Los Angeles County Flood Control District

HYDRAULIC DIVISION

REPORT TO H. E. HEDGER, CHIEF ENGINEER

ANNUAL REPORT

ON

HYDROLOGIC DATA

SEASON 1943-44

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

June 1, 1946

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

LOS ANGELES 14, CALIFORNIA

H. E. HEDGER
CHIEF ENGINEER

751 S. FIGUEROA ST.
ROOM 410

June 1, 1946

FILE NO. 2-20
SUBJECT Annual Report on Hydrologic Data Season of 1943-44

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 1943-44. This report is the fourteenth of a series of annual or biennial reports which have been published covering seventeen 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 ever 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

June 1, 1946

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 1943-44. 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 433 stations of which 95% furnished complete seasonal records. Of these stations, 230 have a continuous record for fifteen years or longer, and 14 stations have a continuous record for over fifty years.

Intensity records were obtained from 69 recording rain gages. Comparative intensities of rainfall for periods varying from five 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 1943-44 was 132% of normal for the County. The only large storm of the season occurred during the period February 19-23. Recorded precipitation for this storm varied from a maximum of 21.07 inches at Camp Singer in the West Fork of San Gabriel Canyon to a minimum of 3.77 inches at Yato Kya Indian Museum in Antelope Valley. This storm was characterized by unusually heavy snowfall at the higher elevations in the mountain areas. Maximum snowfall recorded was at Cedar Springs in the San Gabriel Mountains and amounted to 150 inches for the storm.

Seasonal rainfall distribution throughout the County is shown by the following relation to the 72-year normal indices for four areas of the County:

		% Normal
1.	San Gabriel Mt. Area	122
2.	Valley and Coastal Plain	124
3.	Santa Monica Mts.	138
4.	Desert Area	164

Seasonal amounts of snowfall for five mountain locations are also included in this report. The depths of snowfall ranged from 99 to 369 inches at the various locations.

Evaporation records were received from 22 stations each month. The total seasonal evaporation recorded at the various stations averaged approximately 90% of normal. Amounts varied from a maximum of 86.95 inches at Pine Canyon Patrol Station in the vicinity of Elizabeth Lake to a minimum of 36.25 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 during 1943-44 operated 67 recording streamflow stations located on the main streams and tributary channels. Twenty-three of these stations are in the Los Angeles River drainage area, 20 are in the San Gabriel River drainage area, and 16 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 above normal throughout the District. Peak flows occurred during the storm of February 19-23 at most of the District's gaging stations. Runoff from this storm was not excessive except in the Santa Clara River drainage area, where a heavy snowfall followed by heavy rains and warm winds caused peak flows approximating those experienced in March of 1938.

Dam operation data included in this report show daily reservoir water surface elevation, storage, and amount of inflow and outflow for 14 dams operated by the District. These dams control 407 square miles of mountain drainage with a total controlled storage of 87,635 acre feet.

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

Reclamation of storage capacity in District reservoirs and debris basins during 1943-44, obtained by sluicing and excavation operations, amounted to 1067 acre feet.

Conservation and ground water data continued as an important phase of the work of the District, due to the increased draft upon various underground basins resulting from the demands 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 1200 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.

The investigation of the intrusion of sea water into the West Coastal Basin was continued during 1943-44. This is being carried on by the United States Geological Survey with whom the District and several municipalities are cooperating. A similar study was also continued during the year in the South Coastal Basin by the United States Geological Survey in cooperation with the City of Long Beach Water Department and the Orange County Flood Control and Water Districts. The purpose of these investigations is to determine how best to retard the intrusion of sea water and possibly repel it.

Conservation of water by absorption in various stream channels amounted to 203,039 acre feet during the season. Conservation of 59,587 acre feet of water was effected by off-channel spreading grounds. A total of 334,660 acre feet of runoff wasted into 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 was 57% of the maximum recorded waste of record which occurred during 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,

Walter J. Wood

Walter J. Wood, Acting 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	Page
F81D-R	ALHAMBRA WASH	near Short Street	31
F152R	ALISO WASH	at Nordhoff Street	32
U1R	ARROYO SECO	above Mouth of Canyon	34
P277R	ARROYO SECO	below Devils Gate Dam	35

GAGING STATION RECORDS (Cont'd.)

F.C. No.	Station	Location	Page
F38B-R	BALLONA CREEK	at Sawtelle Boulevard	37
F120R	BIG DALTON CREEK	below Big Dalton Dam	39
U9R	BIG DALTON CREEK	near Mouth of Canyon	40
F274R	DALTON WASH	at Merced Avenue	42
F111B-R	BIG TUJUNGA CREEK	above Edison Road	43
F168R	BIG TUJUNGA CREEK	below Big Tujunga Dam No. 1	45
F213R	BIG TUJUNGA CREEK	above Gold Canyon	47
F20B-R	TUJUNGA WASH	at Glen Oaks Boulevard	49
F105R	TUJUNGA WASH	at Magnolia Boulevard	51
F106R	TUJUNGA WASH - CENTRAL BRANCH	at Magnolia Boulevard	52
F270R	CALABASAS CREEK	at Ventura Boulevard	54
F37B-R	COMPTON CREEK	near Greenleaf Drive	55
F41C-R	COYOTE CREEK	at Del Amo Street	57
F265R	DOMINGUEZ CHANNEL	at Carson Boulevard	58
F53R	DUME CREEK	at Roosevelt Highway	60
U2R	EATON CREEK	above Mouth of Canyon	61
F271R	EATON WASH	below Eaton Wash Dam	62
F104R	EATON WASH	at Ellis Lane	63
U7R	FISH CREEK	above Mouth of Canyon	65
U12R	HAINES CREEK	above Mouth of Canyon	66
F149R	LIMEKILN WASH	at Devonshire Avenue	68
F65B-R	LITTLE DALTON CREEK	above Mouth of Canyon	69
L1R	LITTLE ROCK CREEK	above Little Rock Dam	71
U3R	LITTLE SANTA ANITA CREEK	above Sierra Madre Dam	73
F67B-R	LITTLE SANTA ANITA CREEK	below Sierra Madre Dam	74
F267R	LITTLE SANTA ANITA CREEK	at Woodland Avenue	75
F19R	LITTLE TUJUNGA WASH	at Foothill Boulevard	76
F31R	LIVE OAK CREEK	near Mouth of Canyon	78
F5B-R	LOS ANGELES RIVER	below Sepulveda Boulevard	79
F266R	LOS ANGELES RIVER	at Mariposa Street	81
F57C-R	LOS ANGELES RIVER	above Arroyo Seco	83
F34B-R	LOS ANGELES RIVER	at Firestone Boulevard	86
F180R	LOS ANGELES RIVER	at Pacific Coast Highway	88
F130R	MALIBU CREEK	at Crater Camp	90
F22R	MONROVIA CREEK	above Sawpit Creek	92
F195R	MONROVIA STORM DRAIN	at Peck Road	94
F181R	MONTEBELLO STORM DRAIN	above Rio Hondo	95
F118B-R	PACOIMA CREEK	below Pacoima Dam	97
F16R	PACOIMA WASH	at Parthenia Street	99
F40R	PUDDINGSTONE CREEK	below Puddingstone Dam	100
F280R	RIO HONDO DIVERSION	below Santa Fe Dam	102
F192R	RIO HONDO	at Lower Azusa Road	103
F64R	RIO HONDO	above Mission Bridge	105
F45R	RIO HONDO	at Stewart and Gray Road	107
F83R	RIO HONDO SLOUGH	at San Gabriel Boulevard	109
U14R	ROCK CREEK	above Mouth of Canyon	110
U6R	ROGERS CREEK	above Mouth of Canyon	111
F82C-R	RUBIO WASH	at Glendon Way	113
U15R	SAN ANTONIO CREEK	below Edison Company Power Plant	114

GAGING STATION RECORDS (Cont'd.)

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F151R	SAN ANTONIO CREEK	at Mouth of Canyon	116
U10R	SAN DIMAS CREEK	at Mouth of Canyon	118
F209R	SAN GABRIEL RIVER - WEST FORK	below San Gabriel Dam No. 2.	120
P3R	SAN GABRIEL RIVER - WEST FORK	above Forks	122
P4B-R	SAN GABRIEL RIVER - EAST FORK	above Forks	125
F250R	SAN GABRIEL - AZUSA CONDUIT	at Weir below S.G. Dam No. 1	128
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F42R	SAN GABRIEL RIVER	at Spring Street, Long Beach	143
F48R	SAN JOSE CREEK	at Workman Mill Road	145
U4R	SANTA ANITA CREEK	above Santa Anita Dam . . .	147
F260B-R	SANTA ANITA WASH	at Foothill Boulevard . . .	148
F92B-R	SANTA CLARA RIVER	at Highway 99	149
F278R	SAWPIT CREEK	below Sawpit Dam	151
U5R	SAWPIT CREEK	below Monrovia Canyon . . .	153
F185R	SEPULVEDA CREEK	at Charnock Road	154
F43R	SYCAMORE UPPER STORM DRAIN	above Solway Street	156
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F47R	WALNUT CREEK	at Covina Boulevard	164

Staff Gage Data (Arranged Alphabetically)

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F116S	ARROYO DITCH	below headgate	166
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F157S	ARROYO SEQUIT	at Roosevelt Highway	166
F87S	BANTA DITCH	at head of Pipe Line	167
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F.C. No.	Station	Location	Page
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F183S	BIG ROCK CREEK	at Palmdale-Victorville Road	167
F141S	ELIZABETH LAKE CREEK	above Dry Gulch	168
F30S	LITTLE DALTON CREEK	at Lorraine Avenue	168
F100S	MAIN SPREADING CANAL	at Mouth of San Gabriel Cn.	168
F112S	MILL CREEK	above Big Tujunga Creek	168
F196S	PACOIMA CREEK	at Maclay Avenue	168
F197S	PACOIMA CREEK	at Arleta Street, above Spreading Grounds	168
F18S	PACOIMA WASH	at Foothill Boulevard	168
F121S	PALLETTE CREEK	above Big Rock Creek	168
F122S	PALLETTE CREEK	at Big Rock Creek	168
F248S	RIO HONDO	near Arrow Highway	169
F218S	SAN DIMAS WASH	below Puddingstone Diversion Dam	169
F93S	SANTA CLARA RIVER	above Lang R.R. Station	169
F137B-S	SANTA CLARA RIVER	8 miles West of Castaic Junction	169
F247B-S	SAN GABRIEL RIVER	at Arrow Highway	169
F191S	SAN GABRIEL RIVER	at Ramona Boulevard	169
F272S	SANTA MONICA CREEK	above Rustic Canyon	169
F55S	SANTA MONICA CREEK	below Rustic Canyon	170
F125S	SANTIAGO CREEK	above Little Rock Creek	170

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F66B-S	TRI-CITY OUTFALL SEWER	above Rio Hondo	171
	EL MONTE SEWER	near Junction with Rio Hondo	172
	TEMPLE DITCH	above head of pipe line	172
	RINCON DITCH	above head of pipe line	173
F84S	CATE DITCH	below sluice gate	173
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PRECIPITATION RECORDS

PRECIPITATION

FOREWORD

This report is the sixteenth 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 seventh time in the last ten seasons, seasonal precipitation in Los Angeles County was above normal. The County average as a whole was 132% of normal precipitation. The percent of normal varied considerably in various sections of the County. The East San Gabriel Valley area was low with 109% of normal, while the Desert area with 177% of normal was high. See tabulation of Rainfall by Areas on page 8, for a more general picture of the season's rainfall throughout the County.

Only one storm was outstanding, principally because it was the first in order of magnitude and importance for the season. This storm occurred over a 5-day period, February 19 to 23 inclusive, and aside from being the largest storm of the season, in most areas, it produced unusual depths of snow in the mountains.

Precipitation prior to the February storm was only 82% of the accumulated mean rainfall to date at Los Angeles. The deficiency was caused by a very dry January. The lack of precipitation in January overcame the lead gained by the above normal precipitation for the month of December.

At Los Angeles there was only .97 of an inch of rain for the month of January.

Storm of February 19-23, 1944

Precipitation started in Los Angeles at about 3:10PM February 19th, with a shower of rather high intensity but of short duration, followed by a five-hour period of little or no precipitation. Light to moderate precipitation started again about 9PM and continued at a moderate rate through the night to 2:30PM the following afternoon, at which time the accumulated rainfall for the storm was 2⅛ inches. This was followed by a three and one-

half hour period of moderate to moderate-heavy intensities during which time 1.85 inches fell. This was the period of maximum intensity for the storm in Los Angeles and occurred between 2:30PM and 6:00PM, February 20.

Precipitation continued through the next two days with low to moderate intensities, being intermittent at times, to bring the storm total to 7.19 inches at Los Angeles.

In the mountains the occurrence was somewhat different, aside from being greater in amounts and intensity. The period of maximum intensity for the storm in most mountain areas was from the evening of February 21 at about 5PM to 5PM of the following day. During this 24-hour period 13.69 inches fell at Camp Singer (Opid's). This 13.69 inches followed 7.47 inches accumulated during the preceding two days from precipitation of moderate intensities at Camp Singer. The storm total here was 21.07 inches with a maximum depth of snow on the ground of 41 inches on February 22.

At Camp LeRoy (Hoegee's) the period of maximum intensity was from 12:30PM to 4:00PM, February 21 with 1.80 inches for the 3½ hour period. The storm total here was 15.92 inches.

Following are some storm totals which give a picture of the storm in different sections across the County:

Sta. No.	Location	Precipitation	Elevation (M.S.L.)
	Stations from West to East		
381B	Santa Monica	5.49 inches	100 feet
213	West Los Angeles	6.48 "	177 "
577F	Los Angeles-Weather Bureau	7.19 "	548 "
108B	El Monte	7.20 "	301 "
178	Azusa	7.10 "	545 "
92	Pomona	5.29 "	1190 "
	Stations from South to North		
224	Long Beach	6.44 "	80 "
577F	Los Angeles-Weather Bureau	7.19 "	548 "
311B	Pasadena	9.38 "	918 "
338B	Mt. Wilson	15.56 "	5709 "
57B	Camp Singer (Opid's)	21.07 "	4350 "
440B	Chilao	16.50 "	5250 "
351D	Palmdale	6.61 "	2648 "
121	Lancaster	4.55 "	2350 "

Recorded storm precipitation amounts varied from a maximum of 21.07 inches at Camp Singer and 20.51 inches at Crystal Lake to a minimum recorded amount of 3.77 inches at Yato Kya Indian Museum at Piute Butte in the Antelope Valley.

Snowfall for the February 19-23 Storm

Snow depths unusual for a single storm, in this area, were recorded in the higher mountain areas.

Sta. No.	Name	Elevation	Snowfall During Storm	Maximum on Ground During Storm and Date
54	Loomis Ranch	4050	61 inches	48 inches 2/21
83	Big Pines	5860	82 "	105 " 2/24
85	Camp Baldy	4300	42 "	42½ " 2/21
283A	Crystal Lake	5740	99° "	72 " 2/22
338B	Mt. Wilson	5709	61 "	60 " 2/22
402D	Cedar Springs	6800	150 "	125 " 2/22
440	Chilao	5250	°°	72 " 2/23

°Partly Estimated.
°°Not reported.

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 1943-44 433

Following are the number of stations for which the District has records for periods of 15 years or more.

	15 to 49 years	50 years and over
Continuous records	201	11(°)
Broken records	36	
Adjacent to Los Angeles County	15	3
Total	252	14

The District has a better distribution of gages in the valley and foothill areas than in the mountains because a larger

(°) 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.

number of cooperative observers are available. Practically a maximum possible coverage of mountain areas has been attained as far as present available cooperative observers are concerned. Additional locations are desirable when satisfactory automatic reporting equipment is developed for locations which have difficult access. Station locations are shown on Map I, page 20.

An annual inspection trip was made in the fall of 1943 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 rain gages have been located in areas which will furnish the most representative intensity data for flood flow analysis and computations. During the 1943-44 season 28 of these gages were in the mountain area and 26 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
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 is an important addition to that otherwise obtained.

SOURCE AND NUMBER OF RECORDS

The list, which follows, shows the number, type, and ownership of rain gages:

Rain Gage Ownership and Type			Number of Gages 1943-44	Number of Gages Total
(a) Los Angeles County Flood Control District				
Standard	8"		241	
8.81" Non-Recording	8.81"		20	
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-Stevens Type Q-24	24"	Capacity	2	
Automatic-Remote Recording Tipping Bucket			1	318
(b) Outside Agencies and Individuals				
Standard	8"		142	
Various Types - Non-Recording			20	
Automatic-Various Size and Types			15	177
		Total		495
		Less 8" standard with Automatics		-62°
		Total stations from which the District receives records regularly.		433

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.

The following 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 433 stations reporting during the season, 95 percent furnished complete records.

	Season - 1943-44
F. C. Automatic Rain Gage Stations	54
F. C. Non-Recording Rain Gage Stations	197
Private Automatic Rain Gage Stations	15
Private Non-Recording Rain Gage Stations	145
Total	411

Table I, page 6 presents a complete list of the automatic rain gages which were active during the season 1943-44, with the length of active record included.

°Represents number of standard gages at automatic rain gage stations deducted from total number of gages to agree with the number of records published.

TABLE I

ACTIVE AUTOMATIC RAIN GAGES

SEASON 1943-44

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 (1)
15	Van Nuys Warehouse	695	"	9"	L. A. River	8-18-30 to date
22	Bell Canyon - Johnson Ranch	930	"	9"	L. A. River	10-6-38 to 11-19-43
33A'-E	Pacoima Dam	1500	"	9"	Pacoima	9-22-30 to date
46C-E	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 (2)
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 Gage		Big Tujunga	2-14-41 to date
54	Loomis Ranch	4050	Fergusson	9"	Big Tujunga	11-24-31 to date (3)
57B-E	Camp Singer (Opid's Camp)	4350	"	12"	San Gabriel West Fork	12-14-25 to date
60A	Camp LeRoy (Hoegee's Camp)	2750	"	12"	Big Santa Anita	11-11-26 to 10-13-39
70	Dalton #1	800	"	9"	San Gabriel	9-27-40 to date
83	Big Pines Recreation Park	6860	"	9"	Desert	12-4-26 to date
85D	Camp Baldy Guard Station	4300	"	12"	San Antonio	12-17-25 to date
92	Claremont - Pomona College	1190	"	9"	San Antonio	11-11-27 to date
108B	El Monte	301	"	9"	Rio Hondo	12-2-27 to date
150	Monrovia Falls	1800	"	9"	Sawpit	10-11-38 to date
150	Monrovia Falls	1800	"	12"	Sawpit	2-4-28 to 10-5-38
158	Tanbark Flats	2700	"	12"	San Dimas	10-5-38 to date
158	Tanbark Flats	2700	Friez Tipping Bucket	(Private)	San Dimas	1-16-29 to 7-7-39
178	Azusa - Griffith	545	Fergusson	9"	San Gabriel	7-7-39 to date
179B	Sierra Madre - Carter	1125±	"	9"	Rio Hondo	1-1-31 to date
201	Puente Hills	860	"	9"	San Jose Creek	6-24-41 to date
210B	Brand Park	1250	"	9"	L. A. River	12-19-40 to date
210B	Brand Park	1250	Stevens - Q-12	12"	L. A. River	12-27-28 to 12-18-40
213	Hancock Park	177	Fergusson	9"	Ballona	12-18-40 to date
213	Hancock Park	177	Stevens - Q-12	12"	Ballona	1-13-29 to 11-19-42
228B	Beverly Hills	255	Fergusson	9" (Private)	Ballona	11-19-42 to date
235B	Henninger Flats	2550	"	9"	Eaton Canyon	10-14-31 to date
257	Griffith Park Nursery	750	"	9"	Ballona	12-30-29 to date
259B	Chatsworth Patrol Station	1254	"	9"	L. A. River	9-19-30 to date
261E	Acton	3075	"	9"	Santa Clara	8-17-37 to date
268E	Torrance	57	Stevens - Q-12	12"	Laguna-Dominguez	11-27-30 to date
269B	Diamond Bar Ranch - Horse Camp	760	Friez	12" (Private)	Brea Canyon	3-19-40 to date
280B	Flintridge Fire Station	1325	Fergueson	9"	Arroyo Seco	12-3-41 to date
283a	Crystal Lake - East Fine Flats	5740	"	12"	San Gabriel North Fork	7-26-30 to date
291	Los Angeles - 96th and Central Sts.	121	"	12" (Private)	L. A. River	11-26-35 to date
303B	Pasadena - Cal Tech.	763	"	9"	Alhambra Wash	10-6-30 to date
311B	Pasadena - Meteorological Station	918	Friez Tipping Bucket	(Private)	Arroyo Seco	12-13-30 to date
334E	San Gabriel Dam #2	2335	Fergusson	9"	San Gabriel West Fork	10-1-38 to date (4)
334E	San Gabriel Dam #2	2335	"	12"	San Gabriel West Fork	1-14-32 to 12-15-43
338B	Mt. Wilson - Airways Station	5709	"	12"	Various	12-15-43 to date
348C	San Gabriel E. Fork - Honor Camp #4	2000	"	12"	San Gabriel East Fork	3-24-41 to date (5)
348C	San Gabriel E. Fork - Honor Camp #4	2000	"	9"	San Gabriel East Fork	5-11-38 to 6-4-40
352	Lechuza Patrol Station	1530	"	9"	Arroyo Sequis and Trancas Canyon	6-4-40 to 9-22-43
356A	Diamond Bar Ranch #2	675	"	9"	San Jose Creek	11-28-34 to date
356B	Spadra - Pacific Colony	685	"	9"	San Jose Creek	3-30-38 to 2-16-44
367	Upper Haines Canyon	3450	"	9"	Big Tujunga	2-17-44 to date
367	Upper Haines Canyon	3450	J. P. Friez Cam	30"	Big Tujunga	1-13-33 to 6-11-40
372	San Francisquito Canyon - P.H. #2	1580	Fergusson	9"	San Clara River	6-11-40 to date
373	Briggs Terrace	2310	"	9"	Verdugo	5-25-44 to date
380	El Sereno	553	"	9"	L. A. River	11-28-33 to date
402C	State Prison Camp #37	6665	"	12"	San Gabriel West Fork and Little Rock Creek	11-1-34 to date
402D	State Prison Camp #37	6800	"	12"	San Gabriel West Fork and Little Rock Creek	8-28-40 to 9-21-43 (6)
415	Signal Hill City Hall	115	"	9"	Coastal	9-21-43 to date
419	Mt. Gleason	5450	J. P. Friez Cam	30"	Pacoima - Santa Clara	3-15-37 to date
419	Mt. Gleason	5450	Fergusson	12"	Pacoima - Santa Clara	9-21-37 to 6-4-40
425A	San Gabriel Dam #1	1470	"	12"	San Gabriel	6-4-40 to date
425A	San Gabriel Dam #1	1470	"	9"	San Gabriel	11-3-37 to 11-27-41
425B-E	San Gabriel Dam #1	1481	"	9"	San Gabriel	11-27-41 to 7-1-43
425B-E	San Gabriel Dam #1	1481	Stevens	24"	San Gabriel	7-1-43 to 5-1-44
425B-E	San Gabriel Dam #1	1481	Fergusson	12"	San Gabriel	12-30-43 to 9-27-44
433	Altadena - County Forestry Park	1710	"	9"	Rubio Wash	9-27-44 to date
434	Malibu Hdqts.-L. A. Co. Forest Serv.	800	"	9"	Malibu Creek	9-14-38 to date
435	Monte Nido Canyon - L.A.Co.F.S.	600	"	9"	Malibu Creek	10-27-43 to date
439B	Charlton Flats	5500	"	12"	Big Tujunga and San Gabriel West Fork	11-19-43 to date
445A	Live Oak Canyon	1630	Stevens - Q-12	12"	Live Oak Wash	8-2-39 to date
445B	Live Oak Dam	1510	"	12"	Live Oak Wash	3-20-40 to 10-28-42
446	Aliso Canyon Santa Susana Mts.	2367	Fergusson	9"	L. A. River	10-28-42 to date
461	Baldwin Hills	392	Stevens - Q-12	12"	Ballona Creek	7-2-40 to date
466B	Pacoima Canyon	3225	Fergusson	12"	Pacoima Creek	12-19-40 to date
470	Tujunga-Mill Creek	4700	Friez	30" (Private)	Big Tujunga	1-19-42 to date (7)
471	Little Tujunga-Gold Creek	2700	"	12" (Private)	Little Tujunga	10-18-41 to date
477	Santa Anita - Spring Camp	4880	Fergueson	12"	Santa Anita	10-30-41 to date
477	Santa Anita - Spring Camp	4880	Stevens	24"	Santa Anita	11-25-41 to 12-15-43
486	Cold Water Canyon - Widman Ranch	3865	Fergusson	9"	San Gabriel - Cattle Canyon	12-15-43 to date
508A	Arroyo Seco - U.S.F.S.	1430	Friez	12" (Private)	Arroyo Seco	9-22-43 to date
517	Pallett Creek - Anderson Ranch	4700	Fergusson	9"	Big Rock Creek	10-19-42 to date
577E	Los Angeles - U.S.W.B.	417	Friez Tipping Bucket	(Private)	L. A. River	12-17-43 to date
577E	Los Angeles - U.S.W.B.	417	" " "	(Private)	L. A. River	2-19-97 to 3-1-40
577F	Los Angeles - U.S.W.B.	548	" " "	(Private)	L. A. River	10-18-40 to date
699	Los Angeles - 30th and Trinity Sts.	208	Fergusson	12" (Private)	Compton Creek	3-1-40 to date
700	Los Angeles - Slauson and Long Beach Boulevard	176	"	12" (Private)	Compton Creek	10-9-40 to date
710	Millard Saddle - U.S.F.S.	2400	Friez	12" (Private)	Arroyo Seco	10-28-40 to date
711	Pine Canyon - U.S.F.S.	2900	"	12" (Private)	Arroyo Seco	Oct. '42 to date
713	Mt. Lowe Ridge	4800	"	12" (Private)	Arroyo Seco	10-26-42 to date
X5	Las Flores - Camp #7	1390	Fergusson	9"	Las Flores Creek	10-26-42 to date
						11-19-42 to 10-23-43

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.

(1) Previous record at nearby A and B location starting 12-9-37.
(2) " " " " A " " 1-15-26 to 1-27-28.
(3) " " by U.S.W.B. Marvin gage 12-16-24 to 11-24-31
(4) " " at nearby A location " 10-26-34 to 9-14-38
(5) " " " " " " 3-9-32
(6) " " " " B " " 11-8-37
(7) " " " " A " " 1-16-41

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 72 year seasonal indices for Los Angeles County. The 72nd year index (1943-44 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	44	132

° 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.

Comparison of Rainfall by Stations

Sta. No.	Name	Elev.	Yrs. of Record	70 Yr. Normal Inches	1943 1944 Inches	% of Normal
224	Long Beach	80	50	13.36	16.93	127
577E	Los Angeles (USWB)	548	72	15.71	19.23	123
610A	Pasadena	865	72	20.29	26.88	118
60A	Camp LeRoy (Hoegee's)	2400	19	43.57	43.68	100
587	Mouth of San Antonio Cn.	2500	40	27.66	31.50	114
53A	Colby's Ranch	2950	47	31.40	41.42	132
57B-E	Camp Singer (Opid's)	4350	27	41.37	50.84	123
338A	Mount Wilson	5650	40	37.08	42.50	114

The following list 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.

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	18.67	126
San Fernando Valley	7	16.71	24.03	144
San Gabriel Valley-East	12	19.82	21.65	109
San Gabriel Valley-West	6	21.74	25.91	119
Santa Monica Mountains	5	18.05	24.81	138
San Gabriel Mountains	16	29.01	35.55	122
Desert	6	10.87	19.20	177
Sierra Pelona (Vicinity of Bouquet Cn.)	6	15.04	22.61	150

MAXIMUM AND MINIMUM SEASONAL RAINFALL

The following tabulation 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.

Maximum and Minimum Rainfall

No.	Station	Minimum Seasonal	Maximum Seasonal	Maximum Day	Date
456	Yato Kya Indian Museum-Piute Butte	10.80			
402D	Cedar Springs Prison Camp		57.42		
57B	Camp Singer (Opid's)			13.69°	2-22-44

°Sta. No. 283A - Crystal Lake - East Pine Flats had an estimated 14.00", 2-22-43. Estimated from a nearby station.

Table II, page 11, shows a comparison of maximum intensities for ten representative stations in the District during the season and the maximum intensities of record.

Table III, page 12, presents monthly and seasonal rainfall amounts for stations from which the District received records during the season 1943-44.

Table IV, page 16, entitled "Rain Gage Station Location", gives pertinent data regarding each of the stations.

SUMMARY OF SEASONAL SNOWFALL

Snowfall at five high mountain stations is shown as follows:

Sta. No.	Location	Elev.	Season-1943-44 Amount in Inches
82	Table Mountain	7500 ft.	185
83	Big Pines Rec. Camp	5860 "	232
2?3a	Crystal Lake - E. Pine Flats	5740 "	99°
?2D	Cedar Springs	6800 "	369
440	Chilao	5250 "	113

°Partly Estimated
Note: Sta. No. 308 at 8300 ft. elev. - no record.

The following table shows snow survey data for the San Antonio and Big Rock watersheds for Season 1943-44:

San Antonio Watershed

Snow Survey Course	Date	Course Elevation	Mean Depth Snow	Density Percent	Water Content
Mt. San Antonio #2	3-30-44	8400	107 in.	42.4	45.3 in.
Upper Ice House Cn. Courses #2, 2A & 3	3-27-44	7500-8000	106.9 "	44.7	47.7 "

Big Rock Watershed

Snow Survey Course	Date	Course Elevation	Mean Depth Snow	Density Percent	Water Content
North Baldy #1	4-3-44	7500	89 in.	44.6	39.7 in.
Mt. Islip #1	4-4-44	7000	84.7 "	48.2	40.7 "

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 95% 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 col-

lection 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. John W. Luce. This work was done under the immediate supervision of Mr. Walter J. Wood, Assistant Chief, Hydraulic Division.

TABLE II

COMPARATIVE MAXIMUM RAINFALL INTENSITIES IN INCHES

Season 1943-44

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.
#577E-Los Angeles,	Amt.	.18	.28	.36	.62	1.07	1.48	1.82	2.01	2.04	2.71	4.34	7.67	7.77
Central Bldg., USWB	Date	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/20	2/19-20	2/19-23	
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.	.24	.34	.37	.47	.76	.96	.99	1.32	1.44	2.58	5.04	10.00	**9.59**
	Date	12/20	12/20	12/20	12/20	12/20	12/20	12/20	2/22	2/22	2/19-20	2/19-20		2/19-22
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	12/13/38	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.	.12	.20	.24	.48	.79	1.36	1.87	2.09	2.31	3.25	3.93	6.78	-
	Date	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/21-22		2/19-23
Maximum of Record	Amt.	.32	.38	.47	.77	1.10	1.73	2.34	2.79	2.98	6.00	10.85	12.51	-
	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
#425B-San Gabriel Dam #1	Amt.	.18	.31	.40	.70	1.20	2.02	2.58	2.96	3.76	5.09	6.81	11.00	11.06
	Date	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/21-22	2/19-23	
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	12/17-20/21
#261-Acton-Mellen	Amt.	.06	.11	.13	.23	.46	.76	.84	.87	.96	1.70	2.68	Inc.	6.49
	Date	12/20	12/20	12/20	12/20	12/20	12/20	12/20	12/20	12/20	2/21	2/21-22	2/19-22	
Maximum of Record	Amt.	.29	.41	.44	.66	.93	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.	.12	.17	.22	.37	.72	1.33	1.49	1.65	1.70	2.67	4.27	9.70	9.73
	Date	12/20	12/20	12/20	12/20	12/20	12/20	12/20	12/20	12/20	2/19-20	2/19-20	2/19-23	
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.	.14	.19	.23	.30	.43	.60	.72	.95	1.14	1.72	2.77	5.12	5.29
	Date	12/11	12/11	12/11	12/11	2/21	2/21	2/21	2/21	2/21	2/22	2/10-11	2/19-23	
Maximum of Record	Amt.	.29	.43	.48	.58	.94	1.63	2.27	2.96	3.25	4.35	7.92	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 (Opld's)	Amt.	.25	.43	.51	.72	1.16	2.12	2.84	3.28	4.01	8.28	13.96	Inc.	21.52
	Date	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/21-22	2/21-22	2/19-23	
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	3/2/38	1/21-23/43	1/21-23/43	12/18-23/21
		1.03 in 1 minute 4/5/26												
#60A-Camp LeRoy (Hoegee's)	Amt.	.35	.42	.49	.92	1.25	1.75	2.35	2.83	3.17	5.56	8.80	14.82	15.02
	Date	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/22	2/21-22	2/19/24	
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.	.14	.21	.25	.30	.38	.57	.95	1.13	1.26	2.64	3.95	8.36	8.43
	Date	2/20	2/20	2/20	2/20	2/20	2/22	2/22	2/22	2/22	2/22	2/21-22	2/19-24	
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.

