33.8	1366.80	11217	695.9	552
30	1282.40	462	29.6	31.5	1366.30	11552	715.9	547
31	1282.55	468	32.0	28.8	1370.50	12056	802.2	548
TOTAL			852.3	903.0			36661.1	30174.8

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	½ Year
Inf. Ac. Ft.	1384.1	1476.5	1690.5	72716.2	77267.3
Outf. Ac. Ft.	1284.1+(7.9)	1243.8+(9.7)	1791.1+(7.3)	59850.8+(8.3)	64169.8+(33.2)
Maximum Mean Daily Inflow	34.0	32.2	52.3	17183.7	17183.7
Minimum Mean Daily Inflow	19.8	22.1	23.6	23.7	19.8
Storage Change	+92	+223	-108	+ 11588	+11795
REMARKS					

Max. W. S. Elev.	1422.4	feet	on	1-23-43	Storage	31,345	Acre Feet		
Min. W. S. Elev.	1275.77	feet	on	10-28-42	Storage	235.9	Acre Feet (Sump only)		
Max. Peak Inf.	46,000	C.F.S. from	1:00 A.M.	on 1-23-43	to	1:30 A.M.	on	1-23-43	
Max. Peak Outf.	10,360	C.F.S. from	4:00 P.M.	on 1-23-43	to	6:00 P.M.	on	1-23-43	

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY		COMPUTATIONS	Date
R. H. Harrison	Dam Tender	Gage Hts. copied	K. F. S.
G. H. Middleton	Hydrographer	Storage applied	K. F. S.
	Hydrographer	Inf. & Outf. computed	HAV & PAH
		Checked	P.A.H. 9-20-1944

() = Monthly total evaporation loss.
* = Corrected for 1269 A.F. capacity lost due to debris.
** = Reservoir gage heights above Coffer-dam: storages include storage below Coffer-dam.

SAN GABRIEL NO. 1 (CONT.)

F. C. Dist. Form 88 Revised 500 5/39

Storages to April 7 based on L.A.C.F.C.D. survey of March 1943 (Table VIII). Storages from May 5 based on debris determination of April 2, 1943 (Table VIIIb) storages for intervening period computed from this table and outflow and inflow records.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Gabriel Canyon for the Year Ending September 30, 1943.

Continuous Water Stage Recorder Au

Drainage Area 202. Square Miles. Capacity of Reservoir 45759 Ac. Ft. at Spillway Elev. 1453.0 Ft.

Gage Heights Read Daily

Day	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	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	Day
1	1371.60	12315	679.4	548.0	1374.05	12910	967.3	1092.6	1355.10	8765	509.4	706.4	1357.10	8483	408	1058.4	1
2	1372.45	12519	745.3	642.0	1376.40	13504	867.8	568.0	1354.90	8725	500.7	519.3	1350.00	7160	397	1062.7	2
3	1364.85	10791	1004.3	1875.0	1378.40	14027	1843.2	1579.5	1358.70	9497	484.1	94.0	1342.15	5825	388	1060.2	3
4	1367.95	11473	434.3	90.0	1389.50	17224	6480.5	4868.7	1362.20	10225	461.2	93.3	1333.30	4498	385	1053.6	4
5	1367.25	11317	470.9	549.0	1380.80	14675	4268.4	5552.0	1365.70	10976	472.8	93.6	1326.70	3601	370	821.4	5
6	1365.95	11030	532.3	676.0	1375.70	13325	2803.5	3484.9	1365.55	11836	528.3	94.7	1321.95	3030	345	632.3	6
7	1363.75	10555	499.1	738.0	1377.40	13764	2363.1	2141.4	1372.70	12579	468.9	94.0	1317.20	2510	339	600.7	7
8	1362.90	10374	492.2	583.0	1376.90	13632	2075.4	2141.4	1375.95	11520*	515.0	93.8	1314.95	2280	341	456.0	8
9	1365.35	10900	358.0	92.0	1373.95	12886	1765.4	2141.7	1378.75	12325	501	94.7	1314.65	2250	335	349.1	9
10	1366.45	11140	324.7	203.0	1371.90	12336	1524.8	1776.3	1381.35	13101	485	93.4	1314.45	2231	323	331.6	10
11	1368.30	11552	301.5	92.8	1376.95	13646	1388.1	752.0	1383.90	13885	490	93.3	1316.00	2386	316	237.1	11
12	1369.95	11928	284.1	93.3	1377.45	13777	1179.6	1112.6	1386.30	14655	483	93.7	1316.35	2422	313	294.1	12
13	1371.50	12292	278.3	93.6	1377.35	13751	1098.8	1111.3	1388.50	15406	473	93.3	1316.65	2452	311	294.9	13
14	1373.00	12652	275.6	92.6	1376.70	13582	1026.5	1111.3	1390.70	16145	465	91.7	1317.05	2494	309	287.2	14
15	1374.70	13072	306.8	93.3	1375.35	13236	937.5	1111.3	1392.75	16883	465	92.6	1317.30	2520	304	290.1	15
16	1374.40	12997	402.5	439.0	1373.20	12701	842.4	1111.3	1394.75	17615	463	93.0	1317.35	2525	301	297.5	16
17	1373.55	12787	289.0	394.0	1371.60	12315	831.2	1025.6	1396.65	18339	458	92.0	1312.90	2080	297	520.6	17
18	1373.05	12664	271.8	333.0	1369.65	11858	818.9	1048.6	1398.55	19045	449	91.3	1304.00	1316	294	678.1	18
19	1372.75	12591	264.0	300.0	1369.30	11779	760.9	800.0	1400.35	19738	442	91.7	1293.95	708	292	597.9	19
20	1372.45	12519	264.4	300.0	1367.95	11473	710.6	864.1	1402.15	20432	443	92.0	1291.20	595	292	348.7	20
21	1374.40	12997	618.5	377.0	1368.30	11552	661.6	621.3	1398.05	19028	437	1143.2	1291.00	588	287	290.3	21
22	1381.05	14747	2009.3	1127.0	1368.55	11608	649.9	621.3	1395.10	18054	433	921.8	1291.10	591	276	274.3	22
23	1383.60	15466	2245.5	1883.0	1368.45	11585	611.5	622.0	1392.10	17086	435	921.1	1297*	862	271	134.1	23
24	1384.00	15580	1948.7	1891.0	1368.05	11495	578.6	622.6	1389.00	16141	436	911.1	1304.30	1339	268	27.1	24
25	1381.60	14900	1761.3	2103.3	1368.05	11495	549.7	548.7	1385.80	15206	437	906.5	1308.05	1642	266	112.8	25
26	1374.30	12972	1340.9	2312.3	1369.10	11733	544.6	423.8	1382.45	14253	423	902.4	1311.60	1958	266	106.3	26
27	1375.20	13198	1200.0	1085.2	1369.90	11916	541.6	448.5	1378.90	13312	419	891.5	1314.80	2265	262	106.5	27
28	1375.05	13160	1074.1	1092.6	1368.10	11507	532.2	737.6	1376.95	12842	417	652.5	1317.70	2562	257	106.6	28
29					1365.50	10932	546.9	836.2	1369.55	11048	419	1321.8	1320.45	2861	251	99.6	29
30					1360.25	9817	523.5	1084.6	1363.60	9777	408	1046.6	1322.95	3146	249	104.7	30
31					1357.05	9159	513.8	844.0					1325.20	3415	243	106.7	31
TOTAL			20676.8	20099.0			40807.8	42805.2			13821.4	12520.3			9556	12743.2	
Inf. Ac. Ft.			41011.8				80941.1				27414.3				18954	245588.5	
Outf. Ac. Ft.			39865.8+(42.0)				84902.8+(39.3)				24833.6 +(68.6)				25271.8 +(44.2)	25038.4+(27.3)	
Maximum Mean Daily Inflow			2245.5				6480.5				528.3				408	17183.7	
Minimum Mean Daily Inflow			264.0				513.8				408.				243	19.8	
Storage Change			+1104				-4001				+618				-6362	+3154	
REMARKS																½ Year	

Max. W. S. Elev. 1422.4 feet on 1-23-43 Storage 31,345 Acre Feet

Min. W. S. Elev. 1275.77 feet on 10-28-42 Storage 235.9 Acre Feet (Sump only)

Max. Peak Inf. 46,000 C.F.S. from 1:00 A.M. on 1-23-43 to 1:30 A.M. on 1-23-43

Max. Peak Outf. 10,360 C.F.S. from 4:00 P.M. on 1-23-43 to 6:00 P.M. on 1-23-43

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY

R. H. Harrison — Dam Tender

G. H. Middleton — Hydrographer

Hydrographer

COMPUTATIONS — Date

Gage Hts. copied K. F. S.

Storage applied K. F. S.

Inf. & Outf. computed HAV & PAH

Checked P.A.H. 9-20-1944

() = Monthly total evaporation loss.

* = Corrected for 1894 A.F. capacity lost due to debris.

F. C. Dist. Form 88 Revised 500 5/39

Storages to July 13 - (Table VIIIb). Storages to September 8 - (Table VIII). Storages from September 9 - (Table VIIIc).

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In San Gabriel Canyon for the Year Ending September 30, 1943.

Continuous Water Stage Recorder Au

Drainage Area 202. Square Miles. Capacity of Reservoir 45759 Ac. Ft. at Spillway Elev. 1453.0 Ft.

Gage Heights Read Daily

Day	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	1322.90	3140	243	381.1	1291.55	608	137	146.8	1286.0	437	81.0	81.0		424	67.0	68.2	1
2	1322.55	3100	239	258.5	1291.45	603	135	137.3		436	84.0	84.0		421	66.0	67.2	2
3	1319.75	2783	231	390.4	1295.70	794	135	38.4		436	85.0	85.0		419	72.0	73.2	3
4	1316.80	2468	228	386.3	1297.95	916	134	72.1		435	85.0	85.0	STORAGE BELOW CONFER-DAM ONLY	416	88.0	89.2	4
5	1313.70	2157	219	375.1	1297.45	888	133	146.5		435	84.0	84.0		413	86.0	87.2	5
6	1310.30	1839	216	375.7	1291.92	621	130	264.3		435	82.0	81.9		410	84.0	85.2	6
7	1309.45	1764	212	249.2	1291.35	599	127	137.8		434	80.0	80.0		408	64.0	65.2	7
8	1311.95	1990	210	95.3	1290.35	567	127	142.8		434	76.0	75.9	1284.8	405	52.0	53.2	8
9	1314.20	2206	208	98.4	1289.55	544	127	138.3		433	70.0	70.0	1287.65	430.7*	51.0	30.0	9
10	1316.30	2417	206	99.1	1289.40	540	126	127.9		433	66.0	65.9	1290.10	632	102.0	0.1	10
11	1316.25	2412	207	209.0	1292.00	624	122	79.4		433	65.0	64.9	1294.65	842	127.6	21.3	11
12	1314.35	2221	212	307.9	1290.45	571	119	145.5		432	64.0	64.0	1296.75	952	80.1	24.0	12
13	1312.10	2004	210	318.9	1288.25	508	116	147.7		432	63.0	63.0	1297.65	1005	55.7	28.3	13
14	1309.40	1759	205	327.7		504	115	116.8		431	63.0	63.0	1298.80	1076	52.9	16.5	14
15	1306.40	1505	196	323.2		500	114	115.8		431	61.0	60.9	1299.30	1108	50.2	33.5	15
16	1303.40	1271	191	308.1		496	113	114.8		431	59.0	58.9	1299.10	1095	51.0	56.9	16
17	1302.50	1206	186	218.0		492	109	110.8		430	60.0	60.0	1298.80	1076	48.1	56.9	17
18	1304.80	1377	182	95.0		488	109	110.8		430	61.0	60.9	1298.75	1072	49.6	51.2	18
19	1301.20	1116	176	307.0		484	105	106.8		429	63.0	62.9	1298.80	1076	48.3	45.6	19
20	1296.60	841	169	306.8		480	102	103.7		429	63.0	62.9	1298.85	1079	47.7	45.6	20
21	1297.40	885	166	143.1		476	94	95.8		429	62.0	61.9	1298.90	1082	47.6	45.6	21
22	1294.25	722	162	243.6		472	83	84.7		429	61.0	60.9	1298.90	1082	46.3	45.6	22
23	1294.45	732	158	152.4		468	81	82.7		429	63.0	62.9	1298.90	1082	46.0	45.6	23
24	1294.70	744	152	145.4		464	80	81.7		428	65.0	64.8	1299.00	1088	48.4	45.1	24
25	1294.60	739	147	149.1		461	86	87.7		428	65.0	64.8	1299.15	1098	50.5	45.1	25
26	1293.80	701	146	164.5		457	87	88.7		428	65.0	64.8	1299.35	1111	52.0	45.1	26
27	1293.50	688	145	151.1		453	87	88.8		428	65.0	64.8	1299.15	1098	49.5	55.6	27
28	1293.10	670	144	152.6		449	84	85.8		428	65.0	64.9	1298.50	1057	51.1	71.4	28
29	1292.50	645	142	154.2		445	81	82.7		427	65.0	64.8	1297.75	1011	47.1	69.7	29
30	1292.10	628	140	148.3		441	79	80.6		427	67.0	66.9	1296.95	964	45.4	68.6	30
31					1286.00	437	79	80.7	1285.6	427	67.0	66.9					31
TOTAL			5648	7035.0			3356	3444.2			2125.0	2122.5			1827.1	1535.9	
Inf. Ac. Ft.			11202.6				6656.5				4214.9				3624.0	2712865	
Outf. Ac. Ft.			13953.7+(35.9)				6831.5+(16.1)				4209.9+(14.9)				3046.4 +(25.2)	26785.3+(19.4)	
Maximum Mean Daily Inflow			243				137				85				127.6	17183.7	
Minimum Mean Daily Inflow			140				79				59				45.4	19.8	
Storage Change			2787				-191				-10				+537	+703	
REMARKS																Yearly Totals	

Max. W. S. Elev. 1422.4 feet on 1-23-43 Storage 31,345 Acre Feet

Min. W. S. Elev. 1275.77 feet on 10-28-42 Storage 235.9 Acre Feet (Sump only)

Max. Peak Inf. 46,000 C.F.S. from 1:00 A.M. on 1-23-43 to 1:30 A.M. on 1-23-43

Max. Peak Outf. 10,360 C.F.S. from 4:00 P.M. on 1-23-43 to 6:00 P.M. on 1-23-43

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY

R. H. Harrison — Dam Tender

G. H. Middleton — Hydrographer

Hydrographer

COMPUTATIONS — Date

Gage Hts. copied K. F. S.

Storage applied K. F. S.

Inf. & Outf. computed HAV & PAH

Checked P.A.H. 9-20-1944

() = Monthly total evaporation loss.

* = Corrected for 15.6 A.F. capacity lost due to debris.

BIG DALTON

F. C. Dist. Form 68 Revised 6/30 5/35

Storages based on L. A. C. F. C. D. silt survey following March 2, 1938 (Table IV)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Big Dalton Canyon for the Year Ending September 30, 1943

Continuous Water Stage Recorder Au

Drainage Area 4.5 Square Miles. Capacity of Reservoir 968.7 Ac. Ft. at Spillway Elev. 1706.0 Ft.

Gage Heights Read Daily

Day	OCTOBER				NOVEMBER				DECEMBER				JANUARY				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	
1			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	1
2			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	2
3			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	3
4			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	4
5			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	5
6			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	6
7			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	7
8	Reservoir Dry		0.1	0.1	Reservoir Dry		0.1	0.1	Reservoir Dry		0.1	0.1	Reservoir Dry		0.1	0.1	8
9		No Storage	0.1	0.1		No Storage	0.1	0.1		No Storage	0.1	0.1		No Storage	0.1	0.1	9
10			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	10
11			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	11
12			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	12
13			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	13
14			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	14
15			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	15
16			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	16
17			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	17
18			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	18
19			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	19
20			0.1	0.1			0.1	0.1			0.1	0.1			0.1	0.1	20
21			0.1	0.1			0.1	0.1			0.1	0.1	1593.0	0	0.1	0.1	21
22			0.1	0.1			0.1	0.1			0.1	0.1	1647.0	1260	68.6	5.1	22
23			0.1	0.1			0.1	0.1			0.1	0.1	1676.9	4370	160.2	3.4	23
24			0.1	0.1			0.1	0.1			0.1	0.1	1677.5	4454	26.1	21.8	24
25			0.1	0.1			0.1	0.1			0.1	0.1	1676.8	4357	19.1	24.0	25
26			0.1	0.1			0.1	0.1			0.1	0.1	1676.0	4248	18.5	24.0	26
27			0.1	0.1			0.1	0.1			0.1	0.1	1675.6	4194	16.7	19.5	27
28			0.1	0.1			0.1	0.1			0.1	0.1	1675.3	4154	11.3	13.3	28
29			0.1	0.1			0.1	0.1			0.1	0.1	1673.8	3956	8.7	18.7	29
30			0.1	0.1			0.1	0.1			0.1	0.1	1670.8	3580	8.1	27.0	30
31			0.1	0.1							0.1	0.1	1668.3	3282	8.0	23.0	31
TOTAL			3.1	3.1			3.0	3.0			3.1	3.1			347.4	181.9	
Inf. Ac. Ft.			6.1				6.0				6.1				689.1	707.3	
Outf. Ac. Ft.				6.1				6.0				6.1			360.8	379.0	
Storage Must Daily Inflow			0.1				0.1				0.1				160.2	160.2	
Storage Must Daily Outflow			0.1				0.1				0.1				0.1	0.1	
Storage Change			0				0				0				+528.2	+528.2	

REMARKS ½ Year

Max. W. S. Elev. 1696.2 feet on 5-25 & 5-26 Storage 760.0 Acre Feet
Min. W. S. Elev. 1593.± feet on Various Storage 0 Acre Feet
Max. Peak Inf. 595.0 C.F.S. from 3:00 A.M. on 1-23-43 to 3:15 A.M. on 1-23-43
Max. Peak Outf. 96. to 111. C.F.S. from 5:00 P.M. on 3-4-43 to 5:00 P.M. on 3-6-43

Gage heights and storage as of midnight on day shown.

RECORDS COLLECTED BY
H. Paul Kaiser — Dam Tender
C. L. Brewster — Hydrographer
Hydrographer

COMPUTATIONS Date
Gage Hts. copied H.A.V. & F.M.
Storage applied H.A.V. & F.M.
Inf. & Outf. computed C.C.G.
Checked B.H.B. & L.T.

F. C. Dist. Form 68 Revised 6/30 5/35

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In Big Dalton Canyon for the Year Ending September 30, 1943

Continuous Water Stage Recorder Au

Drainage Area 4.5 Square Miles. Capacity of Reservoir 968.7 Ac. Ft. at Spillway Elev. 1706.0 Ft.

Gage Heights Read Daily

Day	FEBRUARY				MARCH				APRIL				MAY				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	
1	1666.2	304.1	6.0	18.2	1668.9	335.2	19.2	24.0	1690.1	482.6	5.4	3.2	1692.8	695.2	2.6	*0.3	1
2	1664.5	285.2	7.0	16.5	1668.4	329.4	17.1	20.0	1680.5	488.8	5.0	1.3	1693.0	698.9	2.5	0.3	2
3	1662.7	265.8	6.1	15.9	1670.5	354.4	33.6	21.0	1681.1	497.7	4.7	*0.3	1693.2	702.7	2.5	0.4	3
4	1660.9	247.2	5.5	14.8	1676.6	433.0	113.6	74.0	1681.7	506.9	4.4	0.3	1693.5	708.3	2.4	0.4	4
5	1659.9	237.1	4.8	9.9	1678.1	453.8	109.5	99.0	1682.3	516.2	5.0	0.3	1693.7	712.1	2.3	0.4	5
6	1660.1	239.1	4.2	3.2	1675.2	414.1	62.0	82.0	1683.0	527.1	5.8	0.3	1693.9	715.8	2.0	0.4	6
7	1660.7	245.2	4.7	1.6	1675.0	411.4	46.7	48.0	1683.7	538.2	5.8	0.3	1694.1	719.6	1.9	0.4	7
8	1661.3	251.3	4.6	1.6	1672.4	377.8	37.3	54.2	1684.4	549.4	6.9	0.3	1694.3	723.4	1.9	0.4	8
9	1661.7	255.3	3.6	1.6	1671.4	365.4	28.8	35.0	1685.0	559.1	5.2	0.3	1694.4	725.3	1.9	0.4	9
10	1662.0	258.4	3.0	1.4	1671.9	371.6	24.3	21.2	1685.5	567.4	4.5	0.3	1694.5	727.2	1.8	0.4	10
11	1662.2	260.5	2.5	1.4	1673.1	386.7	20.6	13.0	1686.0	575.6	4.4	0.3	1694.7	731.0	1.8	0.4	11
12	1662.4	262.6	2.4	1.4	1673.9	396.9	18.1	13.0	1686.5	584.0	4.5	0.3	1694.9	734.8	1.8	0.4	12
13	1662.5	263.7	2.0	1.4	1674.6	406.1	16.6	11.9	1687.0	592.4	4.6	0.3	1695.0	736.7	1.8	0.4	13
14	1662.7	265.8	2.4	1.4	1675.1	412.7	14.6	11.3	1687.4	599.2	4.1	0.3	1695.1	738.6	1.6	0.4	14
15	1662.8	266.8	2.0	1.5	1676.1	426.2	14.8	8.0	1687.8	606.0	4.0	0.3	1695.2	740.6	1.8	0.4	15
16	1662.8	266.8	1.5	1.5	1677.3	442.6	14.5	6.2	1688.3	614.6	4.0	0.3	1695.3	742.5	1.7	0.4	16
17	1662.9	267.9	2.2	1.6	1677.5	445.4	13.3	11.9	1688.7	621.6	3.8	0.3	1695.5	746.4	1.6	0.4	17
18	1662.9	267.9	1.6	1.6	1677.8	449.6	12.1	10.0	1689.1	628.6	3.6	0.3	1695.6	748.3	1.5	0.4	18
19	1663.0	268.9	2.1	1.6	1678.5	459.6	10.9	5.9	1689.5	635.6	3.9	0.3	1695.7	750.3	1.4	0.4	19
20	1663.1	270.0	2.1	1.5	1679.2	469.6	9.5	4.4	1689.8	640.9	3.3	0.3	1695.8	752.2	1.4	0.4	20
21	1664.0	279.7	4.8	0	1678.8	463.8	9.1	12.1	1690.1	646.2	3.3	0.3	1695.9	754.2	1.4	0.4	21
22	1668.5	330.6	33.4	7.7	1678.1	453.8	8.5	13.5	1690.5	653.4	3.2	0.3	1696.0	756.1	1.4	0.5	22
23	1669.9	347.1	37.3	29.0	1677.9	451.0	8.0	9.4	1690.8	658.7	3.0	0.3	1696.1	758.1	1.4	0.5	23
24	1670.4	353.1	35.1	32.0	1677.8	449.6	7.6	8.3	1691.1	664.1	3.0	0.3	1696.2	760.0	1.4	*0.5	24
25	1670.5	354.4	27.6	27.0	1677.7	448.2	7.1	7.8	1691.3	667.7	2.9	0.3	1696.2	760.0	1.3	1.1	25
26	1670.5	354.4	24.0	24.0	1677.9	451.0	6.9	5.5	1691.6	673.2	2.8	0.3	1696.2	760.0	1.3	1.7	26
27	1670.2	350.7	22.1	24.0	1678.3	456.7	6.5	3.6	1691.9	678.6	2.8	0.3	1696.2	760.0	1.3	1.7	27
28	1669.7	344.7	21.0	24.0	1678.6	461.0	6.3	4.2	1692.2	684.1	2.8	0.3	1696.1	758.1	1.3	1.7	28
29					1679.0	466.7	6.2	3.3	1692.4	687.8	2.2	0.3	1696.1	758.1	1.4	1.7	29
30					1679.4	472.5	5.9	3.0	1692.6	691.5	2.1	*0.3	1696.0	756.1	1.5	1.7	30
31					1679.8	478.4	5.7	2.7					1696.0	756.1	1.5	1.7	31
TOTAL			275.6	267.3			714.9	647.5			120.3	12.9			40.4	7.8	
Inf. Ac. Ft.			546.6				1418.0				238.6				001	2990.6	
Outf. Ac. Ft.				530.2				1284.3				25.6			15.5	2234.6	
Storage Must Daily Inflow			37.3				113.6				6.0				2.9	160.2	
Storage Must Daily Outflow			1.5				5.7				2.1				0.9	0.1	
Storage Change			+16.4				+133.7				+213.1				+64.6	756.1	

REMARKS ¾ Year

Max. W. S. Elev. 1696.2 feet on 5-25 & 5-26 Storage 760.0 Acre Feet
Min. W. S. Elev. 1593.± feet on Various times Storage 0 Acre Feet
Max. Peak Inf. 595.0 C.F.S. from 3:00 A. M. on 1-23-43 to 3:15 A. M. on 1-23-43
Max. Peak Outf. 96. to 111. C.F.S. from 5:00 P. M. on 3-4-43 to 5:00 P. M. on 3-6-43

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY
H. Paul Kaiser — Dam Tender
C. L. Brewster — Hydrographer
Hydrographer

COMPUTATIONS Date
Gage Hts. copied F.H.M.& E.W.G
Storage applied F. H. M.
Inf. & Outf. computed
Checked L. T.