TABLE III

SEASON 1943-44 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	.38	.51	7.62	2.08	6.93	3.57	.78	.02	0	0	0	.02	21.91
3	Seminole Hot Springs	.05	.46	9.26	3.00	13.59	4.28	.87	0	0	0	0	0	31.51
5B	Calabasas	.19	.33	9.07	.96	13.64	2.65	.46	0	.01	0	0	0	27.31
6	Topanga Guard Station (Topanga Ranger)	.24	.32	9.51	1.30	11.36	4.28	1.27	0	.05	0	0	.02	28.35
7C	Bel Air Bay Club	.10	.20	5.85	3.09	6.25	3.40	.50	0	0	0	0	0	19.39
9	Sepulveda - Chase	.10	.17	7.85	.78	11.85	2.70	.70	0	.05	0	0	T	24.20
10	Bel Air	.20	.23	7.22	1.17	9.46	1.79	.78	T	T	0	0	.06	20.91
11C	Upper Franklin Reservoir	.09	.26	7.99	.74	9.94	3.55	1.13	0	0	0	0	T	23.70
12	Franklin & Mulholland Patrol #1	.43	.28	8.37	.73	10.79	2.59	1.59	0	.16	0	0	0	24.94
13	North Hollywood Blix	.19	.50	7.66	.15	9.13	2.64	1.43	0	.04	0	0	0	21.74
14	Roscoe - Merrill	.35	.19	8.26	1.00	9.97	2.95	1.06	0	.23	0	0	.06	24.07
15	Van Nuys - Warehouse	.24	.23	8.15	.72	10.49	2.29	.72	T	.10	0	0	T	22.94
17	Sepulveda & Mulholland Patrol #2	.21	.25	9.32	.67	11.03	3.49	.88	0	0	0	0+	.02+	25.87°
18	Adohr Dairy	.28	.22	7.98	.62	12.62	2.52	.94	0	0	0	0	0	25.18
19	Topanga - Summit	.50	.36	7.18	.92	11.32	3.06	.56	0+	.03+	0+	0+	.01+	23.94
20B	Girard - Reservoir	.34	.35	8.11	.81	13.81	2.88	.59	.02	.09	0	0	T	27.00
21	Brant Ranch - Girard	.26	.28	8.24	.80	10.87	2.68	.49	0	0	0	0	0	23.62
22	Bell Canyon - Johnson Ranch	.40	.23	7.12	.76	10.54	2.67	.57	0	0	0	0	0	22.29
23-E	Chatsworth Reservoir	.20	.24	7.17	.91	11.19	2.68	.52	.01	.01	T	0	.01	22.94
24-C	Chatsworth	.19	.25	7.14	1.00	9.51	2.60	.62	0	0	0	0	0	21.31
25B	Zelzah Northridge - Andrews	.21	.26	7.91	.97	11.99	2.99	.65	0	.06	0	0	0	25.04
27	W. D. Miller Ranch	.04	.24	6.71	1.03	9.29	2.85	.83	0	.10	0	0	.03	21.12
28	San Fernando Lemon Assocation	.10	.25	7.27	1.05	11.55	3.46	1.00	.02	.23	0	0	.03	24.96
29B	Granada - Pump Plant	.15	.22	8.12	.80	10.60	3.60	1.17	.03	.03	0	0	.01	24.73
30	Sylmar	.15	.30	7.17	1.46	10.36	3.91	.93	.05	.24	0	0	0	24.57
32E	Newhall-Soledad Headquarters	.13	.28	8.21	1.02	13.96	3.20	.46	.01	T	0	0	0	27.27
33A'-E	Pacoima Dam	.32	.28	8.12	1.39	11.80	4.16	1.05	.18	.29	0	0	.09	27.68
38	Chappel Ranch	.19	.25	6.79	1.13	10.51	3.06	1.30	0	0	0	0	T	23.23
39B	Sunset Dam	.18	.12	8.27	.94	11.09	3.07	.99	.13	.06	0	0	0	24.85
42	Redondo - City Hall	.38	.17	6.30	.96	5.58	1.88	.27	.11	0	.02	0	0	15.67
43A	Palos Verdes - Administration Building	.32	.19	5.45	.83	5.62	2.05	.43	.03	0	0	0	0	14.92
43B	Palos Verdes - Golf Course	.30	.18	5.83	.84	5.74	2.19	.45	.11	0	0	0	0	15.64
44	Point Vicente Light House	.32	.13	5.24	.82	5.44	2.09	.38	0	.05	0	0	T	14.47
46C-E	Big Tujunga Dam (near Crest)	.74	.08	9.32	1.21	21.12	3.99	1.15	.06	.01	0	0	0	37.68
47A	Clear Creek	.72	.13	10.81	1.44	20.53	4.10	1.51	0	0	0	0	0	39.24
48	Oak Wilde	.55	.10	9.54	1.07	14.40	2.90	1.27	0	.73	0	0	0	30.56
49	Altadena - Chiesa	.44	.07	7.97	.81	11.46	3.78	2.12	.12	.54	0	0	.05	27.36
50B	Altadena Arroyo Patrol Station	.25	.08	8.23	.80	12.55	3.44	1.29	.08	.38	0	0	0	27.10
51	La Cienega - Hill	.73	.43	11.51	1.55	19.63°	4.16	1.85+	.04+	0+	0+	0	0	39.90
52C	Waterman Guard Station	.65	.12	10.75	1.04	19.56°	4.71	1.22	.10	.02	0	0	0	38.17
53A	Sleepy Hollow Ranch (Colby's)	.79	.18	10.79	1.21	21.92	5.08	1.35	.05	.05	0	0	0	41.42
54	Loomis Ranch	.52	.17	10.86	1.03	14.31	2.79	1.13	T	0	0	0	0	30.81
56	Valley Forge Lodge - Camp Kole	1.50	.20	- -	- -	N o	R e	c o	r d -	- -	- -	- -	-	Inc.
57B-E	Camp Singer (Opid's)	1.18	.17	14.92	1.47	24.80	6.48	1.75	.05	.02	0	0	0	50.84
60A	Camp LeRoy (Hoegee's)	1.27	.28	12.28	1.97	18.51	6.54	2.46	0	.37	0	0	0	43.68
63B-E	Big Santa Anita Dam	.73	.07	8.70	1.41	10.74	4.17	2.05	.04	.64	0	0	.05	28.60
64	Clark's Half Way House	.58	.07°	8.64	1.42	12.52	3.88	1.89	0	.77	0	0	0	29.77
66	Sierra Madre - Pegler Ranch	.54	.10	8.16	1.10	10.20	2.53	1.92	0	.05	0	0	0	24.60
67B	Monrovia - City Hall	.33	.09	7.76	.99	9.12	2.77	1.41	.02	0+	0+	0+	0+	22.49°
68B	Sawpit Dam	.65	.13	9.17	1.57	11.35	3.86	2.24	.03	.70	0	0	.06	29.76
69	Sawpit Canyon	.69	.13	10.72	2.00	12.84	4.86	2.53	.05	.78	0	0	.02	34.62
70	Dalton No. 1	.93	.14	8.67	1.35	8.94	3.35	1.51	0	.17	0+	0+	.02	25.10
73	Glendora - Englewilde Ranch	1.31	.41	7.96	1.50	10.25	3.11	1.50	0	.34	0	0	.12	26.50
76B	San Gabriel Dam No. 1 Camp	.88	.35	10.06	1.79	12.57	4.37	1.79	T	.16	0	0	0	31.97
82	Table Mountain	.48	.54	7.10	1.04	6.96	1.73	.65	.06	0	0	0	0	18.56
83E	Big Pines Recreation Park	1.08	.62	10.97	1.49	10.82	3.24	1.40	T	0	0	0	0	29.62
85D	Camp Baldy Guard Station	1.25	.89	13.24	1.86	20.65	2.88	2.49	0	0	0	0	0	43.26
87	San Dimas Guard Station	1.43	.24	8.39	1.74	10.37	2.85	1.58	0	.23	0	0	0	26.83
89E	San Dimas Dam	1.50	.20	7.75	1.79	9.59	2.64	1.30	0	.23	0	0	0	25.00
90	Brydon Ranch	1.65	.26	7.71	1.69	9.58	2.43	1.54	0	.18	0	0	0	25.04
91	Indian Hill	.70	.21	7.61	1.26	8.27	1.72+	1.67+	0+	.16+	0+	0+	0+	21.60°
92	Pomona College - Claremont	.72	.32	6.78	1.00	8.01	1.58	1.45	0	.22	T	T	T	20.08
93	Claremont - Fire Station	.67	.27	7.45	.93	7.81	1.58	1.57	T	.22	0	0	T	20.50
94	Charter Oaks - Fields Ranch	.55	.10	6.74	1.62	10.07	1.78	1.41	.04+	.14+	0+	0+	0+	22.45°
95	San Dimas - Fire Warden	.49	.17	6.63	1.35	8.79	2.07	1.49	.02	.41	0	0	0	21.42
96E	Puddingstone Dam	.42	.14	6.53	1.02	7.48	1.69	1.30	.04	.16	0	0	0+	18.78
98	Azusa - Hibsch	.71	.19	7.53	1.39	9.81	3.14	1.22	.02	.18	0	0	T	24.19
99	Azusa - Foothill Ranch	.71	.15	7.82	1.41	9.00	2.55	1.37	0	0	0	0+	.03	23.04
101	West Covina - Hurst Ranch	.37	.14	7.67	.98	8.47	2.30	1.01	0	0	0+	0+	0+	20.94
102B	Walnut - South Hills Patrol Station	.04	.09	6.49	.54	7.25	1.93	.77	T	T	0	0	0	17.11
104	North Whittier Heights - Cole Ranch	.23	0	6.75+	.53	9.02	2.41	1.10	0	0	0	0	0	20.04
105	East Whittier - Sharples Ranch	.14	.12	6.52	.56	8.18	2.42	1.25	0	.07	0	0	0	19.26
106	Whittier - City Hall	.20	.09	6.23	.77	7.65	2.45	1.07	0	.05	0	0	.04	18.55
107B	Downey - Fire Station	.21	.11	5.58	.67	7.92	2.16	1.24	0	T	0	0	0	17.89
108B	El Monte - Fire Station	.25	.07	6.82	.74	8.81	2.71	.90	0	0	0	0	0	20.30
109C	West Arcadia	.29	.06	7.57	.91	8.33	2.71	1.39	0	.07	0	0	0	21.33
110	Alhambra - City Hall	.42	.04	8.28	1.01	9.45	3.42	1.13	0	.02	0	0	0	23.77
111	South Pasadena - City Hall	.27	.04	7.22	.71	8.83	3.40	.83	T	.03	0	0	T	21.33
114	Rosecrans Ranch - Gardena	.20	.15	6.42	- -	N o	R e	c o	r d	- -	-	-	- -	Inc.
116B	Inglewood - Fire Station	.26	.23	5.92	.54	6.79	1.96	.42	.01	.01	T	0	T	16.14
117B'	Compton - Fire Station	.20	.10	6.12	.84	6.59	2.45	.79	0	T	0	0	0+	17.09
117D	Compton - Junior College	.24	.15	5.85	.78	6.97	2.39	.80	0	T	0+	0+	0+	17.18
118B	Wilmington	.18	.14	6.69	.77	5.65	2.56°	.54	.05	0	0	0	0	16.58
119C	Soldier's Home	.06	.19	6.31	.95	7.74	2.47	.60	0	T	0	0	.06	18.38
120	Vincent Patrol Station	.21	.10	8.75	.71	6.47	1.65	.42	T	0	0	0	0	18.31
121	Lancaster - Union High School	.34	.16	6.41	.60	5.96	1.25	.27	.17	0	0	0+	0+	15.16
122B	Leonis Valley - Arrache Ranch	N.I.	.30	10.23	1.13	9.79	1.80	.63	.06	0+	0+	0+	0+	23.94
123	Elizabeth Lake - Eli Munz Ranch	.65	.30	11.44	2.85	- -	N o	R e	c o	r d	- -	-	- -	Inc.
124B	Bouquet Canyon Reservoir	.34	.35	9.16	1.31	11.81	2.25	1.61	.03	.06	0	0	0	26.92
125	Power House #1 San Francisquito Canyon	.42	.32	8.98	1.57	11.59	2.96	.83	.03	.19	0	0	.04	26.93
126	Venice - City Yards	.36	.20	5.96	.86	6.66	2.23	.71	0	0	0	0	.03	17.01
127	Dry Canyon Reservoir	.53	.24	6.24	1.01	9.37	2.86	.43	.03	.05	0	0	0	20.76
128	Radium Hot Springs	.89	.26	8.70	2.29	13.63	2.81	1.97	0	.19	0	0	0	30.74
130B	Sandberg - Quail Lake Co. Guard Sta.	.27	.34	4.70	2.42	11.15	1.81	.81	.04	.02	0	0	0	21.56
134	San Dimas - Stevens	.84	.17	7.17	1.34	8.76	2.48	1.88	0	.07	0	0	0	22.71
135	Norwalk	.19	.14	5.90	.57	6.14	1.76	1.19	0	0	0	0	0	15.89
136B	Hollywood - City Engineer	.20	.09	6.25	.74	8.80	2.71	.74	0	.01	0	0	0	19.54
137B	Curson Canyon	.35	.20	7.72	1.02	8.80	3.14	1.49	0	.06	0	0	.04+	22.82
139	L.A.W.D. - 2nd & Broadway	.19	.05	6.38	.91	8.76	2.69	.57	T	.02	0	0	.03	19.60
140	Sawtelle - City Hall	.07	.20	6.20	.92	8.17	2.78	.65	0	T	T	0	0	18.99
143	Azusa - City Park	.83	.17	7.72	1.29	8.96	2.83	1.14	.08	.21	0	0	.03	23.26
144	Sierra Madre Dam	.63	.07	8.55	1.23	10.34	3.95	2.14	0	.39	0	0	0	27.30
150	Monrovia Falls	.89	.13	9.95	1.85	12.88	4.81	2.27	.05	.90	0	0	.05	33.78
155B	Little Rock Creek	.15	.10	9.09	.54	7.90	1.30	.35	0	0	0	0	0	19.43
156	La Mirada - Standard Oil Company	.25	.18	6.04	.69	6.96	1.66	.76	0	T	0	0	0	16.54
157	El Segundo - Standard Oil Refinery	.34	.12	5.76	.70	6.24	2.23	.54	0	0	0	0	0	15.93
158	Tanbark Flats	1.32	.32	10.08	1.64	14.64	3.32	1.76	.01	.36	0	0	.01	34.46
164	Monrovia - O'Connor	.57	.06	7.85	1.18	9.70	2.80	1.49	0	0	0	0+	0+	23.65
167	Arcadia Pump Plant	.48	.07	7.57	1.61	9.14	3.39	1.66	0°	.27	0	0	0	24.19°
168	San Gabriel - Watts	.27	.05	8.14	.80	8.96	2.98	1.08	0	0	0	0	0	22.28

TABLE III 1943-44 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
169	Sierra Madre Pump Plant	.57	.07	7.73	1.12	9.64	3.52	2.03	.01	.34	0	0	0	25.03
170B	Potrero Heights	.15	.07	9.48	.94	8.16	3.10	1.31	0	0	0	0	0	23.21
171	Chapman Wells	.39	.13	8.07	1.01	9.70	2.96	1.55	0	.04	0	0	0	23.85
174	Glendora - Warren	.84	.15	6.95	1.41	9.52	2.51	1.56	.05	.28	0	0	T	23.27
175B	Alta Canyada - Reservoir #9	.30	.06	8.61	.96	14.22	4.17	.93	.17	.88	0	0	.07	30.37
176	Rubio Canyon Water Company	.40	.06	8.63	.85	12.44	3.77	2.21	.03	.51	0	0	.07	28.97
177C	La Canada - Bradford	.23	.13	7.41	1.44	12.93	3.61	1.06	.07	.40	0	0	0	27.28
178	Azusa - Griffith	.34	.26	7.37	.86	8.99	1.77	1.14	0	.17	0	0	0	20.90
179B	Sierra Madre - Carter	.59	.07	8.59	1.40	10.98	3.98	1.91	0	.68	0	0	T	28.20
181B	Bassett - Clifford	.41	.09	6.93	.77	8.23	2.57	.85	T	0	0	0	0	19.85
182	Baldwin Park - Leach	.39	.49	7.95	1.11	7.69	2.12+	.87	0	0	0	0	0	20.62*
185	Glendora - West	.75	.36	7.66	1.64	9.71	2.70	1.38	0	.21	0	0	.03	24.44
188B	San Dimas - Brydon's	.65	.16	7.32	1.28	8.79	1.61	1.54+	.02+	.26+	0+	0+	0+	21.63*
189	San Dimas - Harris	.49	.11	7.08	1.01	9.42	2.14	1.49	.02	.41	0	0	0	22.17
192B	Bell - Fire Station	.11	0	5.75	.71	7.84	2.54	.70	0	.02	0	0	0	17.67
193	Covina #2 - Temple	.45	.25	7.71	.88	9.37	2.01	1.08	T	.02	0	0	T	21.77
196	La Verne - Leader	.54	.25	6.75	1.32	7.87	2.12	1.64	.20	.20	0	0	0	20.89
198B	Brand Debris Basin	.09	.07	6.56	.65	10.63	2.74	.79	.07	.18	0	0	0	21.78
199B	Huntington Park	.17	.08	5.91	.78	7.30	2.55	.42	0	.02	0	0	.01	17.24
200	Saugus - S.C.E. Co. Sub Sta.	.21	.18	7.39	.99	10.73	2.62	.39	T	0	0	0	0	22.51
201	Puente Hills	.21	0	6.74	1.21	8.19	2.48	1.13	0	0	0	0	0	19.96
205	Puente - S.C.E. Co. Sub. Sta.	.17	.19	7.51	.57	8.23	2.19	.95	0	.05	0	0	.01	19.87
206	Valencia Heights	.35	.26	6.20	.76	8.39	2.08	.91	0	0	0	0	0	18.95
208	Artesia-Barr Lumber Co.	.10	.13	5.32	.68	6.29	1.95	1.07+	0+	T+	0+	0+	0+	15.54*
209B	Big Tujunga - Edison Road	.71	.08	9.14	1.19	20.41	3.32	1.04	0	0	0	0	0	35.89
210B	Brand Park	.22	.14	7.64	.84	10.60	2.63	.85	.13	.40	0	0	0	23.45
213	Hancock Park	.18	.15	6.37	.80	6.97	2.07	1.00	0	0	0	0	0	17.54
215B	Bellflower - Fire Station	T	.15	5.24	.78	7.57	2.16	1.25	0	T	0	0	0	17.15
216	Glendale - Jones	.17	.05	7.42	.61	11.34	2.81	1.12	.02	.06	0	0	.28	23.88
217	Watts - Jordan High School	.10	.10	6.16	.71	7.56	2.42	.44	0	0	0	0	T	17.49
218	Torrance - General Petroleum Corp.	.31	.09	5.59	.65	7.25	2.23	.38	.01	0	0	0	0	16.51
219	Pacoima Warehouse	.11	.18	7.79	1.10	9.69	3.04	1.35	0	0	0	0	0	23.26
220	Whittier Narrows	.30	.08	6.37	.89	8.58	2.78	.83	.03	.03	0	0	0	19.89
221B	Kiener Ranch (Davis Ranch)	.19	.28	8.04	1.29	11.20	3.68	1.07	.17+	.26+	0+	0+	.08+	26.26
222	Lankershim Generating Plant	.35	.18	7.92	.80	8.67	2.31	1.10	T	.11	0	0	0	21.44
223B-E	Big Dalton Dam	1.38	.24	8.52	1.80	11.08	4.30	1.82	.10	.52	0	0	.02	29.78
224	Long Beach - Alamitos Land Company	.08	.13	5.44	.70	7.53	2.64	.41	0	0	0	0	0	16.93
225	Montana Ranch	.16	.12	5.00	.71	7.70	2.17	1.11	0	0	0	0	0	16.97
226	Burbank - City Hall	.08	.11	7.23	.71	11.12	2.82	.98	.24	.04	0	0	.03	23.36
227B	San Gabriel - Gleason	.34	.08	8.12	.80	10.47	3.00	1.14	0	0	0	0	0	23.95
228B	Beverly Hills - City Hall	.10	.18	6.72	.98	7.57	2.34	.82	0	T	0	0	T	18.71
230C	Live Oak Canyon - Elder	0*	0*	7.66	1.40	7.69	1.85	1.80	0	.17	0	0	0	20.57*
234	Covina - Thorpe	.29	.29	6.96	.66	9.45	2.22	1.15	0	0	0	0	0	21.02
235B	Henninger Flats	.77	.28	9.89	1.31	13.92	4.96	2.27	.21	.94	0	0	.06	34.61
236	Ford - Craig Ranch	.24	.29	7.87	1.38	11.03	3.71	.99	0	0	0	0	.14	25.65
237	Stone Canyon Dam	.13	.17	7.80	.94	10.34	2.50	1.03	T	.02	0	0	.02	22.95
238	Hollywood Dam	.17	.10	6.72	.84	8.60	1.96	.99	.04	.01	0	0	.01	19.44
240B	Little Tujunga Canyon - Oddous Ranch	.56	.27	9.21	1.49	13.21	3.79	1.46	.05	.30	0	0	.04	30.38
241	Long Beach - City Hall	.11	.12	5.15	.82	6.53	2.53	1.06	.02	.02	0	T	T	16.36
246B	Culver City - Bus Yard	.04	.20	6.43	.93	6.05	1.92	.73	.02	T	0	0	0	16.32
248E	West Saddle Peak - Malibu Creek	.21	.36	8.00	1.85	11.29	6.82	.65	.01	.09+	0+	0+	.01+	29.29*
249	Mint Canyon - The Oaks Garage	.40	.24	6.24	1.31	8.04	2.36	.81	.12	.12	0	0	0	19.64
250C	Acton - Olive View Camp	.25	.12	7.14	.75	9.48	1.61	.70	0	0	0	0	0	20.05
251	La Crescenta	.22	.08	8.56	1.00	13.77	3.90	1.20	.12	.58	0	0	T	29.43
253	Western Avenue Tank - L.A.W.D.	.20	.24	5.69	.73	8.75	2.26	.50+	0	0	0	0	0	18.37
254	Rowlands Ranch	0*	.13	7.62	.46	8.68	2.31	2.54+	0	0	0	0	0	21.74*
255B	State Narcotic Hospital	.33	.23	6.49	.81	8.69	2.12	1.21+	0+	0+	0+	0+	0+	19.88*
256B	Pomona - Fire Department	.23	.12	6.80	.70	7.26	1.66	1.09	T	.04	0	0	0	17.90
257	Griffith Park Nursery	0	.10	7.42*	.86+	8.74*	2.38+	1.00+	0	0	0	0	0	20.50*
258a	Griffith Park Tunnel - Mt. Hollywood	.16	.12	7.74	.88	8.59	2.95	.70	0	0	0	0	0	21.14
258b	Griffith Park - S. Slope Mt. Hollywood	.16	.11	7.58	.84	8.52	2.82	.65	0	0	0	0	0	20.68
258c	Griffith Park - N. Slope Mt. Hollywood	.19	.16	7.93	1.01	10.17	3.07	.75	0	0	0	0	0	23.28
259B	Chatsworth Patrol Station	.26	.26	8.01	1.01	11.24	3.38	.65	.02	.05	0	0	.02	24.90
261E	Acton - Mellen	.21	.17	6.10	1.09	7.13	1.76	.72	0	T	0	0	0	17.18
263A	Pomona - Frater	.33	.20	7.08	.78	7.23	1.87	1.07	.02	.02	0	0	0	18.60
264	Sand Canyon - Brooks Ranch	Discontinued.												
265C-E	Puente Hill - Weisel Ranch	.30	.19	6.71	.57	7.67	2.06	.70	0	0	0	0	.06	18.26
266	Leffingwell Ranch - East Whittier	.11	.11	5.85	.58	7.62	1.80	.82	0	.04	0	0	0	16.19
268E	Torrance - 190th & Western Avenue - S.C.E. Co. Sub. Sta.	.49	.17	5.29	.78	6.46	2.44	.43	T	0	0	0	0	16.06
269A	Diamond Bar Ranch #1 Residence	.39	.19	6.78	.67	6.98	2.26	1.10	0	0	0	0	0	18.37
269B	Diamond Bar Ranch - Horse Camp	.37	.16	6.03	.69	7.44	2.13	0	0	0	0	0	0	16.82
270	County Farm - L.A.	.26	.10	5.15	.67	6.76	2.17	.90	0	.03	0	0	0	16.04
271	Dominguez Hills	.54	.18	6.44	.85	6.49	2.76	.76	0	0	0	0	0	18.02
272	Headworks Pump Plant - L.A.	.14	.10	7.41	.57	10.57	3.00	1.07	T	0	0	0	0	22.86
273	San Pedro Hills - McCarrell Ranch	.43	.15	5.59	.99	5.09	2.25	.50+	0+	0+	0+	0+	0+	15.00
274	Acton (near) - Hubbard	.25	.15	7.20	1.31	6.80	1.55	.87	.03	.03	0	0	0	18.19
275	San Marino - Huntington Library	.38	.05	7.57	.89	9.96	3.38	1.20	0	.13	0	0	0	23.56
277	Sawmill Mt. Ranch	.46	.40	9.94	2.42	14.87	2.63	1.12	.03	0	0	0	0	31.87
278B	Clark Memorial Library	.14	.18	6.34	.83	8.45	2.24	.62	0*	0	0	0	0	18.80*
279A	Kinnelon Ranch	.49	.09	8.62	1.12	12.44	3.93	2.13	.15+	.81+	0+	0+	0+	29.78*
280B	Flintridge Fire Station	.26	.06	8.52	.61	10.47	3.31	1.63	.07	.44	0	0	.04	25.41
283a	Crystal Lake - East Pine Flat	1.49	.56	15.83	1.88	24.19	5.10	1.91	.04	0	0	0	0	51.05
283b	Crystal Lake - West Pine Flat	1.52+	Discontinued.											
283c	Crystal Lake Maintenance Camp	.82	.49	14.48	1.52	- - No Record - - - - - -								Inc.
284	Placerita Canyon	.37	.32	9.11	1.55	15.04	3.96	1.03	.04	.10	0	0	0	31.52
285C	Mt. Saint Mary's College	.45	.22	8.13	1.19	9.29	3.19	.80	0	0	0	0	0	23.27
286B	Cowane Ranch - Osborne Avenue	.30	.18	7.17	1.00	10.39	- -	No Record						Inc.
287	Glendora - Irrigation Company Office	.60	.30	7.09	1.33	9.55	2.53	1.35	.02	.16	0	0	.02	22.95
289	Laguna-Bell Sub. Station - S.C.E. Co.	.13	.06	5.74	.64	7.42	2.20	1.00	0	.01	0	0	T	17.20
290	Newmark Sub. Sta. - S.C.E. Co.	.18	.06	6.49	.86	7.45	3.07	.95	0	0	0	0	0	19.06
291	96th and Central Avenue	.08	.05	5.60	.31	7.25	1.64	.40	0	0	0	0	0	15.33
292E	Encino Reservoir	.26	.26	8.81	1.47	11.05	2.67	.85	0	0	0	0	.01	25.38
293	Lower Fernando Reservoir	.11	.25	6.65	1.08	10.58	3.19	.94	.04	.11	0	0	.02	22.97
294	Mira Monte Pump Plant	.45	.07	8.03	1.14	9.92	3.78	2.05	0	.38	0	0	0	25.82
295F	Glendale - Kennedy	.24	.08	7.31	.59	10.40	2.76	1.08	0	.01	0	0	T	22.47
298	Gorman	- - - - - - No Record - - - - - - - - - -												
299C	Calivalli Farms - Little Rock	.20	.07	7.17	.36	6.36	.95	.11	0	0	0	0	0	15.22
300B	Garrapata Canyon	.31	0	8.34	.71	12.56	3.83	1.50	0	.03	0	0	.02	27.30
303B	Cal-Tech	.32	.06	8.34	.82	9.64	4.41	1.55	.04+	.15+	0+	0+	.01+	25.34*
304	Deer Park - Monrovia	1.00	.16	12.06	2.02	14.23	5.28	2.14	.06	.85	0	0	T	37.80
305	Arroyo Sequis - Mason Estate	.70	.37	9.59	1.95	11.34	4.07	1.19	.01	.13	.01	0	.01	29.37
306A	Trancas Canyon at Ocean	N.R.	.46	7.62	- -		N o	R e c o r d			- -			Inc.
308	Kelly's Kamp	1.92	.89	18.49	2.78	- -	N o	R e c o r d			- -			Inc.
309	Padua Hills	1.12	.36	8.62	1.66	10.76	2.76	1.64	0	.18	0	0	T	27.10
311B	Pasadena Meteorological Station	.43	.07	7.69	.75	10.79	3.47	1.60	.06	.30	0	T	.03	25.19
312	Glendora Irrigation Co. - Azusa Plant	.63	.12	8.43	1.14	9.08	2.79	1.25	0	.11	0	0	0	23.55
315	Glendora - H. C. Warren Residence	Discontinued.												
317	Big Pines Sawmill Flats #2	1.00	.52	9.92	1.38	Inc.	- -	Discontinued			- -			Inc.
318	Big Pines - Jackson Lake	.66	.52	10.66	1.03	Inc.	- -	Discontinued			- -			Inc.
320A	Sycamore Canyon - Chevy Chase	Discontinued.												
321E	Pine Canyon Patrol - Co.F.S. (Elizabeth Lake)	.65	.30	11.58	1.75	13.51	2.54	.66	0	.04	0	0	0	31.03
322	E. S. Munz Valley Ranch	.34	.25	8.23	.38	8.93	1.50	.04	0+	.01+	0+	0+	0+	19.68*
326B	Santa Ynez Canyon	.17	0	6.61	1.16	9.28	3.90	1.05	.05+	0	0	0	.04	22.26
334E	San Gabriel Dam No.2	.79	.18	13.63	1.29	23.38	4.67	1.74	T	.05	0	0	0	45.73
336	Silver Lake Reservoir	.18	.06	6.57	.85	9.22	2.28	.57	0	T	0	0	0	19.73