* = Measured gate leakage.
[= Mean period.

BIG DALTON (CONT.)

F. C. Dist. Form 88 Revised 600 5/39

Beginning June 1, storages based on L. A. C.F.C. D. survey of September 1943 - (Table V.)

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

In Big Dalton Canyon for the Year Ending September 30, 1943

Drainage Area 4.5 Square Miles. Capacity of Reservoir 952.9 * Ac. Ft. at Spillway Elev. 1706.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	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	1696.0	*736.7	1.5	1.7	1692.0	658.7	0.6	3.7	1677.6	417.7	0.5	5.1	1654.8	163.6	0.4	3.9	1
2	1696.0	736.7	1.5	1.7	1691.7	653.1	0.6	3.7	1677.0	408.9	0.5	5.1	1653.9	156.2	0.4	3.9	2
3	1696.0	736.7	1.5	1.7	1691.4	647.5	0.6	3.7	1676.3	399.0	0.5	5.1	1653.1	149.8	0.4	3.9	3
4	1696.0	736.7	1.4	1.7	1691.0	640.1	0.6	3.7	1675.7	390.6	0.5	5.1	1652.2	142.8	0.4	3.9	4
5	1695.9	734.7	1.4	1.7	1690.7	634.6	0.6	3.7	1675.0	380.9	0.5	5.1	1651.4	136.9	0.4	3.8	5
6	1695.9	734.7	1.4	1.7	1690.4	629.1	0.6	3.7	1674.4	372.8	0.5	5.0	1650.5	130.3	0.5	3.7	6
7	1695.8	732.7	1.4	1.7	1690.1	623.5	0.6	3.7	1673.7	363.4	0.5	5.0	1649.6	124.0	0.5	3.7	7
8	1695.8	732.7	1.3	1.7	1689.7	616.3	0.6	3.6	1673.0	354.2	0.5	4.9	1648.7	117.9	0.5	3.6	8
9	1695.8	732.7	1.3	1.7	1689.3	609.1	0.6	3.5	1672.4	346.5	0.5	4.8	1647.7	111.4	0.5	3.5	9
10	1695.7	730.7	1.3	1.7	1689.0	603.7	0.6	3.5	1671.6	336.4	0.5	4.8	1646.7	105.3	0.5	3.4	10
11	1695.6	728.7	1.3	1.7	1688.7	598.4	0.6	3.5	1671.0	328.8	0.5	4.8	1645.7	99.4	0.5	3.5	11
12	1695.6	728.7	1.2	1.7	1688.3	591.2	0.6	3.5	1670.3	320.3	0.5	4.8	1644.7	93.8	0.5	3.5	12
13	1695.5	726.7	1.2	1.7	1688.0	585.9	0.6	3.5	1669.6	311.8	0.4	4.8	1643.6	87.8	0.5	3.4	13
14	1695.4	724.7	1.1	1.7	1687.6	578.9	0.6	3.5	1668.9	303.4	0.4	4.7	1642.5	82.0	0.5	3.4	14
15	1695.4	724.7	1.0	1.7	1687.3	573.6	0.6	3.5	1668.2	295.3	0.4	4.6	1641.4	76.6	0.5	3.3	15
16	1695.3	722.7	1.0	1.7	1686.9	568.4	0.6	3.5	1667.5	287.3	0.4	4.6	1640.4	71.8	0.5	3.2	16
17	1695.2	720.7	0.9	1.7	1686.4	559.8	0.6	4.8	1666.7	278.3	0.4	4.5	1639.3	66.8	0.5	3.1	17
18	1695.1	719.7	0.8	1.7	1685.9	549.5	0.6	5.5	1666.0	270.5	0.4	4.5	1638.2	62.0	0.5	2.9	18
19	1695.0	716.7	0.7	1.7	1685.3	539.3	0.6	5.5	1665.2	261.9	0.4	4.5	1636.6	55.4	0.5	3.4	19
20	1695.0	716.7	0.7	1.7	1684.8	530.9	0.6	5.5	1664.5	254.4	0.4	4.4	1635.0	49.3	0.5	3.7	20
21	1694.9	714.7	0.7	1.7	1684.2	520.9	0.6	5.5	1663.7	246.0	0.4	4.4	1633.3	43.2	0.6	3.6	21
22	1694.8	712.8	0.6	1.7	1683.6	511.0	0.5	5.5	1663.0	238.8	0.4	4.4	1631.6	37.7	0.6	3.4	22
23	1694.5	706.9	0.6	3.0	1683.0	501.2	0.5	5.5	1662.3	231.8	0.4	4.4	1629.9	32.5	0.6	3.3	23
24	1694.2	701.0	0.6	3.8	1682.4	491.5	0.5	5.5	1661.5	223.9	0.4	4.3	1628.2	27.9	0.6	3.0	24
25	1693.9	695.2	0.6	3.7	1681.8	481.9	0.5	5.5	1660.7	216.2	0.4	4.3	1626.4	23.6	0.6	2.8	25
26	1693.5	687.4	0.6	3.7	1681.2	472.5	0.5	5.4	1659.9	208.6	0.4	4.2	1624.7	20.0	0.6	2.5	26
27	1693.2	681.6	0.6	3.7	1680.7	464.6	0.5	5.3	1659.0	200.2	0.4	4.1	**1623.1**	17.1	0.6	2.3	27
28	1692.9	675.8	0.6	3.7	1680.1	455.3	0.5	5.2	1658.2	192.9	0.4	4.1	1621.3	14.1	0.6	2.3	28
29	1692.6	670.1	0.6	3.7	1679.5	446.1	0.5	5.2	1657.4	185.8	0.4	4.1	1619.8	12.0	0.6	1.7	29
30	1692.3	664.4	0.6	3.7	1678.9	437.0	0.5	5.1	1656.5	177.9	0.4	4.0	1620.6	13.1	0.6	0	30
31					1678.2	426.5	0.5	5.1	1655.7	171.1	0.4	3.9					31
TOTAL			30.0	66.4			17.6	137.6			136	142.4			15.5	95.2	
Inf. Ac. Ft.			59.5				34.9				27.0				30.7	3142.7	
Outf. Ac. Ft.				131.7				2729				282.4			188.8	3110.4	
Maximum Mean Daily Inflow			1.5				0.6				0.5				0.6	160.2	
Minimum Mean Daily Inflow			0.6				0.5				0.4				0.4	0.1	
Storage Change			-72.2				-238.0				-255.4				-158.1	*131	
REMARKS																Yearly Totals	

Max. W. S. Elev.	1696.2	feet on 5-25-& 5-26 Storage	760.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	1593.±	feet on Various times Storage	0	Acre Feet	H. Paul Kaiser	Dam Tender	Gage Hts. copied	E.W.S. 10-20-43
Max. Peak Inf.	595.0	C.F.S. from 3:00 A.M. on 1-23-43	to 3:15 A.M. on	1-23-43	C. L. Brewster	Hydrographer	Storage applied	
Max. Peak Outf.	96. to 111.	C.F.S. from 5:00 P.M. on 3-4-43	to 5:00 P.M. on	3-6-43		Hydrographer	Inf. & Outf. computed	
							Checked	L. T.

Gage heights and storages as of midnight on day shown.

* = Storage corrected to table #V - Debris loss = 19.4 A. F.

{ = Mean period.

SAN DIMAS

F. C. Dist. Form 88 Revised 600 5/39

Storages based on L. A. C. F. C. D. survey of December 1941 (Table V)

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

In San Dimas Canyon for the Year Ending September 30, 1943

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1145.4 Ac. Ft. at Spillway Elev. 1462.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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	Day
1	1419.3	166.3	0.5	4.1	1405.6	65.8	0.9	0.6	1410.3	96.4	1.1	0.6	1410.5	97.8	1.2	0	1
2	1417.6	159.4	0.5	4.0	1405.7	66.4	0.9	0.6	1410.5	97.8	1.2	0.6	1410.8	100.0	1.1	0	2
3	1416.9	152.5	0.6	4.0	1405.8	66.9	0.9	0.6	1410.7	99.3	1.2	0.6	1411.1	102.3	1.1	0	3
4	1416.2	145.8	0.6	4.0	1405.9	67.5	0.9	0.6	1410.8	100.0	1.1	0.6	1411.4	104.6	1.1	0	4
5	1415.5	139.3	0.6	3.9	1406.0	68.1	0.9	0.6	1410.8	100.0	1.1	1.1	1411.7	106.9	1.1	0	5
6	1414.7	132.0	0.6	3.9	1406.2	69.3	1.1	0.6	1410.7	99.3	1.1	1.7	1411.9	108.4	1.0	0	6
7	1414.0	125.8	0.6	3.9	1406.3	69.9	1.0	0.6	1410.5	97.8	1.2	1.7	1412.1	110.0	1.0	0	7
8	1413.2	119.0	0.6	3.8	1406.5	71.2	1.0	0.6	1410.4	97.1	1.1	1.7	1412.4	112.4	1.0	0	8
9	1412.5	113.2	0.5	3.8	1406.6	71.8	1.0	0.6	1410.2	95.7	1.2	1.7	1412.6	114.1	1.0	0	9
10	1411.7	106.9	0.6	3.8	1406.7	72.4	1.0	0.6	1410.1	94.9	1.1	1.7	1412.9	116.5	0.9	0	10
11	1410.9	100.8	0.6	3.7	1406.8	73.0	0.9	0.6	1410.0	94.2	1.2	1.7	1413.1	118.2	1.0	0	11
12	1410.8	100.0	3.3	3.7	1406.9	73.6	0.9	0.6	1409.8	92.6	1.1	1.7	1413.4	120.7	1.0	0	12
13	1410.1	94.9	1.1	3.7	1407.0	74.2	0.8	0.6	1409.6	91.4	1.2	1.7	1413.6	122.4	0.9	0	13
14	1409.3	89.3	0.9	3.6	1407.0	74.2	0.7	0.6	1409.3	89.3	1.1	2.3	1413.6	122.4	0.9	0.6	14
15	1408.5	83.9	0.9	3.6	1407.1	74.8	0.9	0.6	1408.9	86.5	1.1	2.5	1413.6	122.4	0.9	1.0	15
16	1407.6	79.3	0.9	3.4	1407.3	76.1	1.2	0.6	1409.5	83.9	1.2	2.5	1413.6	122.4	0.9	1.0	16
17	1407.1	74.8	0.8	3.2	1407.5	77.4	1.3	0.6	1408.1	81.3	1.1	2.5	1413.6	122.4	0.9	1.0	17
18	1406.3	69.9	0.8	3.1	1407.7	78.7	1.3	0.6	1407.7	78.7	1.2	2.5	1413.6	122.4	0.9	1.0	18
19	1405.5	65.2	0.7	3.0	1408.2	81.9	2.2	0.6	1407.3	76.1	1.2	2.5	1413.4	120.7	0.9	1.7	19
20	1404.9	61.7	0.6	2.4	1408.5	83.9	1.6	0.6	1406.9	73.6	1.2	2.4	1413.1	118.2	0.9	2.1	20
21	1404.4	58.9	0.6	2.0	1408.7	85.2	1.3	0.6	1406.5	71.2	1.1	2.4	1413.3	119.8	1.9	1.0	21
22	1404.2	57.8	0.6	1.2	1408.9	86.5	1.2	0.6	1406.1	69.7	1.2	2.4	1413.7	427.5	311.7	156.6	22
23	1404.2	57.8	0.6	0.6	1409.1	87.9	1.2	0.6	1405.9	67.5	1.2	1.8	1430.3	303.1	573.4	636.1	23
24	1404.2	57.8	0.6	0.6	1409.2	88.6	1.2	0.6	1406.6	71.8	2.6	0.4	1425.9	248.3	78.7	106.4	24
25	1404.2	57.8	0.6	0.6	1409.4	90.0	1.2	0.6	1407.8	79.3	3.7	0	1426.9	254.2	30.3	27.3	25
26	1404.2	57.8	0.6	0.6	1409.6	91.4	1.2	0.6	1408.3	82.6	1.7	0	1428.0	273.5	27.9	18.2	26
27	1404.3	58.4	0.9	0.6	1409.7	92.1	1.2	0.6	1408.7	85.2	1.4	0	1429.9	**297.7**	30.5	18.3	27
28	1404.9	61.7	2.3	0.6	1409.9	93.5	1.2	0.6	1409.1	87.9	1.4	0	1430.2	301.6	20.5	18.4	28
29	1405.2	63.5	1.5	0.6	1410.0	94.2	1.2	0.6	1409.5	90.7	1.3	0	1429.8	296.4	15.7	18.4	29
30	1405.3	69.0	1.1	0.6	1410.2	95.7	1.1	0.6	1409.9	93.5	1.3	0	1429.6	296.4	18.4	18.4	30
31	1405.5	65.2	0.9	0.6					1410.2	95.7	1.2	0	1431.2	315.7	22.5	12.6	31
TOTAL			26.6	81.2			33.4	18.0			41.1	41.1			1151.2	1040.3	
Inf. Ac. Ft.			52.6				66.2				81.5				2283.4	2483.9	
Outf. Ac. Ft.			161.1				35.7				81.5				2063.4	2341.7	
Maximum Mean Daily Inflow			3.3				2.2				3.7				573.4	573.4	
Minimum Mean Daily Inflow			0.5				0.7				1.1				0.9	0.5	
Storage Change			-108.2				+30.5				0				+220.0	+142.3	
REMARKS																½ Year	

Max. W. S. Elev.	1462.2	feet on 5-22-43 Storage	1152.7	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date 7-14-44
Min. W. S. Elev.	1404.2	feet on 10-22 to 26-42 Storage	57.8	Acre Feet	Geo. W. Rodgers	Dam Tender	Gage Hts. copied	K. F. S.
Max. Peak Inf.	1700	C.F.S. from 3:30 A.M. on 1-23-43	to 4:00 A.M. on	1-23-43	C. C. Green	Hydrographer	Storage applied	K. F. S.
Max. Peak Outf.	1230	C.F.S. from 4:40 A.M. on 1-23-43	to 5:00 A.M. on	1-23-43	C. L. Brewster	Hydrographer	Inf. & Outf. computed	K. F. S.
							Checked	L. T.

Gage heights and storages as of midnight on day shown.

{ = Mean for period.

SAN DIMAS (CONT.)

F. C. Dist. Form 68 Revised 800 5/50

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

In San Dimas Canyon for the Year Ending September 30, 1943

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1145.4 Ac. Ft. at Spillway Elev. 1462.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder All

Gage Heights Read Daily

Day	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	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	Day
1	1431.0	312.8	16.2	17.7	1435.7	389.6	26.7	17.6	1449.2	723.2	17.6	0	1457.9	1000.6	11.6	6.5	1
2	1430.5	305.9	14.3	17.7	1438.3	442.5	26.7	0	1450.1	749.8	17.5	3.6	1458.1	1007.4	11.3	6.5	2
3	1429.8	296.4	12.9	17.7	1438.9	455.6	67.3	60.7	1450.6	764.9	17.4	10.8	1458.4	1017.8	11.0	5.5	3
4	1429.3	289.9	11.1	14.4	1440.8	499.6	293.8	271.6	1451.0	776.9	17.3	10.8	1458.8	1031.6	10.8	3.9	4
5	1429.3	289.9	9.6	9.6	1441.8	523.8	254.3	242.1	1451.6	795.3	20.1	10.8	1459.2	1045.5	10.6	3.9	5
6	1429.4	291.2	8.4	7.8	1435.4	384.1	124.8	195.2	1452.1	810.7	26.8	19.0	1459.6	1059.6	10.4	3.9	6
7	1429.3	289.9	7.2	7.8	1432.6	336.7	39.7	113.6	1451.5	792.2	17.8	27.2	1460.0	1073.6	10.2	4.0	7
8	1430.7	308.7	13.4	3.9	1430.8	310.0	68.9	82.4	1451.2	783.0	22.6	27.2	1460.3	1084.3	10.0	4.0	8
9	1432.8	350.8	11.0	0	1429.2	288.6	58.2	69.0	1450.8	770.9	21.1	27.2	1460.6	1095.0	9.7	4.1	9
10	1432.7	338.2	8.1	4.3	1429.6	292.5	51.5	49.5	1450.7	767.9	19.1	20.6	1460.9	1105.7	9.4	4.6	10
11	1431.2	315.7	6.0	17.0	1430.0	299.0	45.6	42.4	1451.2	783.0	17.0	9.4	1461.1	1112.9	9.2	5.5	11
12	1429.3	289.9	5.4	16.7	1430.6	307.3	41.6	37.4	1451.6	795.3	15.6	9.4	1461.3	1120.1	9.1	6.5	12
13	1428.0	273.5	4.9	13.3	1430.5	305.9	36.9	37.6	1452.0	807.6	15.6	9.4	1461.4	1123.7	9.0	6.5	13
14	1428.2	276.0	4.5	4.7	1429.6	296.4	32.6	37.4	1452.3	817.0	14.1	9.4	1461.6	1131.0	8.9	6.5	14
15	1428.0	273.5	4.2	5.9	1429.9	297.7	32.1	31.4	1452.7	829.5	15.7	9.4	1461.7	1134.6	8.8	6.5	15
16	1427.7	269.8	4.1	5.9	1430.2	301.6	30.4	28.3	1453.0	838.9	14.1	9.4	1461.9	1141.8	8.7	6.5	16
17	1427.4	266.2	4.0	5.9	1427.9	272.3	25.6	40.5	1453.3	848.5	13.7	9.4	1462.0	1145.4	8.6	6.5	17
18	1427.1	262.5	3.9	5.9	1427.5	267.4	31.1	33.6	1453.5	854.8	13.5	9.4	1462.1	1149.1	8.5	6.5	18
19	1426.8	258.9	3.9	5.9	1427.5	267.4	27.7	27.7	1453.8	864.4	13.2	9.4	1462.1	1149.1	8.4	6.5	19
20	1426.4	254.2	3.8	5.8	1427.7	269.8	20.6	19.4	1454.1	874.0	12.9	7.3	1462.1	1149.1	8.2	8.0	20
21	1427.4	266.2	11.8	5.8	1428.2	276.0	24.5	21.5	1454.6	890.3	12.7	6.2	1462.2	1152.7	8.2	7.0	21
22	1436.8	411.0	99.8	26.8	1428.5	279.8	26.1	24.0	1455.0	903.3	12.6	6.2	1462.1	1149.1	8.2	9.5	22
23	1433.6	352.7	93.2	122.5	1432.7	338.2	29.4	0	1455.4	916.5	12.5	6.3	1462.1	1149.1	8.2	8.5	23
24	1429.5	292.5	74.7	105.1	1435.8	391.5	26.9	0	1455.7	926.5	12.4	6.3	1462.1	1149.1	8.2	9.0	24
25	1431.3	317.2	56.3	43.7	1438.3	442.5	25.7	0	1456.1	939.8	12.3	6.4	1462.0	1145.4	8.3	9.0	25
26	1433.6	352.7	43.8	25.9	1440.4	490.1	24.0	0	1456.4	949.8	12.2	6.4	1462.0	1145.4	8.3	8.5	26
27	1434.5	368.0	34.0	26.3	1442.2	533.7	22.0	0	1456.8	963.2	12.1	6.5	1462.0	1145.4	8.4	8.5	27
28	1434.7	371.5	28.1	26.4	1443.6	574.3	20.4	0	1457.1	973.3	12.0	6.5	1462.0	1145.4	8.5	8.5	28
29					1445.3	613.8	20.0	0	1457.4	983.5	11.9	6.5	1462.0	1145.4	8.5	8.5	29
30					1446.7	651.9	19.2	0	1457.6	990.4	11.8	6.5	1462.0	1145.4	8.6	8.5	30
31					1448.0	688.4	18.4	0					1462.0	1145.4	8.7	8.5	31
TOTAL			598.5	570.4			1642.7	1482.9			465.2	312.9			284.5	206.4	
Inf. Ac. Ft.			11871				3258.2				922.7				564.3	384162	
Outf. Ac. Ft.			11314				2941.3				620.6				409.4	7444.4	
Maximum Mean Daily Inflow			99.8				293.8				26.8				11.6	573.4	
Minimum Mean Daily Inflow			3.8				18.4				11.8				8.2	0.5	
Storage Change			+ 55.8				+ 316.9				+ 302.0				+ 15.5	+ 972.0	
REMARKS																	½ Year

Max. W. S. Elev.	1462.2	feet on	5-22-43	Storage	1152.7	Acre Feet		
Min. W. S. Elev.	1404.2	feet on	10-22 to 26-42	Storage	57.8	Acre Feet		
Max. Peak Inf.	1700	C.F.S. from	3:30 A.M. on	1-23-43	to	4:00 A.M. on	1-23-43	
Max. Peak Outf.	1230	C.F.S. from	4:40 A.M. on	1-25-43	to	5:00 A.M. on	1-25-43	

RECORDS COLLECTED BY

Geo. W. Rodgers	Dam Tender	
C. C. Green	Hydrographer	
C. L. Brewster	Hydrographer	

COMPUTATIONS	Date
Gage Hts. copied	F. H. M.
Storage applied	F. H. M.
Inf. & Outf. computed	K. F. S.
Checked & Comp.	L. T.

Gage heights and storages as of midnight on day shown.

{ = Mean for period.

F. C. Dist. Form 68 Revised 800 5/50

Storages based on L. A. C. F. C. D. survey of October 1943 (Table VI)

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

In San Dimas Canyon for the Year Ending September 30, 1943

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1071.3 Ac. Ft. at Spillway Elev. 1462.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder All

Gage Heights Read Daily

Day	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	1462.0	1071.1#	9.2	9.2	1460.4	1013.5	3.8	6.4	1454.2	805.2	2.7	7.2	1444.5	525.5	1.8	6.5	1
2	1462.0	1071.1	9.4	9.4	1460.3	1010.0	3.8	6.4	1453.9	795.7	2.7	7.3	1444.2	517.7	1.8	6.4	2
3	1462.0	1071.1	9.1	9.1	1460.2	1006.4	3.8	6.3	1453.6	786.3	2.7	7.3	1443.8	507.7	1.8	6.4	3
4	1462.0	1071.1	8.7	8.7	1460.0	999.3	3.8	6.3	1453.4	780.0	2.7	7.3	1443.4	497.8	1.8	6.4	4
5	1462.0	1071.1	8.4	8.4	1459.9	995.8	3.8	6.3	1453.1	770.6	2.7	7.0	1443.0	488.0	1.8	6.3	5
6	1462.0	1071.1	8.1	8.1	1459.8	992.3	3.8	6.2	1452.8	761.4	2.7	7.0	1442.7	481.0	1.8	6.3	6
7	1462.0	1071.1	7.8	7.8	1459.6	985.3	3.8	6.2	1452.6	755.2	2.7	7.0	1442.3	471.8	1.8	6.3	7
8	1462.0	1071.1	7.5	7.5	1459.5	981.8	3.8	6.2	1452.3	746.0	2.7	7.3	1441.9	462.6	1.8	6.3	8
9	1462.0	1071.1	7.3	7.3	1459.3	974.8	3.8	6.3	1452.0	736.8	2.7	7.3	1441.5	453.9	1.8	6.3	9
10	1462.0	1071.1	7.2	7.2	1459.1	967.8	3.8	6.3	1451.7	727.8	2.6	7.3	1441.1	445.1	1.7	6.3	10
11	1462.0	1071.1	7.2	7.2	1459.0	964.3	3.8	6.4	1451.4	718.7	2.5	7.3	1440.6	434.5	1.7	6.3	11
12	1462.0	1071.1	7.2	7.2	1458.8	957.4	3.8	6.5	1451.1	709.7	2.4	7.3	1440.2	426.2	1.7	6.3	12
13	1462.0	1071.1	7.3	7.3	1458.7	954.0	3.8	6.6	1450.8	700.8	2.4	7.3	1439.7	416.1	1.6	6.3	13
14	1462.0	1071.1	7.3	7.3	1458.5	947.2	3.8	6.7	1450.5	691.9	2.4	7.3	1439.3	408.1	1.6	6.3	14
15	1462.0	1071.1	7.3	7.3	1458.3	940.3	3.8	6.6	1450.1	680.1	2.4	7.3	1438.8	398.4	1.6	6.3	15
16	1462.0	1071.1	6.5	7.3	1458.1	933.4	3.7	6.9	1449.8	671.3	2.3	7.3	1438.3	389.0	1.6	6.3	16
17	1461.9	1067.5	6.3	7.3	1457.9	926.6	3.7	7.0	1449.5	662.7	2.3	7.3	1437.8	379.7	1.6	6.3	17
18	1461.9	1067.5	6.1	7.2	1457.7	919.9	3.7	7.1	1449.1	651.1	2.3	7.3	1437.4	372.4	1.6	6.3	18
19	1461.8	1063.9	5.9	7.1	1457.5	913.2	3.7	7.2	1448.8	642.5	2.3	7.3	1436.9	363.5	1.7	6.2	19
20	1461.7	1060.2	5.6	7.0	1457.3	906.4	3.7	7.2	1448.5	634.0	2.3	7.0	1436.3	353.1	1.7	6.2	20
21	1461.6	1056.6	5.4	6.8	1457.1	899.7	3.5	7.3	1448.2	625.5	2.3	7.0	1435.8	344.6	1.9	6.1	21
22	1461.5	1053.0	5.1	6.7	1456.9	893.0	3.3	7.3	1447.9	617.0	2.3	6.9	1435.2	334.9	1.9	6.0	22
23	1461.4	1049.4	4.8	6.6	1456.6	883.1	3.2	7.3	1447.5	605.9	2.3	6.9	1434.7	327.0	1.9	6.0	23
24	1461.3	1045.8	4.5	6.5	1456.4	876.4	3.2	7.3	1447.2	597.6	2.2	6.8	1434.1	317.9	1.9	5.9	24
25	1461.2	1042.1	4.2	6.5	1456.1	866.5	3.2	7.3	1446.9	589.3	2.2	6.8	1433.6	310.8	2.0	5.9	25
26	1461.1	1038.5	3.9	6.5	1455.8	856.7	3.1	7.3	1446.6	581.1	2.2	6.7	1433.1	303.9	2.0	5.8	26
27	1460.9	1031.3	3.9	6.4	1455.6	850.2	3.1	7.3	1446.3	573.0	2.2	6.7	1432.6	297.4	2.0	5.8	27
28	1460.8	1027.8	3.9	6.4	1455.3	840.5	3.0	7.3	1445.9	562.2	2.2	6.6	1432.0	289.7	2.0	5.7	28
29	1460.7	1024.2	3.9	6.4	1455.0	830.7	2.9	7.3	1445.6	554.2	2.2	6.6	1431.4	282.6	1.9	5.7	29
30	1460.5	1017.1	3.9	6.4	1454.8	824.3	2.8	7.3	1445.2	543.6	2.2	6.5	1430.8	275.5	1.9	5.6	30
31					1454.5	814.8	2.7	7.2	1444.9	535.7	2.2	6.5					31
TOTAL			192.9	220.1			109.5	211.5			75.0	215.7			53.7	184.9	
Inf. Ac. Ft.			3326				2172				1488				1065	92713	
Outf. Ac. Ft.			4366				4195				4278				3667	90950	
Maximum Mean Daily Inflow			9.4				3.8				2.7				2.0	573.4	
Minimum Mean Daily Inflow			3.8				2.7				2.2				1.6	0.5	
Storage Change			- 54.0*				- 202.3				-279.1				- 260.2	1021.1*	
REMARKS																	Yearly Totals

Max. W. S. Elev.	1462.2	feet on	5-22-43	Storage	1152.7	Acre Feet		
Min. W. S. Elev.	1404.2	feet on	10-22 to 26-42	Storage	57.8	Acre Feet		
Max. Peak Inf.	1700	C.F.S. from	3:30 A.M. on	1-23-43	to	4:00 A.M. on	1-23-43	
Max. Peak Outf.	1230	C.F.S. from	4:30 A.M. on	1-23-43	to	5:00 A.M. on	1-23-43	

RECORDS COLLECTED BY

Geo. W. Rodgers	Dam Tender	
C. C. Green	Hydrographer	
C. L. Brewster	Hydrographer	

COMPUTATIONS	Date 7-24-44
Gage Hts. copied	K. F. S.
Storage applied	K. F. S.
Inf. & Outf. computed	K. F. S.
Checked	L. T.

Gage heights and storages as of midnight on day shown.

= 74.3 A. F. Deducted as indicated by storage table #VI (Survey Oct. 1943).

{ = Mean for period.

PUDDINGSTONE DIVERSION

F. C. Dist. Form 68 Revised 800 5/39

Storages based on L. A. C. F. C. D. survey of October 1942 (Table V)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam
In/On San Dimas Creek for the Year Ending September 30, 1943
Drainage Area 2.6 Square Miles. Capacity of Reservoir 101.1 Ac. Ft. at Spillway Elev. 1152.5 Ft.
Continuous Water Stage Recorder Au
Gage Heights Read 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	Day
1															0	0	1
2															0	0	2
3															0	0	3
4															0	0	4
5															0	0	5
6															0	0	6
7															0	0	7
8															0	0	8
9															0	0	9
10															0	0	10
11	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	0	0	11
12															0	0	12
13															0	0	13
14															0	0	14
15															0	0	15
16															0	0	16
17															0	0	17
18															0	0	18
19															0	0	19
20															0	0	20
21													1133.±	0	0	0	21
22													1148.75	67.0	197.9	162.6	22
23													1147.05	54.0	969.5	973.1	23
24													1145.85	46.0	133.5	134.5	24
25													1145.65	44.8	30.4	28.1	25
26													1145.70	45.1	17.4	14.4	26
27													1145.65	44.8	19.6	17.0	27
28													1145.65	44.8	18.7	15.6	28
29													1145.65	44.8	18.7	15.8	29
30													1145.70	45.1	20.4	17.4	30
31													1139.75	14.4	12.3	25.2	31
TOTAL															1438.6	(27.4)1403.9	
Inf. Ac. Ft.															2853.4	2853.4	
Outf. Ac. Ft.														2764.6	+ (54.3)	2784.6+(54.3)	
Maximum															969.5	969.5	
Minimum															0	0	
Mean Daily Inflow																	
Storage Change															+ 14.4	+ 14.4	
REMARKS																½ Year	

Max. W. S. Elev.	1149.90	feet	on 1-23-43	Storage	76.5	Acre Feet		
Min. W. S. Elev.	1133 ±	feet	on Various	Storage	0	Acre Feet		
Max. Peak Inf.	2045	C.F.S. from	4:45 A.M.	on 1-23-43	to 5:15 A.M.	on 1-23-43		
Max. Peak Outf.	2035	C.F.S. from	5:15 A.M.	on 1-23-43	to 6:15 A.M.	on 1-23-43		

RECORDS COLLECTED BY
C.C. Green & H.A. van der Goot — Dam Tender
C. L. Brewster — Hydrographer
" — Hydrographer

COMPUTATIONS — Date
Gage Hts. copied — H. A. V.
Storage applied — H. A. V.
Inf. & Outf. computed — K. F. S.
Checked — K. F. S.

Gage heights and storages as of midnight on day shown.

() = Monthly total percolation.

F. C. Dist. Form 68 Revised 800 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam
In/On San Dimas Creek for the Year Ending September 30, 1943
Drainage Area 2.6 Square Miles. Capacity of Reservoir 101.1 Ac. Ft. at Spillway Elev. 1152.5 Ft.
Continuous Water Stage Recorder Au
Gage Heights Read Various Times

Day	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	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	Day
1	1140.15	16.2	17.8	15.6	1144.65	39.1	24.8	24.9	1145.20	42.2	2.5	0	1145.20	42.2	5.0	1.8	1
2	1140.20	16.5	16.2	14.8	1140.45	17.6	0.4	9.5	1144.15	36.4	2.5	2.8	1145.30	42.6	4.9	1.8	2
3	1143.70	33.9	13.7	8.6	1146.55	50.6	64.1	45.6	1144.60	39.9	8.8	4.6	1144.90	40.5	3.3	1.8	3
4	1145.60	44.5	15.5	7.3	1147.20	55.1	342.1	336.9	1145.50	44.0	10.4	5.6	1143.90	35.0	1.4	1.7	4
5	1145.50	44.0	11.0	8.4	1146.60	50.9	295.4	294.5	1145.55	44.3	10.3	7.2	1143.40	32.4	1.8	0.9	5
6	1145.50	44.0	8.4	5.6	1146.55	50.6	219.3	216.4	1145.70	45.1	- 19.1	15.8	1143.45	32.7	2.3	0	6
7	1145.50	44.0	9.1	5.3	1146.10	47.6	137.5	136.0	1145.70	45.1	29.0	26.1	1143.45	32.7	2.1	0	7
8	1145.40	43.4	6.6	4.0	1146.05	47.2	104.0	101.2	1145.70	45.1	30.3	27.4	1143.40	32.4	1.9	0	8
9	1144.95	40.8	1.4	0	1145.90	46.3	89.7	87.2	1145.70	45.1	30.3	27.4	1143.30	31.9	1.9	0	9
10	1145.20	42.2	3.3	0	1145.85	46.0	66.7	63.8	1145.50	44.0	24.1	21.8	1143.20	31.3	1.8	0	10
11	1145.65	44.8	15.4	11.2	1145.75	45.4	57.7	55.0	1145.45	43.7	11.6	8.9	1143.10	30.8	1.7	0	11
12	1145.65	44.8	16.3	13.4	1145.75	45.4	50.9	48.0	1145.60	44.5	11.7	8.5	1142.95	30.1	1.7	0	12
13	1145.50	44.0	13.4	10.9	1145.75	45.4	49.6	46.7	1145.60	44.5	11.0	8.1	1142.80	29.3	1.5	0	13
14	1145.55	44.3	4.0	0.9	1145.75	45.4	48.2	45.3	1145.35	43.1	11.9	9.7	1142.65	28.6	1.5	0	14
15	1145.55	44.3	5.2	2.3	1145.65	44.8	41.6	39.1	1144.70	39.4	10.9	10.1	1142.50	27.8	1.4	0	15
16	1145.55	44.3	5.2	2.3	1145.65	44.8	37.9	35.0	1144.15	36.4	10.8	9.8	1142.30	26.8	1.3	0	16
17	1145.55	44.3	5.9	3.0	1145.95	46.6	49.4	44.5	1143.80	34.5	10.8	9.5	1142.15	26.1	1.3	0	17
18	1145.55	44.3	5.9	3.0	1145.80	45.7	43.7	41.2	1143.55	33.2	10.7	9.1	1142.00	25.3	1.3	0	18
19	1145.55	44.3	5.2	2.3	1145.80	46.7	36.0	33.0	1143.90	35.0	10.9	7.8	1141.80	24.3	1.1	0	19
20	1145.55	44.3	5.9	3.0	1145.70	45.1	31.6	28.9	1144.55	38.6	9.1	4.8	1141.60	23.3	1.1	0	20
21	1145.55	44.3	7.0	4.1	1145.60	45.7	27.9	24.6	1144.20	36.6	6.3	4.6	1141.45	22.6	1.2	0	21
22	1146.05	47.2	38.9	34.5	1145.55	44.3	30.8	28.5	1143.80	34.5	5.9	4.7	1141.25	21.6	1.0	0	22
23	1146.30	48.9	127.5	123.6	1145.50	44.0	4.4	1.7	1143.40	32.4	5.9	4.7	1141.05	20.6	0.9	0	23
24	1146.05	47.2	118.1	116.0	1145.50	44.0	3.1	0.3	1143.70	33.9	5.6	3.0	1140.85	19.5	0.8	0	24
25	1145.70	45.1	59.3	57.3	1145.50	44.0	2.8	0	1144.35	37.5	5.7	1.6	1140.65	18.6	0.9	0	25
26	1145.70	45.1	35.3	32.4	1145.45	43.7	2.7	0	1144.85	40.2	5.7	1.7	1140.40	17.4	0.7	0	26
27	1145.70	45.1	33.5	30.6	1145.45	43.7	2.8	0	1145.15	41.9	5.3	1.8	1140.20	16.5	0.5	0	27
28	1145.70	45.1	32.3	29.4	1145.45	43.7	2.8	0	1145.30	42.8	5.0	1.8	1140.00	15.5	0.3	0	28
29					1145.45	43.7	2.8	0	1145.15	41.9	4.1	1.8	1139.75	14.4	0.2	0	29
30					1145.40	43.4	2.6	0	1145.05	41.3	4.2	1.8	1139.50	13.3	0.1	0	30
31					1145.30	42.8	2.5	0					1139.25	12.2	0.0	0	31
TOTAL			641.3	550.0			1874.8	1787.8	(982)		330.6	252.7	(78.7)		46.9	8.0	{(55.6)
Inf. Ac. Ft.			1272.0				3718.6				655.7				93.0	8592.8	
Outf. Ac. Ft.			1090.9+(150.3)				3546.0+(174.9)				501.2+(156.1)				15.9+(106.3)	7938.6+(642.0)	
Maximum			127.5				342.1				30.3				5.0	969.5	
Mean Daily Inflow																	
Minimum			1.4				0.4				2.5				0	0	
Mean Daily Inflow																	
Storage Change			+ 30.4				- 2.3				- 1.5				-29.1	+ 12.2	
REMARKS																½ Year	

Max. W. S. Elev.	1149.90	feet	on 1-23-43	Storage	76.5	Acre Feet		
Min. W. S. Elev.	1133 ±	feet	on Various	Storage	0	Acre Feet		
Max. Peak Inf.	2045	C.F.S. from	4:45 A.M.	on 1-23-43	to 5:15 A.M.	on 1-23-43		
Max. Peak Outf.	2035	C.F.S. from	5:15 A.M.	on 1-23-43	to 6:15 A.M.	on 1-23-43		

RECORDS COLLECTED BY
C.C. Green & H.A. van der Goot — Dam Tender
C. L. Brewster — Hydrographer
" — Hydrographer

COMPUTATIONS — Date
Gage Hts. copied — H. A. V.
Storage applied — H. A. V.
Inf. & Outf. computed — K. F. S.
Checked — K. F. S.

Gage heights and storages as of midnight on day shown.

() = Monthly total percolation.

{ = Mean for period.

PUDDINGSTONE DIVERSION (CONT.)

F. C. Dist. Form 69 Revised 000 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

In / On San Dimas Creek for the Year Ending September 30, 1943

Drainage Area 2.6 Square Miles. Capacity of Reservoir 101.1 Ac. Ft. at Spillway Elev. 1152.5 Ft.

Continuous Water Stage Recorder Au

Gage Heights Read Various Times

Day	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	1139.00	11.1	0	0													1
2	1138.75	10.1	0	0													2
3	1138.45	9.0	0	0													3
4	1138.15	7.9	0	0													4
5	1137.80	6.6	0	0													5
6	1137.40	5.6	0	0													6
7	1137.00	4.5	0	0													7
8	1136.60	3.7	0	0													8
9	1136.20	3.0	0	0													9
10	1135.80	2.4	0	0													10
11	1135.45	2.0	0	0													11
12	1135.10	1.7	0	0													12
13		● 1.3	0	0													13
14		● 1.0	0	0													14
15		● 0.7	0	0													15
16		● 0.4	0	0	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	16
17		0.2	0	0													17
18			0	0													18
19																	19
20																	20
21		Storage Negligible															21
22																	22
23																	23
24																	24
25																	25
26																	26
27																	27
28																	28
29																	29
30																	30
31																	31
TOTAL																	
Inf. Ac. Ft.			0												8592.8		
Outf. Ac. Ft.			0	+(122)											7938.6	+(654.9)	
Minus Daily Inflow			0												0		
Minus Daily Inflow			0												0		
Storage Change			-122												0		
REMARKS															Yearly Totals		

Max. W. S. Elev.	1149.90	feet on 1-23-43	Storage 76.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	1133 ±	feet on Various	Storage 0	Acre Feet	C.C. Grean & H.A. van der Goot	Dam Tender	Gage Hts. copied	H. A. V.
Max. Peak Inf.	2045	C. F. S. from 4:45 A.M. on 1-23-43 to 5:15 A.M. on 1-23-43			C. L. Brewster	Hydrographer	Storage applied	H. A. V.
Max. Peak Outf.	2035	C. F. S. from 5:15 A.M. on 1-23-43 to 6:15 A.M. on 1-23-43				Hydrographer	Inf. & Outf. computed	K. F. S.
Gage heights and storages as of midnight on day shown.							Checked	K. F. S.

● = Estimated.

PUDDINGSTONE

F. C. Dist. Form 69 Revised 000 5/39

Storage based on L. A. C. F. C. D. survey of January 1941 - (Table II)

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In / On Puddingstone Creek for the Year Ending September 30, 1943

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft.

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	Day
1	931.05	4612.2	0	3.0	929.35	4299.4	0	0	927.95	4052.6	0	3.3	927.40	3958.9	0	0	1
2	931.00	4602.6	0	3.8	929.30	4290.4	0	2.2	927.90	4044.1	0	4.2	927.35	3950.4	0	0	2
3	930.95	4593.3	0	3.2	929.25	4281.4	0	2.2	927.85	4035.5	0	4.2	927.35	3950.4	0	0	3
4	930.90	4584.0	0	3.2	929.25	4281.4	0	0	927.85	4035.5	0	1.5	927.35	3950.4	0	0	4
5	930.85	4574.7	0	2.9	929.25	4281.4	0	0	927.85	4035.5	0	0	927.35	3950.4	0	0	5
6	930.80	4565.4	0	4.7	929.20	4272.4	0	0	927.80	4027.0	0	0	927.30	3941.9	0	0	6
7	930.70	4546.8	0	5.0	929.20	4272.4	0	2.2	927.80	4027.0	0	1.2	927.30	3941.9	0	0	7
8	930.65	4537.5	0	3.4	929.15	4263.3	0	2.8	927.75	4018.5	0	1.0	927.30	3941.9	0	0	8
9	930.65	4537.5	0	2.4	929.15	4263.3	0	0	927.75	4018.5	0	0	927.30	3941.9	0	0	9
10	930.60	4528.2	0	2.2	929.10	4254.3	0	1.0	927.70	4010.0	0	1.2	927.30	3941.9	0	0	10
11	930.55	4519.0	0	3.0	929.05	4245.3	0	4.4	927.70	4010.0	0	1.0	927.25	3933.4	0	0	11
12	930.50	4509.7	0	5.0	928.95	4227.6	0	6.6	927.70	4010.0	0	0	927.25	3933.4	0	0	12
13	930.45	4500.4	0	2.5	928.85	4210.1	0	8.2	927.70	4010.0	0	0	927.25	3933.4	0	0	13
14	930.40	4491.1	0	1.8	928.80	4201.3	0	7.5	927.65	4001.5	0	0	927.25	3933.4	0	0	14
15	930.35	4481.8	0	5.7	928.70	4183.7	0	5.3	927.65	4001.5	0	2.6	927.25	3933.4	0	0	15
16	930.25	4463.2	0	7.2	928.65	4175.0	0	5.1	927.55	3984.5	0	5.6	927.20	3924.9	0	0	16
17	930.15	4444.6	0	8.7	928.60	4166.2	0	3.8	927.55	3984.5	0	2.3	927.20	3924.9	0	0	17
18	930.10	4435.3	0	6.4	928.55	4157.5	0	3.4	927.50	3976.0	0	0.6	927.20	3924.9	0	0	18
19	930.00	4416.7	0	5.6	928.50	4148.7	{1.6	3.6	927.50	3976.0	0	1.2	927.20	3924.9	0	0	19
20	930.00	4416.7	0	3.4	928.50	4148.7	1.5	3.4	927.45	3967.4	0	2.2	927.20	3924.9	0	0	20
21	929.90	4398.7	0	4.2	928.45	4140.0	0	3.4	927.45	3967.4	0	2.7	927.30	3941.9	8.9	0	21
22	929.85	4389.6	0	6.4	928.40	4131.2	0	6.1	927.40	3958.9	0	3.1	933.15	5024.4	546.3	0	22
23	929.75	4371.6	0	8.0	928.35	4122.5	0	6.1	927.35	3950.4	0	3.6	942.70	7256.4	1125.9	0	23
24	929.65	4353.5	0	8.2	928.25	4104.9	0	4.8	927.45	3967.4	9.7	0.8	943.80	7550.2	148.8	0	24
25	929.55	4335.5	0	7.1	928.25	4104.9	0	7.7	927.50	3976.0	4.6	0	944.10	7631.6	41.9	0	25
26	929.45	4317.5	0	9.1	928.20	4096.1	0	1.4	927.45	3967.4	0	0	944.40	7714.2	42.5	0	26
27	929.40	4308.5	0	8.4	928.10	4078.6	0	4.4	927.45	3967.4	0	0	944.60	7769.3	28.8	0	27
28	929.40	4308.5	2.8	2.5	928.10	4078.6	0	2.5	927.45	3967.4	0	0	944.70	7796.9	15.0	0	28
29	929.40	4308.5	0	0	928.05	4069.9	0	2.8	927.40	3958.9	0	6.0	944.80	7824.4	15.1	0	29
30	929.40	4308.5	0	1.7	928.00	4061.1	0	3.6	927.40	3958.9	0	0	945.00	7879.5	29.0	0	30
31	929.35	4299.4	0	2.1					927.40	3958.9	0	0	945.35	7978.3	51.2	0	31
TOTAL			2.8	140.8			3.1	104.5			14.3	48.3			2053.4	0	
Inf. Ac. Ft.			5.6				6.1				28.4				4072.9	4113.0	
Outf. Ac. Ft.			279.3	+(39.1)			207.3	+(37.1)			95.8	+(34.7)		0	+(53.9)	582.4	(164.5)
Minus Daily Inflow			2.8				1.6				9.7				1125.9	1125.9	
Minus Daily Inflow			0				0				0				0	0	
Storage Change		+312.8				-238.3				-102.2				+401.9		+366.1	
REMARKS																½ Year	

Max. W. S. Elev.	955.75	feet on 4-14-43	Storage 11270.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	927.20	feet on 1-21-43	Storage 3924.9	Acre Feet	F. A. Pollard	Dam Tender	Gage Hts. copied	H.A.V.
Max. Peak Inf.	2300	C. F. S. from 2:00 A.M. on 1-23-43 to 2:30 A.M. on 1-23-43			C. L. Brewster	Hydrographer	Storage applied	H.A.V.
Max. Peak Outf.	287	C. F. S. from 11:30 P.M. on 3-4-43 to 3:30 A.M. on 3-5-43				Hydrographer	Inf. & Outf. computed	H&V 6-17-43
Gage heights and storages as of midnight on day shown.							Checked	F.H.M. & F.F.S.

+ () = Total monthly loss due to evaporation, percolation and leakage.

{ = Mean for period.

PUDDINGSTONE (CONT.)