TABLE III 1943-44 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
338A	Mt. Wilson	.92	.19	12.72	1.91	18.93	5.74	2.00	0	.09	0	T	0	42.50
338B	Mt. Wilson Airways Station	.95	.24	12.79	1.79	18.33	6.05	1.86	T	.18	0	0	0	42.19
339	Walnut-Fruit Growers Association	.37	.24	7.03	.69	7.83	2.20	.98	0	.05	0	0	0	19.39
341	Blum Ranch	.35	.12	8.31	.70	8.25	1.56	.50	0	0	0	0	0	19.79
342	Uplands	.83	.35	7.64	1.20	8.44	2.11	1.35	.02	.18	0	0	T	22.32
343B	Telegraph Road	.20	.06	6.44	.63	8.18	2.44	1.06	0	.04	0	0	0	19.05
347E	Baldwin Park Experimental Station	.43	.08	7.57	.85	7.98	2.12	1.07	.01	.01	0	0	T	20.21
348C	Honor Camp No. 4 - East Fork San Gabriel	.67	.30	9.22	1.65	16.01	3.35	2.55	0	0	0	0	0	33.75
349B	Camp Rincon	.74	.33	10.46	1.58	14.42	4.23	1.90	0	.04	0	0	0	33.70
351D	Palmdale	.22	.08	7.55	.52	7.24	1.32	.22	0	0	0	0	0	17.15
352	Lechuza Patrol - Co. F. S.	.61	.44	11.04	2.23	10.97	4.35	1.24	0	.19	0	0	.01	31.08
353	Duarte-Monrovia Citrus Association	.23	.10	7.80	1.12	9.71	2.56	1.54	.02+	0+	0+	0+	0+	23.08
354B	Honor Camp No. 6	Discontinued												
355	Los Angeles City College	.22	.07	6.70	.86	9.50	2.56	.52	0	0	0	0	.01	20.44
356A	Diamond Bar Ranch #2 Office - Spadra	.25	.20	6.04	.62	7.58*	1.80+	1.25+	0	.05+	0+	0+	0+	17.79
356B	Pacific Colony - Spadra	N.I.	N.I.	N.I.	N.I.	Inc.	1.78	1.25	0	.05+	0	0	0	Inc.
357	Upper San Fernando Power House #3	.19	.18	7.72	1.19	10.95	4.07	.97	.04	.11	0	0	0	25.42
360A	Haines Rock Crusher Plant	.38	.13	9.78	.95	14.01	3.21	1.14	.11	.54	0	0	0	30.25
362	El Mirador Ranch	.42	.12	7.57	.86	10.95	3.35	1.70	.07	.29	0	0	0	25.33
364	Haines Canyon-Lower (U.S.G.S.)	.44	.14	11.16	1.24	17.20	3.76	1.29	.16	.89	0	0	.05	36.33
366	Valyermo	1.81	.20	7.62	.48	8.30	1.48	.37	.10	0	0	T	0+	20.36
367	Haines Canyon - Upper	.64	.18	11.02	1.69	19.74	5.34	1.39	.15	.66	0	0	.01	40.82
372	San Francisquito Canyon Power House #2	.33	.24	7.07	1.26	10.54	2.81	.40	T	.08	0	0	0	22.73
373	Briggs Terrace	.37	.09	9.23	1.20	14.91	4.49	1.05	.12	.99	0	0	.07	32.52
375B	Griffith Park Zoo	.35	.14	8.76	.76	8.72	2.83	.83	0	0	0	0	0	22.39
377D	Lake Sherwood Estates	.67	.32	8.71	1.23	11.25	2.77	1.02	0+	0+	0+	0+	0+	25.97
379B	San Gabriel - East Fork-P4B	.75	.42	9.19	1.62	16.21	3.60	2.13	T	.33	0	0	0	34.25
380	El Sereno	.14	.10	6.70	.95	8.84	3.02	.72	0	0	0	0	0	20.47
381B	Santa Monica - "Outlook"	.14	.27	7.43	.90	7.57	2.16	.59	0	T	0	0	.05	19.11
384B	Highland Park - San Rafael Hills	.39	.10	6.81	.79	10.07	3.69	.86	.03	.09	0	0	.01	22.84
386B	Zuma Canyon - Oakley	.41	.45	11.17	2.44	14.20	5.29	1.22	.03	.24	0	0	.14	35.59
387B	Covina - Water Company	.47	.27	7.17	.77	8.69	1.90	1.05	.01	.14	0	0	0	20.47
388B	Clearwater Fire Station	.27	.12	5.20	.67	7.77	2.14	1.13	0	T	0	0	0	17.30
389	Glendora - Brown	.80	.32	8.01	1.64	9.79	2.75	1.51	.05	.29	0	0	.04	25.20
390B-E	Morris Dam	1.31	.21	9.70	1.77	11.13	3.59	1.59	.04	.15	0	0	0	29.49
391B	Montebello - Fire Department	.17	.07	6.85	.72	7.64	2.60	1.23	0	0	0	0	T	19.28
392B	Altadena - Barton	.50	.08	8.52	.92	11.77	3.99	2.21	.10	.65	0	0	.05	28.79
394	Highland Park - Lindsay	.34	T	7.40	.80	10.49	3.14	.66	0	0	0	0	0	22.83
395	Olive View Sanatorium	.15	.30	8.50	1.48	11.34	4.46	1.01	.04	.02	0	0	0	27.30
397B	Tujunga - Begue	.28	.11	-	-	-	No Record	-	-	-	-	-	-	Inc.
400	Pasadena - Washington & Palm Terrace	.43	.09	8.03	1.01	11.41	3.72	1.96	.12	.46	0	T	.05	27.28
402D	State Prison Camp	1.10	.40	13.36	1.49	33.42	6.00	1.65	0	0	0	0	0	57.42
403	Altadena - Lindvall	No Record												
404	Glendale - Opid	.19	.03	7.12	.62	9.96	2.67	1.18	0	.04	0	0	T	21.81
405	Soledad Canyon - Eckles (Nelson)	.30	.19	7.02	1.42	12.28	1.68	.92	T	0	0	0	T	23.81
406C	West Azusa - Azusa Irr. Co. Plant #6	.44	N.R.	8.14	.93	-	-	No Record						Inc.
407	Newhall - U.S.F.S. Headquarters	.32	.28	9.38	1.36	12.72	3.83	.79	0+	0+	0+	0+	0+	28.68
408	Soledad Canyon - Mitchell	.36	.25	7.13	.87	12.77	2.92	.75	T	T	0	0	0	25.05
409	Ridge Route (New) - State Highway Maint.	.07	.28	7.14	2.01	11.04	2.29	.72	0	0	0	0	0	23.55
410A	Ridge Route - Paradise Ranch	N.R.	N.R.	N.R.	N.R.	N.R.	Inc.	.90	0	0	0	0	0	Inc.
411B	Rivera - Pico - Robinson	.38	.08	7.01	.71	8.15	2.59	.93	0	0	0	0	.03	19.88
412B	Pasadena - Ohio and South Euclid Ave.	.36	.05	7.65	.82	10.03	3.38	1.08	.03	.11	0	T	.01	23.52
415	Signal Hill - City Hall	.08	.10	5.07	.57	7.60	2.33	.90	.02	0	0	0	0	16.67
416	Altadena - Ventura St.	.41	.10	7.62	.83	11.43	3.72	1.94	.14	.60	0	0	.08	26.87
417	Sierra Madre - Lamanda Park Citrus Assn.	.23	.14	8.26	.95	10.19	3.30	1.60	.05	.20	0	0	0	24.92
419	Santa Clara Ridge - Mt. Gleason	.80	.19	10.65	1.67	23.72	4.54	1.30	.08	0	0	0	0	42.95
420A	Acton - Colombo Ranch (Modis)	.09	.12	7.06	.36	12.23	2.10	.65	0	0	0	0	0	22.61
421	Lopez Canyon below Mouth	.12	.29	7.72	1.08	10.08	3.09	1.12	.05	.32	0	0	.07	23.94
423	Aliso Canyon - Wagon Wheel Ranch	.43	.16	9.77	.94	15.54	2.87	1.35	T	0	0	0	0	31.06
425A-E	San Gabriel Dam No. 1	Discontinued												
425B-E	San Gabriel Dam No. 1 - near Spillway	.81	.31	10.09	1.70	13.90	4.45	1.80	T	.17	0	0	0	33.23
427	Downey - Jordan	.29	.09	5.82	.67	7.45	2.03	1.00	0	.02	0	0	0	17.37
428	Altadena - Laity	.52	.10	8.74	.94	12.65	4.14	2.38	.12	.76	0	0	.05	30.40
429	Red Box - State Highway Maint. Dept.	.70	.11	10.44	.71	16.15*	4.76	1.32	0	.02	0	0	0	34.21*
430	Saugus - State Highway Maint. Dept.	.28	.22	7.10	.99	12.51	3.16	.34	0	0	0	0	0	24.60
431	Baldwin Hill - North side	.22	.14	5.54	.98	6.98	2.04	.63	0	0	0	0	0	16.53
432	Santa Anita - Fern Lodge	1.33	.20	11.41	1.62	14.34	5.37	2.05	0	.27+	0	0	0	36.59
433	Altadena - Co. F. S. Recreation Park	.62	.06	9.26	.95	13.43	4.05	1.90	.15	.66	0	0	.05	31.13
434	Malibu Hdqts. - Co. F. S.	.38	.41	8.50	1.09	10.73	2.61	.59	0	0	0	0	0	24.31
435	Monte Nido Canyon - Co. F. S.	.35	.41	8.06	1.17	10.89	3.33	.63	0	.27	0	0	T	25.11
437	Hamilton Bowl - Long Beach	.12	.13	4.92	.66	7.27	2.18	.93	.06	.04	0	0	.02	16.33
438	Encino - Quirello	.31	.26	8.88	.42	12.04	3.07	.79	0	.01	0	0	T	25.78
439B	Charlton Flats - U.S.F.S.	.68	.40	13.20	1.32	25.31	5.71	1.38	0	0	0	0	0	48.00
440B	Chilao - C.P.S. Camp	.52	.40	12.64	1.34	20.43	5.00	1.20	0	0	0	0	0	41.53
441-E	Palmdale - Co. Road Maintenance Dept.	.22	.08+	8.40	.52	7.43*	1.25*	.27*	0	0	0	0	0	18.17
442	Mescal Creek (Near)	.22	.15	7.22	.53	7.89	.97	.24	0	0	0	0	0	17.22
443	Latigo Canyon Roads Junction with Mulholland	.47	.46	10.88	1.88	12.68	4.54	1.10	.02	.17	0	0	.01	32.21
444	Rolling Hills - Palos Verdes	.01	.19	6.71	1.33	5.46	2.27	.45	0	0	0	0	0	16.42
445B	Live Oak Canyon at Dam	.34	.14	7.30	1.36	8.06	2.40	1.42	T	.22	0	0	0	21.24
446	Aliso Canyon - Santa Susana Mgs.	.31	.31	8.06	1.47	11.88	4.55	.84	0	0	0	0	0	27.42
447	Las Flores Canyon - Co. F.S.	.26	.02	7.48	1.55	9.77	3.90	.91	0	0	0	0	.04	23.93
449	Eaton Dam	.31	.09	7.64	.91	10.32	3.44	2.18	.10	.42	0	0	T	25.41
450	Eagle Rock	Discontinued												
451	Castaic Guard Station - Co. F. S.	.29	.22	6.64	.94	10.56	2.47	.32	0	0	0	0	0	21.44
452	Studio City - Thayer	.13	.34	8.85	.78	10.18	2.50	2.25	0	.05	0	0	.03	25.11
453	Devils Gate Dam	.35	.06	7.38	.68	10.91	3.28	1.74	.06	.31	0	0	.03	24.80
454	Los Angeles - W. J. Wood	.16	.17	6.79	.77	8.52	2.44	.56	0	0	0	0	T	19.41
455	Lancaster - State Highway Maint. Dept.	.36	.20	7.32	.46	7.62	1.32	.27	.03	0	0	0	0	17.58
456	Yato Kya Indian Museum - Piute Butte	.23+	.08	4.29	.34+	4.67	.84+	.18+	.11+	0+	0+	0+	0+	10.74*
457B	Los Angeles -Carlson	.21	.07	7.04	.98	10.03	2.88	.54	0	.03	0	0	.02	21.80
458	Zuma Canyon - Co. Forestry Patrol Sta.	.48	.36	6.39	1.42	7.63	3.09	.73	0	.01	0	0	0	20.11
460	Pleasant View Mesa - Matay	1.03	.19	9.36	.63	9.19	1.58	.38	0	0	0	0	0	22.36
461	Baldwin Hills - Standard Oil Field Office	.30	.15	5.42	.80	6.86	1.87+	.70	T+	T+	0+	0+	T+	16.10*
462	Hillcrest Country Club	.11	.14	6.50	.75	7.53	2.34	.72	T	T	0	0	T	18.09
463	Mar Vista - Southern California Water Co.	.31	.17	5.71	.95	5.92	2.19	.70	0	0	0	0	0	15.95
464	Tujunga Canyon Honor Camp #5	.81	.10	7.85	1.21	18.34	3.75	1.27	0	0	0	0	0	33.33
466B	Pacoima Canyon near Dutch Louis Canyon	.73	.34	9.69	2.05	10.96	4.12	1.59	.19	.60	0	0	.01	30.28
467B	Glendale - Clifford	No Record												
468-E	Pickens Debris Basin	.19	.05	7.20	.87	12.15	3.52	.98	.12	.46	0	0	.04	25.58
469	Los Angeles - Crisler	.29	.11	7.00	.90	9.73	2.57	.63	T	.03	T	0	.01	21.27
470	Tujunga - Mill Creek	.53	.12	9.52	.96	12.55	2.66	.79	0	.03	0	0	0	27.16
471	Little Tujunga - Gold Creek	.06	0	7.36	.84	13.08	3.35	1.49	0	.05	0	0	0	26.23
473	Aqua Dulce Canyon - Blackwell Ranch	.25	.21	5.63	1.08	9.42	1.65	.59	0	0	0	0	0	18.83
474	South Gate - Police Department	.14	.11	7.11	.88	7.41	2.62	.65	0	0	0	0	0	18.92
475	Saugus - Newhall Land & Farming Company	.23	.25	7.70	1.03	10.09	2.56	.28	0	0	0	0	0	22.14
476A	Lobo Canyon	.31	.39	7.07	Discontinued									
476B	Triunfo Canyon	N.R.	N.R.	N.R.	1.20	10.65	3.15	.85	0	0	0	0	0	Inc.
477	Santa Anita - Spring Camp	1.44	.26	13.88	1.59	18.35	4.89	2.08	0	.14	0	0	0	42.63
478	Valyermo - U.S.F.S.	1.76	.13	8.01	.39	8.43	1.44	.53	.10	0	0	0	0	20.79
479	Arcadia - Gonter	.22	.06	7.23	.76	8.79	2.70	1.34	T	0	0	0	0	21.10
480	Temple City Times	.32	.05	7.55	.80	8.33	2.72	1.36	0	0	0	0	0	21.13
482	Los Angeles - University of Southern Calif.	.17	.14	6.45	.69	9.27	2.28	.55	0	.01	0	0	0	19.56
483	Josephine Mt. Lookout	Discontinued												

TABLE III 1943-44 (Continued)

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Season Total
484	Ice House Canyon Resort	1.20	1.32	16.07	1.89	18.93	3.34	2.36	0	0	0	0	0	45.11
485	Covina - Burch	.33	.25	7.46	.91	8.78	1.83	1.18	0	0	0	0	0	20.74
486	Coldwater Cn. - Widman Ranch	1.05	.73	10.69	1.84	15.04	3.68	2.61	.02	.36	0	0	0	36.02
487	Malibu Beach	.35+	.10+	5.99	1.30	8.33	3.04	.58	0	0	0	0	0	19.69
488	Kagel Canyon Patrol Station	.30+	.21	7.54	.86	10.04	3.46	1.49	0	0	0	0	0	23.90
489	Cold Canyon - Stunts Ranch	.38+	.45+	8.17	1.14	13.76	3.64	.72	0	.07	0	0	0	28.33
490	Lancaster - Wiley Ranch	N.R.	N.R.	N.R.	N.R.	Inc.	.71	.31	0	0	0	0	0	Inc.
495	L.A.C.F.C.D. 751 S. Figueora	.20	.04	6.79	.92	10.33	2.72	.56	.02	0	0	0	T	21.58
X-3A	Rustic Canyon Fire Area - Josepha	.10	.35	9.12	1.57	9.15	4.02	1.10	0	0	0	0	0	25.41
X-3C	Pacific Palisades Fire Area	.15	.24	7.81	1.26	7.82	3.08	.77	.08	0	0	0	0	21.21
X-5	Las Flores - Camp # 7	Discontinued												
508A	Flood Headquarters - Arroyo Seco	.68	.10	8.28	.93	13.49	4.08	1.02	.13	.66	0	0	0	29.37
508B	Arroyo Seco Ranger Station	.36	.09	8.12	.86	12.33	3.87	1.34	.03	.64	0	0	.04	27.68
516	Buena Park	.40	.12	6.50	Inc.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	Inc.
517	Andersen Ranch (Burkhart)	.67	.41	9.52	.43	11.00	1.69	.50	.32	0	0	0	0	24.54
529	Chino-American Beet Sugar Company	.02	.28	7.24	.50	7.16	1.44	.35	.06	0	0	0	0	17.05
530	Conejo Ranch	.20	.30	7.60	1.25	10.00	2.05	.50	T	0	0	0	0	21.90
557	La Habra - Citrus Association	.22	.24	6.20	.42	7.15	1.68	.82	0	T	0	0	T	16.73
564	Llano	.53	.10	7.78	.42	8.06	1.43	.55	T	0	0	0	0	18.87
565	Long Beach - 16th & Chestnut Avenue	.09	.13	5.11	.45	6.83	2.83	1.02	.01	0	0	0	T	16.47
566	Long Beach - #1, 10th & Roswell	.15	.17	5.28	.72	6.09	2.41	.74	.04	.01	0	T	T	15.61
571	Long Beach - #6, 1st & Prospect	.11	.14	4.73	.63	5.18	2.13	.58	.05	T	0	0	T	13.55
577E	Los Angeles - 6th & Main Streets	.21	.07	5.79	.73	8.94	2.41	.58	.01	.04	T	T	T	18.78
577F	Los Angeles - U.S.W.B.	.18	.05	6.23	.97	8.65	2.47	.60	.02	.05	T	T	.01	19.23
588B	Mt. Lowe - Wurmser	1.23	.17	12.46	1.38	17.18	5.87	1.64+	0	0	0	0	0	39.93
589	Mountain Springs Ranch	1.20	.37	6.88	No Records									Inc.
593B	Newhall Ranch	.24	.20	8.48	1.39	10.84	3.28	.53	.02	0	0	0	0	24.98
594	Newhall - S.P.R.R. Depot	T	.23	8.27	.84	14.34	3.39	.50	T	T	0	0	0	27.57
597	Newbury Park	.36	.32	7.57	.88	10.08	2.45	.54	0	T	0+	0+	0+	22.20
598	Neenach	.18	.20	5.56	0	8.41	1.20	.39	.10	.01	0	0	0	16.05
610A	Pasadena - Morris Jones	.40	.09	8.52	.97	10.92	3.59	1.81	.11	.47	0	0	0	26.88
610B	Pasadena - City Hall	.40	.05	7.90	.90	10.85	3.72	1.31	.09	.30	0	0	0	25.52
611	Pasadena - Allen	.38	.08	8.29	.94	11.50	3.79	2.17	.12	.52	0+	0+	0+	27.79
612	Pasadena - Chlorine Plant	.35	.10	7.93	.88	12.36	3.89	1.40	.09	.57	0	T	0	27.57
613B	Pasadena - Hurlbut Fire Station	1.15	.07	7.59	.88	10.15	3.53	.91	.06	.14	0	0	0	24.48
618	Santa Susana - Wolff Ranch	0	0	6.33	1.17	10.29	2.76	0	0	0	0	0	0	20.55
619	San Antonio Canyon	0+	0+	10.74	1.86	13.79	3.19	1.98	0	.07	0	0	0	31.63
623	San Fernando - U.S.W.B.	.14	.28	7.70	1.06	10.94	3.37	1.00	.02	.23	0	0	.03	24.77
634B	Santa Monica - City Hall	.17	.21	6.32	.82	7.47	2.25	.59	0	0	0	0	.04	17.87
644	Somis - Snyder Ranch	.15	.16	5.72	1.34	7.75	2.56	.69	0	0	0+	0+	0+	18.37
649C	Glendora - Bradley	.64	.32	7.37	1.40	10.07	2.84	1.30	0+	.31+	0+	0+	.11+	24.20
656B	Sunland - Bonner	.42	.13	6.12	.71	12.80	.90	1.18+	0	T	0	0	0	22.26
662	Long Beach - 37th & Gaviota	.15	.11	5.87	.86	7.67	2.85	1.10	.02	T	0	0	T	18.63
665	Santa Paula - Blanchard	.14	.20	7.90	1.44	10.02	3.49	1.18	0	0	0	0	0	24.37
666	Long Beach - South & Lemon	.27	.17	6.07	.90	7.66	2.44	.91	T	.03	0	0	T	18.45
671B	Los Angeles S.C.E. Co. #3 Sub.Sta.	.22	.07	6.55	.99	8.63	2.99	.55	T	.01	0	0	T	20.01
672	Eagle Rock S.C.E. Co. #3 Sub. Sta.	.36	.10	7.39	.72	9.87	3.27	1.30	.07	.13	0	0	.02	23.23
673	Seal Beach - L.A. Power & Light Corp.	T	.10	4.47	.56	7.21	2.19	.80	0	0	0	0	T	15.33
674	Compton - American Beet Sugar Company	No Record												
676	Los Angeles - West 80th Street	.28	.23	6.51	.92	9.06	2.36	.65	0	T	0	0	0	20.01
677	Pasadena - Hayes	.58	.10	8.09	.92	11.12	3.62	1.78	.10	.43	0	0	0+	26.74
678	Pasadena - Sheldon Reservoir	.47	.09	7.62	.81	11.14	3.54	1.95	.08	.43	0	T	0+	26.13
679	North Whittier Citrus Association	.24	.09	7.38	.73	8.79	2.30	.97	0	.02	0+	0+	T+	20.52
680	U.C.L.A.	.21	.29	8.64	1.27	7.76	2.39	.72	.06	.02	0	0	.03	21.39
681	Santa Anita Ranger Station	.54	.11	8.34	1.24	8.48	3.57	2.02	.03	.50	T	.01	.08	24.92
682	Gould Station S.C.E. Co. Sub. Sta.	.18	.08+	8.53	1.33	13.07	4.06	.86	.15+	.20	0+	0+	.06+	28.52
683	Sunset Guard Station - U.S.F.S.	.67	.10	9.03	.97	12.74	3.80	1.47	.03+	.86	0+	0	.02	29.69
684	Arcadia Warehouse - U.S.F.S.	.42	.08	7.32	1.16	9.36	3.13	1.32	.08	.17	0	0+	.01	23.05
685B	South Pasadena - Marsh	.40	.06	8.23	1.31	9.27	3.50	1.00	0	0	0	0	0	23.77
686	Big Dalton - Spreading Grounds	1.44	.47	8.27	1.97	8.36	3.99	1.23	T	.43	0	0	.04	26.20
689B	San Marino - Cooper	.34	.06	9.18	.76	9.30	3.06	1.28	0	.11	0	0	.10	24.19
691	San Antonio Spreading Grounds	1.20	.32	7.85	1.66	10.25	2.44	1.61	.03	.26	0	0	0	25.62
693	Bellflower - Anthony	Discontinued												
694A	Tujunga Canyon - Guard Sta. U.S.F.S.	.31	.14	8.37	Discontinued									Inc.
694B	Tujunga Cn. - Guard Sta. U.S.F.S.	N.I.	N.I.	N.I.	1.08	14.20	3.01	1.13	.04	.25	0	0	0	Inc.
695	Tujunga Canyon - Valhalla Ranch	.47	.11	9.26+	1.28	23.58	4.97	1.14	.39	.08	0	0	0	41.28
696	Pasadena - Glen	.54	.14	8.82	1.15	12.15	3.89	2.21	.17	.81	0	0	.06	29.94
697	Venice - Sunset Pier	.44	.30	6.50	.78	6.32	2.12	.56	0	0	0	0	.02	17.04
699	Los Angeles - 30th & Trinity Streets	.25	.05	5.92	.59	9.24	1.87	.67	0	0	0	0	0	18.59
700	Los Angeles - Slauson & Long Beach Avenues	.16	.05	5.61	.54	7.96	2.42	.47	0	0	0	0	0	17.21
703	Glendale - McIntyre	.42	.08	7.23	.65	11.08	2.69	1.06	.05	.04	0	0	0	23.30
705	Alder Creek - Paradise Ranch	.53	.22	9.39	1.56	15.10	3.39	1.54	.04	.05	0	0	0	31.82
706	Rivera - Hadley Ranch	.15	.09	7.31	.56	7.98	3.66	0	0	.04	0	0	0	19.79
707	Pasadena - Millard	.40	.10	8.84	.93	9.23	3.97	1.53	.25+	.39	0	0	.10	25.74
708	Glendora - Gordon Ranch	.77	.14	7.30	1.46	No Record								Inc.
710	Millard Saddle	.57	.07	8.69	1.09	13.54	3.93	1.32	0	.98	0	0	0	30.19
711	Pine Canyon	.68	.10	9.30	.53	12.39	4.38	.95	0	.66	0	0	0	28.99
712	Brown Mountain	.81	.28	10.19	.78	1.37	15.77	1.34	0	.20	0	0	0	30.74
713	Mt. Lowe Ridge	.92	.08	9.55	.93	14.62	3.92	1.25	0	.14	0	0	0	31.41
714	Mt. Disappointment	.91	.18	10.55	1.12	1.40	12.13	1.35	0	.15	0	0	0	27.79
715	Post Office Terminal-U.S.W.B.-L.A.#2	.20	.05	6.41	.93	9.30	4.51	.68	.01	.03	T	T	.01	22.13
716	Ducommun Street - L.A.W.D.	.21	.08	6.64	.95	9.60	2.61	.64	.01	.01	0	0	.01	20.76
717	Pasadena - Morris	.44	.10	8.79	1.11	11.60	3.82	1.76	.16	.51	T	T	.10	28.39
718	1000 Oaks	.52	.18	7.16	.96	9.55	2.43	.71	0+	0+	0+	0+	0+	21.51
719	Duarte - Maddock Ranch	.73	.90	11.05	1.69	13.42	3.80	1.60	.04	.26	0	0	.04	32.72
720	Simi Valley - Smith Ranch	0	.23	7.68	1.21	12.20	2.48	.45	0	0	0	0	0	24.25
723	Stone Canyon	.18	.20	8.39	.77	10.99	2.93	1.24	0	.06	0	0	.01	24.77

Legend

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

TABLE IV

RAIN GAGE STATION LOCATION

SEASON 1943-44

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	95	34 02 28	118 32 45	Henry Rodriguez	Bel Air Bay Club, Roosevelt Highway
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	ScwA	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 Bell Canyon, San Fernando Valley
23E	Scw	46-87	865	34 13 36	118 37 03	Arthur Hirschy	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. G. 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	S-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 Canyon
48	S	51-15	1800	34 14 44	118 11 00	Logan and Burns	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	R. E. Depue	352 Foothill, Flintridge
51	S	65-59	4650	34 18 12	117 50 30	Mrs. R. F. Hill	1 mile North of Coldbrook Camp (Little Cisnega)
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. Employee	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
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 11 04	118 01 11	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	600	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	A	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. M. Englehart	Mouth of Englewilde Canyon
76B	S	54-57	1500	34 13 33	117 50 48	Geo. Middleton	San Gabriel Dam #1 Camp
82	S	67-11	7500	34 22 53	117 41 05	S. C. Warner	Top of Table Mountain
83	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	U.S.F.S.	Guard Station, Camp Baldy
87	SAp	44-33	1500	34 09 56	117 46 02	L. L. Winters	San Dimas Canyon, at West Fork
89E	S	44-24	1350	34 09 05	117 46 28	O. 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. Baloh	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
101	S	30-53	358	34 03 51	117 57 00	Hurst Bros.	Southeast Corner Merced and 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
109C	S	41-27	527	34 07 25	118 03 02	Carl Randolph	538 Naomi Avenue, Arcadia
110	S	28-70	485	34 05 40	118 07 43	J. V. Clay	Northwest Corner Second & Main Streets, City Hall, Alhambra
111	Sp	40-48	690	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	City Firemen	111 East Queen Street, Inglewood Fire Station
117B'	S	8-70	68	33 53 45	118 13 30	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	2290	34 29 30	118 07 45	John B. Sigrist	1533 Sierra Highway, Vincent
121	S	112-79	2350	34 41 58	118 07 48	R. E. Lofinck	Union High School, Lancaster
122B	S	98-49	3130	34 36 27	118 15 31	Juan Arrache	South of Junction - Godde Hill Road with Elizabeth Lake Road
123	Sp	96-73	3250	34 40 00	118 25 20	Eli Munz	South of Highway between Elizabeth and Hughes Lakes
124B	Acw	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	9	33 59 18	118 27 33	A. S. Eds	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	317	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 Curson Canyon near Mulholland Highway
139	Scw	27-54	385	34 03 08	118 14 48	J. Jones	Southeast Corner Second & Hill Streets, L.A.W.D. 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	3035	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	Lab. Employees	Standard Oil Refinery, El Segundo
158	SpAp	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
169	Sp	41-63	700	34 09 49	118 02 23	B. F. Mobley	621 Sierra Madre Avenue, Sierra Made 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 - 2.25 miles East of Glendora
175B	S	50-87	2020	34 13 40	118 12 42	J. M. Hicks	Northwest corner Alta Canada and Del Oro Drive

TABLE IV 1943-44 (Continued)

Sta. No.	Type Gage	Quad Index	Elev. U.S.G.S.	North Lat. ° ' "	West Long. ° ' "	Observer	Location
176	Sp	40-61	1125	34 10 55	118 08 16	J. H. Scranton	583 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 08 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 07	117 47 40	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	J. H. 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
198B	8.81"	39-20	890+	34 11 04	118 16 34	M. L. Packer	Mouth of Brand Canyon on West side
199B	S	14-81	175	33 59 21	118 13 06	W. E. Ford	City Yard, 2886 East Slauson Avenue, 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	Harvey Lowery	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	2445	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 17 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. Olchvary	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	Co. F. S. Employees	Henninger Flats, Forestry Nursery, Mt. Wilson
236	S	59-88	1455	34 19 12	118 24 59	R. Kieth Waldren	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. C. Bowers	Utilities Building, Long Beach
246B	S	26-18	75	34 01 00	118 23 17	Bud 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
255B	S	31-45	780	34 02 29	117 51 11	Mr. Jacobson	San Jose Hills, near Spadra
256B	S	32-44	882	34 03 26	117 45 04	Mr. DanZans	Fifth and Thomas Streets, 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	32-56	778	34 01 54	117 44 26	G. H. Grant	2211 S. Towne Avenue, Pomona
264	S	59-92	1900	34 22 42	118 24 28	Ray 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	Ben Rivera	Diamond Bar Ranch #1, Brea Canyon Road
269B	SpAp	18-62	760	33 58 42	117 49 54	Angel Reyes	Diamond Bar Ranch, Horse Camp
270	S	15-46	104	33 56 17	118 02 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	G. 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 57	118 04 35	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	Claude E. Huse	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
283c	SA	65-68	5025	34 18 51	117 49 58	Claude Huse & Miller Newman	.2 Mile Northeast of control station - Crystal Lake
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 Aboneria 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. Employees	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	2805	34 32 10	117 58 39	Mrs. Lena Schwab	85th St. E. and Avenue T8, Little Rock
300B	Sp 3"	36-18	990	34 07 03	118 35 02	R. L. Peeler	Garrapata Canyon ½ 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	2725	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
308	Sp	56-96	8300	34 13 50	117 36 22	H. S. Delker	Kelly's Kamp, 1½ miles Northeast of Ontario Peak
309	Sp	45-05	1768	34 08 36	117 41 51	Kenneth B. Forbes	4064 Monte Vista Avenue, 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	W. H. Rowe	.6 mile Southeast of Main Road near Swartout - Valley Park Entrance
318	Sp	66-70	6075	34 23 30	117 43 40	W. H. 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	3275	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. S. Munz	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
342	S	45-17	1550	34 07 13	117 40 48	R. C. Gadnum	1544 North Benson Street, Upland
343B	Sp	16-04	144	33 57 12	118 05 48	F. C. Collins	2625 Passons Boulevard, Rivera

TABLE IV 1943-44 (Continued)

Sta. No.	Type Gage	Quad Index	Elev. U.S.G.S.	North Lat. ° ' "	West Long. ° ' "	Observer	Location
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	86-81	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. Gesena	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 45	117 40 10	G. W. Oakley	Cow and San Antonio Cns. Divide, 1½ miles S.W. of Camp Baldy
355	S	27-01	335	34 05 21	118 17 34	J. F. Ball	855 North Vermont Avenue, Los Angeles
356A	SpA	31-86	675	34 02 15	117 48 43	W. P. Collins	Spadra Office, Diamond Bar Ranch, 0.5 mile Southeast Pomona Boulevard
356B	SA	31-95	685	34 02 32	117 48 34	G. M. Grove	1600 feet South of Valley Boulevard and 700 feet West of Pacific Colony Rd.
357	Scw	59-08	1248	34 18 49	118 29 30	Station Operator	Power House #3 North of Upper San Fernando Reservoir
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	3730	34 26 37	117 51 00	L. F. Noble	¼ mile Northwest Valyermo, ¼ 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	ScwA	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. Kene	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
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-E	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
402D	SA	65-14	6800	34 21 03	117 53 00	Geo. F. Charles	Cedar Springs - Prison Camp
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	Jack E. Bizzell	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	81-13	2525	34 34 05	118 41 17	Carolyn Durnford	7 miles North of Castaic, New Ridge Route
411B	Sp	16-11	170	33 59 20	118 04 58	C. W. Robinson	700 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	125	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
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
423	S	75-08	3920	34 24 56	118 04 28	Earl W. Scribner	Aliso Canyon, 1.1 miles off Angeles Forest Highway
425A	S	54-49	1470	34 12 23	117 51 25	F. C. Employee	East Abutment, San Gabriel Dam #1
425B-E	SA	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	R. O. Norton	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	SA	34-46	800	34 07 57	118 45 08	B. O. Butler	Malibu Hdqts., Co. F.S. 1 mile South of Ventura Blvd. on Cornell Road
435	SA	23-12	600	34 04 40	118 41 23	C. A. Bollman	Monte Nido Co. F.S. Brent's Mt. Crage 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	Chester Keeney	Charlton Flats, USFS Checking Station
440B	S	63-97	5250	34 19 30	118 00 17	Chester Keeney	Chilao, U.S.F.S. - C.F.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	Beagarie and Hale	"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	Clark Miner	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	915	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. Wahl	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	1094	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 W. of Griffin Rd., 250 feet N. of Pallett Road, Pleasant-View Mesa
461	SA	26-29	392	34 00 08	118 22 32	Wilma V. Hoskins	1 mile North of Slauson Avenue, 1-1/8 miles 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	82	34 00 49	118 25 32	Leo Minnick	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	60-54	3225	34 21 07	118 20 38	John J. Oddous	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	Piokens Debris Basin
469	Sp	27-14	235	34 03 19	118 17 25	R. F. Grisler	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
476A	8.81"	34-07	800	34 07 26	118 47 43	H. D. Warner	At Junction of Lobo and Triunfo Canyon, Santa Monica Mts.
476B	8.81"	34-06	800	34 07 27	118 47 43	H. J. Ruess	Triunfo Canyon 1/2 mile above Lobo 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 Bloesom 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
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
485	S	30-90	522	34 05 48	117 54 04	G. W. Burch	743 West Cypress Avenue, Covina
486	SA	55-83	3865+	34 15 49	117 42 38	J. W. Widman	Coldwater Canyon, 3.5 miles above junction with Cattle Canyon
487	S	23-06	20+	34 02 02	118 41 38	R. A. Allen	301 Malibu Heights - 1 block no. of Pacific Highway
488	8.81"	49-20	1450	34 17 47	118 22 29	O. W. Taylor	150' East of intersection of Kagle Cn. Rd. and Dexter Rd.
489	S	23-40	1318	34 05 39	118 39 23	John Henry Stunt	3.2 miles up Cold Creek Canyon from Monte Nido Patrol Station of L.A. Co.F.S.
490	8.81"	101-42	2472	34 40 46	117 57 06	C. G. Ball	15 miles East of Lancaster on 100th St. E. 25 miles N. of Ave. K
495	S	27-54	335	34 03 55	118 15 38	Geo. Eckert	8th and Figueroa Streets, Los Angeles

TABLE IV 1943-44 (Continued)

Sta. No.	Type Gage	Quad Index	Elev. U.S.G.S.	North Lat. ° ' "	West Long. ° ' "	Observer	Location
X-3A	S	24-82	580	34 04 40	118 31 03	A. Josepha	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
508A	SpAp	51-27	1430	34 12 42	118 10 20	H. J. Fittinger	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, U.S.F.S.
516	Sp	O-Co.	75	33 51 40	117 59 55	Nelson Hardware Employee	932 Grand Avenue, Buena Park
517	SpAp	77-18	4700	34 25 00	117 53 10	Mrs B. M. Anderson	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 miles South of Llano
565	Ap	4-01	13	33 47 15	118 11 46	City Employees	16th and Chestnut Streets, Long Beach
566	Sp	4-52	15	33 46 46	118 08 36	City Employees	10th and Roswell Streets, Long Beach
571	Sp	4-53	15	33 45 41	118 08 30	City Employees	2nd and Bennett Street, Long Beach
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
598	Swb	107-91	3000	34 47 00	118 36 30	U.S.W.B.	Lancaster-Bailey Road - West End Antelope Valley
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
619	Swb	56-38	3200	34 12 50	117 40 10	Operators	San Antonio Canyon, Sierra Power House
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
644	Sp3"	V-Co.	300	34 15 40	118 59 48	F. A. Snyder, Jr.	Somis-Snyder Ranch
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 18 43	John Bonner	10921 O'Dell Avenue, Sunland
662	Sp	9-27	71	33 49 28	118 10 14	City Employees	City of Long Beach, 37th & Gaviota Streets
665	Sp	V-Co.	275	34 21 00	119 04 04	Employees	Santa Paula - Blanchard Investment Company
666	Sp	9-23	50	33 51 37	118 10 43	City Employees	Long Beach, South and Lemon Streets
671B	Sp	27-94	325	34 03 16	118 12 13	Station Operator	1006 North Breed Street, Los Angeles, S.C.E. Co. Sub Station
672	Sp	40-14	1000	34 09 00	118 10 58	Station Operator	7888 North Figueroa Street, Eagle Rock, S.C.E. Co. Sub Station
673	Scw	4-85	15	33 44 42	118 06 43	Station Operator	Seal Beach, Los Angeles Power Plant, San Gabriel River at Ocean
674	Sp5"	8-85	32	33 50 26	118 13 11	Company Employee	American Beet Sugar Company, Compton
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. Morris	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	2090	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
694A	Sp	50-10	1500	34 17 52	118 16 55	O. W. Rutherford	Tujunga Canyon, U.S.F.S. Guard Station
694B	Sp	50-10	1500	34 17 25	118 17 17	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
696	Sp	41-21	1400	34 10 54	118 04 42	Robert Casamajor	Pasadena Glen
697	Ap Sp	12-21	35±	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	SpAp	51-37	2400	34 13 30	118 09 +	H. J. Fittinger	Millard Saddle, Arroyo Seco
711	Ap	51-35	2900	34 13 ±	118 10 ±	H. J. Fittinger	Pine Canyon, Arroyo Seco
712	Sp	51-66	4166	34 14 ±	118 08 ±	H. J. Fittinger	Brown Mt., Arroyo Seco
713	Ap	51-86	4800	34 14 ±	118 07 ±	H. J. Fittinger	Mt. Lowe Ridge, Arroyo Seco
714	Sp	51-95	5500	34 15 ±	118 06 30	H. J. Fittinger	Disappointment Ridge
715	Swb	27-64	280	34 03 ±	118 14 +	U.S.W.B. Employee	Post Office Terminal Building, Los Angeles
716	Scw	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	33-63	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
723	Sp	37-46	835	34 08 23	118 27 33	Water Dept. Employees	Stone Canyon - San Fernando Valley

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 cumulative 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.
E - - - - - Indicates Evaporation tank at Station.

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 1943-1944

LOS ANGELES COUNTY

APPROVED BY H E Hedger
CHIEF ENGINEER

SUBMITTED BY	RECOMMENDED BY	DATE	
Finley B. Laverty CHIEF-HYDRAULIC DIVISION	Paul Baumann ASS'T CHIEF ENGINEER	5-7-46	2-H71

COMPILED BY JWL CHECKED BY REL DRAWN BY C.V.Z.

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.
- "Z" At a Station Denotes a Flood Control Evaporation Tank.

EVAPORATION RECORDS

FOREWORD

This report contains monthly and seasonal data for all stations reporting to the District during the 1943-44 season. Past records are available in the District's files.

SUMMARY OF SEASONAL EVAPORATION

The 1943-44 season's evaporation was below normal, averaging about 90% 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	- Pine Cn. Patrol Sta.	86.950	
Maximum Monthly Amt. Inches	- Pine Cn. Patrol Sta.	12.820	in August
Maximum Daily Amt. Inches	- Pine Cn. Patrol Sta.	0.585	July 27
Minimum Seasonal Amt. Inches	- Puente Hills	36.252	
Minimum Monthly Amt. Inches	- Puente Hills	0.734	in December

The Pine Canyon Patrol Station, which registered the most evaporation during 1943-44, is situated in the Elizabeth Lake District at an elevation of 3275' on a moderate southeast facing slope. The station is located on the side of a small valley between rather low hills which are covered with sparse desert growth. These hills form the edge of Antelope Valley. Desert-like conditions prevail.

The Puente Hills Station is located on the south slope of the Puente Hills at an elevation of 675'. Surrounding areas are covered with irrigated citrus and avocado groves. The area is subject to fog and general marine air conditions.

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 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 readings are taken 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 18 stations with records from 11 to 14 years in length.

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 rod embedded in a block of concrete, to hold it in a vertical position, is placed in the center of the tank. This rod has a sharp point at the upper end, and serves as a reference point for water levels.

The lake 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, utilizes 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 include maximum and minimum thermometers as standard equipment.

TABLE I

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDRAULIC DIVISION

EVAPORATION RECORDS

IN INCHES

Season 1943-44

Sta. No.	Station	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
23	Chatsworth	5.535	5.550	2.720	3.915	2.410	5.500	5.025	5.220	6.080	7.980	9.755	7.150	66.840
32	Newhall	6.125	5.445	2.593	3.400	2.020	5.030	5.210	5.700	6.340	8.470	9.710	7.090	67.133
33	Pacoima Dam	5.295	5.915	3.420	3.965	2.355	5.015	4.110	4.240	4.225	6.275	7.075	4.650	56.540
46C	Big Tujunga Dam	9.348	6.780	2.209	3.610	2.130	5.317	5.425	6.285	6.935	10.975	12.290	8.875	80.179
57B	Camp Singer (Opid's)	3.080	1.675	0.255#	0.225#	0.030#	1.515#	3.440	5.270	5.070	6.721	7.807	5.770	40.858#
63	Santa Anita Dam	4.770	4.925	2.170	2.610	1.770	3.420	3.705	3.670	3.370	5.475	6.925	5.025	47.835
83	Big Pines Park	3.315	Discontinued											Inc.
89	San Dimas Dam	6.025	3.700	1.525	1.350	E0.972	1.025	1.400	2.850	4.360	6.275	7.350	5.500	42.332
96	Puddingstone Dam	5.600	4.925	2.015	2.125	1.955	2.870	3.515	4.300	4.990	6.910	8.000	5.975	53.180
223	Big Dalton Dam	5.060	4.750	1.810	1.105	1.430	3.505	3.055	3.230	3.385	6.510	9.710	7.130	50.680
248	West Saddle Peak	3.071	1.635	1.155	2.150	1.645	3.795	4.145	4.175	Discontinued				Inc.
261	Acton (near)	6.415	5.135	2.845	2.915	2.130	4.980	6.050	7.715	7.910	11.640	11.105	8.730	77.570
265	Puente Hills	2.748	2.813	0.734	1.290	E0.935	2.543	3.435	3.548	3.948	4.861	5.574	3.823	36.252
268	Torrance	4.180	1.885	1.080	0.920	1.085	4.105	5.485	5.315	6.285	6.750	7.145	5.245	49.480
292	Encino-F.	6.875	5.835	2.595	2.890	2.340	5.600	6.460	6.960	7.210	8.710	10.970	7.655	74.100
	" -USWB	6.420	5.090	3.090	2.920	3.270	6.380	6.250	6.570	6.830	9.040	10.970	7.230	74.060
	" -Lake	6.450	5.200	2.320	2.540	2.450	4.950	5.580	5.860	6.510	7.560	9.190	6.600	65.210
321	Pine Canyon Patrol	6.880	4.875	4.570	2.995	3.790	5.470	6.280	7.875	8.150	12.320	12.820	10.925	86.950
334	San Gabriel Dam # 2 Land Pan	6.160	4.040	1.545	E 1.570	1.460	4.075	4.450	6.245	6.435	9.950	10.400	7.900	64.230
334	San Gabriel Dam # 2 Lake Pan	N.R.	N.R.	Inc.	1.730	1.600	3.970	4.805	6.065	5.910	8.470	8.940	6.470	Inc.
347	Baldwin Park-USWB	4.740	3.480	2.080	2.100	2.410	4.090	5.080	6.000	6.090	7.850	8.270	5.690	57.880
	" " 6 ft.	4.170	2.930	1.690	1.400	2.600	3.160	4.470	5.300	5.780	6.940	7.530	5.040	51.010
	" " FC	4.933	3.575	2.030	1.575	1.815	3.475	4.995	5.890	6.383	7.857	8.575	5.900	57.003
	" " 2 ft.	5.170	3.710	2.040	1.590	2.220	3.400	5.090	5.940	6.180	7.930	8.690	6.030	57.990
390B	Morris Dam - 6 ft.	4.788	3.396	1.536	1.560	1.416	3.276	3.732	5.100	4.980	7.320	7.956	5.856	50.916
390B	Morris Dam - 4 ft.	4.968	3.612	1.644	1.788	1.596	3.912	4.368	5.496	5.268	7.680	8.760	6.340	55.432
425B	San Gabriel Dam # 1 Land Pan # 2	7.355	6.470	2.805	2.815	2.365	5.085	5.535	6.745	6.980	9.860	11.735	9.155	76.905
425B	San Gabriel Dam # 1 Lake Pan	5.345	4.470	1.890	2.045	1.460	2.810	4.315	4.925	5.850	7.535	E 9.175	7.255	57.075
441	Palmdale	6.380	N.R.	2.355	1.825	2.780	5.755	5.175	6.325	8.100	7.425	9.600	Inc.	Inc.
468	Pickens	6.150	4.335	2.290	2.295	2.228	4.451	5.730	N.R.	5.935	9.190	5.575	9.570	Inc.

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 fourteenth report on runoff published since the creation of the Hydraulic Division (formerly the "Hydrographic Department") in April 1927°. These reports cover 17 years of records on various streams and channels throughout the District.

SUMMARY

Runoff during the 1943-44 season averaged above normal throughout the District.

The storm of February 19-23 produced the peak flow of the season on all streams in the district with few exceptions. While precipitation during this storm was heavy, it fell in the form of snow above elevation 2500 feet in the San Gabriel Mts., resulting in peak flows that were neither unusually high nor of sufficient magnitude to cause flooding. The exception to this was in the Santa Clara River drainage area, where a heavy snowfall followed by heavy rains, accompanied by warm winds, produced a peak flow of flood proportion, approaching the 1938 flood peak.

EXTENT AND METHOD OF COLLECTING AND PRESENTING DATA

I. Drainage Area and Stations

The Flood Control District operated 67 recording streamflow stations during the 1943-44 season. These stations were distributed on the main streams and tributaries of the various drainage systems through the County as follows:

Drainage Area	No. of Stations
Los Angeles River	23
San Gabriel River	20
Rio Hondo	16
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 II , page 30.

°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.

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	18	Continuous
°H.C.F.	33	Continuous
Stevens (Type A)	2	Continuous
Stevens (Type L)	6	Weekly or daily
Rational (horizontal)	6	Weekly
Rational (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.

(2.) Lists of measurements for all actual meter measurements together with observed water stage, areas of cross-section, and mean velocities. These lists include 2,747 measurements taken by the District

°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.

during 1943-44 at 67 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 229 such measurements were taken. The U.S.G.S., in turn, publishes the records of 23 District stations in their Water Supply Papers for Pacific Slope Basins in California.

VI. Staff Gage Station Measurements

Records of 669 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 22 years is included on page 176.

VII. Miscellaneous Station Measurements

In various drainage areas throughout the County 409 miscellaneous measurements were taken. These data were collected for specific purposes and are insufficient to determine mean daily flow. They are grouped by drainage areas.

VIII. Percolation Data

Two 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 assited by E. K. DeVore and E. W. Godfrey.
1B & 3	T. E. Moon assisted by P. A. Haig, F. H. Mellen, and R. A. Waddicor.
2	C. L. Brewster assisted by Floyd Smith.
4	E. S. Bonadiman assisted by G. L. Walton.
5A & 5B	C. E. Bollinger assisted by G. Eckert.
6	L. J. Turner assisted by R. D. Belt.
8	S. E. Blakely assisted by M. V. Pardieck.
7, 9, & 10	J. W. Luce assisted by E. T. Hemphill.

The compilation of the records was performed under the immediate supervision of R. E. Lindsay 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 station. The letters used have the following connotations:

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

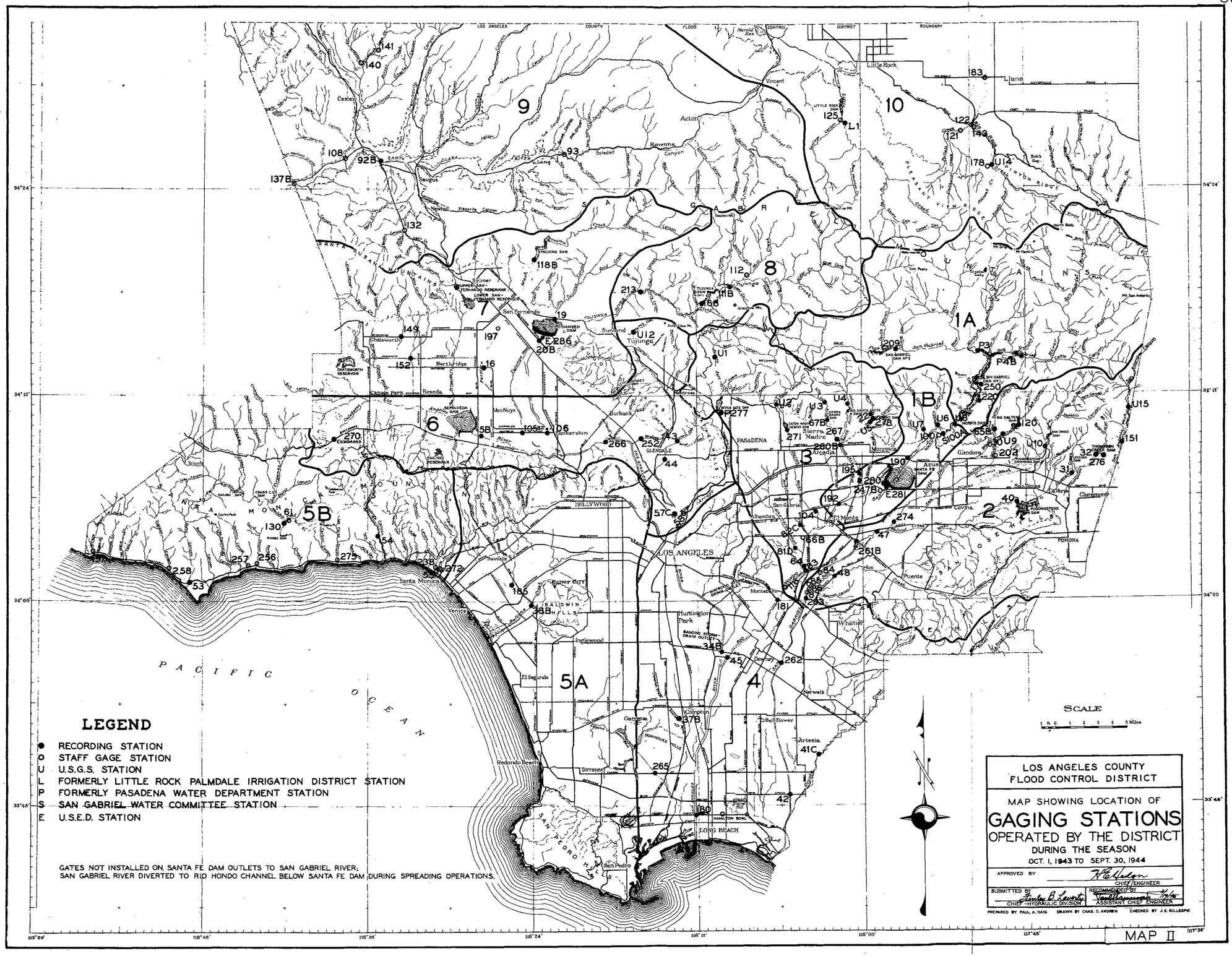
The legend used in plotting the hydrographs has the following significance:

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" indicates a 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.

SCALE

0 1 2 3 4 5 Miles

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

MAP SHOWING LOCATION OF

GAGING STATIONS

OPERATED BY THE DISTRICT
DURING THE SEASON
OCT. 1, 1943 TO SEPT. 30, 1944

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 II

STATION F81D-R

ALHAMBRA WASH near Short Street

LOCATION:

Water-stage recorder, lat. 34°03'22", long. 118°05'11", on the left (east) side of channel about 250 feet above Short Street and 2650 feet below Garvey Avenue. Elevation of zero gage height 243.74 ft.

Abandoned stations F81-R, 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, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

At station F81-R:
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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,860 second-feet February 22.
Minimum + flow at flow at various times.
1929-1944 (Stations F81-R, F81B-R, F81D-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.

P. C. Dis. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

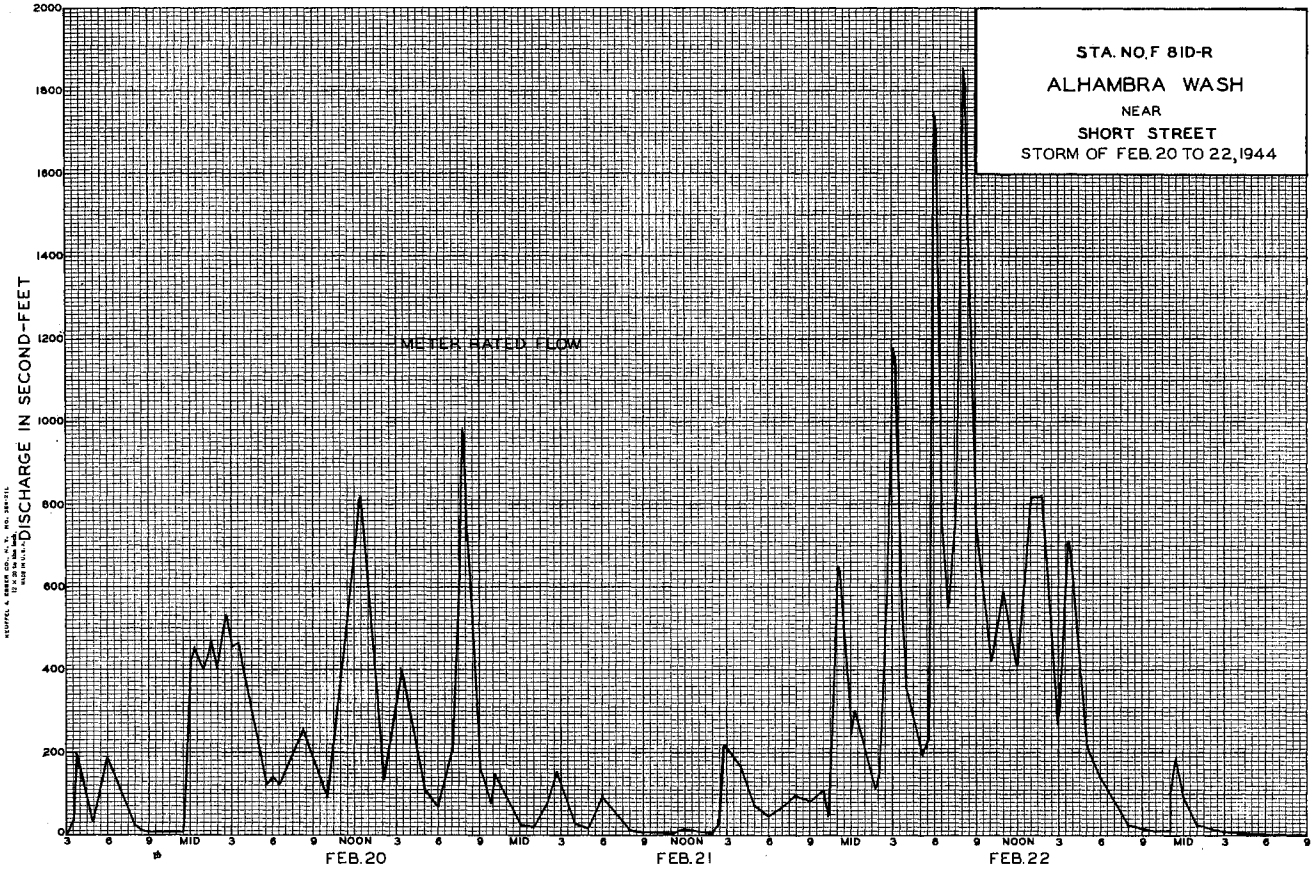
Sta. No. F81D-R

Daily discharge, in second-feet of ALHAMBRA WASH near Short Street, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.6	0.2	0.4	0.3	162	0.4	0.4	0.6	a 0.1	a 0.1	a 0.1
2	+	0.9	0.2	0.6	0.3	90	0.3	0.4	0.6	a 0.1	a 0.1	a 0.1
3	+	1.1	0.3	0.9	11	2.8	0.3	0.4	0.6	a 0.1	a 0.1	a 0.1
4	+	1.1	0.2	0.3	6.5	48	0.4	0.3	0.3	a 0.1	a 0.1	a 0.1
5	+	1.1	0.4	8.5	0.3	4.6	0.4	0.2	0.2	a 0.1	a 0.1	a 0.1
6	+	0.6	34	18	0.2	0.6	0.4	0.2	0.3	a 0.1	a 0.1	a 0.1
7	+	0.3	0.1	0.2	0.2	0.4	0.4	0.3	0.4	a 0.1	a 0.1	a 0.1
8	+	0.3	0.3	0.1	11	0.4	0.4	0.4	a 0.1	a 0.1	a 0.1	a 0.1
9	+	0.3	0.1	0.1	0.6	0.4	0.3	0.4	a 0.1	a 0.1	a 0.1	a 0.1
10	+	0.4	113	0.1	0.2	0.4	0.2	0.4	a 0.1	a 0.1	a 0.1	a 0.1
11	+	0.1	51	0.1	0.2	0.4	0.2	0.4	a 0.1	a 0.1	a 0.1	a 0.1
12	+	0.2	1.1	0.1	0.1	0.4	0.2	0.4	a 0.1	a 0.1	a 0.1	0.4
13	+	0.2	0.4	0.1	0.1	0.4	0.2	0.4	a 0.1	a 0.1	a 0.1	0.9
14	+	0.2	0.4	0.1	0.1	0.6	0.2	0.4	a 0.1	a 0.1	a 0.1	0.9
15	0.6	0.2	0.3	0.1	15	0.4	0.2	0.4	a 0.1	a 0.1	a 0.1	0.6
16	0.3	0.2	0.2	0.1	0.3	0.4	0.2	0.4	a 0.1	a 0.1	a 0.1	0.3
17	0.3	0.4	0.2	0.1	13	0.4	0.2	0.4	a 0.1	a 0.1	a 0.1	0.3
18	10	0.6	57	0.1	0.3	0.4	0.3	0.4	a 0.1	a 0.1	a 0.1	0.3
19	0.1	0.6	111	0.2	27	0.4	0.4	0.4	a 0.1	a 0.1	a 0.1	0.3
20	0.2	0.2	88	0.1	297	0.3	0.4	0.4	a 0.1	a 0.1	a 0.1	0.3
21	0.3	0.2	5.5	0.2	83	0.3	0.3	0.4	a 0.1	a 0.1	a 0.1	0.3
22	0.4	0.2	0.2	0.4	454	0.3	0.3	0.4	a 0.1	a 0.1	a 0.1	0.3
23	0.1	0.4	0.1	7.5	12	0.3	0.4	0.4	a 0.1	a 0.1	a 0.1	0.2
24	0.1	0.4	0.1	7.5	1.8	0.3	0.3	0.4	a 0.1	a 0.1	a 0.1	0.2
25	0.3	0.2	0.1	0.9	0.4	0.3	0.4	0.4	a 0.1	a 0.1	a 0.1	0.2
26	0.4	0.1	+	0.9	21	0.3	8	0.4	a 0.1	a 0.1	a 0.1	0.2
27	0.6	0.1	+	0.6	1.6	0.4	86	0.3	a 0.1	a 0.1	a 0.1	0.2
28	0.6	0.1	20	0.4	0.4	0.4	1.8	0.3	a 0.1	a 0.1	a 0.1	0.2
29	1.1	0.1	43	0.4	0.4	0.3	0.4	0.3	a 0.1	a 0.1	a 0.1	+
30	0.4	0.1	53	0.4		0.3	0.4	0.4	a 0.1	a 0.1	a 0.1	+
31	0.4		1.4	0.3		0.4		0.4		a 0.1	a 0.1	
	162	115	5818	498	9583	3173	1043	115	53	31	31	72
MEAN	0.52	0.38	18.8	1.61	33.0	10.2	3.48	0.37	0.18	0.10	0.30	0.24
ACRE-FEET	32	23	1150	99	1900.	629.	207.	23	11	6.1	6.1	14.3

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

YEAR OR PERIOD MEAN 5.65
ACRE-FEET 4100.



STATION F152-R

ALISO WASH at Nordhoff Street

LOCATION:

Water-stage recorder, lat. 34°14'08", long. 118°32'52", on the right (west) abutment of the highway bridge at Nordhoff Street about one mile northwest of Northridge and 3600 feet west of Reseda Avenue. Elevation of gage, about 823 feet (from topographic map).

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, 1943 to September 30, 1944.

REGULATION AND/ OR DIVERSIONS:

None.

RECORDS AVAILABLE:

November 3, 1939 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,600 second-feet, February 22.
Minimum no flow most of year.
1939-1944
Maximum discharge not determined.
Maximum 1,750 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 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F152-R

DISCHARGE MEASUREMENTS OF ALISO CREEK

AT ~~NO.~~ Nordoff Street 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	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
74	12-10	440P	444P	Luce	2.5	0.35	0.88	1.76	0.31		.6	4	0	F039
75	12-20	1240P	1245P	"	2.5	0.17	0.53	1.68	0.09		.6	4	0	"
76	2-20	250P	255P	Luce & Hemphill	14.0	7.36	4.26	1.91	3.13		.6	8	+.02	"
77	2-21	945A	950A	"	13.5	3.99	3.62	1.80	14.4		.6	7	0	"
78	2-21	155P	200P	"	13.5	10.8	6.21	2.34	67.0		.6	8	+.02	"
79	2-22	1040A	1053A	"	18.5	15.8	5.18	1.24	81.7		.6	10	0	"
80	2-22	600P	605P	"	16.8	10.6	4.79	1.29	50.8		.6	9	-.02	"
81	2-25	413P	415P	"	1.5	0.11	1.09	1.11	0.12		.6	3	0	"
82	3-2	150P	155P	"	15.5	4.99	2.95	1.24	14.7		.6	8	0	"
83	3-7	1015A	1020A	Luce	3.1	0.42	2.79	1.46	1.17		.6	5	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

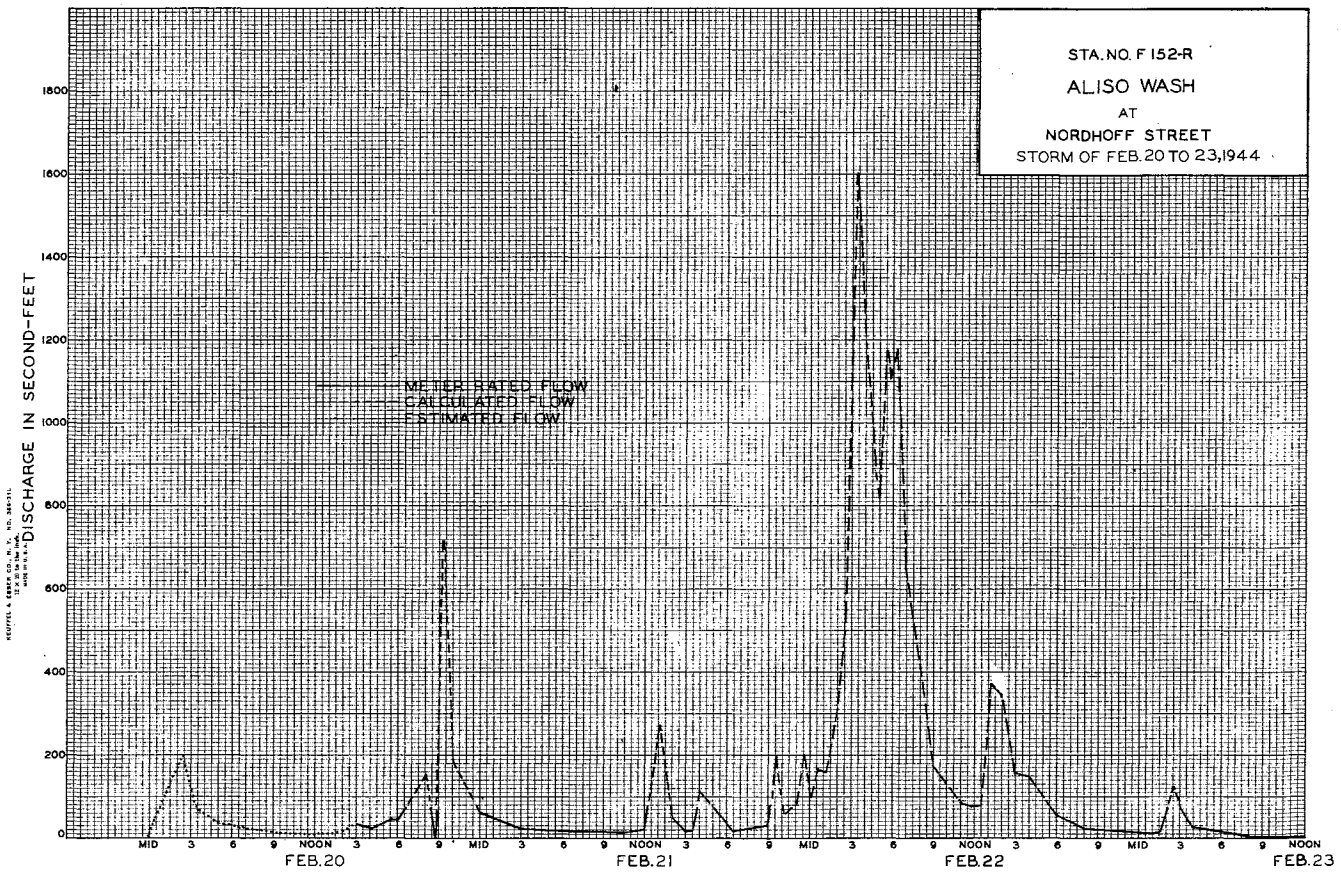
Sta. No. F152-R

Daily discharge, in second-feet of ALISO WASH at Nordhoff Street, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	a 12	0	0	0	+	a 0	a 0
2	0	0	0	0	0	52	0	0	0	+	a 0	a 0
3	0	0	0	0	+	10	0	0	0	0	a 0	a 0
4	0	0	0	0	0	35	0	0	0	+	a 0	a 0
5	0	0	0	0	0	1.7	+	0	0	+	a 0	a 0
6	0	0	0	0	0	12	0.1	0	0	+	a 0	a 0
7	0	0	0	0	0	12	0.3	0	0	+	a 0	a 0
8	0	0	0	0	0	+	+	0	+	+	a 0	a 0
9	0	0	0	0	0	+	0	0	+	+	a 0	a 0
10	0	0	0.3	0	0	+	0	0	0	+	a 0	a 0
11	0	0	0.7	0	0	+	0	+	0	+	a 0	a 0
12	0	0	0	0	0	+	0	0.4	+	+	a 0	a 0
13	0	0	0	0	0	+	0	1.1	0	+	a 0	a 0
14	0	0	0	0	0	0	0	0	0.1	+	a 0	a 0
15	0	0	0	0	0	0	0	+	+	+	a 0	a 0
16	0	0	0	0	0	0	0	0	0	+	a 0	a 0
17	0	0	0	0	0	0	0	0	0	+	a 0	a 0
18	0	0	0.1	0	0	0	0	0	0	+	a 0	a 0
19	0	0	0	0	+	0	0	0	0	+	a 0	a 0
20	0	0	2.3	0	f 74	0	0	0	0	+	a 0	a 0
21	0	0	0.6	0	f 52	0	0	0	0	+	a 0	a 0
22	0	0	0	0	326	0	0	+	0	+	a 0	a 0
23	0	0	0	0	12	0	0	+	+	+	a 0	a 0
24	0	0	0	0	b 0.2	0	0	+	+	+	a 0	a 0
25	0	0	0	0	b 0.2	0	0	+	+	0	a 0	a 0
26	0	0	0	0	0.5	0	0.2	+	+	+	a 0	a 0
27	0	0	0	0	+	0	8	+	0	+	a 0	a 0
28	0	0	f 0.4	0	0.1	0	0	+	0	+	a 0	a 0
29	0	0	a 0.9	0	0.1	0	0	+	0	a 0	a 0	a 0
30	0	0	0.3	0		0	0	+	0	a 0	a 0	a 0
31	0		+	0		0		+		a 0	a 0	
	0		26.3		465.1		8.6		0.1	+	0	
		0		0		113.1		1.5				0
MEAN	0	0	0.85	0	16.0	3.65	0.29	+	+	+	0	0
ACRE-FEET	0	0	52.	0	923.	224.	17.	3.0	0.2	+	0	0

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

YEAR OR PERIOD — MEAN 1.68 — ACRE-FEET 1220.