F. C. Dist. Form 68 Revised 600 5/39

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In / On Puddingstone Creek for the Year Ending September 30, 1943

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	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	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	Day
1	945.35	7978.3	1.4	0	948.80	8985.8	22.6	51.0	955.25	11093.3	0	0	955.50	11182.0	0	0	1
2	945.35	7978.3	1.4	0	948.60	8925.6	1.7	30.0	955.25	11093.3	0	0	955.45	11164.3	0	0	2
3	945.35	7978.3	1.4	0	949.80	9292.0	206.7	20.0	955.25	11093.3	0	0	955.45	11164.3	0	0	3
4	945.40	7992.4	{ 4.9	0	952.50	10155.0	576.3	1390	955.20	11075.5	0	0	955.45	11164.3	0	0	4
5	945.40	7992.4	{ 5.0	0	953.55	10505.9	308.3	1290	955.25	11093.3	12.0	0	955.40	11146.5	0	0	5
6	945.40	7992.4	1.4	0	954.05	10675.3	226.9	1390	955.30	11111.0	11.9	0	955.40	11146.5	0	0	6
7	945.40	7992.4	1.4	0	953.95	10641.1	126.4	1410	955.40	11146.5	20.9	0	955.40	11146.5	0	0	7
8	945.55	8034.7	{ 15.6	0	953.85	10607.3	90.7	1050	955.55	11199.8	29.9	0	955.35	11128.8	0	0	8
9	945.50	8020.6	{ 1.4	0	953.55	10505.9	83.6	1320	955.65	11235.3	20.9	0	955.35	11128.8	0	0	9
10	945.50	8020.6	{ 1.4	0	953.50	10489.0	41.3	470	955.70	11253.0	11.9	0	955.30	11111.0	0	0	10
11	945.55	8034.7	8.5	0	953.75	10573.5	45.7	0	955.70	11253.0	0	0	955.30	11111.0	0	0	11
12	945.65	8062.9	15.7	0	953.85	10607.3	{ 26.0	0	955.70	11253.0	0	0	955.25	11093.3	0	0	12
13	945.75	8091.1	{ 15.6	0	954.00	10658.0	{ 25.9	0	955.75	11270.8	{ 10.5	0	955.25	11093.3	0	0	13
14	945.75	8091.1	{ 2.5	0	954.15	10710.0	{ 25.9	0	955.75	11270.8	{ 10.5	0	955.20	11075.5	0	0	14
15	945.75	8091.1	{ 2.6	0	954.25	10744.6	20.5	0	955.75	11270.8	3.0	0	955.15	11057.8	0	4.8	15
16	945.75	8091.1	{ 2.6	0	954.30	10762.0	11.8	0	955.75	11270.8	0	0	955.10	11040.0	0	6.0	16
17	945.80	8105.3	{ 2.6	0	954.50	10831.3	37.9	0	955.75	11270.8	0	0	955.05	11022.3	0	6.0	17
18	945.80	8105.3	{ 2.6	0	954.75	10917.9	46.6	0	955.70	11253.0	0	0	955.00	11004.5	0	6.0	18
19	945.80	8105.3	{ 2.6	0	954.95	10987.2	38.0	0	955.70	11253.0	0	0	954.95	10987.2	0	6.0	19
20	945.85	8119.4	8.5	0	955.10	11040.0	29.6	0	955.70	11253.0	0	0	954.90	10969.9	0	6.0	20
21	946.00	8161.7	22.8	0	955.20	11075.5	20.9	0	955.65	11235.3	0	0	954.80	10935.2	0	6.0	21
22	947.30	8538.6	191.5	0	955.40	11146.5	38.8	0	955.65	11235.3	0	0	954.75	10917.9	0	6.0	22
23	948.45	8840.4	173.9	0	955.40	11146.5	3.0	0	955.65	11235.3	0	0	954.70	10900.6	0	6.0	23
24	949.45	9184.4	175.0	20.0	955.35	11128.8	0	0	955.60	11217.5	0	0	954.65	10883.2	0	6.0	24
25	949.50	9199.8	61.5	52.0	955.35	11128.8	0	0	955.60	11217.5	0	0	954.60	10865.9	0	6.0	25
26	949.35	9153.7	29.7	51.0	955.35	11128.8	0	0	955.60	11217.5	0	0	954.55	10848.6	0	6.0	26
27	949.20	9107.5	27.7	49.0	955.35	11128.8	0	0	955.55	11199.8	0	0	954.50	10831.3	0	6.0	27
28	949.00	9046.0	22.0	51.0	955.30	11111.0	0	0	955.55	11199.8	0	0	954.45	10813.9	0	6.0	28
29					955.30	11111.0	0	0	955.50	11182.0	0	0	954.40	10796.6	0	6.0	29
30					955.30	11111.0	0	0	955.50	11182.0	0	0	954.35	10779.3	0	6.0	30
31					955.25	11093.3	0	0					954.30	10762.0	0	6.0	31
TOTAL			803.2	223.0			2055.1	9330			131.5	0			0	100.8	
Inf. Ac. Ft.			1593.1				4076.2				260.8				0	10043.1	
Outf. Ac. Ft.			442.3	+(83.1)			1850.6	+(178.3)			0	+(172.2)		199.9	+(220.0)	3075.2	+(8180)
Maximum Mean Daily Inflow			191.5				576.3				29.9				0	1125.9	
Minimum Mean Daily Inflow			1.4				0				0				0	0	
Storage Change		+1067.7				+2047.3				+88.7				-420.0		+6149.8	
																% Year	

REMARKS

Max. W. S. Elev.	955.75	feet on 4-14-43	Storage 11270.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	927.20	feet on 1-21-43	Storage 3924.9	Acre Feet	F. A. Pollard	Dam Tender	Gage Hts. copied	H.A.V.
Max. Peak Inf.	2300	C.F.S. from 2:00 A.M. on 1-23-43	to 2:30 A.M. on	1-23-43	C. L. Brewster	Hydrographer	Storage applied	H.A.V.
Max. Peak Outf.	287	C.F.S. from 11:30 P.M. on 3-4-43	to 3:30 A.M. on	3-5-43		Hydrographer	Inf. & Outf. computed	HAV 6-18-43
							Checked	FHM & KFS

Gage heights and storages as of midnight on day shown.

+ () = Total monthly loss due to evaporation, percolation and leakage

{ = Mean for period.

F. C. Dist. Form 68 Revised 600 5/39

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

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

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Au

Gage Heights Read Daily

Day	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	954.30	10762.0	0	6.0	952.55	10167.1	0	7.5	950.55	9526.5	0	7.5	948.45	8880.5	0	7.5	1
2	954.25	10742.5	0	6.0	952.50	10155.0	0	7.5	950.45	9495.0	0	7.5	948.40	8865.4	0	7.5	2
3	954.20	10727.3	0	6.0	952.40	10122.0	0	7.5	950.40	9497.3	0	7.5	948.35	8850.4	0	7.5	3
4	954.15	10708.7	0	6.0	952.35	10102.7	0	7.5	950.35	9463.6	0	7.5	948.25	8820.2	0	7.5	4
5	954.10	10692.7	0	6.0	952.30	10089.0	0	7.5	950.30	9447.9	0	7.5	948.20	8805.2	0	7.5	5
6	954.05	10674.9	0	6.0	952.25	10070.5	0	7.5	950.20	9416.4	0	7.5	948.15	8790.2	0	7.5	6
7	954.00	10658.0	0	6.0	952.20	10056.0	0	7.5	950.15	9400.7	0	7.5	948.10	8775.1	0	7.5	7
8	953.95	10641.1	0	6.0	952.10	10023.0	0	7.5	950.10	9385.0	0	7.5	948.00	8745.0	0	7.5	8
9	953.90	10624.2	0	6.0	952.05	10006.1	0	7.5	950.05	9369.2	0	7.5	947.95	8730.3	0	7.5	9
10	953.85	10607.3	0	6.0	952.00	9990.0	0	7.5	949.95	9338.1	0	7.5	947.85	8700.8	0	7.5	10
11	953.80	10590.4	0	6.0	951.90	9957.8	0	7.5	949.90	9322.8	0	7.5	947.80	8686.0	0	7.5	11
12	953.75	10573.5	0	6.0	951.85	9941.7	0	7.5	949.80	9292.0	0	7.5	947.75	8671.3	0	7.5	12
13	953.70	10556.6	0	6.0	951.80	9925.6	0	7.5	949.75	9276.6	0	7.5	947.70	8656.6	0	7.5	13
14	953.65	10539.7	0	6.0	951.70	9893.4	0	7.5	949.70	9261.3	0	7.5	947.60	8627.1	0	7.5	14
15	953.60	10522.8	0	6.0	951.65	9877.3	0	7.5	949.60	9230.5	0	7.5	947.50	8597.6	0	7.5	15
16	953.55	10505.9	0	6.0	951.60	9861.2	0	7.5	949.55	9215.1	0	7.5	947.45	8582.9	0	7.5	16
17	953.50	10489.0	0	6.0	951.50	9829.0	0	7.5	949.50	9199.8	0	7.5	947.40	8568.1	0	7.5	17
18	953.45	10472.1	0	6.0	951.45	9812.9	0	7.5	949.40	9169.0	0	7.5	947.35	8553.4	0	7.5	18
19	953.35	10438.3	0	7.1	951.40	9796.8	0	7.5	949.35	9153.6	0	7.5	947.25	8523.9	0	7.5	19
20	953.30	10421.4	0	7.5	951.30	9764.6	0	7.5	949.30	9138.3	0	7.5	947.20	8509.2	0	7.5	20
21	953.25	10404.5	0	7.5	951.25	9748.5	0	7.5	949.20	9107.5	0	7.5	947.15	8494.4	0	7.5	21
22	953.15	10370.7	0	7.5	951.20	9732.4	0	7.5	949.15	9092.1	0	7.5	947.05	8464.9	0	7.5	22
23	953.10	10353.8	0	7.5	951.10	9700.2	0	7.5	949.10	9076.8	0	7.5	947.00	8450.2	0	7.5	23
24	953.00	10320.0	0	7.5	951.05	9684.1	0	7.5	949.05	9061.4	0	7.5	946.95	8435.8	0	7.5	24
25	952.55	10303.5	0	7.5	950.95	9652.3	0	7.5	948.95	9031.0	0	7.5	946.85	8406.9	0	7.5	25
26	952.90	10287.0	0	7.5	950.90	9636.8	0	7.5	948.90	9015.9	0	7.5	946.80	8392.5	0	7.5	26
27	952.80	10254.0	0	7.5	950.85	9620.8	0	7.5	948.80	8985.8	0	7.5	946.75	8378.1	0	7.5	27
28	952.75	10237.5	0	7.5	950.80	9605.1	0	7.5	948.75	8970.8	0	7.5	946.70	8363.7	0	7.5	28
29	952.70	10221.0	0	7.5	950.75	9589.4	0	7.5	948.70	8955.7	0	7.5	946.60	8334.8	0	7.5	29
30	952.60	10188.0	0	7.5	950.65	9557.9	0	7.5	948.60	8925.6	0	7.5	946.55	8320.4	0	7.5	30
31					950.60	9542.2	0	7.5	948.55	8910.6	0	7.5					31
TOTAL			0	197.6			0	232.5			0	232.5			0	225.0	
Inf. Ac. Ft.			0				0				0				0	10043.1	
Outf. Ac. Ft.			391.9	+(182.1)			461.2	+(184.7)			461.2	+(170.4)		446.3	+(144.0)	4835.4	+(1091)
Maximum Mean Daily Inflow			0				0				0				0	1125.9	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-574.0				-645.8				-631.6				-590.2		+3708.2	
REMARKS																Yearly Totals	

Max. W. S. Elev.	955.75	feet on 4-14-43	Storage 11270.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date
Min. W. S. Elev.	927.20	feet on 1-21-44	Storage 3924.9	Acre Feet	F. A. Pollard	Dam Tender	Gage Hts. copied	C. C. G.
Max. Peak Inf.	2300	C.F.S. from 2:00 A.M. on 1-23-43	to 2:30 A.M. on	1-23-43	C. L. Brewster	Hydrographer	Storage applied	C. C. G.
Max. Peak Outf.	287	C.F.S. from 11:30 P.M. on 3-4-43	to 3:30 A.M. on	3-5-43		Hydrographer	Inf. & Outf. computed	CCG 3-25-44
							Checked	K. F. S.

Gage heights and storages as of midnight on day shown.

+ () = Total monthly loss from evaporation, percolation and leakage.

LIVE OAK

F. C. Dist. Form 68 Revised 600 5/29

Storages based on U.S.S.C.S. Survey of May 1936 (Table IV)

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

In Live Oak Canyon for the Year Ending September 30, 1943

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Alt

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	Day
1															0	0	1
2															0	0	2
3															0	0	3
4															0	0	4
5															0	0	5
6															0	0	6
7															0	0	7
8															0	0	8
9															0	0	9
10															0	0	10
11															0	0	11
12															0	0	12
13	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	0	0	13
14															0	0	14
15															0	0	15
16															0	0	16
17															0	0	17
18															0	0	18
19															0	0	19
20															0	0	20
21													1445	0	0	0	21
22													1479.2	77.6	44.1	5.0	22
23													1491.2	167.6	78.0	32.6	23
24													1486.7	128.8	7.8	27.4	24
25													1481.3	90.3	3.6	23.0	25
26													1476.1	61.0	2.0	16.7	26
27													1475.5	53.3	3.7	5.2	27
28													1475.7	59.1	2.4	1.9	28
29													1475.2	56.7	1.4	2.6	29
30													1473.3	48.3	1.3	5.5	30
31													1472.8	46.2	2.5	3.6	31
TOTAL															146.8	123.5	
Inf. Ac. Ft.															291.2	291.2	
Outf. Ac. Ft.															245.0	245.0	
Minimum Mean Daily Inflow															78.0	78.0	
Minimum Mean Daily Inflow															0	0	
Storage Change															+ 46.2	+ 46.2	
REMARKS																½ Year	

Max. W. S. Elev.	1491.4	feet on 1-23-43	Storage	169.5	Acre Feet		
Min. W. S. Elev.	1445 +	feet on Various times	Storage	0	Acre Feet		
Max. Peak Inf.	170	C.F.S. from 8:30 P.M. on 1-22-43	to	8:45 P.M.	on	1-22-43	
Max. Peak Outf.	50.0	C.F.S. from 5:30 A.M. on 1-23-43	to	11:00 A.M.	on	1-23-43	

Gage height and storages as of midnight on day shown.

RECORDS COLLECTED BY

C.C. Green and H. R. Whisler	Dam Tender
G. L. Brewster	Hydrographer
H. A. Van der Goot	Hydrographer

COMPUTATIONS

	Date
Gage Hts. copied	HAV & EWG
Storage applied	HAV & EWG
Inf. & Outf. computed	CGG & HAV
Checked	K. F. S.

F. C. Dist. Form 68 Revised 600 5/29

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

In Live Oak Canyon for the Year Ending September 30, 1943

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft.

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

Continuous Water Stage Recorder Alt

Gage Heights Read At Various Times.

Day	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	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	Day
1	1472.7	45.8	1.5	1.7	1475.5	58.2	2.9	3.1	1476.5	63.0	0.6	1.6	1465.1	19.8	0.3	1.1	1
2	1472.5	45.0	1.3	1.7	1476.0	60.5	2.2	1.0	1476.1	61.0	0.6	1.6	1465.3	20.2	0.3	E 0.1	2
3	1472.5	45.0	1.2	1.2	1477.4	67.6	7.9	4.4	1475.7	59.1	0.6	1.6	1465.0	19.5	0.3	0.7	3
4	1472.7	45.8	0.7	0.3	1486.3	125.7	42.0	12.7	1475.3	57.2	0.7	1.6	1464.7	18.7	1 0.3	{ 0.9	4
5	1472.9	46.6	0.5	0.1	1486.9	130.4	27.8	25.4	1475.1	56.3	1.1	1.6	1464.4	17.9	0.3	0.9	5
6	1473.1	47.4	0.4	0	1485.1	116.6	13.9	20.9	1475.1	56.3	1.6	1.6	1464.1	17.2	0.3	0.9	6
7	1473.2	47.9	0.3	0	1482.9	100.8	9.6	17.5	1474.9	55.4	1.2	1.6	1463.8	16.4	0.3	0.8	7
8	1473.7	50.0	1.0	0	1478.9	75.8	7.3	19.9	1475.0	55.8	1.8	1.6	1463.4	15.5	0.3	0.8	8
9	1473.9	50.9	0.5	0	1475.8	59.6	5.0	13.2	1475.0	55.8	1.6	1.6	1463.0	14.6	0.2	0.8	9
10	1474.1	51.8	0.4	0	1476.1	61.0	4.2	3.5	1474.8	54.9	1.1	1.6	1462.5	13.6	0.2	{ 0.8	10
11	1474.2	52.2	0.2	0	1477.3	67.1	3.6	0.5	1474.6	54.0	1.2	1.6	1461.9	12.3	0.2	0.7	11
12	1474.3	52.7	0.2	0	1478.2	71.9	2.9	0.5	1474.3	52.7	0.9	1.6	1461.3	11.2	0.2	0.7	12
13	1474.3	52.7	0.1	0	1478.9	75.8	2.5	0.5	1474.0	51.3	0.9	1.6	1460.6	9.9	0.2	0.7	13
14	1474.4	53.1	0.1	0	1479.5	79.4	2.3	0.5	1473.7	50.0	0.9	1.6	1459.8	8.6	0.2	0.6	14
15	1474.4	53.1	0.05	0	1480.0	82.3	1.9	0.5	1473.4	48.7	1.0	1.6	1459.0	7.4	0.2	0.6	15
16	1474.5	53.6	0.05	0	1480.4	84.7	1.8	0.5	1473.1	47.4	0.9 M	1.6	1458.1	6.2	0.2	{ 0.6	16
17	1474.5	53.6	0.05	0	1480.6	86.0	1.6	1.0	1472.7	45.8	0.8	1.6	1457.2	5.1	0.1	{ 0.6	17
18	1474.5	53.6	0.05	0	1479.8	81.1	1.7	4.2	1472.3	44.1	0.8	1.6	1456.3	4.2	0.1	{ 0.6	18
19	1474.5	53.6	0.05	0	1479.4	78.8	1.6	2.8	1471.9	42.5	0.8	1.6	1455.3	3.3	0.1	0.5	19
20	1474.5	53.6	0.05	0	1479.3	78.2	1.5	1.7	1471.5	40.9	0.7	1.6	1454.1	2.4	0.1	{ 0.6	20
21	1474.8	54.9	0.7	0	1479.2	77.6	1.4	1.7	1471.1	39.3	0.8	1.6	1452.7	1.6	0.1	0.5	21
22	1479.7	80.5	16.2	3.3	1479.1	77.0	1.4	1.7	1470.6	37.4	0.6	1.5	1451.3	1.0	0.1	0.4	22
23	1479.4	78.8	16.7	17.6	1479.0	76.4	1.4	1.7	1470.1	35.6	0.6	1.5	1449.4	0.5	0.1	{ 0.3	23
24	1478.9	75.8	16.5	18.0	1478.8	75.3	1.1	1.7	1469.5	33.4	0.4	1.5	1446.0	0	0.1	{ 0.3	24
25	1477.6	68.7	7.9	11.5	1478.6	74.2	{ 1.0	1.7	1469.0	31.6	0.6	1.5	1445 +	0	1 0.1	{ 0.2	25
26	1476.3	62.0	4.7	8.0	1478.3	72.5	1.0	1.7	1468.5	30.0	0.7	1.5	Reservoir Dry	No Storage	0.1	0.1	26
27	1475.7	59.1	3.9	5.4	1478.1	71.4	1.0	1.7	1467.9	28.0	0.4	1.5			0.1	0.1	27
28	1475.6	58.6	3.7	3.9	1477.8	69.7	1.0	1.7	1467.3	26.1	0.6	1.5			0.1	0.1	28
29					1477.5	68.2	0.9	1.7	1466.5	23.7	0.3	1.5			0.1	0.1	29
30					1477.2	66.6	0.9	1.7	1465.7	21.4	0.3	1.5			0.1	0.1	30
31					1476.9	65.0	0.9	1.7							0.1	0.1	31
TOTAL			7.9.0	72.7			156.2	153.0			25.1	47.1			5.5	16.3	
Inf. Ac. Ft.			156.7				309.8				49.8				10.9	81.8.4	
Outf. Ac. Ft.				144.2				303.5				93.4			32.3	81.8.4	
Minimum Mean Daily Inflow			16.7				42.0				1.8				0.3	78.0	
Minimum Mean Daily Inflow			0.05				0.9				0.3				0.1	0	
Storage Change			+ 12.4				+ 6.4				- 43.6				- 21.4	0	
REMARKS																⅔ Year	

Max. W. S. Elev.	1491.4	feet on 1-23-43	Storage	169.5	Acre Feet		
Min. W. S. Elev.	1445 +	feet on Various times	Storage	0	Acre Feet		
Max. Peak Inf.	170	C.F.S. from 8:30 P.M. on 1-22-43	to	8:45 P.M.	on	1-22-43	
Max. Peak Outf.	50.0	C.F.S. from 5:30 A.M. on 1-23-43	to	11:00 A.M.	on	1-23-43	

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY

C. C. Green and H. R. Whisler	Dam Tender
G. L. Brewster	Hydrographer
H. A. van der Goot	Hydrographer

COMPUTATIONS

	Date
Gage Hts. copied	F. H. M.
Storage applied	F. H. M.
Inf. & Outf. computed	C. C. G.
Checked	K. F. S.

i = Interpolated.
M = Measured.
E = Estimated.
{ = Mean for period.
Outflows as indicated by valve operation records and measurements.

LIVE OAK (CONT.)

F. C. Dist. Form 68 Revised 800 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In / On Live Oak Canyon for the Year Ending September 30, 1943

Continuous Water Stage Recorder: Au

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft. Gage Heights: Read At Various Times.

Day	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			0.1	0.1			0.1	0.1			0	0			0	0	1
2			0.1	0.1			0.1	0.1									2
3			0.1	0.1			0.1	0.1									3
4			0.1	0.1			0.1	0.1									4
5			0.1	0.1			0.1	0.1									5
6			0.1	0.1			0.1	0.1									6
7			0.1	0.1			0.1	0.1									7
8			0.1	0.1			0.1	0.1									8
9			0.1 M	0.1			0.1	0.1									9
10			0.1	0.1			0.1	0.1									10
11			0.1	0.1			0.1	0.1									11
12			0.1	0.1													12
13	Reservoir Dry	No Storage	0.1	0.1	Reservoir Dry	No Storage			Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	13
14			0.1	0.1													14
15			0.1	0.1													15
16			0.1	0.1													16
17			0.1	0.1													17
18			0.1	0.1													18
19			0.1	0.1													19
20			0.1	0.1													20
21			0.1	0.1													21
22			0.1	0.1													22
23			0.1	0.1													23
24			0.1	0.1			Flow Negligible	Flow Negligible									24
25			0.1	0.1													25
26			0.1	0.1													26
27			0.1	0.1													27
28			0.1	0.1													28
29			0.1	0.1													29
30			0.1	0.1											0	0	30
31											0	0					31
TOTAL			3.0	3.0			1.1	1.1			0	0			0	0	
Inf. Ac. Ft.			6.0				2.2				0	0			0	826.6	
Outf. Ac. Ft.				6.0				2.2				0			0	826.6	
Maximum			0.1				0.1				0				0	78.0	
Mean Daily Inflow																	
Minimum			0.1				0				0				0	0	
Mean Daily Inflow																	
Storage Change			0				0				0				0	0	

REMARKS — Yearly Totals

Max. W. S. Elev.	1491.4	feet	on	1-23-43	Storage	169.5	Acre Feet				
Min. W. S. Elev.	1445 ±	feet	on	Various times	Storage	0	Acre Feet				
Max. Peak Inf.	170	C.F.S. from	8:30 P.M.	on	1-22-43	to	8:45 P.M.	on	1-22-43		
Max. Peak Outf.	50.0	C.F.S. from	5:30 A.M.	on	1-23-43	to	11:00 A.M.	on	1-23-43		

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY		COMPUTATIONS	Date
C. C. Green and H. B. Whisler	Dam Tender	Gage Hts. copied	KWO 10-21-43
C. L. Brewster	Hydrographer	Storage applied	E. W. G.
H. A. van der Goot	Hydrographer	Inf. & Outf. computed	E. W. G.
		Checked	K. F. S.

M = Measured.

THOMPSON CREEK

F. C. Dist. Form 68 Revised 800 5/39

Storages based on L.A.C.F.C.D. survey of January, 1943 (Table II).

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In / On Thompson Creek for the Year Ending September 30, 1943.

Continuous Water Stage Recorder: None

Drainage Area 3.7 Square Miles. Capacity of Reservoir 612.3 Ac. Ft. at Spillway Elev. 1634.8 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	Day
1			0		1572.4												1
2			0		1572.3												2
3			0		1572.3												3
4			0		1572.2												4
5			0		1572.2												5
6			0		1572.1												6
7			0														7
8			0														8
9			0														9
10			0														10
11	1572.4	0	0														11
12	1574.7	0.2	0.1														12
13	1574.6	0.1	0.05														13
14	1574.3	0.1	0														14
15	1573.8		0														15
16	1573.3		0														16
17	1573.1		0														17
18	1573.0		0														18
19	1572.9		0														19
20	1572.9		0														20
21	1572.9		0														21
22	1572.8		0										1602.9	105.4	53.6	0	22
23	1572.8		0										1622.5	336.5	121.1	0	23
24	1572.7		0										1623.8	360.8	22.1	0	24
25	1572.7		0										1622.5	333.0	5.4	9.2	25
26	1572.6		0										1619.5	292.0	2.4	16.8	26
27	1572.6		0										1618.0	262.0	4.9	16.0	27
28	1572.5		0										1616.8	244.3	0	5.8	28
29	1572.5		0										1615.7	228.8	0	5.2	29
30	1572.5		0										1613.5	200.6	0.6	12.8	30
31	1572.4		0										1612.4	187.8	1.1	5.7	31
TOTAL			0.15				0	0			0	0			21.2	71.5	
Inf. Ac. Ft.			0.3				0				0				418.9	419.2	
Outf. Ac. Ft.			(0.3)					0				0			141.8 (89.3)	141.8 (89.6)	
Maximum			0.1				0				0				121.1	121.1	
Mean Daily Inflow																	
Minimum			0				0				0				0	0	
Mean Daily Inflow																	
Storage Change			0				0				0				+187.8	+187.8	

REMARKS — ½ Year

Max. W. S. Elev.	1623.8	feet	on	1-24-43	Storage	360.2	Acre Feet				
Min. W. S. Elev.	1572.0±	feet	on	Various	Storage	0	Acre Feet				
Max. Peak Inf.	270	C.F.S. from	3:45 A.M.	on	1-23-43	to	4:00 A.M.	on	1-23-43		
Max. Peak Outf.	16.8	C.F.S. from	11:30 A.M.	on	1-25-43	to	8:30 A.M.	on	1-28-43		

Gage heights and storages as of midnight on day shown.

RECORDS COLLECTED BY		COMPUTATIONS	Date 9-20-44
C. C. Green	Dam Tender	Gage Hts. copied	F.H.M.
H. A. Vander Goot	Hydrographer	Storage applied	F.H.M.
C. L. Brewster	Hydrographer	Inf. & Outf. computed	L. T.
		Checked	K. F. S.

() = Total monthly evaporation and percolation loss.

THOMPSON CREEK (CONT.)

F. C. Dist. Form 68 Revised 600 5/32

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In / On Thompson Creek for the Year Ending September 30, 1943

Continuous Water Stage Recorder None

Drainage Area 3.7 Square Miles. Capacity of Reservoir 612.3 Ac. Ft. at Spillway Elev. 1634.8 Ft.

Gage Heights Read At Various Times

Day	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	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	Day
1	1612.3	186.6	0	0	1608.0	144.6	{ 1.8	{ 10.0	1608.2	146.3	0	0	1600.5	89.0	0	0	1
2	1612.0	183.2	0	0	1606.2	129.9	{ 2.0	{ 8.1	1607.9	143.6	0	0	1600.2	87.0	0	0	2
3	1611.7	180.0	0	0	1606.7	133.9	{ 7.4	{ 4.2	1607.6	141.3	0	0	1599.9	85.1	0	0	3
4	1611.4	176.8	0	0	1615.1	220.7	48.4	2.8	1607.3	138.6	0	0	1599.7	83.8	0	0	4
5	1611.0	172.6	0	0	1617.7	257.5	34.5	13.3	1607.0	136.3	0	0	1599.4	81.9	0	0	5
6	1610.7	169.6	0	0	1616.9	245.7	11.1	14.0	1606.8	134.7	1.2	0	1599.1	79.9	0	0	6
7	1610.4	166.6	0	0	1616.1	234.3	{ 3.4	{ 6.5	1606.5	132.3	0	0	1598.8	78.1	0	0	7
8	1610.1	163.6	0	0	1615.4	224.8	3.9	6.3	1606.3	130.7	0	0	1598.5	76.2	0	0	8
9	1609.8	160.7	0	0	1614.1	207.9	3.3	9.7	1606.1	129.1	0	0	1598.3	75.0	0	0	9
10	1609.5	157.9	0	0	1613.7	203.9	2.0	2.4	1605.8	126.8	0	0	1598.1	73.7	0	0	10
11	1609.2	155.2	0	0	1613.5	200.8	1.2	0	1605.6	125.3	0	0	1597.8	71.9	0	0	11
12	1608.9	152.4	0	0	1613.4	199.4	0.8	0	1605.3	123.0	0.4	0	1597.6	70.7	0	0	12
13	1608.6	149.8	0	0	1613.2	197.0	0.7	0	1605.1	121.5	0	0	1597.4	69.5	0	0	13
14	1608.2	146.3	0	0	1613.0	194.6	0.7	0	1604.8	119.2	0	0	1597.1	67.7	0	0	14
15	1607.9	143.8	0	0	1612.8	192.3	0.7	0	1604.6	117.7	0.4	0	1596.8	65.9	0	0	15
16	1607.6	141.3	0	0	1612.5	188.9	0.5	0	1604.3	115.5	0	0	1596.6	64.8	0	0	16
17	1607.3	138.8	0	0	1612.3	186.6	0.4	0	1604.1	114.0	0	0	1596.4	63.6	0	0	17
18	1606.9	135.5	0	0	1612.2	185.5	0.4	0	1603.8	111.9	0	0	1596.2	62.5	0	0	18
19	1606.6	133.1	0	0	1612.0	183.2	0.4	0	1603.6	110.4	0	0	1595.9	60.7	0	0	19
20	1606.3	130.7	0	0	1611.7	180.0	0.4	0	1603.3	108.3	0	0	1595.8	60.2	0	0	20
21	1606.2	129.9	0.8	0	1611.4	176.8	0	0	1603.1	106.8	0	0	1595.5	58.5	0	0	21
22	1609.5	157.9	15.5	0	1611.1	173.7	0	0	1602.8	104.7	0	0	1595.3	57.4	0	0	22
23	1612.9	193.5	19.6	0	1610.8	170.6	0	0	1602.6	103.3	0	0	1595.0	55.7	0	0	23
24	1613.7	203.0	6.7	0	1610.5	167.6	0	0	1602.3	101.2	0	0	1594.7	54.1	0	0	24
25	1613.7	203.0	2.0	0	1610.2	164.6	0	0	1602.1	99.8	0	0	1594.5	53.0	0	0	25
26	1613.6	201.8	1.4	0	1609.9	161.7	0	0	1601.8	97.7	0	0	1594.3	51.9	0	0	26
27	1612.2	195.5	1.7	8.2	1609.6	158.9	0	0	1601.6	96.4	0	0	1594.1	50.8	0	0	27
28	1610.1	163.6	1.8	11.2	1609.3	156.1	0	0	1601.3	94.3	0	0	1594.0	50.3	0	0	28
29					1609.0	153.3	0	0	1601.0	92.3	0	0	1593.8	49.3	0	0	29
30					1608.8	151.6	0	0	1600.8	91.0	0	0	1593.6	48.2	0	0	30
31					1608.5	148.9	0	0					1593.5	47.7	0	0	31
TOTAL			49.5	19.4			124.0	77.2			2.0	0			0	0	
Inf. Ac. Ft.			98.2				245.9				4.0				0	767.3	
Outf. Ac. Ft.			38.5+(83.9)				153.1+(107.5)				(61.9)				(43.2)	333.4+(386.1)	
Maximum Mean Daily Inflow			19.6				48.4				0				0	121.1	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-24.2				-14.7				-57.9				-43.3		+47.7	

REMARKS ½ Year

Max. W. S. Elev.	1623.8	feet on	1-24-43	Storage	360.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date 9-20-44
Min. W. S. Elev.	1572.0±	feet on	Various	Storage	0	Acre Feet	C. C. Green	Dam Tender	Gage Hts. copied	F.H.M.& C.C.C.
Max. Peak Inf.	270	C. F. S. from	3:45 A.M. on 1-23-43	to	4:00 A.M.	on 1-23-43	H. A. Vander Goot	Hydrographer	Storage applied	F.H.M.& C.C.C.
Max. Peak Outf.	16.8	C. F. S. from	11:30 A.M. on 1-25-43	to	8:30 A.M.	on 1-28-43	C. L. Brewster	Hydrographer	Inf. & Outf. computed	L. T.
									Checked	K.F.S.

Gage heights and storages as of midnight of day shown.

() = Total monthly evaporation and percolation loss.

{ = Mean for period.

F. C. Dist. Form 68 Revised 600 5/39

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DEPARTMENT

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

In / On Thompson Creek for the Year Ending September 30, 1943

Continuous Water Stage Recorder None

Drainage Area 3.7 Square Miles. Capacity of Reservoir 612.3 Ac. Ft. at Spillway Elev. 1634.8 Ft.

Gage Heights Read At Various Times

Day	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	1593.3	46.7	0	0	1588.8	26.1	0	0	1584.7	12.9	0	0	1581.1	5.1	0	0	1
2	1593.1	45.6	0	0	1588.6	25.4	0	0	1584.5	12.4	0	0	1581.0	4.9	0	0	2
3	1592.9	44.6	0	0	1588.5	25.0	0	0	1584.4	12.1	0	0	1580.9	4.8	0	0	3
4	1592.8	44.1	0	0	1588.3	24.2	0	0	1584.3	11.9	0	0	1580.8	4.6	0	0	4
5	1592.6	43.1	0	0	1588.2	23.9	0	0	1584.2	11.6	0	0	1580.7	4.5	0	0	5
6	1592.5	42.6	0	0	1588.1	23.5	0	0	1584.1	11.4	0	0	1580.6	4.3	0	0	6
7	1592.3	41.7	0	0	1587.9	22.8	0	0	1583.9	10.9	0	0	1580.5	4.2	0	0	7
8	1592.1	40.7	0	0	1587.8	22.4	0	0	1583.8	10.6	0	0	1580.4	4.1	0	0	8
9	1592.0	40.2	0	0	1587.7	22.1	0	0	1583.7	10.4	0	0	1580.3	3.9	0	0	9
10	1591.8	39.3	0	0	1587.5	21.4	0	0	1583.6	10.1	0	0	1580.2	3.8	0	0	10
11	1591.7	38.8	0	0	1587.4	21.1	0	0	1583.5	9.9	0	0	1580.1	3.6	0	0	11
12	1591.5	37.8	0	0	1587.2	20.4	0	0	1583.3	9.4	0	0	1580.0	3.5	0	0	12
13	1591.4	37.4	0	0	1587.1	20.0	0	0	1583.2	9.2	0	0	1579.9	3.4	0	0	13
14	1591.2	36.4	0	0	1587.0	19.7	0	0	1583.1	8.9	0	0	1579.8	3.3	0	0	14
15	1591.1	36.0	0	0	1586.8	19.1	0	0	1582.9	8.5	0	0	1579.7	3.1	0	0	15
16	1590.9	35.1	0	0	1586.7	18.7	0	0	1582.8	8.3	0	0	1579.5	2.9	0	0	16
17	1590.8	34.6	0	0	1586.6	18.4	0	0	1582.7	8.1	0	0	1579.4	2.8	0	0	17
18	1590.7	34.2	0	0	1586.4	17.8	0	0	1582.5	7.7	0	0	1579.3	2.7	0	0	18
19	1590.5	33.3	0	0	1586.3	17.5	0	0	1582.4	7.5	0	0	1579.2	2.5	0	0	19
20	1590.4	32.9	0	0	1586.2	17.1	0	0	1582.3	7.3	0	0	1579.1	2.4	0	0	20
21	1590.2	32.0	0	0	1586.0	16.5	0	0	1582.2	7.1	0	0	1579.0	2.3	0	0	21
22	1590.1	31.5	0	0	1585.9	16.2	0	0	1582.1	6.9	0	0	1578.9	2.2	0	0	22
23	1589.9	30.7	0	0	1585.8	15.9	0	0	1581.9	6.5	0	0	1578.7	2.1	0	0	23
24	1589.8	30.3	0	0	1585.6	15.4	0	0	1581.8	6.3	0	0	1578.6	2.0	0	0	24
25	1589.6	29.4	0	0	1585.5	15.1	0	0	1581.7	6.2	0	0	1578.5	1.9	0	0	25
26	1589.5	29.0	0	0	1585.4	14.8	0	0	1581.6	6.0	0	0	1578.4	1.8	0	0	26
27	1589.3	28.2	0	0	1585.3	14.5	0	0	1581.5	5.8	0	0	1578.3	1.7	0	0	27
28	1589.2	27.7	0	0	1585.2	14.3	0	0	1581.4	5.6	0	0	1578.2	1.7	0	0	28
29	1589.0	26.9	0	0	1585.0	13.7	0	0	1581.3	5.5	0	0	1578.1	1.6	0	0	29
30	1588.9	26.5	0	0	1584.9	13.4	0	0	1581.3	5.4	0	0	1578.0	1.5	0	0	30
31					1584.8	13.2	0	0	1581.2	5.3	0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	767.2	
Outf. Ac. Ft.			0+(21.2)				0+(13.3)				0+(7.9)				0+(3.8)	333.4+(432.3)	
Maximum Mean Daily Inflow			0				0				0				0	121.1	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-21.2				-13.5				-7.9				-3.8		+15	

REMARKS Yearly Totals

Max. W. S. Elev.	1623.8	feet on	1-24-43	Storage	360.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	Date 9-20-44
Min. W. S. Elev.	1572.0±	feet on	Various	Storage	0	Acre Feet	C. C. Green	Dam Tender	Gage Hts. copied	F.H.M.& C.C.C.
Max. Peak Inf.	270	C. F. S. from	3:45 A.M. on 1-23-43	to	4:00 A.M.	on 1-23-43	H. A. Vander Goot	Hydrographer	Storage applied	F.H.M.& C.C.C.
Max. Peak Outf.	16.8	C. F. S. from	11:30 A.M. on 1-25-43	to	8:30 A.M.	on 1-28-43	C. L. Brewster	Hydrographer	Inf. & Outf. computed	L. T.
									Checked	K. F. S.

Gage heights and storages as of midnight on day shown.

() = Total monthly evaporation and percolation loss.

YEARLY RESERVOIR OPERATION SUMMARY

(1942-43)

Dam	Inflow			Outflow	Peak Inflow			Peak Outflow			Storage A. F.		
	Annual A.F.	Maximum Day C.F.S.	Minimum Day C.F.S.	Annual A.F.	Month	Day	C.F.S.	Month	Day	C.F.S.	Maximum	Minimum	September 30, 43
Pacoima	20698	1246	0.1	20407	1	23	2651	1	23	598	2682	0	386
Big Tujunga #1	52877	5695	1.1	52919	1	23	17850	1	23	17670	5321	0	0
Devils Gate	25655	2559	0	23552	1	23	7740	1	23	5530	2366	0.5	58
Eaton Wash	7212	498	0	6399	1	23	1700	1	23	1100	643	0	0
Santa Anita	19371	1113	0.6	19440	1	23	3100	1	23	3060	717	0	0
Sawpit	2966	162	0	2950	1	23	520	1	23	284	300	0	58
San Gabriel #2	54700	4316	0.7	53703	1	23	15000	1	23	7100	8383	0	0
San Gabriel #1	271286	17184	19.8	267085	1	23	46000	1	23	10360	31345	236	964
Big Dalton	3143	160	0.1	3110	1	23	595	3	4-6	111	760	0	13
San Dimas	9271	573	0.5	9095	1	23	1700	1	23	1230	1153	58	276
Puddingstone	10043	1126	0	4836	1	23	2300	3	4	287	11271	3925	8320
Puddingstone Diversion	8593	970	0	7939	1	23	2045	1	23	2035	76	0	0
Live Oak	827	78	0	827	1	23	170	1	23	50	170	0	0
Thompson Creek	767	121	0	333	1	23	270	1	25	17	360	0	1.5

Note: Outflows show valve releases only, percolation losses are not shown.

GROUND WATER

&

CONSERVATION

GROUND WATER AND WATER CONSERVATION

During the 1942-'43 season, the increase in population and the expansion of industry resulting from the war very materially increased the draft upon the ground water supply and placed additional emphasis upon the necessity of unremitting study of changing conditions and of adapting conservation practices to such conditions.

The principles, practices, and objectives of conservation and the physical characteristics of the principal ground water basins of the county were discussed in considerable detail in the Annual Report on Hydrologic Data for 1941-42, and reference may be made to that report for such information.

In order to determine to what extent the ground water basins were replenished or depleted during the 1942-43 season numerous measurements of water table and pressure surface elevations were made or obtained from cooperating agencies. More than 1100 wells were measured in October 1942 and again in April 1943. Eighty-five of these (designated as Key Wells, see Map V, page 230) were also measured at monthly intervals. A smaller number were measured more frequently, and a few were equipped with automatic recorders to provide continuous records of fluctuations.

Ground water maps were made from the fall and spring measurements. They show by contour lines the seasonal high and low positions of the water tables or pressure surfaces. See Maps VI to XI, pages 237 TO 242, inclusive.

The key well measurements were reduced to hydrographs, ten of which are included herein to show the fluctuations in the more important basins. See pages 231 to 236, inclusive.

During the 1942-43 season the study of ground water pollution was continued. Samples of water for chemical analysis were taken from streams and from wells in industrial districts, oil fields, and the coastal area. In general, only partial analyses of samples were made; that is, only the carbonate, bicarbonate, and chloride content were determined. About 500 such analyses were made in the District's laboratory. Complete analyses were made upon samples of water from several San Gabriel Valley wells in order to establish a norm by which any future variations in the quality of the water may be determined.

The United States Geological Survey, with which the District, the City of Long Beach Water Department, and the Orange County Flood Control and Water Districts have been cooperating in an investigation of the effectiveness of the structural barrier in the South Coastal Basin to prevent intrusion of sea water, issued a progress report during the year.

A somewhat similar cooperative investigation of the intrusion of sea water into the West Coastal Basin was started during the year.

West Coastal Basin differs from South Coastal Basin in that it lies entirely oceanward from the structural barrier. Its normal water table slope was toward the ocean, but heavy extractions during the past several years caused the slope to be reversed and started an intrusion of sea water. The purpose of the investigation is to determine the most feasible means of retarding the intrusion and possibly repelling it.

The cooperating agencies in this investigation are the United States Geological Survey; the Los Angeles County Flood Control District; the municipalities of Redondo Beach, Hermosa Beach, Manhattan Beach, El Segundo, Gardena, Hawthorne, Inglewood, and Culver City; and the Palos Verdes Estates.

Tables I, II, and III following show the amounts of surface water conserved in the channels and spreading grounds, and the amount that flowed into the ocean as waste. With the flood-control and conservation facilities now in operation, those under construction, and those contemplated in the Comprehensive Plan, it is to be expected that eventually the waste will be materially reduced. It never will be totally eliminated, however, because of the economic limits of conservation.

All the work relative to ground water and water conservation was done under the immediate supervision of L. W. Jordan.

TABLE I

CHANNEL ABSORPTION - 1942-43

Stream	Reach of Stream Where Absorption Occurred	Absorptive Capacity of Reach c.f.s.	Total Release From Reservoir a.f.	Absorption in Channels and Diversions a.f.	Excess of Release over Absorption a.f.
Pacoima	Dam to Parthenia Avenue	40-125	20830	11920	8460 (1)
Tujunga	Hansen Dam to Magnolia Boulevard	250-700	69950	51180 (2)	15770
Eaton	Dam to Rio Hondo	13-40	6405	2560 (a)	3845
Santa Anita	Dam to Arrow Highway	40-100	19745	11385	8360
Sawpit	U.S.G.S. Gaging Station to Rio Hondo	12-20	3780	2210	1570
San Gabriel and (3) Rio Hondo	Morris Dam to Whittier Narrows	Variable (4)	302615	137900	165715 (5)
	Whittier Narrows to Florence Ave. and Stewart and Gray Road	Variable (4)	274115 (6)	55790	228325
San Dimas	Mouth of Canyon to Pudd. Div. Dam) Pudd. Div. Dam to Glendora Avenue)	7-20	10770	3940 (7)	6830 (8)
Live Oak	Dam to Foothill Blvd.	4	830	405	425
Thompson Creek	Dam to Foothill Blvd.		330	200 (9)	130
Total				277490	

(a) 813 acre feet of water was absorbed or evaporated in the reservoir. This quantity is in addition to the 2560 a.f. absorbed in channels.

(1) Of this quantity 3744 a.f. was absorbed in Pacoima spreading grounds.

(2) An additional 8150 a.f. was absorbed in Hansen reservoir. This includes evaporation loss.

(3) San Gabriel Canyon flow, including power conduit, Azusa diversion tunnel and flow from Fish Creek and Rogers Creek.

(4) Varies with water table elevation and magnitude of release.

(5) Of this quantity 32200 a.f. was absorbed in the spreading grounds of San Gabriel Spreading Corp.

(6) This item represents residual canyon water passing Narrows, tributary flows and rising water.

(7) This includes 655 a.f. absorbed in Puddingstone Diversion reservoir.

(8) This was diverted to surface storage in Puddingstone reservoir.

(9) An additional 420 a.f. was absorbed in Thompson Creek reservoir, and 504 a.f. was by-passed to the spreading grounds.