STATION U1-R

ARROYO SECO above Mouth of Canyon

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°13'20", long. 118°10'40", near north line of sec. 31, T. 2 N., R. 12 W., 1.5 miles upstream from Millard Canyon and 5.5 miles northwest of Pasadena. Altitude of gage, about 1,400 feet.

DRAINAGE AREA:

16.4 square miles.

RECORDS AVAILABLE:

December 1910 to September 1944.

AVERAGE DISCHARGE:

30 years (1913-15, 1916-44) 11.0 second-feet.

EXTREMES:

1943-1944
Maximum discharge during year, 1,800 second-feet Feb. 22 (gage height, 9.00 feet); minimum daily, 2.0 second-feet on days in October, November, and August.

1910-44:
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:

Records furnished by the United States Geological Survey, with the exception of 21 measurements furnished by the Los Angeles Flood Control District in cooperation with the United States Geological Survey.

F.C.D. FORM 104 SM 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U1-R

DISCHARGE MEASUREMENTS OF ARROYO SECO

~~at~~ above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19~~44~~

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.
1412	10-5		U.S.G.S.	4.8	2.7	.67	4.71	1.8		.6	11	0	
1413	10-8	315P / 321P	Moon	4.9	2.7	.70	4.72	1.9		.6	6	0	FC22
1414	10-15	300P / 305P	"	4.8	2.8	.71	4.72	2.0		.6	5	0	"
1415	10-20		U.S.G.S.	5.0	3.2	.88	4.78	2.8		.6	10	0	
1416	10-22	334P / 339P	Moon	4.8	2.9	.86	4.77	2.5		.6	5	0	FC22
1417	11-5		U.S.G.S.	5.0	3.1	.74	4.75	2.3		.6	10	0	
1418	11-5	225P / 230P	Moon	4.9	3.0	.77	4.75	2.3		.6	5		FC22
1419	11-17		U.S.G.S.	5.0	3.1	.81	4.76	2.5		.6	10	0	
1420	11-19	350P / 355P	Moon	4.8	3.1	.81	4.78	2.5		.6	5	0	FC22
1421	11-23		U.S.G.S.	5.5	3.1	.77	4.77	2.4		.6	10	0	
1422	12-2		"	5.0	3.1	.81	4.76	2.5		.6	10	0	
1423	12-3	315P / 320P	Moon	4.8	3.0	.80	4.76	2.4		.6	5	0	FC22
1424	12-11		U.S.G.S.	21.2	20.0	2.55	5.92	51		.6	21	.02	
1425	12-16		"	12	5.9	.83	4.77	4.9		.6	12	0	
1426	12-17	212P / 222P	Moon	Channels			4.77	4.5		.6	10	0	FC22
1427	12-24		U.S.G.S.	12.2	8.8	1.40	5.09	12.3		.6	12	0	
1428	12-30	1105A / 1118A	Moon	12	8.8	1.39	5.09	12.2		.6	9	0	FC22
1429	1-4		U.S.G.S.	11.7	8.0	1.16	1.97	9.3		.6	23	0	
1430	1-11		U.S.G.S.	11.5	7.1	1.06	4.87	7.5		.6	12	0	
1431	1-14	255P / 306P	Moon	11.5	7.0	.96	4.86	6.7		.6	10	0	FC22
1432	1-18		U.S.G.S.	11.5	6.8	.83	4.82	5.5		.6	23	0	
1433	1-21	852A / 900A	Moon	11.1	7.0	.80	4.82	5.6		.6	8	0	FC22
1434	1-26		U.S.G.S.	11.5	6.7	0.82	4.83	5.5		.6	12	0	
1435	1-28	248P / 259P	Moon	11.2	6.9	0.88	4.84	6.1		.6	11	0	FC22
1436	2-2		U.S.G.S.	11.5	6.6	0.88	4.86	5.8		.6	12	0	
1437	2-4	215P / 230P	Moon	11.3	8.4	1.10	5.01	9.2		.6	11	0	FC22
1438	2-8		U.S.G.S.	12	8.6	1.05	5.06	9.0		.6	12	+.02	
1439	2-9	430P / 444P	Moon	11.5	9.3	1.46	5.18	13.6		.6	12	0	FC22
1440	2-15		U.S.G.S.	3.1	1.6	4.12	4.97	6.6		.6	6	0	
1441	2-18	312P / 325P	Moon	11.3	7.5	0.85	4.95	6.4		.6	11	0	FC22
1442	2-20		U.S.G.S.	33	36.5	2.55	6.24	93		.6	21	+.02	
1443	2-21		Moon	32	31.8	2.20	6.10	70		.6	22	0	FC22
1444	2-25		U.S.G.S.	37	40.1	1.95	6.30	78		.6	15		
1445	3-2		"	43.5	61.4	3.58	7.19	220		.6	29	0	
1446	3-4		"	40	46.6	2.36	6.58	110		.6	17	-.01	
1447	3-8		"	36	37.4	2.25	6.41	84		.6	19	0	
1448	3-17		"	36	32.0	1.91	6.13	61		.6	18	0	
1449	3-21		"	32	28.2	1.69	5.88	47.6		.6	17		
1450	3-28		"	30	24.1	1.54	5.65	37.2		.6	30	0	
1451	4-4		"	30	22.2	1.42	5.48	31.5		.6	30	0	
1452	4-11		"	18	15.8	1.29	5.42	20.4		.6	18	0	
1453	4-18		"	17	14.2	1.17	5.37	16.6		.6	17	0	
1454	4-21	240P / 255P	Moon	17	14.9	1.17	5.39	17.4		.6	12	0	FC22
1455	4-25		U.S.G.S.	16.5	13.5	1.01	5.37	13.6		.6	16	0	
1456	5-2		"	16.5	13.4	1.01	5.36	13.5		.6	16	0	
1457	5-5	345P / 355P	Moon	10.0	11.4	1.18	5.25	13.4		.6	9	0	FC22
1458	5-9		U.S.G.S.	16	12.4	0.92	5.23	11.4		.6	16	0	
1459	5-16		"	16	11.8	0.79	5.04	9.3		.6	16	0	
1460	5-23		"	14	11.0	0.91	5.03	10.0		.6	14	0	
1461	5-26	245P / 255P	Moon	11	11.0	1.10	5.03	12.1		.6	8	0	FC22
1462	5-30		U.S.G.S.	14	10.5	0.68	5.02	7.1		.6	14	0	
1463	6-2	315P / 320P	Moon	14.2	11.3	0.92	5.07	10.4		.6	9	0	
1464	6-6		U.S.G.S.	10	8.8	0.91	5.01	8.0		.6	10	0	
1465	6-13		"	10	8.9	0.79	5.03	7.0		.6	10	0	
1466	6-16	330P / 340P	Moon				5.04	8.1					FC22
1467	6-20		U.S.G.S.	9.4	8.6	0.72	4.98	6.2		.6	9	0	
1468	6-23	833A / 843A	Haig				4.98	7.4					FC35
1469	6-27		U.S.G.S.	10	8.8	0.65	4.98	5.7		.6	10	0	
1470	7-7	255P / 305P	Moon				4.99	5.4					FC22
1471	7-11		U.S.G.S.	9.0	7.2	0.58	4.89	4.2		.6	9	0	
1472	7-18		"	6.0	2.4	1.50	4.83	3.6		.6	12	0	
1473	7-25		"	6.0	2.4	1.38	4.80	3.3		.6	12	0	
1474	8-8		"	6.0	2.1	1.19	4.74	2.5		.6	12	0	
1475	8-17		"	6.0	2.3	1.22	4.75	2.8		.6	12	0	
1476	8-25		"	5.0	1.8	1.33	4.75	2.4		.6	10	0	
1477	8-30		"	5.0	1.8	1.1	4.73	2.0		.6	10	0	
1478	9-12		"	5.0	1.7	1.29	4.72	2.2		.6	10	0	
1479	9-19		"	5.0	1.9	1.37	4.71	2.6		.6	10		

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U1-R

Daily discharge, in second-feet of ARROYO SECO above Mouth of Canyon, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.1	2.6	2.6	13	6	93	33	14	9	4.4	3.3	2.1
2	2.1	2.4	2.6	12	6	331	32	13	10	4.2	3.1	2.2
3	2.1	2.6	2.4	11	6.5	152	31	13	9.5	4.0	2.9	2.4
4	2.0	2.2	2.4	9.5	9	118	31	13	9	3.8	2.7	2.4
5	2.0	2.2	2.6	8.5	7.5	138	30	14	8.5	3.6	2.7	2.4
6	2.0	2.2	3.4	12	7	111	28	13	8	3.4	2.6	2.2
7	2.1	2.1	3.3	9	6.5	98	27	12	8	3.4	2.6	2.2
8	2.1	2.0	3.1	8	13	89	26	12	8	3.8	2.6	2.2
9	2.2	2.0	2.9	7.5	18	86	23	11	8.5	4.0	2.6	2.2
10	2.1	2.1	2.2	7.5	10	88	22	11	8	4.2	2.6	2.2
11	2.1	2.1	38	7.5	8	88	20	10	7.5	4.2	2.6	2.2
12	2.2	2.2	15	7	7	86	20	10	7	4.2	2.6	2.2
13	2.1	2.2	9	7	7	85	20	9.5	7	4.2	2.6	2.4
14	2.1	2.4	6.5	7	6.5	84	19	9.5	7	4.2	2.6	2.6
15	2.0	2.4	5.5	6.5	6.5	74	18	9.5	7.5	4.2	2.6	2.6
16	2.0	2.4	5	6	6.5	66	18	9.5	8	4.0	2.7	2.6
17	2.0	2.4	4.4	6	6.5	60	17	9	7.5	3.8	2.7	2.6
18	2.4	2.4	12	5.5	7	55	17	9.5	7	3.6	2.7	2.6
19	2.9	2.6	29	5.5	9	54	17	9.5	6.5	3.4	2.7	2.6
20	2.7	2.7	41	5.5	72	50	18	9.5	6	3.3	2.7	2.2
21	2.7	2.7	62	5.5	118	47	18	9.5	6.5	3.1	2.7	2.4
22	2.7	2.7	20	5.5	1140	45	17	10	7	3.1	2.7	2.4
23	2.6	2.6	15	6	329	44	16	10	7.5	3.1	2.6	2.4
24	2.6	2.4	12	7	134	43	15	11	7	3.3	2.4	2.4
25	2.4	2.4	9.5	6	84	42	14	11	7	3.3	2.4	2.4
26	2.2	2.4	8	6	68	41	14	12	6.5	3.3	2.6	2.4
27	2.4	2.4	7	6	61	39	22	10	6	3.3	2.4	2.4
28	2.6	2.2	9	6	51	37	20	9	5.5	3.3	2.1	2.4
29	2.7	2.2	13	6	49	36	16	7.5	4.8	3.4	2.0	2.4
30	2.9	2.2	15	6		35	15	7	4.4	3.4	2.0	2.4
31	2.7		16	6		34		8		3.4	2.0	
	71.8	70.4	399.2	227.5	2259.5	2449	634	326.5	219.7	113.9	80.1	71.1
MEAN	2.32	2.35	12.9	7.34	77.9	79.0	21.1	10.5	7.32	3.67	2.58	2.37
ACRE-FEET	142.	140.	792.	451.	4,480.	4,860.	1,260.	648.	436.	226.	159.	141.

Remarks:

YEAR OR PERIOD — MEAN 18.9 — ACRE-FEET 13,740.

STATION P277-R

ARROYO SECO below Devils Gate Dam

LOCATION:

Water-stage recorder, lat. 34°10'48", long. 118°10'19", 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. Elevation of gage, about 926 feet.

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 October 1, 1943, to September 30, 1944.

REGULATIONS:

Flow regulated by Devils 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 Devil's Gate Dam and station from Pasadena Water Department tunnel.

RECORDS AVAILABLE:

November 30, 1942, to September 30, 1944. For records prior to November 30, 1942, see Pasadena Water Department.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1540 second-feet, February 20.
Minimum no flow several times.
1942-1944
Maximum 5640 second-feet, January 23, 1944.
Minimum no flow.

ACCURACY:

Good.

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 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P277-R

DISCHARGE MEASUREMENTS OF ARROYO SECO

~~XXXX~~ below Devils Gate 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.
73	10-1	300P / 306P	Moon	8.5	3.4	1.05	0.15	3.6		.6	6	0	FC 22
74	10-8	203P / 207P	"	3.5	0.61	1.18	0.07	0.72		.6	4	0	"
75	10-15	140P / 142P	"	2.0	0.10	0.40	0.05	0.04			3	0	"
76	12-20	1125A / 1136A	Moon-Stunden	18.0	4.16	8.20	0.51	30.0		.6	9	0	"
77	12-21	1212P / 1230P	Moon	25.0	7.46	10.04	0.83	63.8		.6	12	0	"
78	12-22	845A / 900A	"	28.0	37.6	2.88	1.12	108.		.6	13	-.01	"
79	12-30	1002A / 1003A	"	1.0	0.06	0.67	0.12	0.04		.6	2	0	"
80	1-28	155P / 156P	"	1.3	0.10	1.00	0.05	0.10		.6	2	0	"
81	2-4	104P / 105P	"	3.0	0.09	0.89	0.06	0.08		.6	2	0	"
82	2-9	347P / 348P	"	1.4	0.14	0.86	0.06	0.12		.6	2	0	"
83	2-20	957P / 1013P	Haig-Kasimoff	18.0	4.08	9.09	0.52	31.5		.6	9	0	FC 35
84	2-21	1220A / 110A	" "	31.0	137.	11.8	1.37	160.		.6	11	0	Pitot
85	2-21	312P / 321P	Moon-Stunden	23.5	7.18	10.4	0.83	63.4		.6	12	0	FC 22
86	2-22	1142A / 1145A	" "	50.0	50.0	16.0	2.56	847.	Float		4	0	-
87	2-22	712P / 715P	" "	50.0	60.0	20.3	2.87	1300.		"	4	0	-
88	2-23	332P / 335P	" "	50.0	40.0	13.0	2.05	506.		"	4	0	-
89	2-24	320P / 336P	" "	28.0	11.3	12.5	1.12	120.		.6	13	0	FC 22
90	2-29	1107A / 1130A	Moon	13.0	17.2	1.57	0.45	27.0		.6	10	0	"
91	3-2	1100A / 1103A	Moon-Stunden	50.0	22.0	8.0	1.36	205.	Float		4	0	-
92	3-3	1015A / 1018A	" "	50.0	29.0	10.4	1.62	302.		"	4	0	-
93	3-5	136P / 210P	Haig Moon-Stunden	22.0	6.98	10.5	0.89	73.1		.6	11	0	Pitot
94	3-5	227P / 240P	Moon	23.5	8.00	10.8	0.90	73.6	Float	.6	11	0	FC 22
95	3-5	454P / 503P	Moon-Stunden	19.0	32.7	2.26	0.90	73.8		.6	9	0	"
96	3-9	1019A / 1027A	Moon	14.2	8.57	5.74	0.69	49.2		.6	8	0	FC 22
97	3-23	1215P / 1220P	"	8.0	0.88	3.50	0.08	3.1	Surf.		4	0	"
98	3-31	100P / 105P	"	Two Channels			0.10	2.6		.6	5	0	"
99	4-6	1220P / 1225P	"	"	"		0.11	2.5		.6	5	0	"
100	4-14	304P / 310P	"	"	"		0.11	2.6		.6	6	0	"
101	4-21	120P / 125P	"	"	"		0.12	3.0	.6 weir		6	0	"
102	4-28	250P / 257P	"	"	"		0.11	2.8		.5	6	0	"
103	5-5	205P / 210P	"	"	"		0.10	2.8		.5	4	0	"
104	5-20	248P / 253P	"	"	"		0.10	2.8		.6	5	0	"
105	5-26	145P / 150P	"	"	"		0.12	2.9		.6	4	0	"
106	6-2	215P / 225P	"	"	"		0.13	2.6		.6	6	0	"
107	6-16	240P / 245P	"	"	"		0.10	2.0		.6	5	0	"
108	6-23	1025A / 1030A	Haig	8.0	1.20	1.08	0.10	1.3		.5	7	0	FC 35
108A	7-7	140P / 150P	Moon	Two Channels			0.11	1.3		.6	4	0	FC 22
109	7-12	956A / 1010A	Blakely	11.5	7.35	1.20	0.19	8.8		.6	11	0	FC 32
110	7-12	1249P / 102P	"	14.0	14.2	2.10	0.68	29.8		.6	11	0	"
111	7-13	155P / 200P	Moon	Two Channels			0.10	1.4		.6	3	-.01	FC 22
112	7-20	305P / 310P	"	"	"		0.07	1.4		.6	4	0	"
113	7-27	350P /	"	"	"		0.06	1.1	Weir			0	
114	8-3	340P / 342P	"	"	"		0.12	1.1		.6	2	0	FC 22
115	8-10	300P /	"				0.16	0.75	Weir			0	
116	8-17	305P /	"				0.14	0.73	"			0	
117	8-24	320P	Moon				0.10	0.69	Weir			0	
118	8-31	345P	"				0.08	0.63	"			0	
119	9-6	330P	"				0.10	0.62	"			0	
120	9-14	300P	Moon & Stunden				0.08	0.59	"			0	
121	9-21	245P	Moon				0.09	0.59	"			0	
122	9-28	440P	"				0.09	0.57	"			0	

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P277-R

Daily discharge, in second-feet of ARROYO SECO below Devils Gate Dam, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.8	0	0	+	0.1	16	2.6	2.8	2.7	1.3	1.1	0.6
2	3.8	0	0	+	0.1	163	2.6	2.8	2.6	1.3	1.1	0.6
3	3.8	0	0	+	0.1	236	2.6	2.8	2.6	1.3	1.1	0.6
4	3.8	0	0	+	0.1	143	2.5	2.8	2.6	1.3	1.1	0.6
5	3.8	0	0	+	0.1	98	2.5	2.8	2.5	1.3	1.0	0.6
6	3.8	0	0	+	0.1	51	2.5	2.8	2.5	1.3	1.0	0.6
7	3.8	0	0	+	0.1	b 1.0	2.5	2.8	2.4	1.3	0.9	0.6
8	2.3	0	0	+	0.1	26	2.5	2.8	2.4	1.3	0.9	0.6
9	0.1	0	0	+	0.1	73	2.5	2.8	2.3	1.3	0.8	0.6
10	+	0	+	+	0.1	103	2.5	2.8	2.3	1.4	0.8	0.6
11	0.1	0	+	+	0.1	101	2.5	2.8	2.2	1.4	0.8	0.6
12	+	0	+	+	0.1	100	2.5	2.8	2.2	1.5	0.8	0.6
13	+	0	+	+	0.1	35	2.6	2.8	2.1	1.4	0.8	0.6
14	0.1	0	+	+	0.1	b 3.1	2.6	2.8	2.1	1.4	0.7	0.6
15	0.1	0	+	b 0.1	0.1	b 3.1	2.6	2.8	2.0	1.4	0.7	0.6
16	+	0	+	b 0.1	0.1	b 3.1	2.6	2.8	2.0	1.4	0.7	0.6
17	+	0	+	b 0.1	0.1	b 3.1	2.6	2.8	1.9	1.4	0.7	0.6
18	0.7	0	+	b 0.1	0.1	b 3.1	2.7	2.8	1.8	1.4	0.7	0.6
19	0.2	0	+	b 0.1	0.1	b 3.1	2.8	2.8	1.7	1.4	0.7	0.6
20	+	0	1.3	b 0.1	1.4	b 3.1	2.9	2.8	1.6	1.4	0.7	0.6
21	+	0	6.5	b 0.1	106	b 3.1	3.0	2.8	1.5	1.4	0.7	0.6
22	0	0	10.6	b 0.1	965	b 3.1	3.0	2.8	1.4	1.3	0.7	0.6
23	0	0	1.5	b 0.1	842	b 3.1	3.0	2.8	1.3	1.3	0.7	0.6
24	0	0	0.2	b 0.1	159	3.1	2.9	2.9	1.3	1.2	0.7	0.6
25	0	0	+	b 0.1	108	3.1	2.9	2.9	1.3	1.2	0.7	0.6
26	0	0	+	b 0.1	106	3.0	2.8	2.9	1.3	1.1	0.7	0.6
27	0	0	+	b 0.1	72	2.9	2.8	2.8	1.3	1.1	0.7	0.6
28	0	0	+	b 0.1	27	2.8	2.8	2.8	1.3	1.1	0.6	0.6
29	0	0	+	b 0.1	27	2.7	2.8	2.8	1.3	1.1	0.6	0.6
30	0	0	+	b 0.1		2.6	2.8	2.7	1.3	1.1	0.6	0.6
31	0			b 0.1		2.6		2.7		1.1	0.6	
	302	0	199.2	1.7	2427.9	1199.8	80.5	86.9	57.8	66.3	24.4	18.0
MEAN	0.97	0	6.43	0.05	83.7	38.7	2.68	2.80	1.93	2.14	0.79	0.60
ACRE-FEET	6.0	0	395.	3.4	4820	2380.	160.	172.	115.	132.	48.	36.

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

YEAR OR PERIOD MEAN 11.5 ACRE-FEET 8270.

STATION F38B-R

BALLONA CREEK at Sawtelle Boulevard

LOCATION:

Water-stage recorder, lat. 33°59'48", long.118°24'07", on the downstream side of Sawtelle Boulevard bridge, about 1.5 miles South of Culver City. Elevation of zero gage height, 11.40 feet. Former station F38-R 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 F38-R 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 Au continuous recorder was in service from October 1, 1943 to September 30, 1944.

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 F38-R
February 27, 1928 to April 27, 1936.
At station F38B-R
May 14, 1936 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 8,800 second-feet, February 22.
Minimum 0.4 second-feet, October 8.
1928-1944 (Stations F38-R and F38B-R)
Maximum 19,000 second-feet, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.
Flows occasionally estimated due to clock failure, or obstructed communication.

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 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F38B-R

DISCHARGE MEASUREMENTS OF BALLONA CREEK

AT ~~XXX~~ Sawtelle Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 44

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC.FT.	BAT-IND	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
726	10-1	903A / 910A	Bollinger	9.3	5.55	0.76	0.91	4.2		.6	8	0	FC 6
727	10-8	925A / 933A	"	9.5	5.75	0.77	0.89	4.4		.6	7	0	"
728	10-14	910A / 917A	"	9.0	5.27	0.83	0.91	4.4		.6	9	0	"
729	10-22	930A / 940A	"	10.6	5.19	0.79	0.84	4.1		.6	8	+.01	"
730	10-28	935A / 944A	"	9.7	5.42	0.92	0.93	5.0		.6	9	0	"
731	11-4	1000A / 1007A	"	9.5	5.35	0.95	0.87	5.1		.6	6	0	"
732	11-10	120P / 128P	"	10.0	4.56	0.75	0.74	3.4		.6	8	0	"
733	11-17	415P / 443P	"	40.0	67.5	1.47	2.42	99.2		.6	8	-.05	"
734	11-18	920A / 940A	"	46.0	53.4	0.72	1.72	38.6		.6	14	-.03	"
735	11-26	1005A / 1013A	"	14.0	6.35	0.65	0.80	4.1		.6	9	0	"
736	12-3	1010A / 1018A	"	11.0	5.80	0.95	0.88	5.5		.6	8	0	"
737	12-10	308P / 330P	"	60.0	207.	3.44	4.32	712.		.6	8	-.95	"
738	12-11	307P / 320P	Bollinger-Eckert	46.5	42.5	1.20	1.65	51.1		.6	17	-.04	"
739	12-14	252P / 302P	Bollinger	11.3	4.95	1.56	1.20	7.7		.6	9	+.03	"
740	12-17	1035A / 1042A	"	12.5	5.53	1.23	1.14	6.8		.6	8	+.03	"
741	12-18	137P / 150P	Bollinger & Eckert	33.5	60.9	1.54	1.92	94.		.6	14	-.03	"
742	12-18	334P / 342P	" "	47.0	85.2	2.29	2.54	195.		.6	11	-.09	"
743	12-19	443P / 500P	Bollinger & Robinson	50.0	101.	1.86	2.44	188.		.6	9	-.17	"
744	12-20	330P / 347P	Bollinger	46.0	53.0	1.62	1.91	86.		.6	16	-.10	"
745	12-22	1150A / 1200N	"	17.2	9.35	1.39	1.12	13.		.6	11	+.01	"
746	12-29	325P / 338P	"	47.0	41.3	1.38	1.59	54.5		.6	13	-.03	"
747	12-29	345P / 400P	"	46.5	38.0	1.27	1.54	48.2		.6	12	-.03	"
748	12-30	307P / 327P	"	61.0	218.	3.77	4.55	821.		.6	11	+.16	"
749	12-31	956A / 1008A	Bollinger	15.5	9.60	1.31	1.22	12.6		.6	10	+.01	FC 6
750	1-6	1005A / 1017A	"	16.0	11.6	1.60	1.20	18.6		.6	11	-.01	"
751	1-7	955A / 1005A	"	12.3	4.98	1.10	0.99	5.5		.6	8	0	"
752	1-14	956A / 1007A	"	14.2	5.01	0.98	0.96	4.9		.6	9	0	"
753	1-21	319P / 327P	"	8.9	4.26	1.27	0.98	5.4		.6	8	+.02	"
754	1-28	1034A / 1044A	"	16.5	7.40	0.62	0.92	4.6		.6	8	0	"
755	2-4	945A / 1000A	"	32.5	46.6	1.09	1.51	51.0		.6	11	-.02	"
756	2-10	1008A / 1017A	"	22.0	8.89	0.52	0.86	4.6		.6	9	-.01	"
757	2-18	1100A / 1112A	Bollinger	14.0	9.17	1.04	1.00	9.5		.6	11	0	FC 6
758	2-20	556P / 648P	Bollinger & Eckert	117.0	885.	7.61	10.24	6280.		.6	17	-1.13	"
759	2-24	140P / 200P	Bollinger	36.5	57.9	0.58	1.35	33.5		.6	11	0	"
760	3-1, 3-2	1133P / 1219A	Bollinger & Eckert	95.0	439.0	5.63	6.98	2470.		.6	15	-2.02	"
761	3-4	1037A / 1050A	Bollinger	46.5	49.6	0.47	1.22	23.1		.6	13		"
762	3-5	1133A / 1145A	Bollinger & Eckert	34.0	52.7	0.55	1.27	29.0		.6	10	-.02	"
763	3-10	940A / 951A	Bollinger	20.0	12.9	0.98	1.06	12.7		.6	10	0	"
764	3-17	932A / 945A	"	18.0	12.6	0.68	1.04	8.6		.6	13	0	"
765	3-24	1000A / 1010A	"	15.0	11.0	0.94	1.08	10.3		.6	11	-.01	"
766	3-31	1010A / 1020A	"	11.3	7.34	0.91	1.04	6.7		.6	9	+.01	"
767	4-7	1005A / 1016A	"	12.5	9.09	0.77	1.05	7.0		.6	8	-.02	"
768	4-14	950A / 1005A	"	12.5	7.76	0.62	0.98	4.8		.6	10	-.02	"
769	4-21	1011A / 1022A	"	12.0	8.6	0.86	1.02	7.4		.6	9	0	"
770	4-28	906A / 922A	"	19.5	15.3	0.79	1.13	12.1		.6	13	0	"
771	5-5	935A / 945A	"	11.5	6.81	0.69	0.96	4.7		.6	8	0	"
772	5-12	911A / 924A	Bollinger	11.5	8.53	0.80	1.05	6.8		.6	10	0	FC 6
773	5-19	1011A / 1023A	"	10.8	6.96	0.80	1.02	5.6		.6	10	-.01	"
774	5-26	922A / 933A	"	11.0	7.18	0.76	1.00	5.4		.6	10	0	"
775	6-2	945A / 956A	"	11.0	6.85	0.70	0.98	4.8		.6	11	0	"
776	6-9	930A / 940A	"	11.0	9.60	0.59	1.01	5.7		.6	7	-.02	"
777	6-17	922A / 930A	"	10.0	7.70	0.49	1.00	3.8		.6	8	0	"
778	6-23	936A / 946A	"	10.5	7.09	0.51	0.96	3.6		.6	8	-.02	"
779	6-30	853A / 902A	"	10.0	7.78	0.62	1.09	4.8		.6	8	0	"
780	7-7	921A / 930A	"	10.5	8.44	0.65	1.21	5.5		.6	7	-.02	"
781	7-13	952A / 1004A	"	10.5	8.81	0.93	1.32	8.6		.6	9	0	"
782	7-19	927A / 935A	Moon	9.5	6.70	0.79	1.13	5.3		.6	8	0	FC 22
783	7-26	933A / 943A	"	10.0	7.15	0.71	1.18	5.1		.6	9	0	"
784	8-3	955A / 1003A	Bollinger	9.5	6.97	0.53	1.20	3.7		.6	7	-.01	FC 6
785	8-10	934A / 943A	"	11.0	8.17	0.57	1.20	4.7		.6	8	-.02	"
786	8-17	952A / 1000A	"	9.0	6.45	0.85	1.24	5.5		.6	6	+.01	"
787	8-24	922A / 933A	"	11.0	8.08	0.66	1.18	5.3		.6	8	-.01	"
788	8-31	932A / 942A	"	12.5	8.56	0.56	1.16	4.8		.6	9	-.01	"
789	9-7	928A / 938A	"	10.3	7.29	0.53	1.07	4.0		.6	9	-.02	"
790	9-14	957A / 1007A	"	13.5	9.77	0.51	1.11	5.0		.6	8	0	"
791	9-21	935A / 956A	Stunden & Bollinger	14.0	8.45	0.76	1.12	6.4		.6	10	0	"
792	9-28	920A / 930A	Bollinger	10.5	7.73	0.88	1.20	6.8		.6	9	+.01	"

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

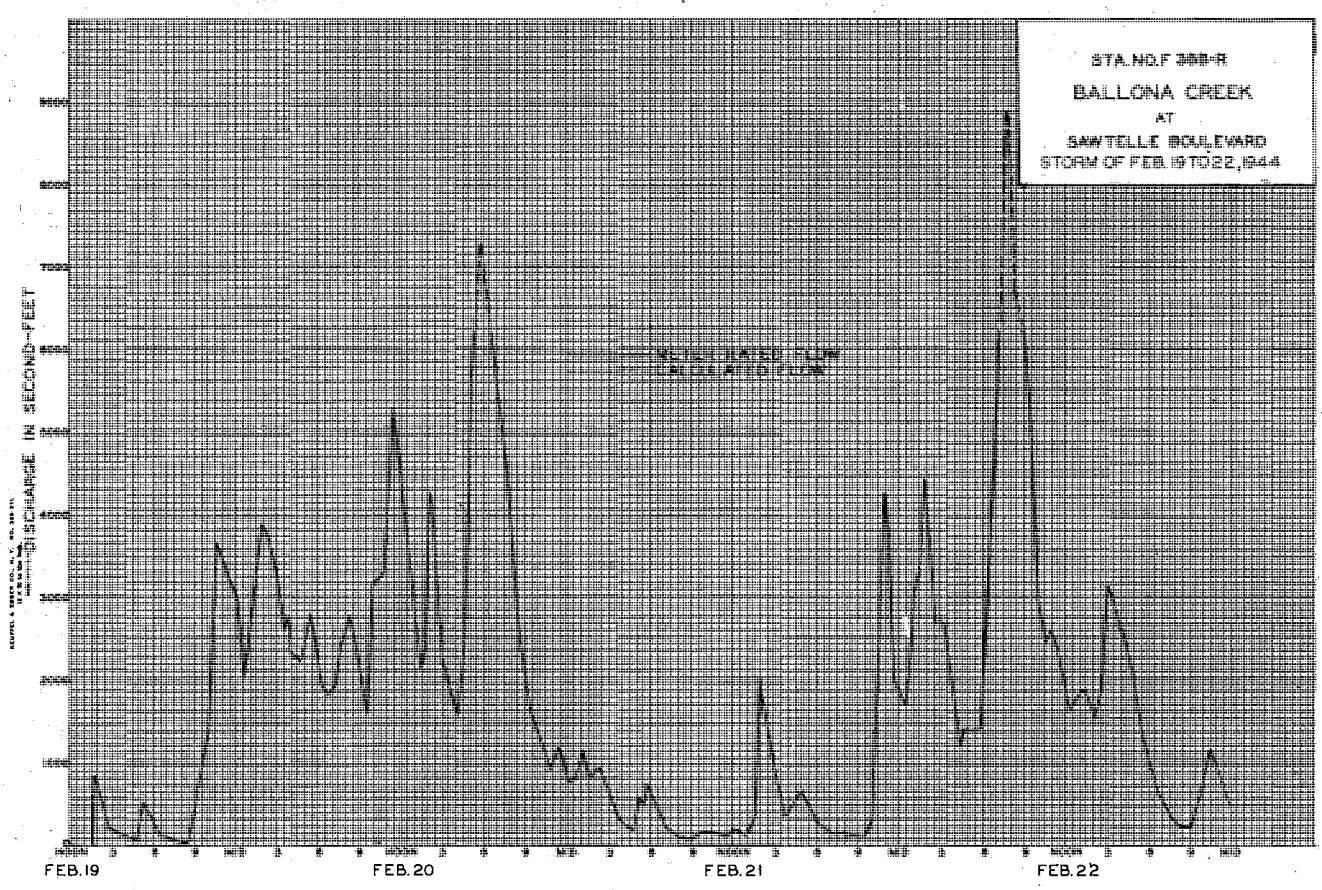
Sta. No. F38B-R

Daily discharge, in second-feet of BALLONA CREEK at Sawtelle Boulevard, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6	7.5	7.5	9.5	6.5	680	9	9	7.5	8	7.5	9
2	7	13	6.5	14	6	f 813	8.5	8.5	a 7	6.5	6.5	9
3	5.5	10	9.5	28	a 316	b 29	9	9	a 7	7	6	8.5
4	4.7	8	7	18	a 160	f 245	9	7	a 7	7	6.5	7
5	5	16	180	64	5.5	40	8.5	8.5	a 7	9.5	6.5	10
6	3.4	13	f 358	92	5	19	9	7.5	a 7	10	5	9.5
7	7.5	9	b 9	7	6	19	9.5	6.5	a 7	6.5	6.5	7.5
8	5.5	6.5	b 5.5	5.5	59	17	9	8.5	a 7	6.5	8.5	10
9	6	9.5	41	5	7	16	7.5	8	a 7	6	7.5	13
10	8	8	729	5.5	6	14	7.5	8	7	6	7	11
11	8	9	435	6	5.5	14	8	7	5	7.5	8	8.5
12	7	10	74	6	5.5	12	8	7.5	6.5	12	8	8.5
13	6	11	8.5	6	5	13	8	7.5	5.5	10	6.5	8
14	8.5	7	9	6.5	7.5	12	7	6	5.5	9	8.5	8
15	7	10	8	6	25	11	7.5	6.5	4.9	7	7	9.5
16	6.5	8.5	9.5	5.5	7	9.5	7.5	6.5	5.5	8	8	8
17	6.5	27	26	6	17	10	8	6.5	4.9	8.5	7.5	8
18	6.8	17	348	6	9.5	11	8	7	5	9.5	8.5	9.5
19	9	8.5	159	6	391	14	9.5	7	5.5	8	7	9.5
20	5.5	7	772	5.5	3010	14	11	8	6.5	9	7.5	9
21	a 5.5	5.5	57	6	640	14	10	7.5	5	7.5	8	9
22	a 5.5	7.5	12	6	2400	14	9	7	7.5	8	10	9.5
23	4.9	7	8.5	59	f 109	14	9	7	6.5	6.5	7.5	8.5
24	4.3	6.5	9	26	44	14	14	6.5	5.5	7	11	8.5
25	4.7	7	7	9.5	22	14	11	7	6	7.5	11	8
26	4.3	6	6.5	5.5	218	13	19	8	5.5	7.5	10	8
27	5	7	7	7	24	13	359	7.5	5.5	8.5	9	8
28	6	7	162	5	21	10	12	6.5	7	8	9.5	8
29	29	8.5	328	5.5	22		12	6.5	7.5	7	11	9.5
30	7.5	7	271	16		8	9.5	6.5	7.5	6.5	10	7
31	6		17	23		8.5		6.5		7	9	
	2733		4087.0		7560.0		6335		1888		250.0	
		2845		4765		21440		2265		2425		2650
MEAN	8.81	9.48	132.	15.4	261.	69.2	21.1	7.31	6.29	7.82	8.06	8.83
ACRE-FEET	542.	564.	8110.	945.	15,000.	4250.	1260.	449.	374.	481.	496.	526.