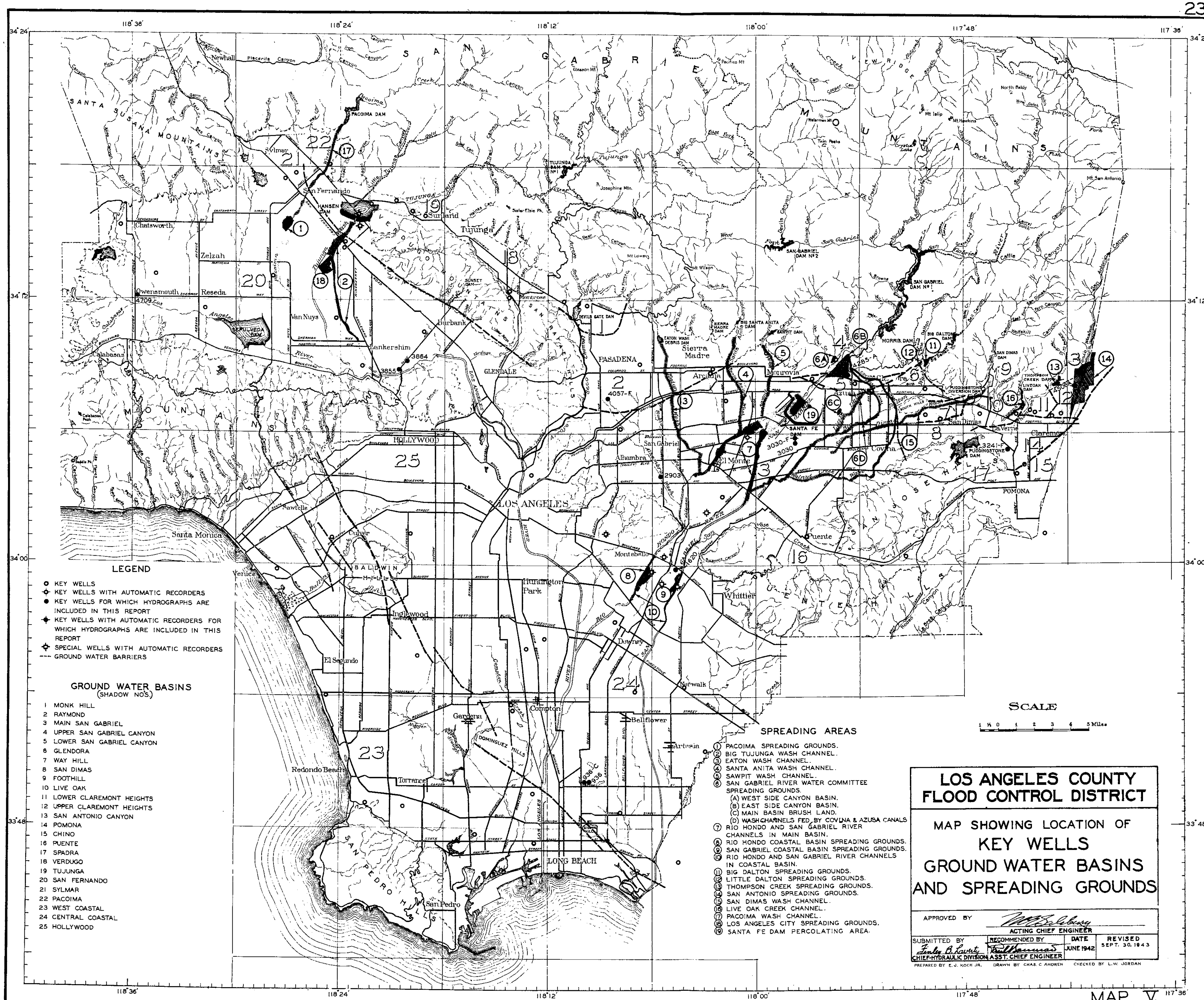
Table II
Spreading Ground Absorption
1942-43

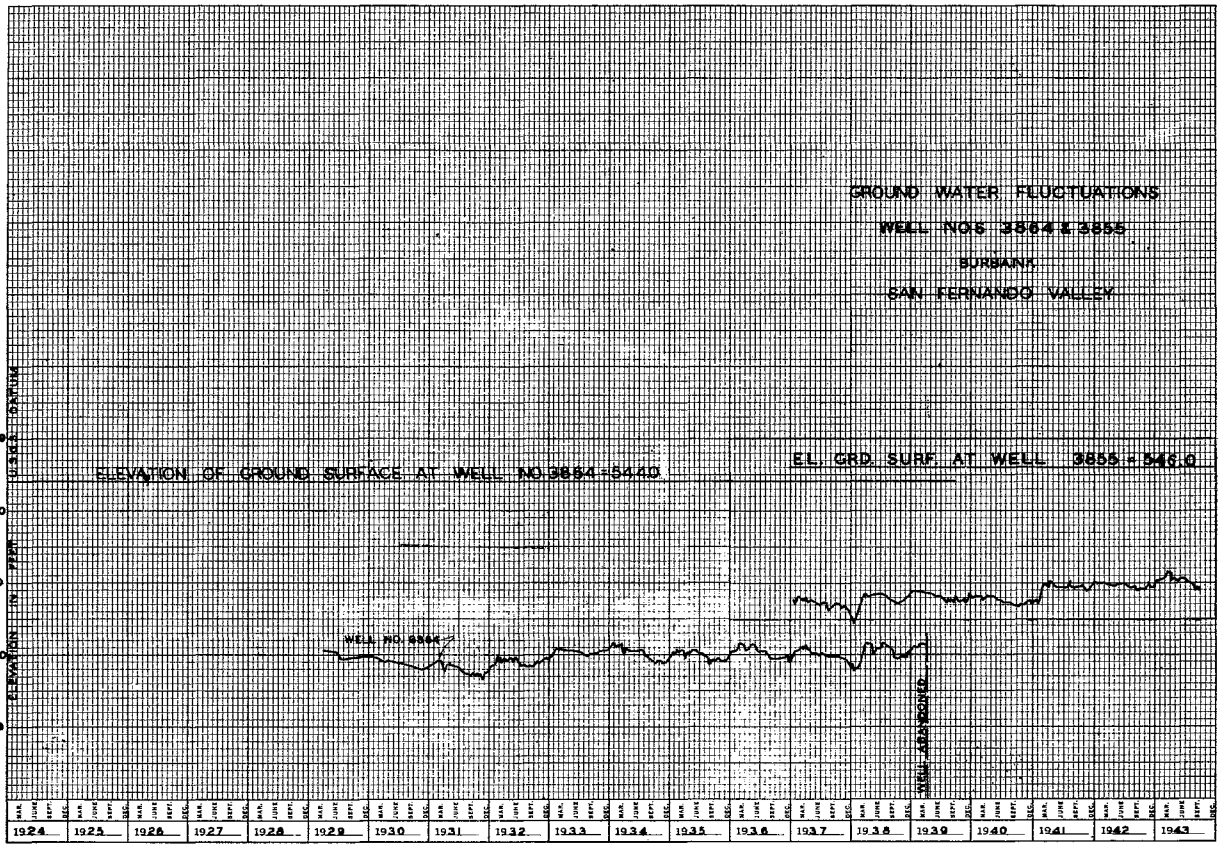
	Name	Quantity of Water Absorbed - a.f.
(I)	Pacoima	3744
(II)	San Gabriel River	
	(a) Canyon basin	
	(1) East side	21923
	(2) West side	2579
	(b) Main basin	
	(1) Covina canal	3069
	(2) Azusa canal	3417
	(3) Brush land	1216
	(c) Coastal basin	0
(III)	Rio Hondo	
	(a) Coastal basin	0
(IV)	Little Dalton	1080
(V)	Big Dalton	1400
(VI)	Thompson Creek	504
(VII)	San Antonio	25100
	Total	64032

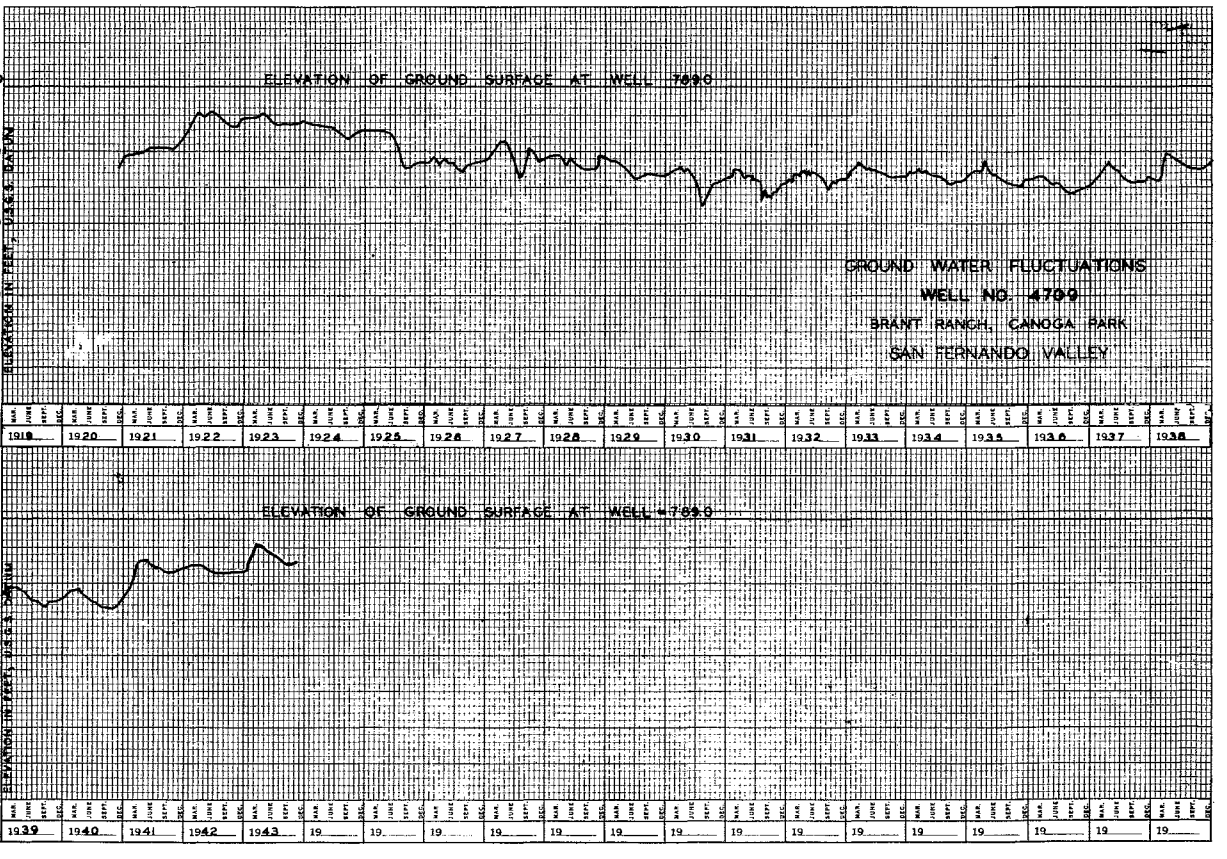
Table III
Runoff Waste to Ocean in Acre Feet

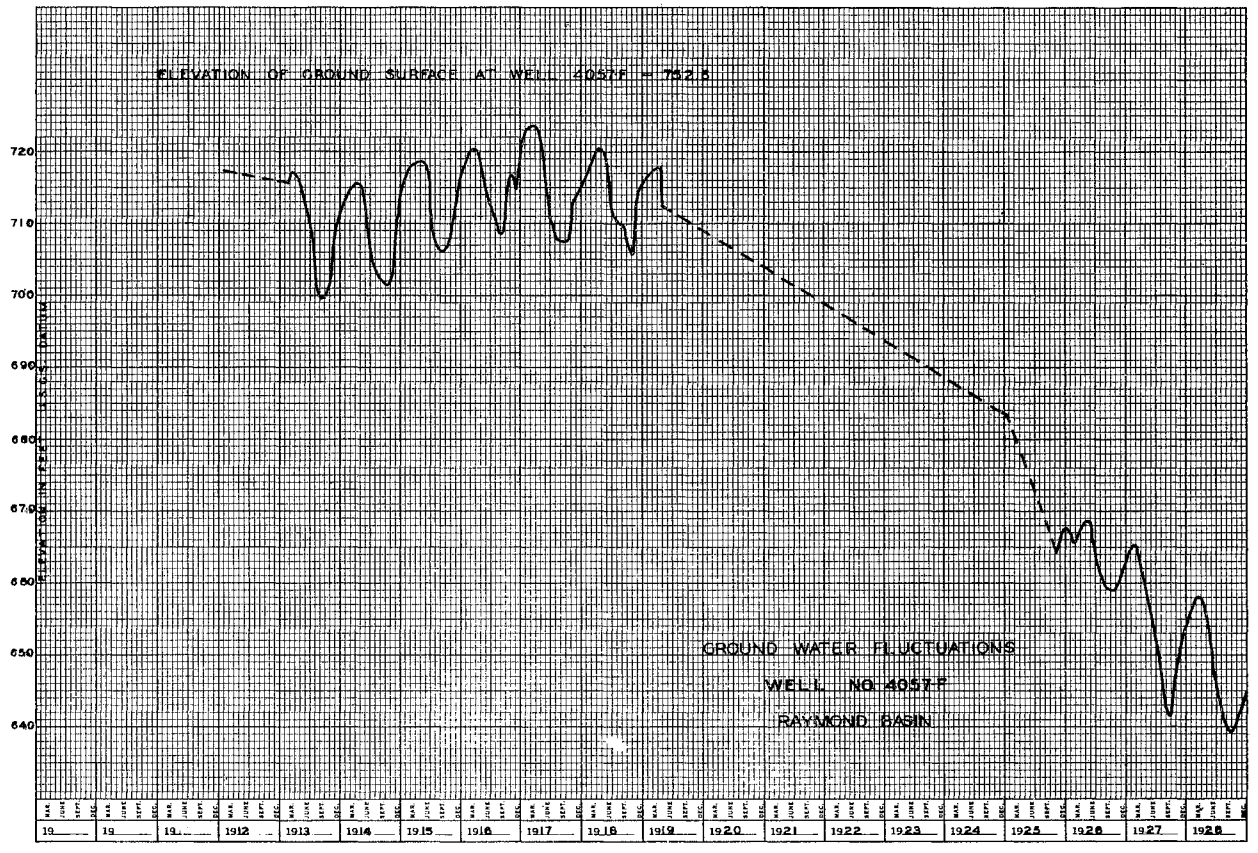
Year	Coyote Creek near Del Amo °Below P.E. Bridge Artesia	San Gab. River at Spring St.	L.A. River at State St. ∮L.A. River at Willow St.	Ballona Creek at Sawtelle Boulevard :At Centinella Blvd.	Total Waste to Ocean	Rainfall Index-Mean for County
1927-28		No Flow	-	:3930		70
1928-29		No Flow	∮9340. Inc.	:14900.	24240.	74
1929-30	°699.	No Flow	∮12300.	:13500.	26500.	76
1930-31	°5681.	No Flow	∮14400.	:18500.	33470.	83
1931-32	°2690.	6560.	51000.	:21800.	82050.	117
1932-33	°457.	809.	22900.	:15800.	39970.	72
1933-34	°3890.	12400.	67900.	:20600.	104800.	87
1934-35	°3850.	2380.	40500.	:24900.	71630.	126
1935-36	°1150.	1190.	20500.	:13300. 186.	36330.	79
1936-37	13700.	13500.	91100.	40680.	159000.	151
1937-38	15100.	88020.	408000.	52500.	599600.	151
1938-39	4250.	1080.	82750.	28490.	116600.	111
1939-40	3190.	1460.	65930.	21110.	91690.	84
1940-41	29500.	65890.	369500.	67360.	532200.	206
1941-42	1560.	10830.	93390.	17250.	123000.	77
1942-43°°	12070.	175100.	264900.	34240.	486300.	152

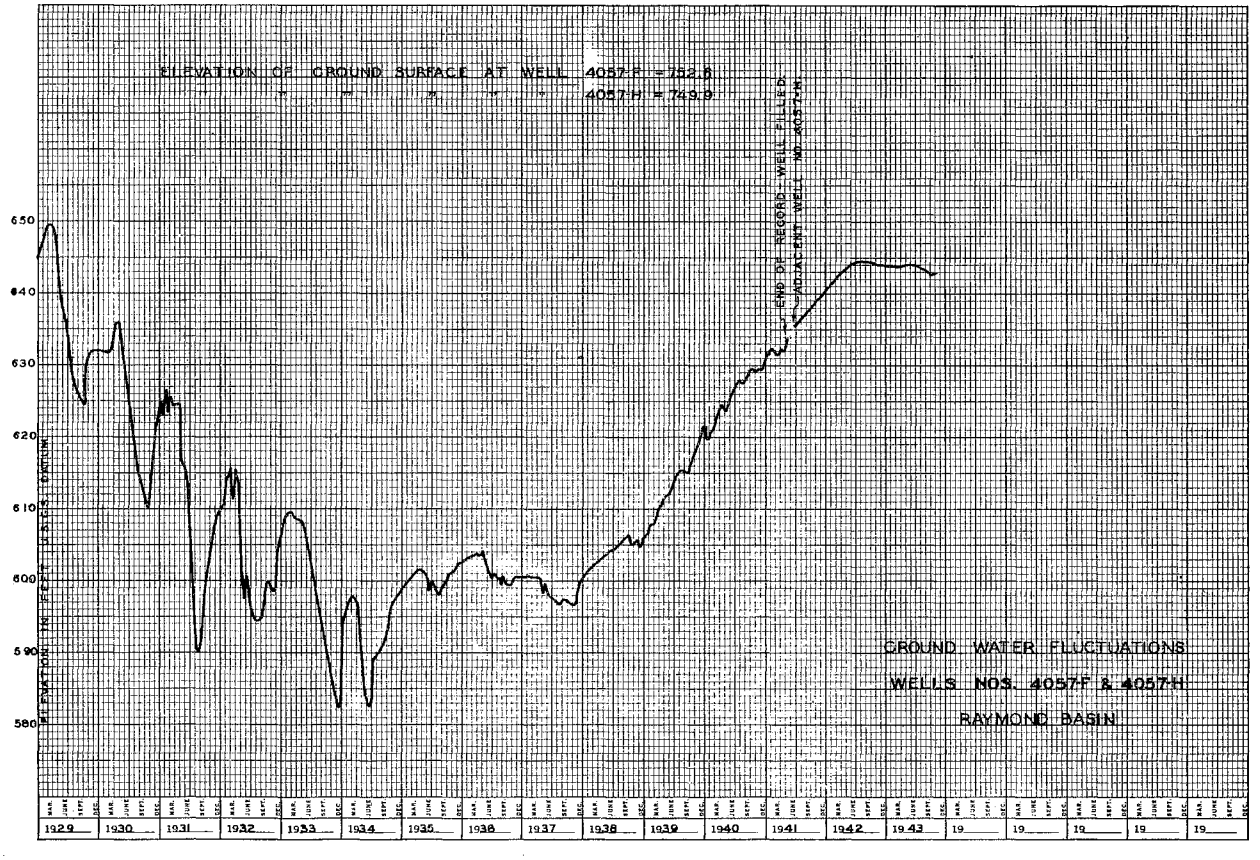
°°It should be noted that this was the first year that Santa Fe Dam discharged all flood flows to the San Gabriel River, thereby increasing the waste in that stream and decreasing the waste in the L. A. River via the Rio Hondo.

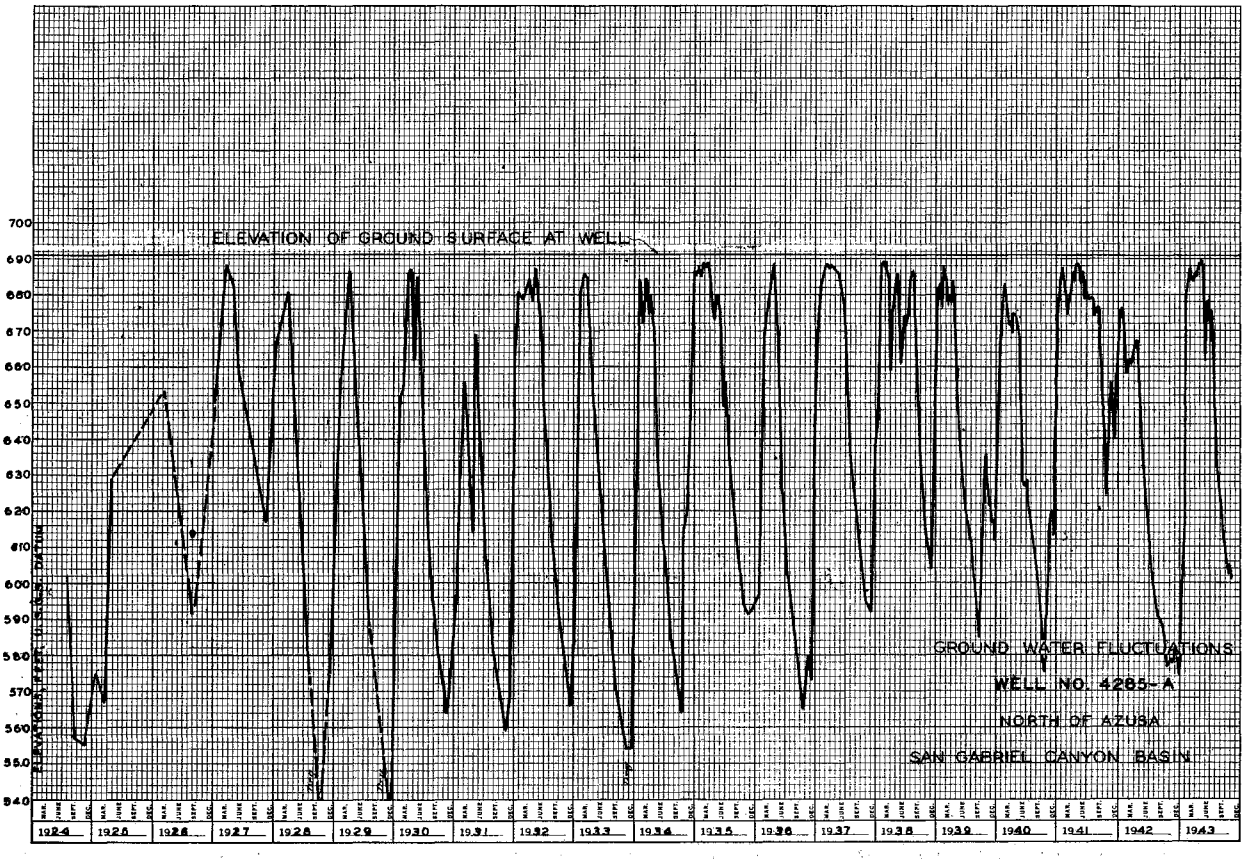

LEGEND
KEY WELLS
KEY WELLS WITH AUTOMATIC RECORDERS
KEY WELLS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
KEY WELLS WITH AUTOMATIC RECORDERS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
SPECIAL WELLS WITH AUTOMATIC RECORDERS
GROUND WATER BARRIERS
GROUND WATER BASINS (SHADOW NO'S.)
1 MONK HILL
2 RAYMOND
3 MAIN SAN GABRIEL
4 UPPER SAN GABRIEL CANYON
5 LOWER SAN GABRIEL CANYON
6 GLENDORA
7 WAY HILL
8 SAN DIMAS
9 FOOTHILL
10 LIVE OAK
11 LOWER CLAREMONT HEIGHTS
12 UPPER CLAREMONT HEIGHTS
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
SPREADING AREAS
1 PACOIMA SPREADING GROUNDS.
2 BIG TUJUNGA WASH CHANNEL.
3 EATON WASH CHANNEL.
4 SANTA ANITA WASH CHANNEL.
5 SAWPIT WASH CHANNEL.
6 SAN GABRIEL RIVER WATER COMMITTEE SPREADING GROUNDS.
(A) WEST SIDE CANYON BASIN.
(B) EAST SIDE CANYON BASIN.
(C) MAIN BASIN BRUSH LAND.
(D) WASH CHANNELS FED BY COVINA & AZUSA CANALS
7 RIO HONDO AND SAN GABRIEL RIVER CHANNELS IN MAIN BASIN.
8 RIO HONDO COASTAL BASIN SPREADING GROUNDS.
9 SAN GABRIEL COASTAL BASIN SPREADING GROUNDS.
10 RIO HONDO AND SAN GABRIEL RIVER CHANNELS IN COASTAL BASIN.
11 BIG DALTON SPREADING GROUNDS.
12 LITTLE DALTON SPREADING GROUNDS.
13 THOMPSON CREEK SPREADING GROUNDS.
14 SAN ANTONIO SPREADING GROUNDS.
15 SAN DIMAS WASH CHANNEL.
16 LIVE OAK CREEK CHANNEL.
17 PACOIMA WASH CHANNEL.
18 LOS ANGELES CITY SPREADING GROUNDS.
19 SANTA FE DAM PERCOLATING AREA.
SCALE
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MAP SHOWING LOCATION OF KEY WELLS GROUND WATER BASINS AND SPREADING GROUNDS
APPROVED BY
ACTING CHIEF ENGINEER
SUBMITTED BY Finley B. Laverty CHIEF-HYDRAULIC DIVISION
RECOMMENDED BY ASST. CHIEF ENGINEER
DATE JUNE 1942
REVISED SEPT. 30, 1943
PREPARED BY E. J. KOCH JR.
DRAWN BY CHAS. C ANDREN
CHECKED BY L.W. JORDAN
MAP V