Remarks:

YEAR OR PERIOD — MEAN 45.4 — ACRE-FEET 33,000.



STATION F120-R

BIG DALTON CREEK below Big Dalton Dam

LOCATION:

Water-stage recorder, lat. 34°10'12", long. 117°48'33", on the left (southeast) bank about 200 feet below the old toe wall on the downstream side of Big Dalton Dam and about 5 miles northeast of Glendora. Elevation of gage, about 1570 feet (from topographic map).

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, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 56 second-feet, February 23.
Minimum no flow part of year.

1940-1944
Maximum 111 second-feet, March 4, 1943.
Minimum no flow part of year.

ACCURACY:

Good.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F120-R

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

~~XXX~~ below Big Dalton Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
138	12-16	1057A / 1100A	Brewster	1.0	0.12	0.33	0.02	0.04		.6	2	0	FC 12
139	12-23	155P / 200P	"	1.0	0.24	0.25	0.03	0.06		.6	2	0	"
140	12-30	142P / 147P	"	1.0	0.14	0.43	0.01	0.06		.6	2	0	"
141	1-6	1131A / 1135A	"	2.0	0.24	0.42	0.02	0.10		.6	2	0	"
142	1-13	1136A / 1140A	"	2.0	0.22	0.36	0.01	0.08		.6	2	0	"
143	1-20	1007A / 1009A	Haig	0.6	0.09	0.33	0.01	0.03		.6	2	0	FC 35
144	2-9	1130A / 1133A	Green	1.5	0.09	0.56	0.05	0.05		.6	4	0	FC 42
145	2-17	1110A / 1115A	Brewster	2.0	0.24	0.25	0.05	0.06		.6	2	0	FC 12
146	2-23	945A / 959A	Green	8.8	7.68	3.40	0.79	26.1		.6	9	0	FC 42
147	2-23	120P / 135P	"	13.7	10.0	3.00	0.88	30.0		.6	11	-.05	"
148	2-23	235P / 250P	"	15.5	14.3	3.57	1.16	51.0		.6	11	-.03	"
149	2-24	135P / 145P	Brewster-Smith	14.0	7.60	1.86	0.70	14.1		.6	7	0	FC 12
150	3-2	1100A / 1115A	Brewster	14.0	6.40	1.76	0.65	11.3		.6	7	0	"
151	3-2	340P / 400P	"	12.0	7.80	2.91	0.87	22.7		.6	6	0	"
152	3-7	435P / 450P	"	14.0	5.00	1.70	0.55	8.5		.6	7	0	"
153	3-9	1225P / 1240P	"	7.0	4.44	1.49	0.54	6.6		.6	7	0	"
154	3-16	119P / 125P	"	1.5	0.47	0.57	0.19	0.27		.6	3	0	"
155	3-23	1020A / 1025A	"	1.0	0.31	0.84	0.17	0.26		.6	2	0	"
156	3-30	1208P / 1212P	"	1.0	0.29	0.86	0.16	0.25		.6	2	0	"
157	4-6	1120A / 1125A	"	1.0	0.26	0.81	0.16	0.21		.6	2	0	"
158	4-13	1150A / 1155A	Brewster	1.0	0.24	0.92	0.16	0.22		.6	2	0	FC 12
159	4-20	1120A / 1125A	"	1.0	0.26	0.92	0.16	0.24		.6	2	0	"
160	4-27	956A / 1000A	Brewster	1.0	0.28	0.82	0.18	0.23		.6	2	0	FC 12
161	5-4	1055A / 1100A	"	1.0	0.24	0.96	0.10	0.23		.6	2	0	"
162	5-11	1145A / 1150A	"	1.0	0.24	0.96	0.10	0.23		.6	2	0	"
163	5-18	1035A / 1040A	"	1.0	0.24	1.04	0.11	0.25		.6	2	0	"
164	5-25	1005A / 1010A	"	1.0	0.24	0.83	0.12	0.20		.6	2	0	"
165	6-1	1150A / 1155A	"	1.0	0.25	0.88	0.14	0.22		.6	2	0	"
166	6-9	1016A / 1018A	Brewster & Bonadiman	1.0	0.32	0.69	0.27	0.22		.6	2	0	"
167	6-16	920A / 930A	Bonadiman	10.0	3.39	0.86	1.06	2.9		.6	5	0	FC 19
168	6-23	916A / 923A	"	10.0	3.15	1.08	1.08	3.4		.6	5	0	"
169	6-28	1040A / 1050A	Brewster	5.0	2.73	1.21	1.09	3.3		.6	5	0	FC 12
170	7-5	1052A / 1107A	"	5.0	2.62	1.22	1.08	3.2		.6	5	0	"
171	7-12	345P / 355P	"	5.0	2.49	1.24	1.07	3.1		.6	5	0	"
172	7-19	956A / 1007A	"	5.0	2.69	1.12	1.06	3.0		.6	5	0	"
173	7-26	1208P / 1220P	"	5.0	2.65	1.28	1.12	3.4		.6	5	0	"
174	8-2	1025A / 1035A	"	5.0	2.68	1.23	1.11	3.3		.6	5	0	"
175	8-9	1040A / 1050A	"	5.0	2.57	1.25	1.09	3.2		.6	5	0	"
176	8-16	1015A / 1025A	"	5.0	2.75	1.49	1.21	4.1		.6	5	0	"
177	8-23	1055A / 1105A	"	5.0	2.74	1.42	1.17	3.9		.6	5	0	"
178	8-30	943A / 955A	"	5.0	2.70	1.30	1.13	3.5		.6	5	0	"
179	9-6	944A / 955A	"	5.0	2.53	1.23	1.08	3.1		.6	5	0	"
180	9-13	950A / 1000A	"	5.0	2.65	1.21	1.08	3.2		.6	5	0	"
181	9-20	1045A / 1055A	"	5.0	2.48	1.09	1.02	2.7		.6	5	0	"

F. C. Dist. Form 32 8-44

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, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.1	0.1	10.2	0.3	0.2	0.2	3.3	3.3	3.4
2	0	0	0	0.1	0.1	16.4	0.3	0.2	0.1	3.3	3.3	3.3
3	0	0	0	0.1	0.1	22	0.2	0.2	0.1	3.3	3.3	3.3
4	0	0	0	0.1	0.1	15.0	0.2	0.2	0.1	1.0	3.3	3.2
5	0	0	0	0.1	0.1	9.4	0.2	0.2	0.2	2.2	3.3	3.1
6	0	0	0	0.1	0.1	8.7	0.2	0.2	0.2	3.2	3.3	3.0
7	0	0	0	0.1	0.1	8.4	0.2	0.2	0.2	3.2	3.3	3.0
8	0	0	0	0.1	0.1	8.0	0.2	0.2	0.2	3.1	3.3	3.3
9	0	0	0	0.1	+	6.6	0.2	0.2	0.2	3.1	3.2	3.3
10	0	0	+	0.1	0.1	3.0	0.2	0.2	0.2	3.1	3.2	3.2
11	0	0	1.1	0.1	+	0	0.2	0.2	0.2	3.1	3.1	3.1
12	0	0	0.5	0.1	+	0	0.2	0.2	0.2	3.1	3.3	3.1
13	0	0	0.3	0.1	+	0	0.2	0.2	0.2	3.1	3.9	3.1
14	0	0	0.2	0.1	+	0	0.2	0.2	0.2	3.1	4.1	3.2
15	0	0	0.1	0.1	0.1	0	0.2	0.2	0.2	3.1	4.1	3.0
16	0	0	0.1	0.1	0.1	0.1	0.2	0.2	2.0	3.0	4.1	2.8
17	0	0	0.1	0.1	0.1	0.4	0.2	0.3	2.9	3.0	4.1	2.5
18	0	0	0.1	0.1	0.1	0.3	0.2	0.3	3.0	3.0	4.0	2.2
19	0	0	0.1	0.1	0.1	0.3	0.2	0.4	3.1	3.0	4.0	2.2
20	0	0	0.1	0.1	0.2	0.2	0.2	0.3	3.1	2.9	4.1	2.4
21	0	0	0.1	0.1	1.1	0.2	0.2	0.3	3.2	2.9	4.0	1.8
22	0	0	0.1	0.1	11.5	0.3	0.1	0.3	3.4	3.2	4.0	0.6
23	0	0	0.1	0.1	35	0.3	0.1	0.3	3.4	3.4	3.9	0
24	0	0	0.1	0.3	30	0.3	0.1	0.2	3.3	3.4	3.9	0
25	0	0	0.1	0.2	11.9	0.3	0.1	0.2	3.3	3.4	3.8	0
26	0	0	0.1	0.1	11.1	0.3	0.1	0.2	3.3	3.4	3.7	0
27	0	0	0.1	0.1	10.6	0.4	0.2	0.1	3.3	3.4	3.7	0
28	0	0	0.1	0.1	9.8	0.3	0.1	0.2	3.3	3.4	3.6	0
29	0	0	0.1	0.1	9.8	0.3	0.1	0.2	3.3	3.4	3.5	0
30	0	0	0.1	0.1		0.3	0.1	0.2	3.3	3.4	3.5	0
31	0		0.1	0.1		0.3		0.1		3.3	3.5	
	0	0	3.8	3.4	132.4	112.3	5.4	6.8	49.6	95.8	112.7	62.1
MEAN	0	0	0.12	0.11	4.57	3.62	0.18	0.22	1.65	3.09	3.64	2.07
ACRE-FEET	0	0	7.5	6.7	263	223.	11.	13.	98.	190.	224.	123

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

YEAR OR PERIOD — MEAN 1.60 — ACRE-FEET 1160.

STATION U9-R

BIG DALTON CREEK near Mouth of Canyon

LOCATION:

Water-stage recorder and broad-crested weir control, lat. 34°09'25", long. 117°49'55", in center of sec. 21, T. 1 N., R. 9 W., 0.2 mile upstream from mouth of canyon, and 2.5 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 1944.

AVERAGE DISCHARGE:

24 years (1920-44), 1.37 second-feet.

EXTREMES:

1943-1944

Maximum discharge during year, 161 second-feet Feb. 22 (gage height, 2.08 feet); no flow for several periods.

1919-44:

Maximum discharge, about 850 second-feet Mar. 2, 1939, from record of release from Big Dalton reservoir. 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 Big Dalton Dam about 1 mile upstream.

COOPERATION:

Records furnished by the United States Geological Survey, with the exception of 31 discharge measurements furnished by the Los Angeles County Flood Control District in cooperation with the United States Geological Survey.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U9-R

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

near Mouth of Canyon 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.	WATERS	METHOD	MEAS. SEC. NO.	D. MT. CHANGE TOTAL	METER NOS.
837	11-4	918A / 922A	Brewster	1.0	0.12	0.17	0.03	0.02		.6	2	0	FC12
838	11-4		U.S.G.S.				0.01	0.002		Est.			
839	12-11		"	3.5	0.98	0.51	0.31	0.50		.6	7	0	
840	12-16	1031A / 1035A	Brewster	0.5	0.16	0.56	0.05	0.09		.6	1	0	FC12
841	12-17		U.S.G.S.	0.1	0.12	0.33	0.04	0.04		.6	1	0	
842	12-19		"	4.0	1.1	0.65	0.36	0.71		.6	8	0	
843	12-22		"	4.0	1.0	0.58	0.32	0.58		.6	8	0	
844	12-23	1260 / 135P	Brewster	3.5	1.1	0.55	0.27	0.60		.6	4	0	FC12
845	12-29		U.S.G.S.	0.7	0.13	1.23	0.21	0.16		.6	1	0	
846	12-30	115P / 125P	Brewster	3.0	0.97	0.31	0.18	0.30		.6	6	0	FC12
847	1-6	1045A / 1055A	"	2.0	0.72	0.56	0.22	0.40		.6	4	0	"
848	1-6		U.S.G.S.	2.0	0.68	0.43	0.20	0.29		.6	4	0	
849	1-13	1108A / 1116A	Brewster	2.0	0.77	0.36	0.12	0.28		.6	4		FC22
850	1-13		U.S.G.S.	0.5	0.10	0.80	0.12	0.08		.6	1	0	
851	1-20	1105A / 1110A	Haig	2.0	0.52	0.21	0.10	0.11		.6	4	1	FC35
852	1-27	1012A / 1016A	"	2.0	0.46	0.37	0.13	0.17		.6	4	0	"
853	1-27		U.S.G.S.	0.6	0.08	0.62	0.12	0.05		.6	2	0	
854	2-3		"	0.6	0.07	0.86	0.12	0.06		.6	2	0	
855	2-3	1102A / 1107A	Green	2.0	0.43	0.28	0.12	0.12		.6	4		FC42
856	2-9	1038A / 1045A	"	4.9	1.0	0.60	0.28	0.60		.6	6		"
857	2-9		U.S.G.S.	2.0	0.72	0.49	0.27	0.35		.6	4	0	
858	2-16		"	2.0	0.70	0.40	0.20	0.28		.6	4	0	
859	2-17	1042A / 1050A	Brewster	2.0	0.66	0.42	0.20	0.28		.6	4	0	FC12

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U9-R

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

AT near Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.	B. HT. CHANGE TOTAL	METER NO.
860	2-25	850A	910A	Brewster & Smith	14	8.8	2.12	1.12	18.7		.6	7	0	FC12
861	2-25			U.S.G.S.	12	7.4	2.08	1.09	15.4		.6	12	0	
862	3-1			"	12	7.8	1.83	1.05	14.3		.6	12	-.02	
863	3-2	1135A	1155A	Brewster	14	9.3	2.19	1.16	20.4		.6	7	0	FC12
864	3-3			U.S.G.S.	13	10.0	2.79	1.31	27.9		.6	13	0	
865	3-9	1125A	1145A	Brewster	10	7.0	1.69	0.92	11.8		.6	10	0	FC12
866	3-9			U.S.G.S.	11	6.5	1.72	0.90	11.2		.6	11	0	
867	3-16	1220P	1235P	Brewster	8.0	3.6	0.69	0.64	2.5		.6	8	0	FC12
868	3-18			U.S.G.S.	7.0	2.5	0.64	0.61	1.6		.6	14	+.01	
869	3-23	940A	955A	Brewster	7.0	3.0	0.50	0.61	1.5		.6	7	0	FC12
870	3-25			U.S.G.S.	8.5	2.6	0.46	0.58	1.2		.6	2	0	
871	3-30	1118A	1130A	Brewster	6.0	1.4	0.61	0.40	0.85		.6	6	0	FC12
872	3-30			U.S.G.S.	1.0	0.32	1.94	0.36	0.62		.6	2	-.01	
873	4-6	1050A	1100A	Brewster	5.0	2.6	0.42	0.53	1.1		.6	5	0	FC12
874	4-6			U.S.G.S.	2.0	0.60	1.10	0.45	0.66		.6	4	0	
875	4-13	1055A	1105A	Brewster	2.0	0.86	1.16	0.48	1.0		.6	4	0	FC12
876	4-13			U.S.G.S.	2.0	0.71	1.20	0.45	0.85		.6	4	0	
877	4-20	1023A	1035A	Brewster	2.0	0.73	1.21	0.43	0.88		.6	4	0	FC12
878	4-20			U.S.G.S.	2.0	0.68	1.12	0.41	0.76		.6	4	0	
879	4-27	923A	934A	Brewster	5.0	3.0	0.83	0.64	2.5		.6	5	0	FC12
880	4-27			U.S.G.S.	5.0	2.5	0.52	0.60	1.3		.6	5	0	
881	5-4	1019A	1028A	Brewster	2.0	0.74	1.18	0.41	0.87		.6	4	0	FC12
882	5-4			U.S.G.S.	2.0	0.60	0.93	0.34	0.56		.6	4	0	
883	5-11	1105A	1115A	Brewster	2.0	0.69	1.22	0.38	0.84		.6	4	0	FC12
884	5-11			U.S.G.S.	2.0	0.56	0.84	0.31	0.47		.6	4	-.01	
885	5-18	955A	1005A	Brewster	2.0	0.66	1.09	0.33	0.72		.6	4	0	FC12
886	5-18			U.S.G.S.	2.0	0.60	0.85	0.32	0.51		.6	4	0	
887	5-25	934A	943A	Brewster	2.0	0.65	0.95	0.33	0.62		.6	4	0	FC12
888	5-25			U.S.G.S.	2.0	0.60	0.92	0.30	0.55		.6	4	0	
889	6-1	1110A	1120A	Brewster	2.0	0.66	1.03	0.34	0.68		.6	4	0	FC12
890	6-1			U.S.G.S.	2.0	0.60	0.95	0.34	0.57		.6	4	0	
891	6-8			"	2.0	0.72	0.88	0.35	0.63		.6	4	0	
892	6-9	946A	954A	Brewster & Bonadiman	2.0	0.64	1.05	0.36	0.67		.6	4	0	FC12
893	6-15			U.S.G.S.	2.0	0.60	0.73	0.29	0.44		.6	4	0	
894	6-16	950A	954A	Bonadiman	2.0	0.60	0.63	0.32	0.38		.6	3	0	FC19
895	6-22			U.S.G.S.	1.0	0.20	0.50	0.12	0.10		.6	2	0	
896	6-23	858A	902A	Bonadiman	1.5	0.15	0.06	0.13	0.09		.6	2	0	FC19
897	6-28	949A	955A	Brewster	1.0	0.24	0.71	0.12	0.17		.6	2	0	FC12
898	6-29			U.S.G.S.	1.0	0.20	0.45	0.12	0.09		.6	2	0	
899	7-5	1026A	1032A	Brewster	1.0	0.24	0.79	0.14	0.19		.6	2	0	FC12
900	7-13			U.S.G.S.	1.0	0.20	0.35	0.08	0.07		.6	2	0	
901	7-20			"	0.5	0.10	0.40	0.05	0.04		.6	2	0	
902	7-27			"	0.4	0.08	0.25	0.03	0.02		.6	1	0	

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U9-R

Daily discharge, in second-feet of BIG DALTON CREEK near Mouth of Canyon, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.3	0.1	1.3	0.7	0.8	0.6	0.1	0	0
2	0	0	0	0.3	0.1	2.9	0.6	0.8	0.7	0.1	0	0
3	0	0	0	0.3	0.1	2.9	0.8	0.8	0.6	0.1	0	0
4	0	0	0	0.3	0.5	2.1	0.9	0.7	0.6	0.1	0	0
5	0	0	0	0.3	0.3	1.3	1.0	0.6	0.5	0.4	0	0
6	0	0	0	0.4	0.3	1.2	1.0	0.6	0.5	0.1	0	0
7	0	0	0	0.3	0.3	1.2	1.0	0.6	0.5	0.1	0	0
8	0	0	0	0.2	0.4	1.2	1.1	0.7	0.6	0.1	0	0
9	0	0	0	0.2	0.5	1.2	1.1	0.8	0.6	0.1	0	0
10	0	0	0	0.2	0.4	7.5	0.9	0.8	0.6	0.1	0	0
11	0	0	0.3	0.2	0.4	3.6	0.9	0.7	0.6	0.1	0	0
12	0	0	0.2	0.2	0.3	3.3	0.9	0.6	0.5	0.1	0	0
13	0	0	0.2	0.2	0.3	3.3	0.9	0.6	0.5	0.1	0	0
14	0	0	0.2	0.2	0.3	3.0	0.9	0.6	0.4	0.1	0	0
15	0	0	0.1	0.2	0.4	2.7	0.9	0.6	0.4	0.1	0	0
16	0	0	0.1	0.2	0.3	2.4	0.8	0.6	1.0	0.1	0	0
17	0	0	0.1	0.1	0.3	2.0	0.8	0.6	0.9	0.1	0	0
18	0	0	0.1	0.1	0.3	1.7	0.8	0.6	0.4	0.1	0	0
19	0	0	0.5	0.1	0.3	1.8	0.8	0.6	0.2	0	0	0
20	0	0	0.7	0.1	1.6	1.7	0.8	0.6	0.1	0	0	0
21	0	0	1.2	0.1	6	1.5	0.8	0.6	0.1	0	0	0
22	0	0	0.7	0.1	5.7	1.4	0.7	0.6	0.1	0	0	0
23	0	0	0.5	0.1	5.3	1.4	0.7	0.6	0.1	0	0	0
24	0	0	0.4	0.1	3.7	1.3	0.8	0.6	0.1	0	0	0
25	0	0	0.3	0.1	1.6	1.3	0.8	0.6	0.1	0.1	0	0
26	0	0	0.2	0.1	1.4	1.3	0.8	0.6	0.1	0.1	0	0
27	0	0	0.2	0.1	1.2	1.2	1.6	0.5	0.1	0	0	0
28	0	0	0.2	0.1	1.1	1.0	1.3	0.5	0.1	0	0	0
29	0	0	0.2	0.1	1.0	0.9	1.0	0.5	0.1	0	0	0
30	0	0	0.3	0.1		0.8	0.8	0.5	0.1	0	0	0
31	0		0.3	0.1		0.7		0.6		0		
	0	0	7.0	5.5	22.35	198.8	26.9	19.5	11.8	2.3	0	0
MEAN	0	0	0.23	0.18	7.71	6.41	0.90	0.63	0.39	0.07	0	0
ACRE-FEET	0	0	14.	11.	443.	394.	53.	39.	23.	5.	0	0

Remarks:

YEAR OR PERIOD MEAN 1.35
ACRE-FEET 982.

STATION F274-R

DALTON WASH at Merced Avenue

LOCATION:

Water-stage recorder, lat. 34°04'28", long. 117°57'48", 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.
Elevation of gage, about 347 feet(from topographic map).

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, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 2,650 second-feet, February 22.
Minimum no flow part of year.

1940-1944
Maximum 2,650 second feet, February 22, 1944.
Minimum no flow part of each year.

ACCURACY:

Good.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F274-R

DISCHARGE MEASUREMENTS OF DALTON WASH
~~NEAR~~ at Merced Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
102	12-11	1100A / 1110A	Brewster	10.0	2.2	1.36	1.66	3.0		.6	5	+.01	FC12
103	1-14	320P / 330P	"	18.0	4.74	1.52	1.82	7.2		.6	5	0	"
104	1-28	425P / 435P	Green & Haig	6.5	1.17	1.19	1.71	1.4		.6	7	0	FC35
105	2-21	225P / 240P	Brewster	26.0	16.9	4.35	2.28	73.5		.6	6	-.01	FC12
106	2-22	752A / 802A	Haig-Kasimoff	31.0	13.8	3.63	2.34	50.1		.6	9	+.06	FC35
107	2-22	1145A / 1200N	Green & Smith	38.0	157	11.6	600	1670	Surf.	5	0		Float
108	2-24	1145A / 1155A	Brewster & Smith	19.0	8.22	1.81	1.97	14.9		.6	6	0	FC12
109	3-2	730A / 735A	Mellen & Kasimoff	33.0	23.3	4.05	2.62	94.4		.6	7	0	FC28
110	3-3	1053A / 1105A	Brewster	19.0	8.71	2.17	2.06	18.9		.6	6	0	FC12
111	3-24	215P / 220P	"	3.0	0.44	0.41	1.69	0.18		.6	3	0	"
112	4-28	329P / 335P	"	4.0	0.84	0.96	1.70	0.81		.6	4	0	"

F. C. Dis. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

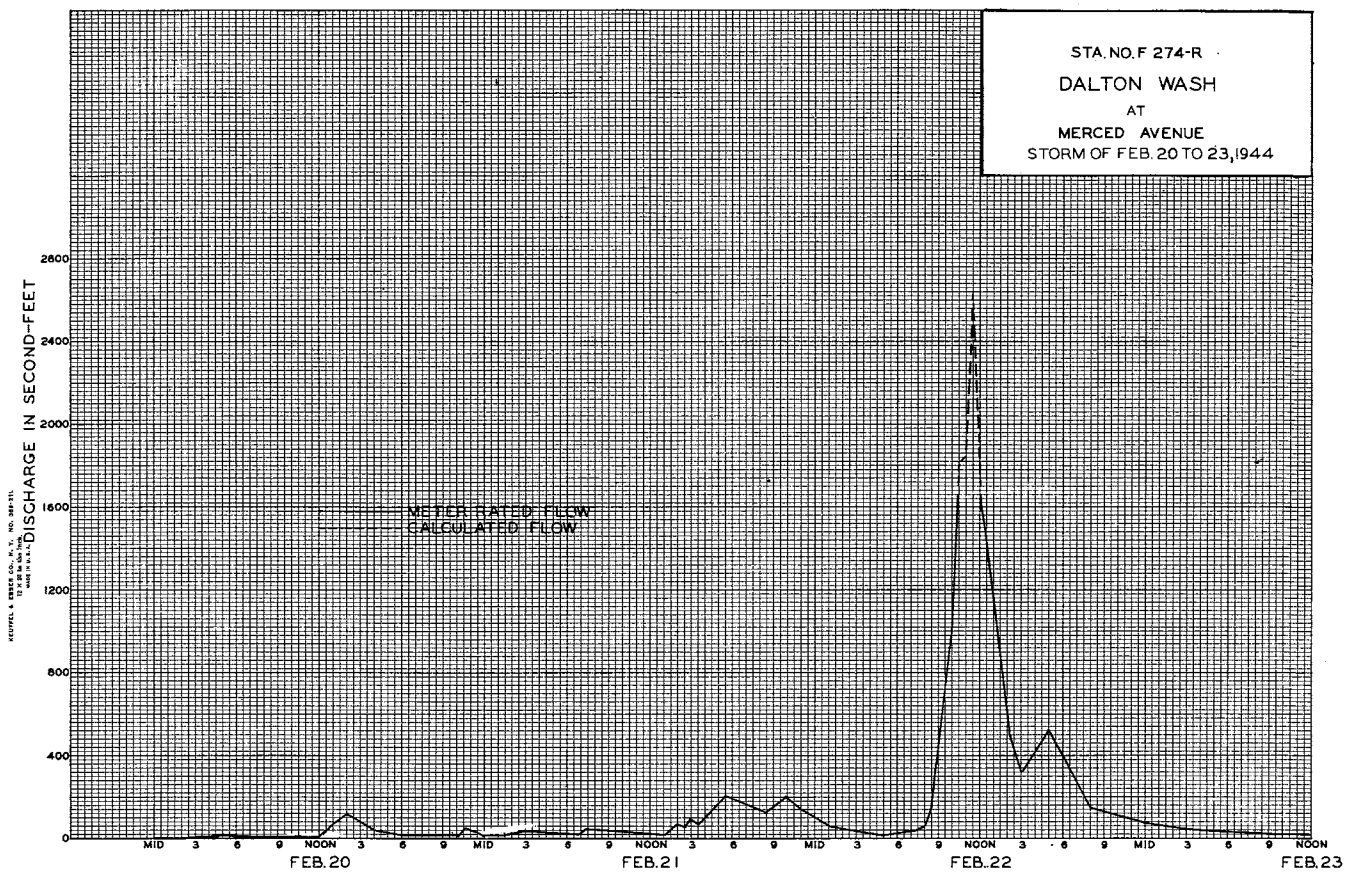
Sta. No. F274-R

Daily discharge, in second-feet of DALTON WASH at Merced Avenue, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1	0	0	1.6	2.0	0	+	0	0	0	0
2	0	0	0	0	1.4	4.1	0	0	0	0	0	0
3	0	0	0	0	1.6	1.4	0	+	0	0	0	0
4	0	0	0	0	4.4	4.9	0	0	0	0	0	0
5	0	0	0	0	0	0.9	0	0	0	0	0	0
6	0	0	0	0	0	0	0	+	0	0	0	0
7	0	0	0	0	0	0	0.4	0	0	0	0	0
8	0	0	0	+	2.7	0.2	1.0	0	0	0	0	0
9	0	0	0	0.8	0.5	0	1.3	0.3	0	0	0	0
10	0	0	5.5	0.4	0	0	1.0	0	0	0	0	0
11	0	0	3.0	+	0	0	1.0	0.3	0	0	0	0
12	0	0	0.5	0	0	0	0	0	0	0	0	0
13	0	0	+	7	0	0.1	0.4	0	0	0	0	0
14	0	0	0	9	0	1.6	0.3	0	0	0	0	0
15	0	0	0	6.5	0.8	0.8	0.9	0	0	0	0	0
16	0	0	0	3.3	1.3	0.6	0.6	0	0	0	0	0
17	0	0	0	2.7	+	0.2	0.7	0	0	0	0	0
18	0	0	0.3	2.2	0	0.4	0	0	0	0	0	0
19	0	0	2.1	2.1	0.1	0.9	0	0	0	0	0	0
20	0	0	9.5	2.4	2.8	0.3	0	0	0	0	0	0
21	0	0	8	3.0	8.2	0	0.3	0	0	0	0	0
22	0	0	0	3.0	41.8	0	0.6	0	0	0	0	0
23	0	0.1	0	3.0	b 29	0.1	0.6	0	0.2	0	0	0
24	0	0	0	2.2	9.5	0.8	0.5	0	0	0	0	0
25	0.5	0	0	0.8	0	1.4	0.6	0	0	0	0	0
26	0.2	0	0	1.8	4.1	0.4	0.1	0	0	0	0	0
27	0	0	0	1.6	3.3	0	7	0	0	0	0	0
28	0	0.3	0	1.4	3.6	0.3	1.3	0	0	0	0	0
29	0	0.8	1.6	1.4	2.7	0.6	0.4	0	0	0	0	0
30	0	0.7	1.5	1.8		0.2	+	0	0	0	0	0
31	0		1.1	2.1		0		0		0	0	
	0.7	2.0	52.0	58.5	594.6	89.7	19.0	0.6	0.2	0	0	0
MEAN	0.02	0.67	1.68	1.89	20.5	2.89	0.60	0.02	0.01	0	0	0
ACRE-FEET	1.4	4.0	103	116	1180	178	38	1.2	0.4	0	0	0

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

YEAR OR PERIOD MEAN 2.23
ACRE-FEET 1,620



STATION F111B-R

BIG TUJUNGA CREEK above Edison Road

LOCATION:

Water-stage recorder, lat.34°18'18", long.118°09'32", on the right (northwest) bank 400 feet above crossing of Edison Road, about 4 miles upstream from Big Tujunga Dam No. 1. Elevation of gage, about 2410 feet (from topographic map). Former Station F111-R 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 F111-R; 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, 1943 to September 30, 1944.

REGULATIONS:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

At Station F111-R
November 30, 1930 to August 17, 1932.
At Station F111B-R
September 15, 1932 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 3,300 second-feet, February 22.
Minimum 2.5 second-feet, October 2 to October 7.
1930-1944 (Stations F111-R and F111B-R)
Maximum discharge not determined.
Maximum discharge of record, 14,800 second-feet January 23, 1943.
Minimum no flow at various times.

ACCURACY:

Good.

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 154 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F111B-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

XXX above Edison Road DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
380	10-8	1102A / 1108A	Blakely	10.0	4.35	0.67	5.71	2.9		.6	6	0	FC 32
381	10-22	137P / 145P	"	10.0	5.33	0.79	5.75	4.2		.6	7	0	"
382	10-29	938A / 944A	"	10.0	5.34	0.77	5.76	4.1		.6	7	0	"
383	11-5	1140A / 1147A	Blakely & M. Blakely	10.0	5.45	0.97	5.75	5.3		.6	6	0	"
384	12-3	430P / 437P	Blakely	10.6	5.48	0.89	5.74	4.9		.6	7	0	"
385	12-11	100P / 111P	"	42.0	35.8	3.55	7.04	127.		.6	11	-.01	"
386	12-15	1241P / 1254P	"	11.0	6.52	1.72	5.91	11.2		.6	11	0	"
387	12-20	1157A / 1208P	"	30.5	18.6	2.82	6.62	52.5		.6	10	-.02	"
388	12-21	1220P / 1232P	"	37.0	26.8	3.60	7.02	96.6		.6	11	-.01	"
389	12-24	1103A / 1115A	Mellen	11.5	8.93	2.55	6.18	22.8		.6	6	0	FC 28
390	12-30	103P / 112P	Blakely	12.0	8.57	2.39	6.12	20.5		.6	8	+.01	FC 32
391	1-7	224P / 234P	"	12.0	8.96	2.1	6.10	18.9		.6	12	-.01	"
392	1-14	1128A / 1137A	"	11.7	7.48	1.63	5.99	12.2		.6	8	0	"
393	1-21	1158A / 1206P	"	11.3	7.21	1.84	5.95	13.3		.6	6	0	"
394	1-28	342P / 355P	"	11.5	7.53	1.62	5.95	12.2		.6	12	0	"
395	2-4	113P / 129P	"	12.6	9.82	2.43	6.19	23.9		.6	12	-.01	"
396	2-11	1226P / 1238P	"	11.7	8.62	1.95	6.05	16.8		.6	12	0	"
397	2-18	350P / 358P	"	11.5	7.61	1.72	5.98	13.1		.6	9	0	"
398	2-21	347P / 358P	"	32.0	22.8	2.86	6.69	65.1		.6	11	+.02	"
399	2-22	1040A / 1110A	Blakely	85.0	311.	9.92	11.27	3080.		.6	9	-.03 +.05 +.02	FC 32
400	2-22	400P / 438P	"	80.0	308.	8.74	11.13	2690.		.6	10	-.02	"
401	2-23	925A / 943A	Blakely & Turner	55.0	104.	3.71	8.19	386.		.6	7	-.02	"
402	3-4	218P / 248P	Blakely	52.0	58.3	4.10	7.67	239.		.6	10	0	"
403	3-7	321P / 341P	Blakely	Two Channels			7.67	285.		.6	8	0	FC 32
404	3-9	246P / 304P	"	"	"		7.67	287.		.6	10	0	"
405	3-17	312P / 328P	"	38.0	47.3	3.59	7.32	170.		.6	11	+.01	"
406	3-23	322P / 334P	"	35.0	44.5	3.28	7.20	146.		.6	9	0	"
407	3-31	355P / 405P	"	32.5	34.4	3.26	7.01	112.		.6	9	-.01	"
408	4-7	315P / 323P	"	30.0	29.9	3.38	6.85	101.		.6	8	0	"
409	4-18	1102A / 1112A	"	27.0	20.8	3.02	6.56	62.9		.6	11	0	"
410	4-27	355P / 410P	"	29.0	25.0	2.92	6.71	73.1		.6 .5	13	0	"
411	5-17	1040A / 1055A	Turner	22.3	18.6	1.80	6.30	33.4		.6	13	0	FC 5
412	5-26	1225P / 1235P	Blakely	22.0	13.1	1.98	6.24	26.0		.6 .5	9	-.01	FC 32
413	6-7	1140A / 1155A	Turner	21.0	15.2	1.46	6.11	22.2		.6	11	0	FC 5
414	6-17	1052A / 1103A	Blakely	21.5	12.1	2.05	6.10	24.8		.6 .5	11	0	FC 32
415	7-6	1100A / 1115A	Mellen	19.0	8.43	1.67	5.96	14.1		.6	9	0	FC 28
416	7-20	1118A / 1128A	Blakely	17.5	9.68	0.87	5.84	8.4		.5 .6	10	0	FC 32
417	8-4	1048A / 1057A	"	17.0	8.27	0.86	5.86	7.2		.5 .6	10	0	"
418	8-17	239P / 249P	"	16.8	6.76	0.94	5.82	6.4		.5 .6	9	0	"
419	9-7	1125A / 1133A	Blakely & M. Blakely	15.5	5.91	0.86	5.78	5.0		.5	10	0	"
420	9-14	1140A / 1155A	Gillespie & Blakely	16.0	5.70	0.84	5.77	4.8		.5 .6	12	0	"
421	9-28	1138A / 1148A	Blakely	15.7	5.72	0.85	5.78	4.9		.5	9	0	"

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

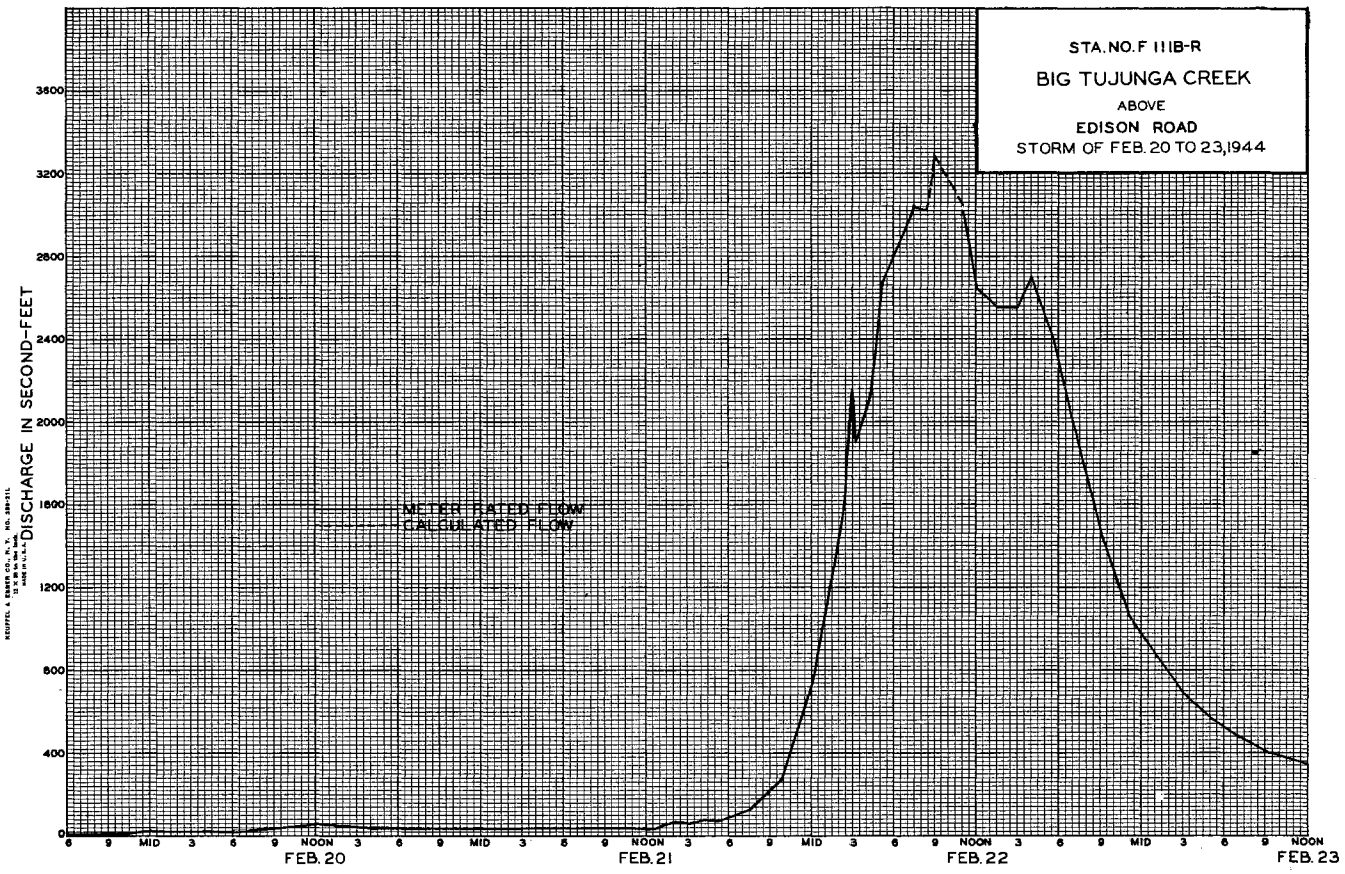
Sta. No. F111B-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Edison Road, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.7	4.2	5	21	15	246	132	45	26	13	7	5
2	2.5	4.6	5	20	14	750	130	43	26	13	7	5.5
3	2.5	4.6	5	20	15	348	132	41	25	13	6.5	5.5
4	2.5	4.8	5	19	25	272	123	39	24	12	6.5	5
5	2.5	5.5	6	18	20	364	113	38	23	12	6.5	5
6	2.5	4.8	6.5	23	18	378	108	38	22	12	6.5	4.8
7	2.5	4.6	5.5	19	16	328	107	37	22	12	6.5	4.6
8	2.7	4.6	5.5	18	22	313	105	36	22	12	6.5	4.4
9	2.7	4.6	5.5	16	25	355	96	35	23	12	6.5	4.4
10	2.7	4.6	4.8	15	18	435	85	36	23	12	6.5	4.4
11	2.7	4.6	121	14	16	446	84	35	22	11	6.5	4.4
12	2.7	4.6	29	13	15	398	83	34	21	11	6.5	4.4
13	2.7	4.6	15	12	15	332	78	32	21	10	6	4.4
14	2.7	4.6	13	12	14	260	74	32	20	10	6.5	4.6
15	2.7	4.6	11	12	15	204	71	32	20	10	6.5	4.6
16	2.7	4.6	11	12	13	190	68	32	20	9.5	6.5	4.8
17	2.7	4.8	10	12	14	204	64	32	20	9	6.5	5
18	4.7	5	28	12	13	230	60	33	19	9	6	5.5
19	5	5	86	12	15	236	58	32	18	8	6	5.5
20	4.4	5	69	13	40	219	58	32	18	7.5	5.5	5.5
21	4.2	5	142	13	108	181	55	30	18	7.5	5.5	4.8
22	4.0	5	39	13	2240	168	53	29	18	7.5	5.5	4.8
23	4.0	5	28	13	420	174	52	28	17	7.5	5.5	4.6
24	3.8	5	23	17	196	189	53	29	17	7.5	5.5	4.4
25	3.3	5	19	14	144	188	51	27	17	7.5	5.5	4.4
26	3.3	5	18	13	121	171	51	26	17	7.5	5.5	4.4
27	3.6	4.8	16	13	112	158	75	26	16	7.5	5	4.4
28	4.0	4.8	18	12	113	138	61	25	15	7.5	5	4.6
29	4.0	4.8	23	12	119	128	53	25	15	7.5	5	4.8
30	4.2	4.8	24	13		125	48	25	13	7	5	5
31	4.2		24	15		138		26		7	4.8	
	101.4	1435	864.0	461	3933	8266	2381	1010	598	2995	1863	1435
MEAN	3.27	4.78	28.1	14.9	136.	267.	79.4	32.6	20.0	9.66	6.01	4.78
ACRE-FEET	201.	285.	1710.	914.	7800.	16,400.	4720.	2000.	1190.	594.	370.	284.

Remarks:

YEAR OR PERIOD MEAN 50.2
ACRE-FEET 36,470.



STATION F168-R

BIG TUJUNGA CREEK below Big Tujunga Dam No. 1

LOCATION:

Water-stage recorder, lat.34°17'20", long.118°11'38", on the right (northwest) bank, 2800 feet below Big Tujunga Dam No. 1, and about 12 miles northeast of Sunland. Elevation of gage, about 2060 feet (from topographic map).

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, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 3,310 second-feet, February 22.
Minimum 0.3 second-foot, November 9 to November 12.
1932-1944
Maximum 33,000 second-feet, estimated, March 2, 1938.
Minimum no flow several days in October, 1936.

ACCURACY:

Fair.
Flows frequently estimated from valve operations at Big Tujunga Dam No. 1, or interpolated between measurements taken at the station.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F168-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

~~X~~ below Big Tujunga Dam No. 1 DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
839	10-1	320P / 325P	Blakely	7.5	1.94	2.58		5.0		.6	6		FC 32
840	10-8	1252P / 1258P	"	7.5	1.84	2.72		5.0		.6	5		"
841	10-15	244P / 251P	"	6.9	1.67	3.05		5.1		.6	5		"
842	10-22	311P / 319P	"	10.3	2.29	2.71		6.2		.6	6		"
843	10-29	225P / 238P	Blakely & van der Goot	7.0	2.19	2.97		6.5		.6	6		"
844	11-5	350P / 358P	Blakely & M. Blakely	7.5	1.93	2.64		5.1		.6	7		"
845	11-12	323P / 327P	Blakely	3.0	0.28	1.11		0.31		.6	4		"
846	11-19	1145A / 1150A	Mellen	4.0	0.40	1.75		0.70		.6	4		FC 28
847	11-27	1125A / 1130A	"	3.0	0.45	1.58		0.71		.6	3		"
848	12-3	118P / 128P	Blakely	5.0	1.34	2.39		3.2		.6	10		FC 32
849	12-9	341P / 349P	"	5.0	1.32	2.88		3.8		.6	5		"
850	12-10	444P / 452P	"	6.7	1.81	2.82		5.1		.6	7		"
851	12-12	210P / 240P	Robertson	18.5	6.55	3.10		20.3		.6	10		FC 23
852	12-14	1049P / 1103P	Blakely	20.0	6.80	3.41		23.2		.6	11		FC 32
853	12-17	244P / 256P	"	20.1	6.46	3.20		20.7		.6	11		"
854	12-20	105P / 135P	Robertson-Ealy	40.5	23.9	4.23		101.		.6	20		FC 23
855	12-21	155P / 215P	" "	103.	48.5	4.76		231.		.6	21		"
856	12-23	340P / 400P	Robertson & Draper	30.0	15.9	2.23		35.4		.6	15		"
857	12-24	1115A / 1150A	Ealy	27.0	9.67	1.35		13.1		.6	14		"
858	12-30	324P / 331P	Blakely	17.0	6.55	2.43		15.9		.6	7		FC 32
859	12-31		Robertson-Ealy	20.5	7.18	2.95		21.2		.6	10		FC 23
860	1-7	1100A / 1108A	Blakely & M. Blakely	13.5	7.30	3.16		23.1		.6	8		FC 32
861	1-15	158P / 203P	Blakely & Donaldman	13.5	8.88	2.42		21.5		.6	8		"
862	1-21	305P / 314P	Blakely	16.5	7.28	2.49		18.1		.6	9		FC 32
863	1-28	1000A / 1009A	"	13.0	5.57	2.18		11.8		.6	9	0	"
864	2-4	332P / 342P	"	9.5	5.40	2.50		13.5		.6	10	0	"
865	2-4	525P / 535P	"	10.5	6.92	2.92		20.2		.6	10	0	"
866	2-11	235P / 245P	"	10.0	6.20	3.47		21.5		.6	10	0	"
867	2-18	1134A / 1142A	"	10.5	6.30	3.35		21.1		.6	11	0	"
868	2-20	945A / 1000A	"	30.0	14.7	4.47		65.8		.6	12	0	"
869	2-20	342P / 402P	"	57.0	28.1	5.20		146.		.6	16	0	"
870	2-21	1006A / 1018A	"	31.0	17.5	4.73		82.8		.6	11	0	"
871	2-23	412P / 425P	Blakely & Turner	58.0	175.	3.84	5.56	672.		.6	7	0	"
872	2-24	558P / 618P	Blakely	53.0	121.	1.91	-	229.		.6 .2&.8	9	-	"
873	2-25	1100A / 1128A	"	46.0	75.8	1.12	-	85.1		.6 .2&.8	11	0	"
874	2-27	613P / 633P	"	56.0	117.	1.77	4.26	203.		.6 .2&.8	11	0	"
875	2-28	645P / 702P	"	54.0	88.8	1.04	3.78	100.		.6 .2&.8	10	0	"
876	3-1	550P / 608P	"	64.0	152.	2.02	4.56	258.		.6 .2&.8	10	0	"
877	3-1	1010P / 1041P	"	58.0	179.	3.93	5.63	704.		.6	8	0	"
878	3-2	1215P / 1241A	"	58.0	168.	4.09	5.63	687.		.6	8	0	"
879	3-3	905A / 920A	"	53.0	130.	2.80	4.86	364.		.6	8	0	"
880	3-4	1038A / 1058A	"	51.0	109.	2.50	4.56	272.		.6	11	0	"
881	3-4	948P / 1006P	"	56.0	143.	3.73	5.23	534.		.6	9	0	"
882	3-5	1105A / 1121A	"	52.0	102.	2.87	4.54	293.		.6	11	0	"
883	3-6	540P / 554P	"	53.0	113.	2.44	4.56	276.		.6	11	0	"
884	3-7	1150A / 1212P	Blakely	60.0	135.	1.57	4.38	212.		.6 .2&.8	10	0	FC 32
885	3-9	1037A / 1055A	Blakely	58.0	125.	1.93	4.50	241.		.6 .2&.8	10	0	FC 32
886	3-10	1151A / 1213P	"	62.0	1.58	1.94	4.75	307.		.6 .2&.8	10	0	"
887	3-11	112P / 135P	Robertson & Ealy	54.0	123.	3.25	4.94	401.		.6	11	0	FC 23
888	3-14	853A / 913A	Blakely	52.0	129.	3.02	4.93	389.		.6	11	0	FC 32
889	3-16	920P / 940P	"	58.0	113.	1.18	3.96	133.		.6 .2&.8	9	0	"
890	3-17	853A / 917A	"	58.0	125.	1.36	4.18	170.		.6 .2&.8	9	0	"
891	3-18	1043A / 1100A	"	59.0	138.	1.62	4.43	224.		.6 .2&.8	9	0	"
892	3-23	1055A / 1118A	"	64.0	165.	1.95	4.78	321.		.6 .2&.8	9	0	"
893	3-24	520P / 540P	Robertson	45.0	77.5	2.25	4.16	174.		.6	9	0	FC 23
894	3-31	1046A / 1103A	Blakely	58.5	117.	1.16	4.02	136.		.6 .2&.8	8	0	FC 32
895	4-6	1010A / 1025A	"	64.5	142.	1.49	4.42	221.		.6 .2&.8	9	0	"
896	4-6	100P / 115P	"	65.0	154.	1.67	4.62	268.		.6 .2&.8	9	0	"
897	4-13	858A / 920A	"	57.5	84.2	0.79	3.50	66.1		.6 .2&.8	12	0	"
898	4-13	156P / 216P	"	58.5	107.	1.12	3.91	120.		.6 .2&.8	12	-.01	"
899	4-14	458P / 520P	"	58.0	89.8	0.87	3.59	78.3		.6 .2&.8	12	0	"
900	4-15	948A / 1010A	"	58.5	93.5	0.93	3.65	87.3		.6 .2&.8	12	0	"
901	4-16	1256P / 120P	"	64.0	141.	1.59	4.41	224.		.6 .2&.8	14	-.02	"
902	4-17	346P / 408P	"	57.5	88.1	0.93	3.58	81.7		.6 .2&.8	12	0	"
903	4-21	1136A / 1148A	"	54.0	31.4	1.90	3.49	59.8		.6	10	0	"
904	4-27	1018A / 1040A	"	60.0	25.4	4.29	5.60	109.		.6 .5	19	0	"
905	4-29	1045A / 1107A	"	38.0	17.5	4.19	6.13	73.3		.6 .5	15	0	"
906	5-5	1202P / 1217P	"	39.0	14.5	4.40	6.82	63.8		.6 .5	16	0	"
907	5-11	155P / 210P	Turner	39.0	12.7	3.69	7.58	46.9		.6	11	0	FC 5
908	5-17	225P / 245P	"	Two Channels			7.88	42.1		.6	15	0	"
909	5-26	932A / 945A	Blakely	Three Channels				34.8		.6 .5	10	0	FC 32
910	6-2	1252P / 100P	"	25.5	13.0	3.35		43.5		.6 .5	11	0	"
911	6-2	205P / 215P	"	Four Channels				40.3		.5	14	0	"
912	6-7	240P / 255P	Turner	41.0	9.58	2.80	8.55	26.8		.6	11	0	FC 5
913	6-13	228P / 245P	Bollinger	23.8	7.70	3.09	8.65	23.8		.6	15	0	FC 6
914	6-17	1230P / 1232P	Blakely	3.8	0.30	1.53		0.46		.5	1	0	FC 32
915	6-26	1045A / 1115A	Robertson	20.5	9.68	4.24		41.0		.6	12	0	FC 23
916	6-26	130P / 200P	"	11.0	5.60	4.28		24.0		.6	6	0	"
917	6-27	330P / 400P	"	28.0	10.0	3.50		35.0		.6	14	0	"
918	6-29	250P / 305P	Mellen	16.0	7.50	3.99		29.9		.6	8	0	FC 28
919	6-29	350P / 357P	"	9.5	2.27	2.11		4.7		.6	6	0	"
920	7-6	335P / 342P	"	6.6	1.51	2.52		3.8		.6	6	0	"
921	7-13	942A / 955A	Blakely	6.3	1.60	2.75		4.4		.5	11	0	FC 32
922	7-20	1254P / 102P	"	8.0	1.88	2.34	8.79	4.4		.5	9	0	"
923	7-28	1039A / 1047A	"	6.6	2.32	2.33		5.4		.5	9	0	"
924	7-28	1106A / 1113A	"	7.1	1.92	2.47		4.8		.5	9	0	"
925	7-31	106P / 114P	Robertson-Ealy	11.0	3.20	2.42		7.8		.6	6	0	FC 23
926	8-3	314P / 323P	Blakely	9.0	3.03	3.35		10.2		.5	9	0	FC 32
927	8-10	202P / 212P	"	9.5	2.89	3.35		9.7		.5	10	0	"
928	8-17	936A / 948A	Blakely	9.0	3.76	2.55		9.6		.5	13	0	FC 32
929	8-24	942A / 954A	"	10.0	2.81	3.33		9.4		.5	10	0	"
930	8-31	1006A / 1014A	"	8.5	3.25	2.83		9.2		.5	10	0	"
931	9-7	912A / 922A	Blakely & M. Blakely	9.0	3.60	2.75		9.9		.6	15	0	"
932	9-14	315P / 333P	Gillespie & Blakely	8.2	2.96	2.89		8.6		.5	15	0	"
933	9-21	928A / 940A	Blakely	10.4	3.96	2.45		9.7		.5	12	0	"
934	9-28	935A / 945A	"	9.5	3.82	2.42		9.0		.5	12	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F168-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Big Tujunga Dam No. 1., for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	v 5.0	v 5.9	v 0.7	v 21	v 13.0	223	140	v 67	v 32	v 4.5	v 10.2	v 9.3
2	v 5.0	v 5.7	v 0.7	v 21	v 13.1	704	138	v 65	v 32	v 4.4	v 10.2	v 9.4
3	v 5.0	v 5.5	v 2.4	v 21	v 13.3	424	157	v 64	v 31	v 4.3	v 10.2	v 9.5
4	v 5.0	v 5.3	v 3.3	v 21	v 15.6	305	198	v 62	v 29	v 4.1	v 10.1	v 9.6
5	v 5.0	v 5.1	v 3.4	v 21	v 20	367	221	v 61	v 28	v 4.0	v 10.0	v 9.7
6	v 5.0	v 5.1	v 3.5	v 21	v 21	270	255	v 59	v 28	v 3.8	v 10.0	v 9.8
7	v 5.0	v 5.1	v 3.6	v 21	v 21	245	272	v 56	v 28	v 3.9	v 9.9	v 9.9
8	v 5.0	v 3.6	v 3.7	v 21	v 21	224	258	v 53	v 27	v 4.0	v 9.8	v 9.9
9	v 5.0	v 0.3	v 3.8	v 21	v 21	242	242	v 49	v 28	v 4.1	v 9.8	v 9.9
10	v 5.0	v 0.3	v 4.5	v 21	v 21	294	203	v 49	v 28	v 4.2	v 9.7	v 9.9
11	v 5.0	v 0.3	v 4.0	v 22	v 21	361	149	v 45	v 26	v 4.3	v 9.7	v 9.9
12	v 5.1	v 0.3	v 12.2	v 22	v 21	396	133	v 44	v 24	v 4.3	v 9.7	v 9.8
13	v 5.1	v 0.4	v 21	v 22	v 21	392	118	v 41	v 23	v 4.4	v 9.7	v 9.8
14	v 5.1	v 0.5	v 21	v 22	v 21	388	104	v 41	v 15.5	v 4.4	v 9.6	v 9.8
15	v 5.1	v 0.5	v 21	v 22	v 21	352	81	v 41	v 0.5	v 4.4	v 9.6	v 9.8
16	v 5.1	v 0.6	v 21	v 22	v 21	25	134	v 41	v 0.5	v 4.4	v 9.6	v 9.8
17	v 5.1	v 0.6	v 21	v 22	v 21	162	115	v 40	v 0.5	v 4.4	v 9.6	v 9.7
18	v 7.5	v 0.7	v 21	v 22	v 21	207	v 73	v 42	v 0.5	v 4.4	v 9.6	v 9.7
19	v 8.0	v 0.7	v 21	v 22	v 21	232	v 71	v 40	v 0.5	v 4.4	v 9.5	v 9.7
20	v 7.0	v 0.7	v 66	v 192	v 80	234	v 71	v 40	v 0.5	v 4.4	v 9.5	v 9.7
21	v 6.6	v 0.7	v 164	v 181	v 110	237	v 67	v 38	v 0.5	v 4.4	v 9.5	v 9.7
22	v 6.2	v 0.7	v 204	v 181	v 2300	232	v 65	v 37	v 0.5	v 4.5	v 9.4	v 9.6
23	v 6.2	v 0.7	v 104	v 181	1060	289	v 63	v 36	v 0.5	v 4.6	v 9.4	v 9.5
24	v 6.3	v 0.7	v 22	v 181	412	112	v 65	v 37	v 0.5	v 4.6	v 9.4	v 9.4
25	v 6.3	v 0.7	v 136	v 181	b 146	172	v 62	v 34	v 0.5	v 4.7	v 9.4	v 9.3
26	v 6.4	v 0.7	v 141	v 181	b 92	174	v 62	v 33	v 17.3	v 4.7	v 9.4	v 9.2
27	v 6.4	v 0.7	v 145	v 155	b 126	176	v 91	v 33	v 28	v 4.8	v 9.3	v 9.1
28	v 6.5	v 0.7	v 149	v 118	b 101	174	v 78	v 32	v 33	v 4.8	v 9.3	v 9.0
29	v 6.5	v 0.7	v 153	v 12	110	172	v 71	v 32	v 199	v 4.8	v 9.2	v 9.0
30	v 6.3	v 0.7	v 159	v 122		93	v 68	v 32	v 4.6	v 4.8	v 9.2	v 8.9
31	v 6.1		v 193	v 128		144		v 32		v 7.5	v 9.2	
	177.9	54.2	860.4	600.1	4906.0	8022	3825	1376	487.8	139.3	298.7	287.3
MEAN	5.74	1.81	27.8	19.4	169.	259.	128.	44.4	16.3	4.49	9.64	9.58
ACRE-FEET	353.	108.	1710.	1190.	9730.	15910.	7590.	2730.	967.	276.	592.	570.

Remarks: Low flows estimated due to obstructed communication to well.

YEAR OR PERIOD — MEAN 57.5 — ACRE-FEET 41,400.

STATION F213-R

BIG TUJUNGA CREEK above Gold Canyon

LOCATION:

Water-stage recorder, lat.34°18'02", long.118°16'02", 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. Elevation of gage, about 1,580 feet (from topographic map). The former station U11-R 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, 1943 to September 30, 1944.

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, 1944.
(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:

1943-1944
Maximum 4,760 second-feet, February 22.
Minimum 2.3 second-feet, November 15.
1916-1944
Maximum 50,000 second-feet, estimated, March 2, 1938.
Minimum 0.8 second-foot November 18, 1936.