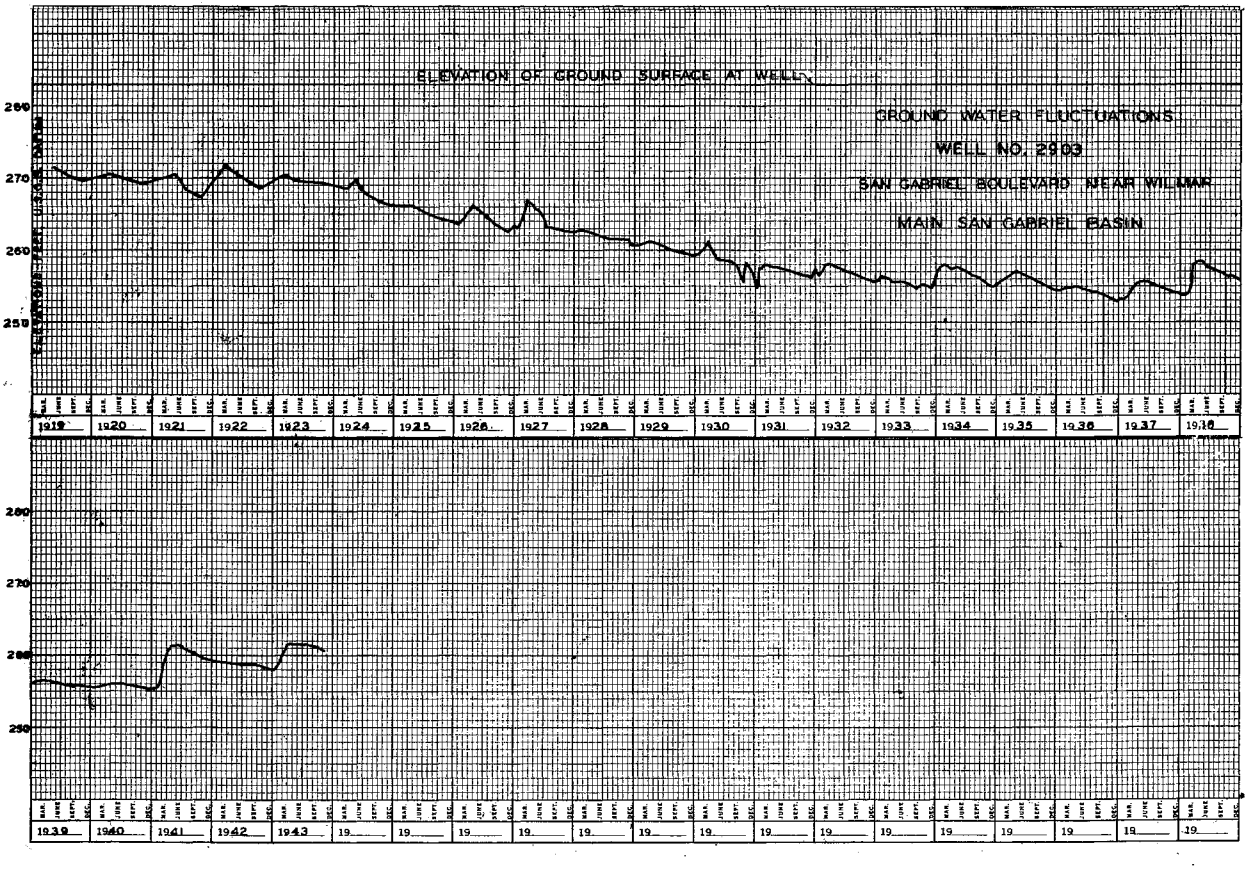

GROUND WATER FLUCTUATIONS
WELL NOS. 3864 & 3855
BURBANK
SAN FERNANDO VALLEY
ELEVATION IN FEET, U.S.G.S. DATUM
ELEVATION OF GROUND SURFACE AT WELL NO. 3864 = 544.0
EL. GRD. SURF. AT WELL 3855 = 546.0
WELL NO. 3864
WELL NO. 3855
550
540
530
520
510
1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943

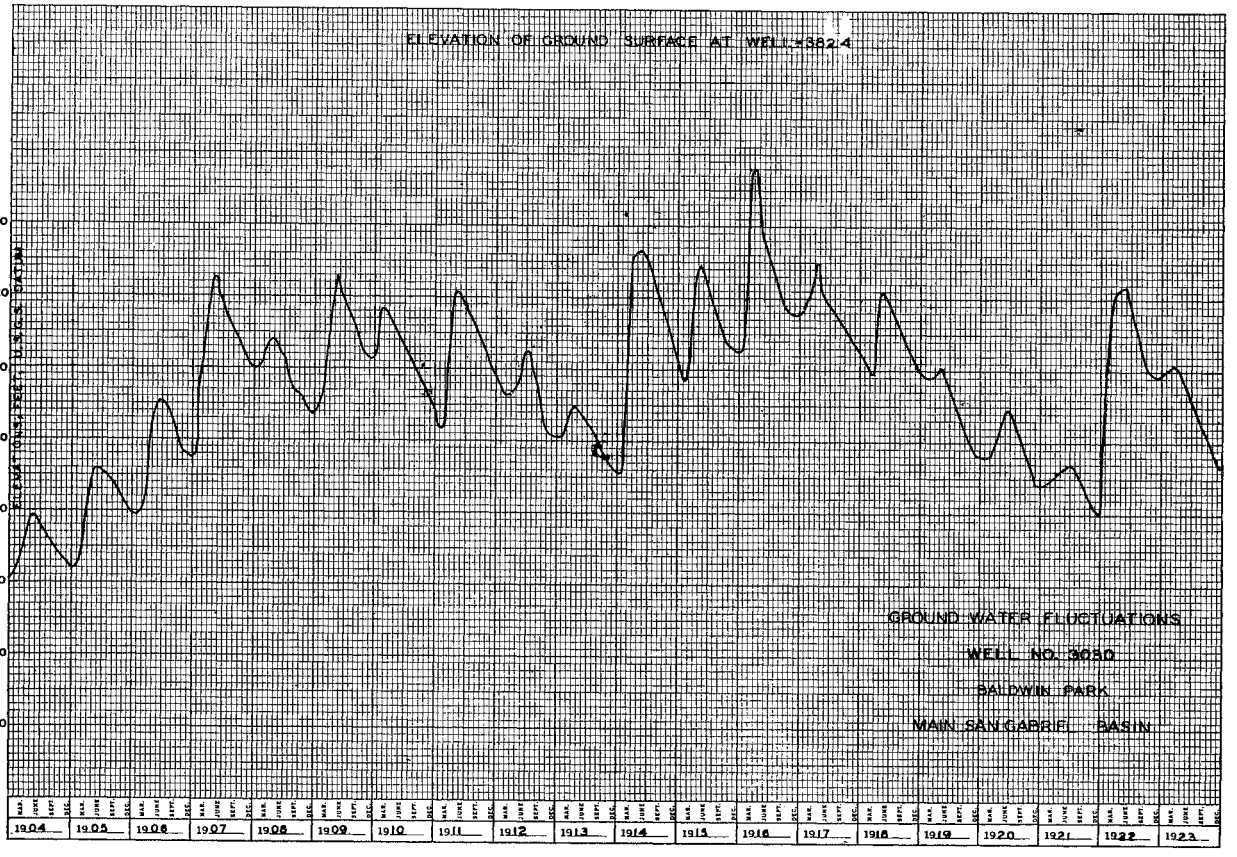

GROUND WATER FLUCTUATIONS
WELL NO. 4799
BRANT RANCH, CANOGA PARK
SAN FERNANDO VALLEY
ELEVATION IN FEET, U.S.G.S. DATUM
ELEVATION OF GROUND SURFACE AT WELL 7890
ELEVATION OF GROUND SURFACE AT WELL 4799
790
780
770
760
750
1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938
1939 1940 1941 1942 1943

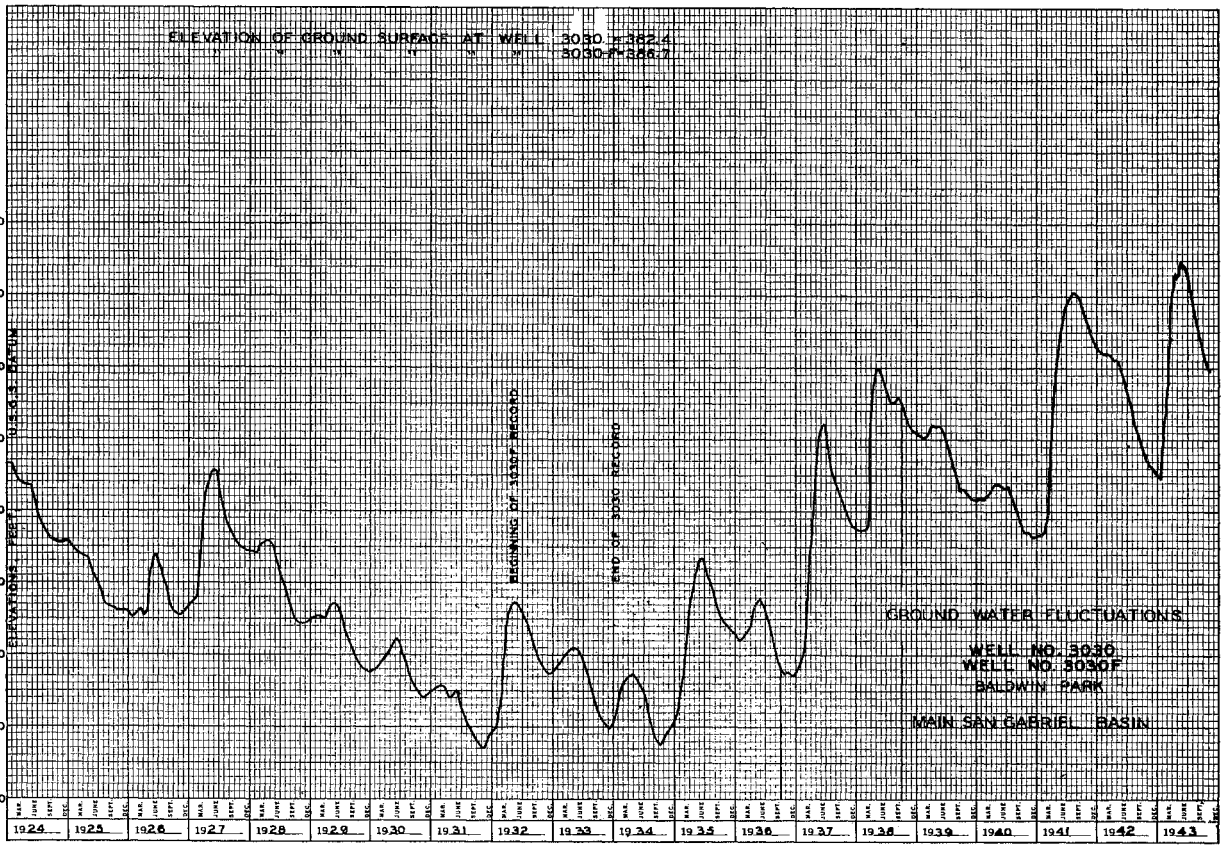

ELEVATION OF GROUND SURFACE AT WELL 4057-F = 762.8
720
710
700
690
680
670
660
650
640
ELEVATION IN FEET U.S.G.S. DATUM
GROUND WATER FLUCTUATIONS
WELL NO. 4057-F
RAYMOND BASIN
MAR. JUNE SEPT. DEC.
19 19 19 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928

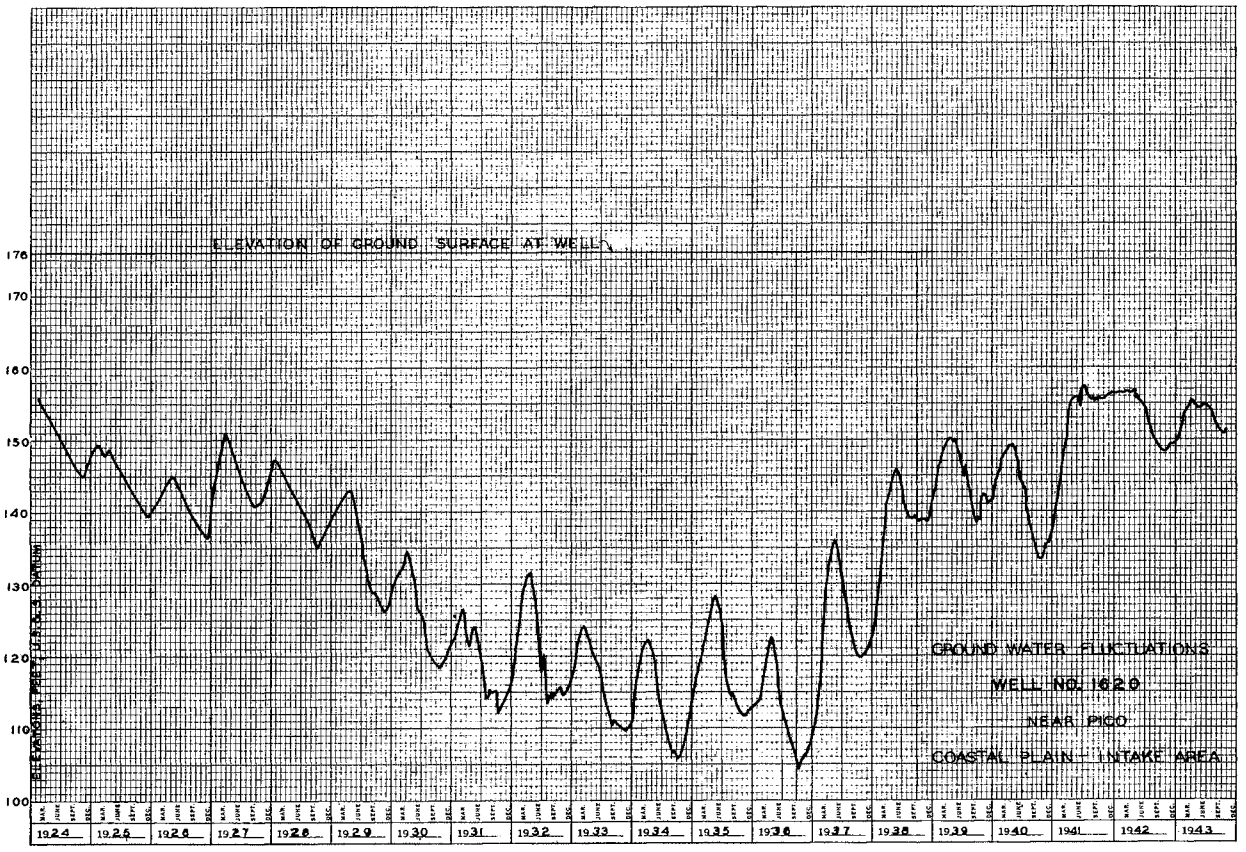

ELEVATION OF GROUND SURFACE AT WELL 4057-F = 762.8
" " " " " 4057-H = 749.9
650
640
630
620
610
600
590
580
ELEVATION IN FEET U.S.G.S. DATUM
END OF RECORD WELL FILLED ADJACENT WELL NO. 4057-H
GROUND WATER FLUCTUATIONS
WELLS NOS. 4057-F & 4057-H
RAYMOND BASIN
MAR. JUNE SEPT. DEC.
1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 19 19 19 19 19

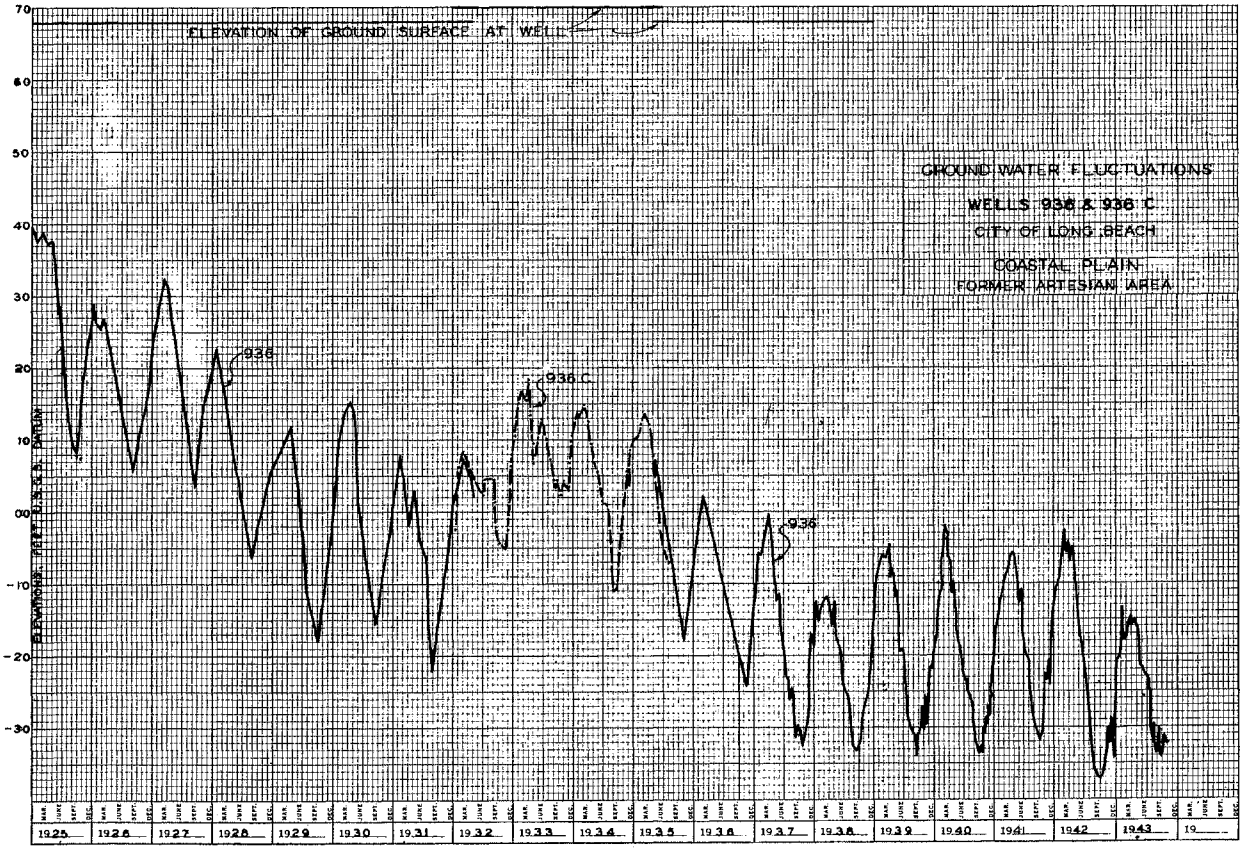

ELEVATION OF GROUND SURFACE AT WELL
ELEVATION, FEET ABOVE SEA LEVEL DATUM
700
690
680
670
660
650
640
630
620
610
600
590
580
570
560
550
540
GROUND WATER FLUCTUATIONS
WELL NO. 4285-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN
1924
1926
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943

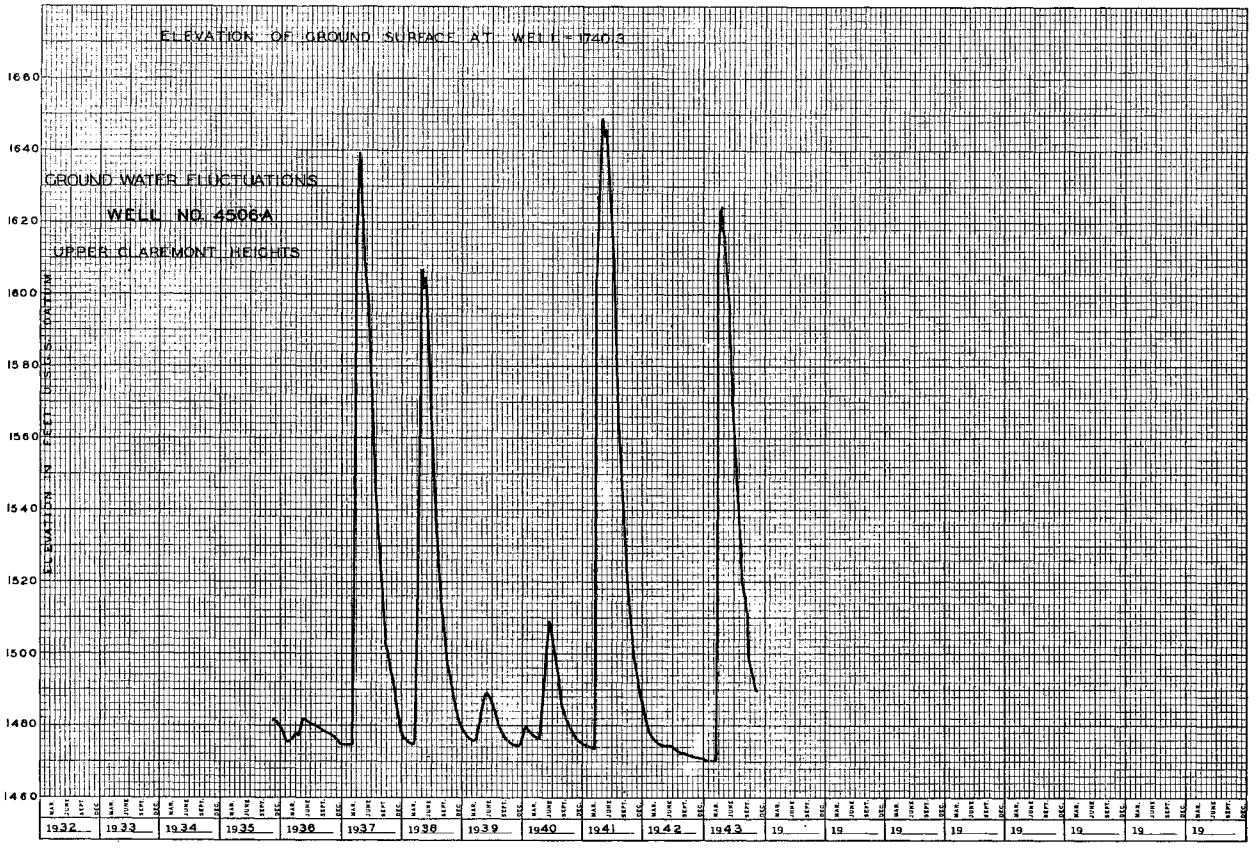

ELEVATION OF GROUND SURFACE AT WELL
ELEVATION, FEET ABOVE SEA LEVEL DATUM
GROUND WATER FLUCTUATIONS
WELL NO. 2903
SAN GABRIEL BOULEVARD NEAR WILLMAN
MAIN SAN GABRIEL BASIN
280
270
260
250
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
280
270
260
250
1939
1940
1941
1942
1943
19
19
19
19
19
19
19
19
19
19
19
19
19
19
19

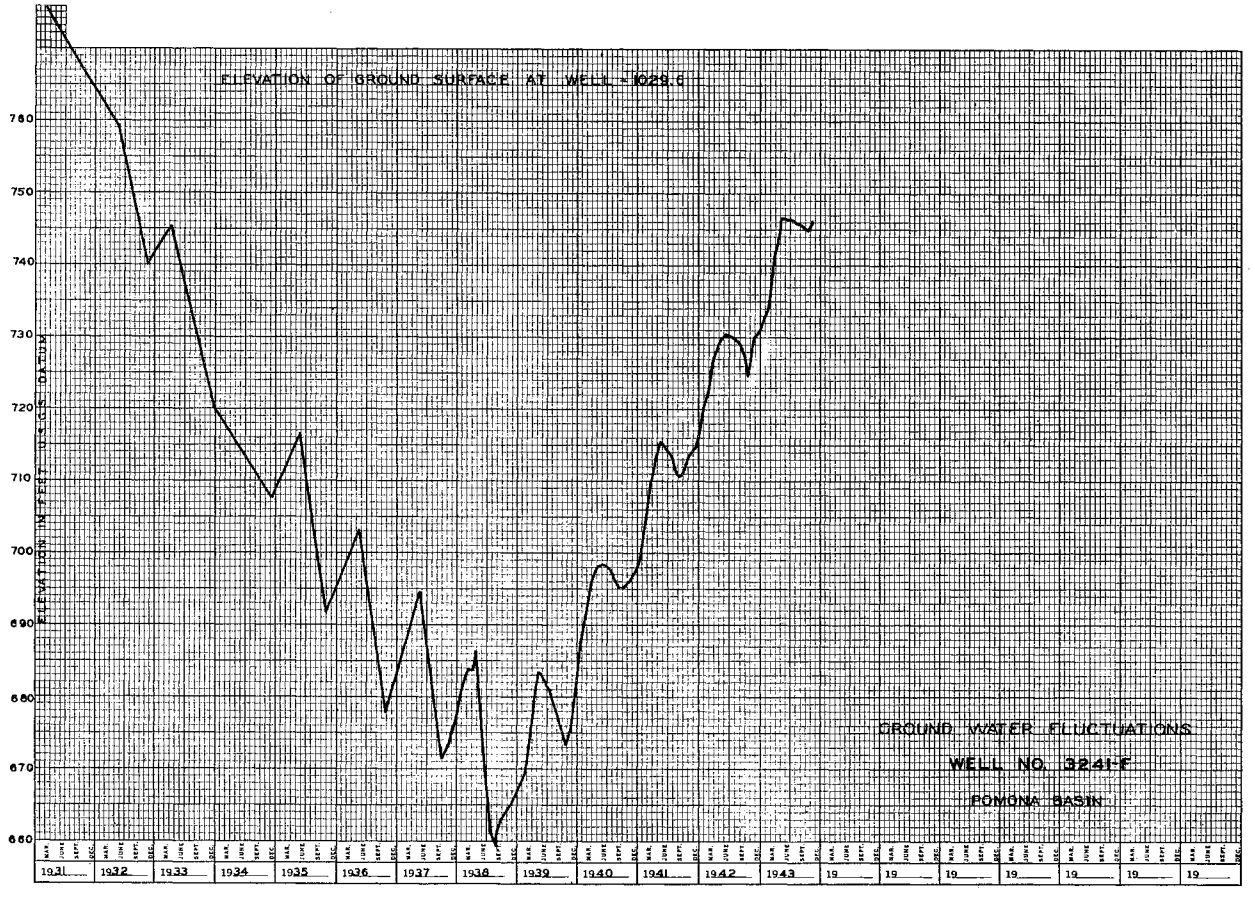

ELEVATION OF GROUND SURFACE AT WELL = 382.4
ELEVATIONS, FEET, U.S.G.S. DATUM
330
320
310
300
290
280
270
260
GROUND WATER FLUCTUATIONS
WELL NO. 3030
BALDWIN PARK
MAIN SAN GABRIEL BASIN
1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923

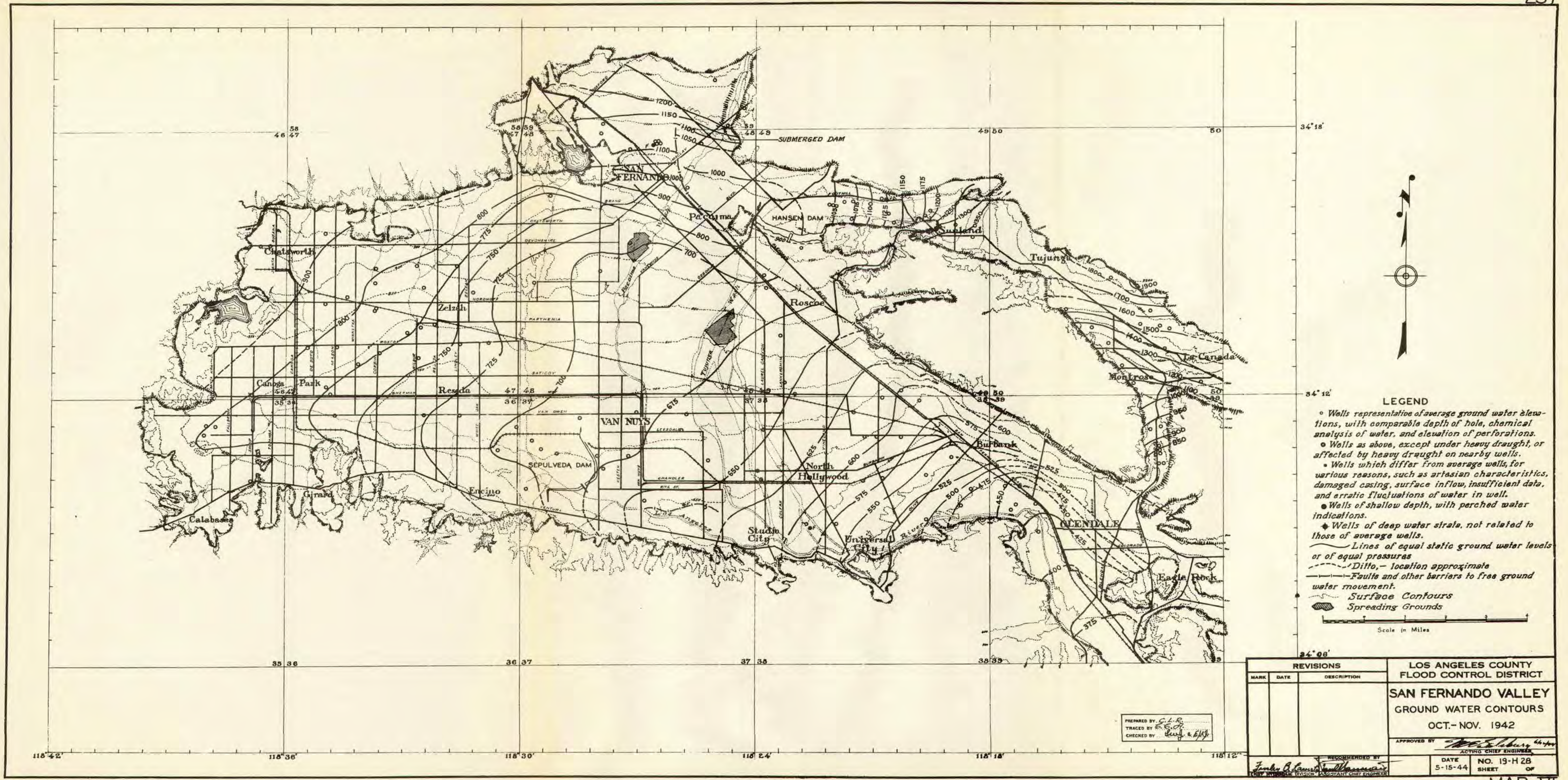

ELEVATION OF GROUND SURFACE AT WELL 3030 = 382.4
3030-F = 386.7
ELEVATIONS, FEET, U.S.G.S. DATUM
330
320
310
300
290
280
270
260
250
BEGINNING OF 3030F RECORD
END OF 3030 RECORD
GROUND WATER FLUCTUATIONS
WELL NO. 3030
WELL NO. 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943


ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS, FEET U.S.C.&G.S. DATUM
GROUND WATER FLUCTUATIONS
WELL NO. 1620
NEAR PICO
COASTAL PLAIN - INTAKE AREA
1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943

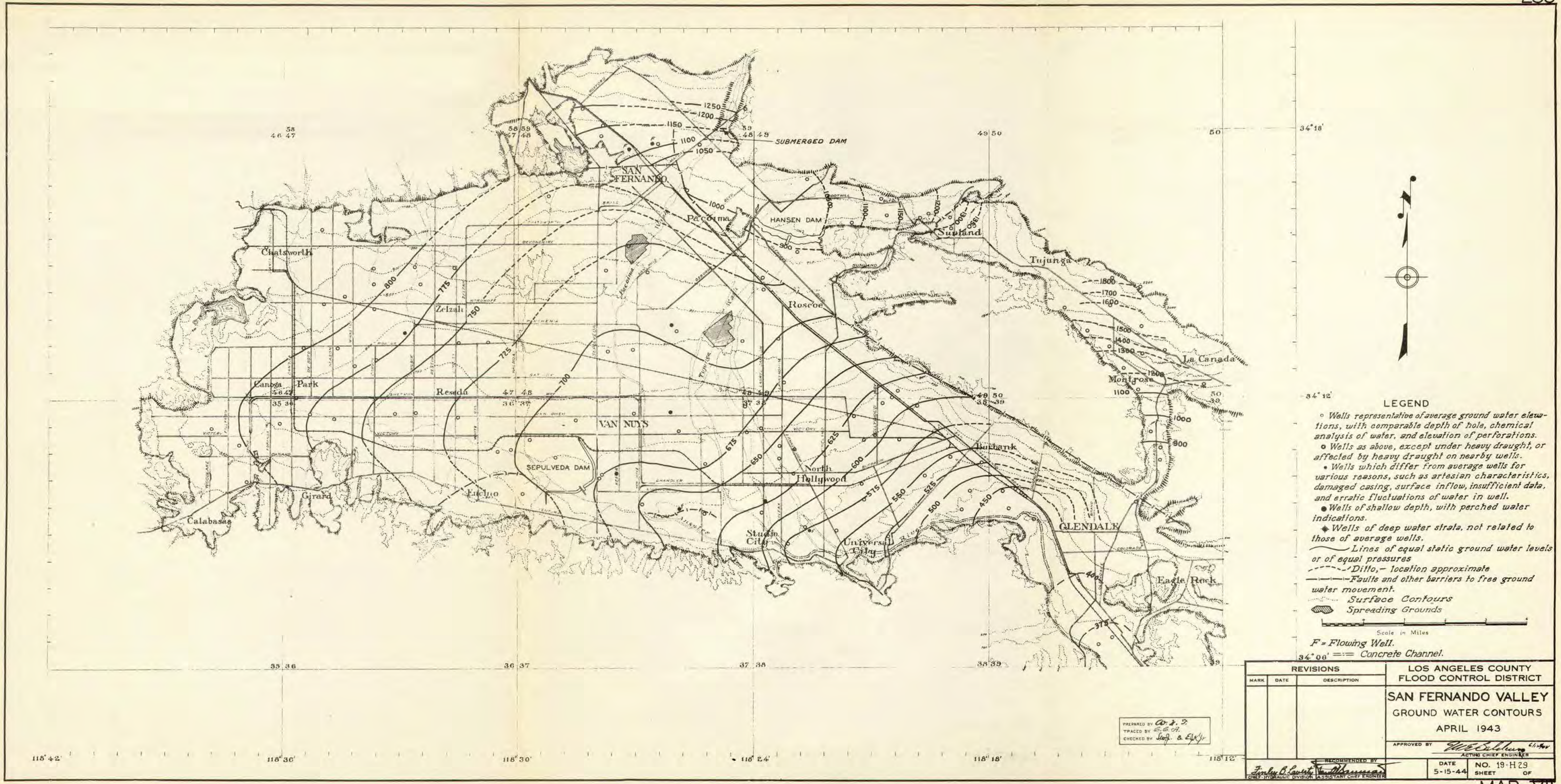

ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS, FEET U.S.C.&G.S. DATUM
GROUND WATER FLUCTUATIONS
WELLS 936 & 936-C
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
936
936-C
936
1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943


ELEVATION OF GROUND SURFACE AT WELL = 1740.3
GROUND WATER FLUCTUATIONS
WELL NO. 4506A
UPPER CLAREMONT HEIGHTS
ELEVATION IN FEET USGS DATUM
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943


ELEVATION OF GROUND SURFACE AT WELL = 1029.6
ELEVATION IN FEET USGS DATUM
760
750
740
730
720
710
700
690
680
670
660
GROUND WATER FLUCTUATIONS
WELL NO. 3241-F
POMONA BASIN
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943



SUBMERGED DAM
SAN FERNANDO
Pacoima
HANSEN DAM
Sunland
Tujunga
Chatsworth
Zelzah
Roscoe
La Canada
Montrose
Canoga Park
Reseda
VAN NUYS
Burbank
SEPULVEDA DAM
North Hollywood
Encino
Girard
Calabasas
GLENDALE
Studio City
Universal City
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
Spreading Grounds
Scale in Miles
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY
GROUND WATER CONTOURS
OCT.– NOV. 1942
APPROVED BY
ACTING CHIEF ENGINEER
RECOMMENDED BY
ASSISTANT CHIEF ENGINEER
DATE 5-15-44
NO. 19-H 28
SHEET OF
PREPARED BY
TRACED BY
CHECKED BY


SUBMERGED DAM
SAN FERNANDO
Pacoima
HANSEN DAM
Sunland
Tujunga
La Canada
Montrose
Chatsworth
Zelzah
Roscoe
Canoga Park
Reseda
VAN NUYS
SEPULVEDA DAM
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Girard
Calabasas
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Universal City
GLENDALE
Eagle Rock
LEGEND
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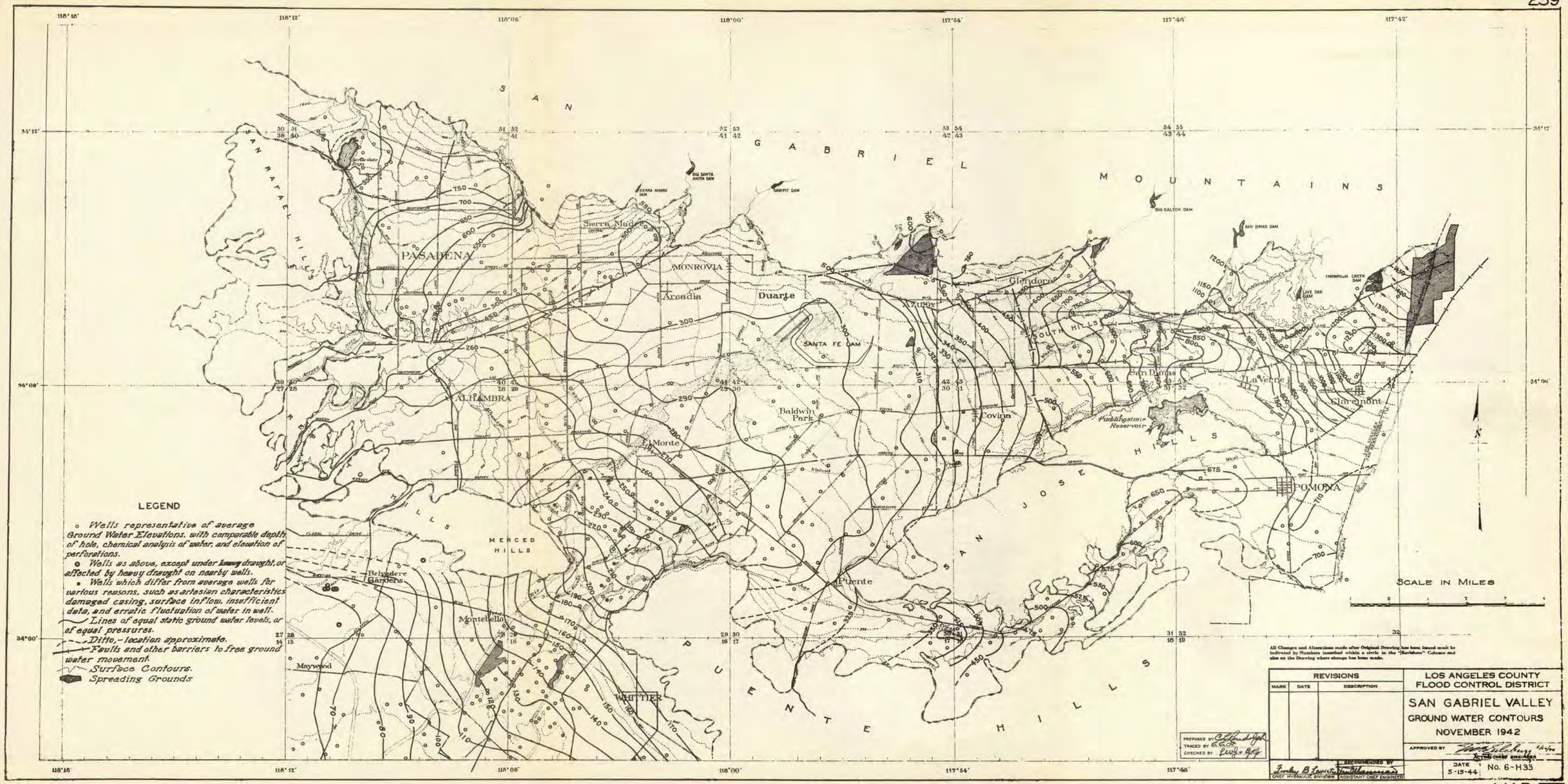
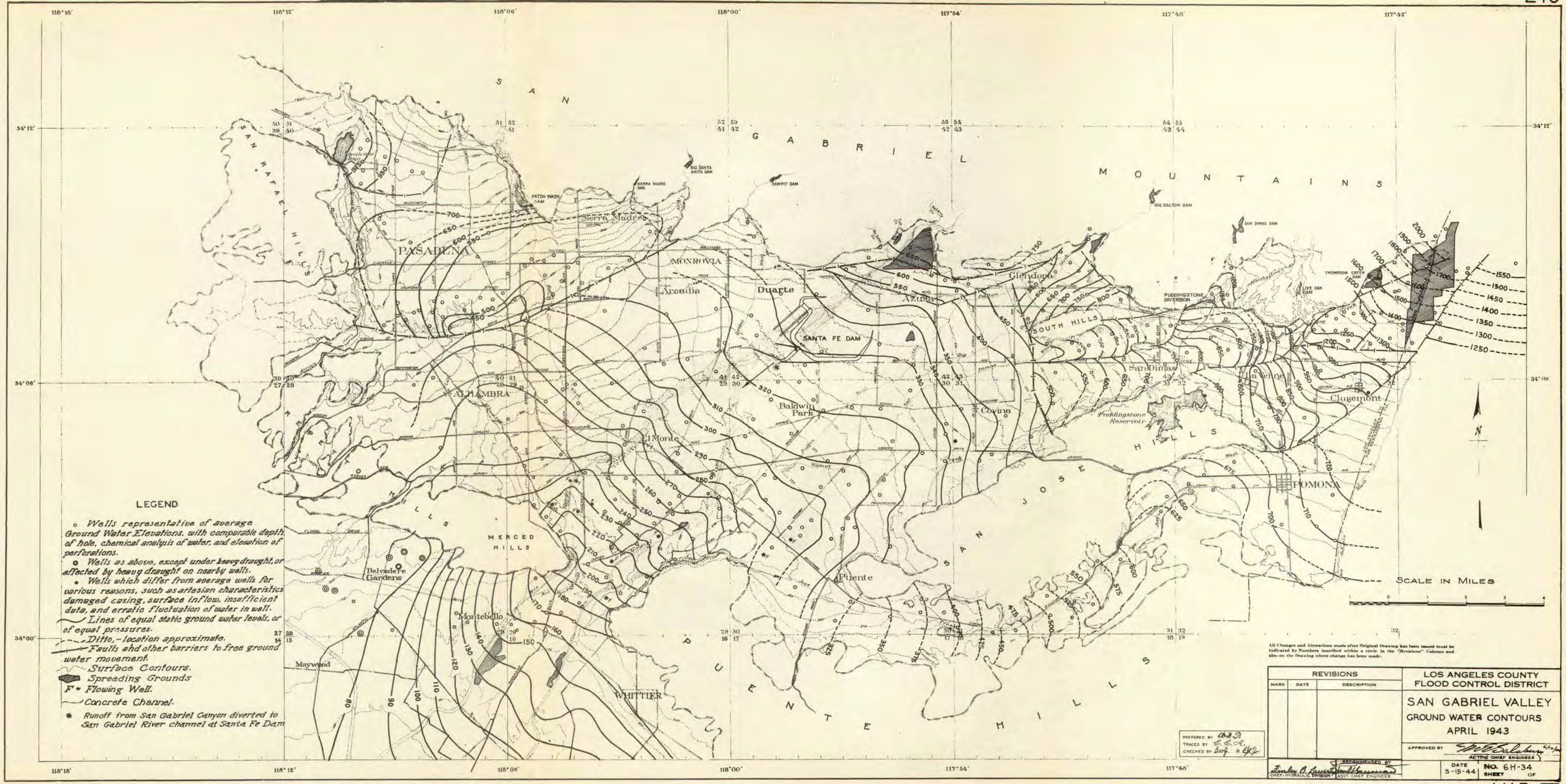
Wells of shallow depth, with perched water indications.
Wells of deep water strata, not related to those of average wells.
Lines of equal static ground water levels or of equal pressures
Ditto,– location approximate
Faults and other barriers to free ground water movement.
Surface Contours
Spreading Grounds
Scale in Miles
F = Flowing Well.
== Concrete Channel.
REVISIONS
MARK DATE DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY
GROUND WATER CONTOURS
APRIL 1943
APPROVED BY
ACTING CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC DIVISION
ASSISTANT CHIEF ENGINEER
PREPARED BY
TRACED BY
CHECKED BY
DATE 5-15-44
NO. 19-H29
SHEET OF
118° 42'
118° 36'
118° 30'
118° 24'
118° 18'
118° 12'
34° 18'
34° 12'
34° 06'


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
PASADENA
Sierra Madre
MONROVIA
Arcadia
Duarte
SANTA FE DAM
ALHAMBRA
Baldwin Park
Monte
Glendora
San Dimas
La Verne
Claremont
Covina
POMONA
SOUTH HILLS
SAN JOSE HILLS
MERCED HILLS
Belvedere Gardens
Montebello
Maywood
Puente
WHITTIER
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.
Spreading Grounds
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
NOVEMBER 1942
PREPARED BY
TRACED BY
CHECKED BY
APPROVED BY
ACTING CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC DIVISION
ASSISTANT CHIEF ENGINEER
DATE
5-15-44
No. 6-H33

MAP VIII


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
SAN JOSE HILLS
PUENTE HILLS
MERCED HILLS
PASADENA
Sierra Madre
MONROVIA
Arcadia
Duarte
Azusa
Glendora
SOUTH HILLS
San Dimas
La Verne
Claremont
POMONA
Covina
Baldwin Park
El Monte
ALHAMBRA
Puente
Belvedere Gardens
Montebello
Maywood
WHITTIER
SANTA FE DAM
BIG SANTA ANITA DAM
SIERRA MADRE DAM
EATON WASH DAM
SAWPIT DAM
BIG DALTON DAM
SAN DIMAS DAM
PUDDINGSTONE DIVERSION
Puddingstone Reservoir
LIVE OAK DAM
THOMPSON CREEK DAM
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.
Spreading Grounds
F = Flowing Well.
Concrete Channel.
Runoff from San Gabriel Canyon diverted to San Gabriel River channel at Santa Fe Dam
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 1943
PREPARED BY
TRACED BY
CHECKED BY
APPROVED BY
ACTING CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC DIVISION
ASST. CHIEF ENGINEER
DATE 5-15-44
NO. 6H-34
SHEET
OF

MAP IX


SANTA MONICA MOUNTAINS
LOS ANGELES
PUENTE HILLS
BALDWIN HILLS
DOMINGUEZ HILLS
SAN PEDRO HILLS
ORANGE COUNTY
SAN PEDRO BAY
LONG BEACH
Beverly Hills
Sawtelle
Santa Monica
Palms
Culver City
Venice
Inglewood
El Segundo
Hawthorne
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Gardena
Harbor City
Wilmington
San Pedro
Vernon
Huntington Park
Maywood
South Gate
Watts
Lynwood
Athens
Compton
Clearwater
Hynes
Bellflower
Artesia
Virginia City
Norwalk
Downey
Santa Fe Springs
Whittier
Montebello
Belvedere Gardens
Alhambra
El Monte
LEGEND
Wells representative of average Ground Water Elevations with comparable depth of hole, chemical analysis of water, and elevation of perforations.
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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
F=Flowing Well.
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
NOVEMBER 1942
APPROVED BY
ACTING CHIEF ENGINEER
RECOMMENDED BY
CHIEF-HYDRAULIC DIVISION
ASSISTANT CHIEF ENGINEER
DATE 5-15-44
NO. 2-H64
SHEET OF

MAP X


SANTA MONICA MOUNTAINS
LOS ANGELES
PUENTE HILLS
BALDWIN HILLS
DOMINGUEZ HILLS
SAN PEDRO HILLS
ORANGE COUNTY
SAN PEDRO BAY
SIGNAL HILL
Beverly Hills
Sawtelle
SANTA MONICA
Palms
Culver City
Venice
INGLEWOOD
El Segundo
Hawthorne
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Gardena
Harbor City
Wilmington
SAN PEDRO
LONG BEACH
Vernon
HUNTINGTON PARK
Maywood
South Gate
WATTS
Athens
Lynwood
COMPTON
Virginia City
Clearwater
Hynes
Bellflower
Artesia
Norwalk
Downey
Santa Fe Springs
WHITTIER
Montebello
Belvedere Gardens
ALHAMBRA
El Monte
LEGEND
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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
F-Flowing Well.
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
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DATE
DESCRIPTION
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
APRIL 1943
APPROVED BY
ACTING CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC DIVISION
ASSISTANT CHIEF ENGINEER
PREPARED BY
TRACED BY
CHECKED BY
DATE 5-15-44
NO. 2-H65
SHEET OF
118°36'
118°24'
118°18'
118°12'
118°06'
118°00'
34°06'
34°00'
33°54'
33°48'