ACCURACY:

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

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 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F213-R

DISCHARGE MEASUREMENTS OF BIG TUJUNGA CREEK

~~XXXX~~ above Gold Canyon 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	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
681	10-1	1035A / 1042A	Blakely	13.0	2.99	2.58	7.82	7.7		.6	7	0	FC 32
682	10-8	345P / 355P	"	18.5	3.47	1.79	7.70	6.2		.6	10	0	"
683	10-15	1041A / 1048A	"	18.7	3.83	1.70	7.69	6.5		.6	10	0	"
684	10-22	1020A / 1030A	"	19.0	4.58	2.23	7.68	10.2		.6	7	0	"
685	10-29	1257P / 107P	Blakely & van der Goot	19.0	4.35	1.91	7.74	8.3		.6	6	0	"
686	11-5	545P / 551P	Blakely	20.0	4.02	1.94	7.75	7.8		.6	7	0	"
687	11-12	1025A / 1032A	"	13.0	1.95	1.64	7.75	3.2		.6	7	0	"
688	11-19	200P / 205P	Mellen	7.0	1.83	2.13	7.74	3.9		.6	5	0	FC 28
689	11-27	115P / 125P	"	8.5	1.97	1.78	7.63	3.5		.6	5	0	"
690	12-3	1021A / 1029A	Blakely	10.0	2.22	1.83	7.67	4.1		.6	8	0	FC 32
691	12-10	927A / 936A	"	17.5	6.20	2.85	7.83	17.7		.6	8	0	"
692	12-11	357P / 412P	Koch & Pardieck	26.8	9.58	2.35	7.71	22.5		.6	12	-.01	FC 34
693	12-13	552P / 602P	Blakely	29.4	10.4	2.54	7.80	26.4		.6	9	0	FC 32
694	12-17	1034A / 1058A	Pardieck-Blakely	31.7	9.74	2.59	7.83	25.2		.6	11	0	"
695	12-18	530P / 541P	Blakely	33.5	12.3	2.92	7.88	35.9		.6	11	0	"
696	12-20	802A / 813A	"	29.7	12.0	3.13	7.92	37.6		.6	12	+.01	"
697	12-21	311A / 330A	Pardieck	22.0	38.0	7.34	8.53	279.		.6	5	-.01	FC 33
698	12-21	452P / 519P	Blakely	32.0	50.0	5.72	8.71	286.		.6	9	0	FC 32
699	12-23	1201P / 1233P	Haig	38.0	41.5	4.84	8.56	201.		.6	14	-.01	FC 35
700	12-23	305P / 320P	"	25.0	18.6	4.37	7.79	81.2		.6	11	0	"
701	12-31	1020A / 1029A	Blakely	27.0	10.3	3.03	7.41	31.2		.6	10	0	FC 32
702	1-8	943A / 954A	"	27.0	9.19	3.12	7.42	28.7		.6	10	0	"
703	1-15	810A / 820A	"	25.0	9.00	3.04	7.39	27.4		.6	9	0	"
704	1-22	1240P / 1250P	Blakely	24.5	8.71	2.63	7.29	22.9		.6	8	0	FC 32
705	1-29	940A / 950A	"	24.4	7.72	2.25	7.40	17.4		.6	9	0	"
706	2-5	930A / 938A	"	25.0	9.58	2.82	7.53	27.0		.6	9	0	"
707	2-10	944A / 952A	"	24.0	9.93	2.86	7.55	28.4		.6	9	0	"
708	2-19	1155A / 1205P	"	24.7	8.90	2.96	7.52	26.4		.6	9	0	"
709	2-20	1031A / 1056A	Luce-Pardieck	25.0	23.0	4.61	8.07	106.		.6	9	+.02	FC 39
710	2-20	318P / 340P	Pardieck & Bishop	38.0	49.2	5.45	8.63	268.		.6	10	+.02	FC 33
711	2-20	610P / 630P	" "	38.0	55.8	6.77	9.01	378.		.6	6	+.02	"
712	2-20	638P / 650P	" "	40.0	49.4	6.90	9.01	341.		.6	4	-.01	"
713	2-21	1038A / 1050A	Pardieck	48.0	43.6	5.62	8.62	245.		.6	9	0	"
714	2-21	1156A / 1220P	Pardieck	46.5	36.8	4.89	8.42	180.		.6	9	-.02	FC 33
716	2-24	1020A / 1058A	Blakely & Turner	48.0	106.	6.84	8.8	725.		.6	7	0	FC 32
717	3-4	140P / 200P	Luce	32.0	56.5	6.48	7.74	366.		.6	7	0	FC 41
718	3-7	315P / 327P	Bollinger	32.0	65.5	4.58	7.57	300.		.6	8	0	FC 6
719	3-12	1245P / 115P	Blakely	40.0	82.8	5.22	7.98	432.		.6	8	+.02 -.02	FC 40
720	3-18	222P / 300P	"	33.0	69.9	4.39	7.45	307.		.6	6	0	"
721	3-24	242P / 252P	"	29.5	36.8	1.36	6.04	49.9		.6	8	0	FC 32
722	3-24	807P / 830P	"	31.0	55.0	3.36	7.07	185.		.6	10	+.01	FC 40
723	3-30	247P / 300P	"	31.7	38.9	1.11	5.98	43.3		.6	11	0	FC 32
724	4-3	915A / 931A	"	66.0	66.6	2.45	6.94	163.		.6	12	0	"
725	4-7	1005A / 1021A	"	32.0	72.7	4.62	7.60	336.		.6	7	0	FC 40
726	4-14	1202P / 1218P	"	35.5	57.6	2.24	6.81	129.		.6	13	0	FC 32
727	4-18	205P / 223P	"	31.0	49.4	1.87	6.50	92.6		.6	16	0	"
728	4-21	312P / 332P	Blakely	32.0	48.8	1.75	6.42	85.5		.6	16	0	FC 32
729	4-28	955A / 1010A	"	32.0	51.4	1.95	6.54	100.		.6	16	0	"
730	5-5	244P / 302P	"	31.0	27.2	2.38	6.24	64.7		.6 .5	16	0	"
731	5-11	930A / 945A	Turner	33.0	21.7	3.04	6.20	65.9		.6	14	0	FC 5
732	5-19	330P / 345P	"	33.0	17.4	2.98	6.12	51.8		.6	11	0	"
733	6-2	406P / 424P	Blakely	31.0	18.0	2.92	6.17	52.6		.6 .5	16	0	FC 32
734	6-7	905A / 920A	Turner	34.5	13.3	2.62	6.16	34.9		.5	11	0	FC 5
735	6-13	500P / 513P	Bollinger	22.5	12.0	3.15	6.17	37.8		.6	12	0	FC 6
736	6-17	455P / 503P	Blakely	16.0	3.77	2.23	6.02	8.4		.5	9	0	FC 32
737	6-23	327P / 333P	"	13.0	4.34	2.35	6.03	10.2		.6 .5	8	0	"
738	6-29	440P / 455P	Mellen	20.0	10.5	3.11	6.16	32.7		.6	10	0	FC 28
739	7-6	510P / 520P	"	12.7	4.61	1.60	5.88	7.4		.6	7	0	"
740	7-14	847A / 903A	Blakely	17.0	4.80	2.27	5.84	10.9		.5	16	0	FC 32
741	7-20	348P / 358P	"	18.0	4.79	1.80	5.85	8.6		.5	10	0	"
742	7-28	253P / 301P	"	14.0	4.98	1.86	5.80	9.2		.5	9	0	"
743	8-4	1236P / 1248P	"	11.7	6.03	2.31	5.86	13.9		.6 .5	12	0	"
744	8-11	205P / 214P	"	18.5	6.36	1.93	5.81	12.3		.5	10	0	"
745	8-18	914A / 922A	"	17.5	6.41	2.15	5.83	13.8		.6 .5	10	0	"
746	8-24	227P / 235P	"	16.5	5.50	2.26	5.87	12.4		.5	10	-.01	"
747	8-31	303P / 312P	"	16.7	6.29	2.18	5.84	13.5		.5	11	-.01	"
748	9-7	724A / 732A	Blakely & M. Blakely	17.5	6.01	2.22	5.82	13.4		.5	10	0	"
749	9-15	1052A / 1112A	Gillespie & Blakely	16.5	4.96	2.24	5.93	11.1		.5	10	0	"
750	9-21	330P / 338P	Blakely	18.0	5.46	1.89	5.93	10.3		.5	9	0	"
751	9-28	250P / 300P	"	18.5	5.18	2.09	5.96	10.8		.5	10	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

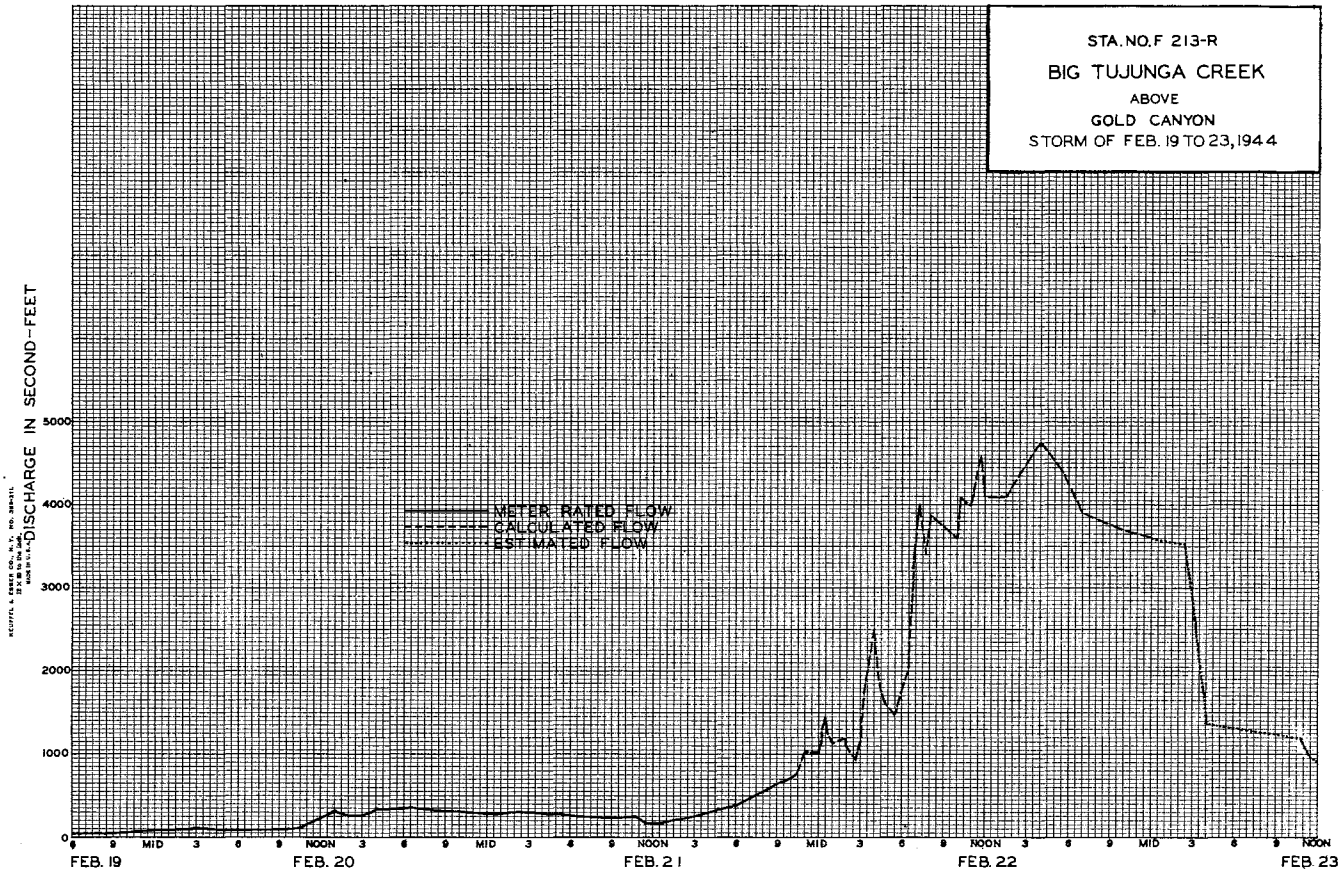
Sta. No. F213-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Gold Canyon, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	7.5	4.6	32	16	b 393	167	b 78	b 50	b15	12	13
2	7.5	7.5	4.9	27	16	v1100	165	b 75	b 50	b15	12	13
3	8.5	7.5	4.9	27	18	v 634	179	b 72	b 49	b14	12	13
4	7.5	7	6.5	28	22	v 515	230	b 70	b 48	b14	12	13
5	7	7.5	9	29	27	v 567	252	b 68	b 47	b13	12	13
6	7	8	7.5	33	27	v 450	300	b 66	b 46	b13	13	13
7	6.5	7	7.5	27	27	v 405	330	b 65	b 45	b13	13	12
8	6.5	6.5	7.5	28	38	295	312	b 63	b 44	b12	13	11
9	7.5	4.6	7.5	28	34	310	288	b 62	b 43	15	14	11
10	8	4.2	27	27	29	349	244	b 61	b 41	12	14	9.5
11	8.5	3.0	28	26	30	403	179	b 60	b 40	12	13	8.5
12	7	3.0	18	28	29	432	149	b 59	b 38	11	14	8
13	8	2.5	24	28	28	432	144	b 58	b 38	10	14	8.5
14	8	2.8	27	28	28	429	127	b 58	b 27	10	15	8.5
15	7	2.3	25	26	29	417	100	b 57	b 12	9.5	13	9.5
16	8.5	2.5	25	28	28	b109	144	b 57	b 12	11	12	11
17	9.5	3.5	26	28	28	230	148	b 56	b 10	9.5	12	11
18	12	4.2	38	29	27	278	92	b 56	11	8.5	12	10
19	10	3.5	41	28	33	308	90	b 55	11	8.5	12	11
20	9.5	4.9	129	26	207	308	89	b 55	11	8.5	12	11
21	9.5	5.5	266	24	368	310	86	b 55	14	8.5	14	10
22	10	3.3	239	23	3320	305	82	b 55	14	9.5	13	11
23	10	4.2	149	25	1390	354	81	b 55	12	10	13	12
24	11	3.8	f 42	26	574	180	80	b 54	9.5	9.5	13	11
25	11	4.9	b 29	20	269	200	78	b 54	10	10	15	11
26	9	4.9	b 28	21	b192	202	76	b 54	23	11	16	11
27	8.5	3.8	b 28	20	218	202	110	b 54	34	12	15	10
28	8	4.2	b 27	14	188	200	98	b 53	37	11	16	10
29	8	5.5	b 28	15	b196	196	88	b 52	29	10	16	a10
30	7.5	4.6	b 30	15		125	81	b 52	b 16	10	16	a10
31	7.5		f 33	16		170		b 51		11	14	
	261.0	13669	7436	10858		1840		872.5	347.0		417	3245
		144.2	780.0			4589						
MEAN	8.42	4.81	44.1	25.2	256.	350.	153.	59.4	29.1	11.2	13.5	10.8
ACRE-FEET	518.	286.	2710.	1550.	14,750.	21,540.	9100.	3650.	1730.	688.	827.	644.

Remarks:

YEAR OR PERIOD MEAN 79.9
ACRE-FEET 57990.



STATION F20B-R

TUJUNGA WASH at Glen Oaks Boulevard

LOCATION:

Water-stage recorder, lat. 34°15'08", long. 118°23'11", on the downstream side of the Glen Oaks Boulevard (formerly Remsen Avenue) bridge approximately 3 miles southeast of San Fernando and 0.5 mile below Hansen Dam. Elevation of gage, about 947 feet (from topographic map).

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 2, 1940 over a 21 inch corrugated iron pipe stilling well. H.C.F. recorder was in service from October 1, 1943 to September 30, 1944. August 25, 1944 a water-stage recorder was installed 0.5 mile upstream from Glen Oaks Boulevard at F 286-R by Corps of Engineers, U. S. Army.

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 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,100 second-feet, February 22.
Minimum no flow most of year.
1932-1944 at Station F20-R, F20B-R, and F20C-R.
Maximum 54,000 second-feet, estimated, March 2, 1938.
Minimum no flow part of each year.

ACCURACY:

Good.

OPERATION:

Located and constructed by the Los Angeles County Flood Control District. Operated in co-operation with the United States Geological Survey and Corps of Engineers, U. S. Army.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F 20B-R

DISCHARGE MEASUREMENTS OF TUJUNGA WASH

AT Glen Oaks Boulevard 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.
372	10-1	835A / 840A	Luce	21.0	10.1	0.84	1.70	8.5		.6	11	0	FC39
373	10-1	205P / 215P	U.S.E.D.	15.0	9.70	0.67	1.70	6.5		.6	8	0	35616
374	10-8	135P / 145P	Luce	19.5	6.95	0.68	1.70	4.7		.6	9	0	FC39
375	10-12	330P / 340P	U.S.E.D.	14.0	9.40	0.60	1.68	5.7		.6	9	0	35616
376	10-14	904A / 916A	Blakely	24.0	9.86	0.55	1.68	5.4		.6	9	0	FC32
377	10-22	1035A / 1050A	Luce	21.2	12.2	0.86	1.80	10.5		.6	11	0	FC39
378	10-29	920A / 930A	"	21.4	12.4	0.87	1.80	10.8		.6	11	0	"
379	11-2		U.S.G.S.	24.0	7.4	0.53	1.65	3.9		.6	24	0	
380	11-2	305P / 315P	U.S.E.D.	9.5	6.2	0.61	1.66	3.7		.6	7	0	35616
381	11-5	915A / 925A	Luce	19.5	9.02	0.50	1.65	4.5		.6	10	0	FC39
382	11-9	215P / 225P	U.S.E.D.	6.8	4.3	0.44	1.57	1.9		.6	8	0	35622
383	11-12	305P / 310P	Luce	7.0	2.10	0.44	1.48	0.92		.6	5	0	FC39
384	11-19	230P / 240P	"	11.0	3.81	0.37	1.48	1.4		.6	8	0	"
385	11-26	415P / 425P	"	4.0	0.84	0.55	1.42	0.46		.6	5	0	"
386	12-3	325P / 342P	"	5.0	1.14	0.61	1.44	0.70		.6	8	0	"
387	12-21	1000A / 1035A	U.S.E.D.	58.0	74.0	1.86	2.69	138.		.6	19	+.01	35622
388	12-24	1020A / 1040A	U.S.E.D.	37.5	42.4	1.77	2.50	75.4		.6	14	0	35549
389	12-29	120P / 145P	U.S.E.D.	63.5	54.5	1.28	2.38	69.8		.6	15	0	35616
390	1-3		U.S.G.S.	36.0	36.3	1.49	2.29	54.0		.6	22	0	
391	1-3	250P / 315P	U.S.E.D.	31.0	38.8	1.37	2.28	53.1		.6	16	0	35549
392	1-12	320P / 333P	U.S.E.D.	32.0	21.0	2.20	2.27	45.4		.6	12	0	35549
393	1-19	1100A / 1128A	U.S.E.D.	58.0	46.6	2.53	2.68	118.		.6	16	0	35549
394	1-19	1205P / 1233P	U.S.E.D.	58.5	64.0	2.60	2.91	166.		.6	16	0	35549
395	1-19	100P / 125P	U.S.E.D.	57.0	39.1	1.94	2.47	76.0		.6	17	-.01	35549
396	1-19	155P / 215P	U.S.E.D.	56.0	22.0	1.68	2.30	37.1		.6	13	-.01	35549
397	1-19	257P / 314P	U.S.E.D.	55.0	20.0	1.27	2.00	25.5		.6	14	-.04	35549
398	1-19	324P / 334P	U.S.E.D.	51.0	12.0	1.20	1.80	15.0		.6	12	-.09	35549
399	1-21	1023A / 1054A	U.S.E.D.	56.0	27.0	1.62	2.27	44.4		.6	15	+.06	35622
400	1-21	1130A / 1140A	Luce	29.0	42.4	1.29	2.27	54.8		.6	8	0	FC39
401	1-21	1246P / 140P	U.S.E.D.	59.0	63.6	2.75	2.82	175.		.6	15	0	7
402	1-21	145P / 230P	U.S.E.D.	58.0	62.8	2.80	2.81	176.		.6	15	0	7
403	1-21	305P / 340P	U.S.E.D.	58.0	45.4	2.29	2.56	104.		.6	16	0	35622
404	1-26	155P / 215P	U.S.E.D.	55.0	23.7	1.44	2.13	34.2		.6	15	0	35549
405	1-28	1050A / 1105A	Luce	44.5	32.2	1.49	2.08	34.5		.6	16	0	FC39
406	2-1	130P / 150P	U.S.E.D.	53.0	16.0	1.03	1.88	16.5		.6	14	0	35549
407	2-4	350P / 405P	Luce	26.0	25.0	0.57	1.86	14.2		.6	13	0	FC39
408	2-8	1050A / 1110A	U.S.E.D.	24.0	18.0	0.94	1.87	16.8		.6	12	0	35549
409	2-14	1145A / 1200N	U.S.E.D.	34.0	24.0	0.81	1.92	19.1		.6	14	0	35549
410	2-21		U.S.G.S.	60.0	104.	3.59	3.25	361.		.6	15	0	
411	2-22	230P / 320P	U.S.E.D.	66.0	181.	6.08	4.62	1100.		.6	13	+.04	2
412	2-23	1254P / 145P	U.S.E.D.	65.0	171.	5.41	4.54	925.		.6	13	0	2
413	2-23	145P / 235P	U.S.E.D.	65.0	174.	5.75	4.54	1000.		.6	13	0	2
414	2-23	245P / 325P	U.S.E.D.	65.0	171.	5.49	4.54	938.		.6	13	0	2
415	2-24	225P / 325P	U.S.E.D.	66.0	180.	5.14	4.67	925.		.6	16	0	2
416	2-24	330P / 405P	U.S.E.D.	66.0	179.	5.45	4.67	975.		.6	17	0	2
417	2-25	1023A / 1100A	U.S.E.D.	66.0	176.	5.35	4.60	942.		.6	15	0	2
418	2-25	1105A / 1140A	U.S.E.D.	66.0	178.	5.24	4.59	932.		.6	14	0	2
419	2-26	1210P / 1220P	U.S.E.D.	66.0	180.	5.30	4.57	954.		.6	16	0	2
420	2-26	130P / 210P	U.S.E.D.	66.0	181.	5.46	4.56	988.		.6	14	0	2
421	3-1	240P	U.S.E.D.	62.0	113.	3.95	3.62	446.		.6	14	0	6
422	3-2		U.S.G.S.	64.0	138.	4.96	4.10	685.		.6	16	0	
423	3-2	200P / 240P	U.S.E.D.	64.0	173.	4.95	4.48	856.		.6	15	0	35622
424	3-4	1025A / 1125A	U.S.E.D.	64.0	122.	4.86	3.88	593.		.6	15	0	35622
425	3-7	1255P / 125P	Turner	61.0	102.	3.45	3.36	352.		.6	15	0	FC5
426	3-9	830A / 845A	Turner & Luce	57.0	94.9	3.62	3.32	344.		.6	14	0	"
427	3-10	220P / 253P	U.S.E.D.	62.0	90.0	4.15	3.37	366.		.6	15	0	35622
428	3-17	1250P / 115P	U.S.E.D.	58.0	62.0	2.80	2.86	173.		.6	13	0	35549
429	3-18	1100A / 1120A	Luce	53.0	71.2	3.20	3.00	228.		.6	13	0	FC39
430	3-21	235P / 255P	U.S.E.D.	60.0	80.0	3.33	3.15	268.		.6	13	0	35549
431	3-23	315P / 330P	U.S.E.D.	60.0	79.0	3.21	3.16	255.		.6	14	0	35549
432	3-24	1000A / 1020A	Luce	59.0	85.7	3.21	3.18	275.		.6	15	0	FC39
433	3-28	1240P / 100P	U.S.E.D.	59.0	67.0	2.91	2.95	194.		.6	13	0	35549
434	4-1	255P / 315P	U.S.E.D.	58.0	58.0	2.76	2.80	161.		.6	13	0	35549
435	4-5	1110A / 1130A	U.S.E.D.	59.0	71.0	3.05	2.99	217.		.6	14	0	3

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F20B-R

Daily discharge, in second-feet of TUJUNGA WASH at Glen Oaks Boulevard, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.5	3.7	0.2	80	17	547	183	0	0	0	0	13
2	7	3.7	0.6	66	15	717	160	0	0	0	0	0
3	6.5	3.9	0.7	54	14	844	163	0	0	0	0	0
4	6	4.2	1.3	18	15	598	199	0	0	0	0	6.5
5	5.5	4.5	2.6	0	15	644	220	0	0	0	0	2.9
6	5	4.2	6	0	16	555	170	0	0	0	0	8.5
7	5	3.7	5	0	17	457	0.2	0	0	0	0	1.4
8	5	3.7	4.5	0	17	376	0.1	0	0	0	0	0
9	5	2.0	1.9	0	30	339	0	0	0	0	0	0
10	5.5	1.2	0.4	0	29	352	0	0	0	0	0	0
11	6	0.8	0.2	0	24	349	0	0	0	0	0	8.5
12	6	0.9	0	19	22	447	0	0	0	0	0	14
13	6	0.9	0	24	19	448	0	0	0	0	0	12
14	5.5	0.8	0	0	20	455	0	0	0	0	0	0.1
15	5.5	0.6	0	0	20	404	0	0	0	0	0	5.5
16	5.5	0	0	0	21	214	0	0	0	0	0	5.5
17	6	0.5	0	0	21	174	0	0	0	0	0	0.1
18	6	1.3	0.1	0	19	220	0	0	0	0	0	0
19	10	1.3	0	37	18	269	0	0	0	0	0	1.6
20	11	1.3	6.5	58	84	272	0	0	0	0	0	0
21	11	1.2	9.7	67	310	269	0	0	0	0	0	0.2
22	11	1.0	0	50	892	269	0	0	0	0	0	0
23	10	0.8	0	48	956	280	0	0	0	0	0	0
24	9	0.7	5.7	44	985	236	0	0	0	0	0	0
25	8.5	0.7	8.7	43	962	193	0	0	0	0	0	0.3
26	9	0.6	8.3	40	962	202	0	0	0	0	0	0.2
27	9	0.5	7.8	35	942	202	0.7	0	0	0	0	0.01
28	10	0.5	7.5	32	654	202	0.1	0	0	0	1.4	0.4
29	8	0.3	7.0	24	954	199	0.1	0	0	0	1.8	0.01
30	4.2	0.1	6.6	21		155	0	0	0	0	9.5	0
31	3.9		8.2	19		150		0		0	8	
	2191	49.6	725.0	779	8070	11038	1076.2	0	0	0	20.7	80.54
MEAN	7.07	1.65	23.4	25.1	278.	356.	35.9	0	0	0	.67	2.68
ACRE FEET	435.	98.	1440.	1550.	16,010.	21,890.	2,130.	0	0	0	41.	160.

Remarks:

YEAR OR PERIOD MEAN 60.3 ACRE-FEET 43,750.

STATION F105-R

TUJUNGA WASH at Magnolia Boulevard

LOCATION:

Water-stage recorder, lat.34°09'53", long.118°24'43", on the downstream side of Magnolia Boulevard bridge, about 2 miles west of North Hollywood. Elevation of zero gage height, 632.91 feet.

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, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 460 second-feet February 20.
Minimum 0.3 second-foot various days.
1930-1944
Maximum discharge not determined.
Maximum discharge of record, 1,350 second-feet January 22, 1943.
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 3M 7-44

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, 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.	O. HT. CHANGE TOTAL	METER NO.
39	11-5	904A / 908A	Bollinger	2.0	0.37	0.73	8.08	0.27		.6	3	0	F06
40	12-11	150P / 155P	Turner-Smith	4.0	0.64	1.08	8.12	0.69		.6	5	0	F05
41	12-29	135P / 140P	Turner	5.0	0.77	0.84		0.65		.6	6	0	"
42	1-7	1000A / 1005A	"	5.0	0.70	0.69		0.48		.6	5	0	"
43	1-28	1050A / 1055A	"	5.0	0.94	1.28	7.84	1.2			5	0	"
44	2-4	1030A / 1035A	"	Two Channels			7.82	0.75		.6	7	0	"
45	2-25	235P / 240P	" Belt	5.5	1.73	1.04	7.46	1.8		.6	6	0	"
46	3-2	330A / 345A	" "	50.0	39.8	1.31	8.60	52.3		.6	6	0	"
47	3-3	1005A / 1015A	Turner	9.0	2.15	1.16	7.60	2.5		.6	7	0	"
48	3-10	950A / 955A	"	4.0	1.61	1.49	7.56	2.4		.6	5	0	"
49	3-24	1000A / 1010A	"	5.0	1.43	1.19	7.56	1.70		.6	6	0	"
50	4-14	1000A / 1005A	"	5.5	1.35	0.89	7.56	1.2		.6	6	0	"
51	4-28	935A / 940A	"	6.0	1.42	0.99	7.48	1.4		.6	6	0	"
52	5-12	1000A / 1005A	"	5.5	1.30	0.92	7.46	1.2		.5	6	0	"
53	5-25	930A / 935A	"	5.0	1.30	0.85	7.44	1.1		.5	6	0	"
54	6-16	838A / 844A	Bollinger	4.8	1.42	0.92	7.48	1.3		.6	5	0	F06
55	7-6	810A / 817A	"	4.0	1.45	0.83	7.46	1.2		.6	5	0	"
56	8-31	955A / 1000A	Turner	4.0	0.72	0.96	7.58	0.69		.5	4	0	F05

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

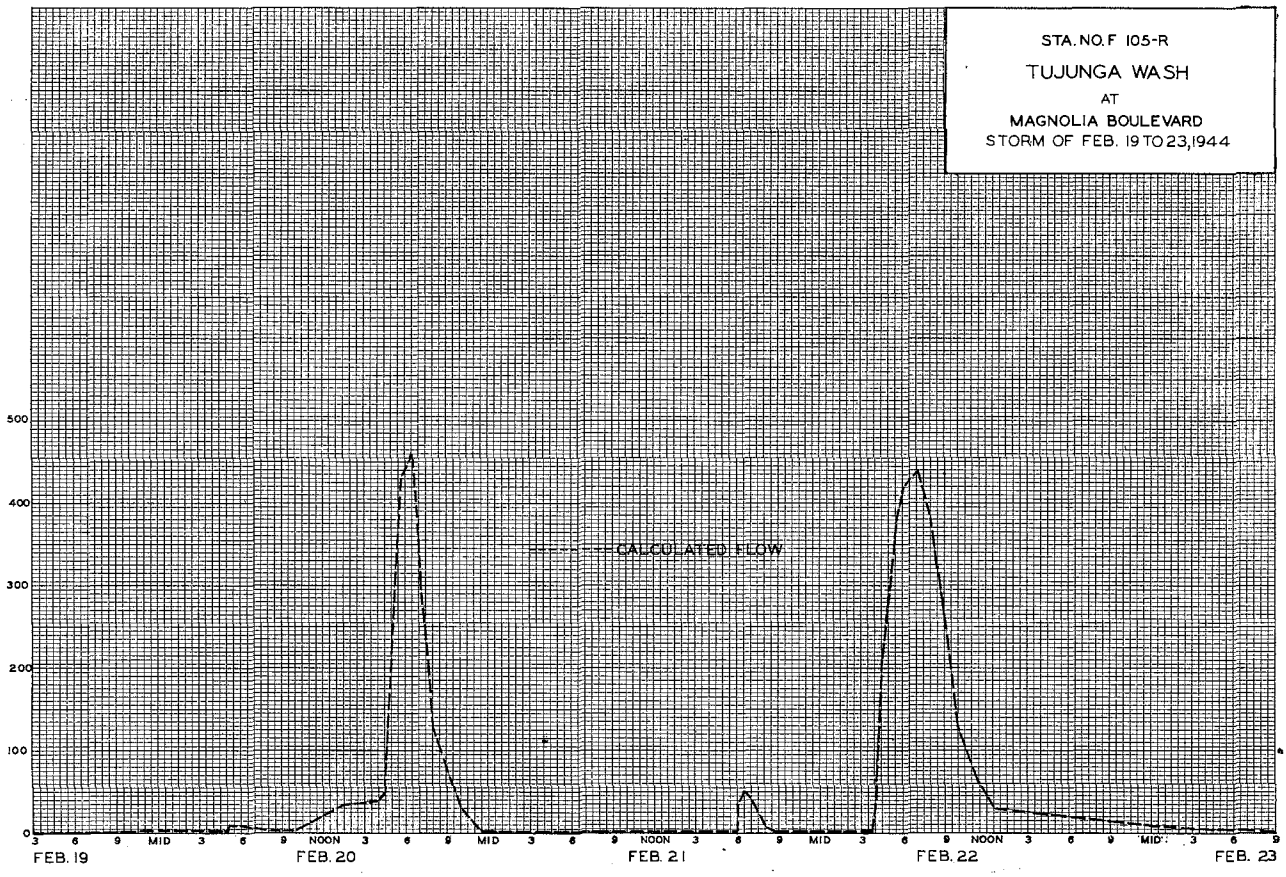
Sta. No. F105-R.

Daily discharge, in second-feet of TUJUNGA WASH at Magnolia Boulevard, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.3	0.3	0.6	1.1	1.3	1.5	1.4	1.1	1.2	0.9	0.7
2	0.4	0.3	0.3	0.6	1.0	2.3	1.5	1.3	1.2	1.2	0.9	0.7
3	0.4	0.3	0.3	0.6	0.9	2.5	1.4	1.3	1.2	1.2	0.9	0.7
4	0.4	0.3	0.3	0.5	0.8	2.5	1.4	1.3	1.2	1.2	0.9	0.7
5	0.4	0.3	0.3	0.5	0.8	2.5	1.4	1.3	1.2	1.2	0.9	0.7
6	0.4	0.3	0.3	0.5	0.8	2.5	1.4	1.3	1.2	1.2	0.9	0.7
7	0.4	0.3	0.3	0.5	0.8	2.4	1.4	1.3	1.2	1.2	0.9	0.7
8	0.4	0.3	0.3	0.5	0.8	2.4	1.3	1.3	1.2	1.2	0.9	0.7
9	0.4	0.3	0.3	0.5	0.8	2.4	1.3	1.2	1.2	1.2	0.9	0.7
10	0.4	0.3	0.3	0.5	0.8	2.4	1.3	1.2	1.3	1.2	0.8	0.7
11	0.4	0.3	0.7	0.5	0.8	2.4	1.2	1.2	1.3	1.2	0.8	0.6
12	0.4	0.3	1.0	0.5	0.8	2.3	1.2	1.2	1.3	1.1	0.8	0.6
13	0.4	0.3	0.7	0.5	0.8	2.3	1.2	1.2	1.3	1.1	0.8	0.6
14	0.4	0.3	0.7	0.5	0.8	2.2	1.2	1.2	1.3	1.1	0.8	0.6
15	0.4	0.3	0.7	0.5	0.8	2.1	1.2	1.2	1.3	1.1	0.8	0.6
16	0.4	0.3	0.7	0.5	0.8	2.0	1.2	1.2	1.3	1.1	0.8	0.6
17	0.4	0.3	0.7	0.5	0.8	2.0	1.2	1.2	1.3	1.1	0.8	0.6
18	0.4	0.3	1.4	0.5	0.8	1.9	1.2	1.2	1.3	1.1	0.8	0.6
19	0.3	0.3	1.4	0.5	1.1	1.9	1.2	1.1	1.3	1.1	0.8	0.6
20	0.3	0.3	6	0.5	6.2	1.8	1.2	1.1	1.3	1.1	0.8	0.6
21	0.3	0.3	4.5	0.5	4.6	1.8	1.2	1.1	1.3	1.0	0.7	0.6
22	0.3	0.3	1.0	0.5	9.7	1.7	1.2	1.1	1.3	1.0	0.7	0.6
23	0.3	0.3	0.9	0.6	2.5	1.7	1.2	1.1	1.3	1.0	0.7	0.6
24	0.3	0.3	0.8	0.7	2.0	1.7	1.2	1.1	1.3	1.0	0.7	0.6
25	0.3	0.3	0.7	0.8	1.8	1.7	1.2	1.1	1.3	1.0	0.7	0.6
26	0.3	0.3	0.6	0.9	2.0	1.6	2.1	1.1	1.2	1.0	0.7	0.6
27	0.3	0.3	0.6	1.0	2.0	1.6	2.5	1.1	1.2	1.0	0.7	0.6
28	0.3	0.3	0.6	1.2	2.0	1.6	1.4	1.1	1.2	1.0	0.7	0.6
29	0.3	0.3	0.9	1.2	2.0	1.6	1.4	1.1	1.2	1.0	0.7	0.6
30	0.3	0.3	0.9	1.2		1.6	1.4	1.1	1.2	1.0	0.7	0.6
31	0.3		0.9	1.2		1.5		1.1		1.0	0.7	
	11.1	9.0	29.4	20.1	194.0	94.6	40.7	36.8	37.5	34.1	24.6	19.0
MEAN	0.36	0.30	0.95	0.65	6.92	3.05	1.36	1.18	1.25	1.10	0.79	0.63
ACRE-FEET	22.	18.	58.	40.	385.	188.	81.	73.	74.	68.	49.	38.

Remarks: Low flows interpolated between measurements.

YEAR OR PERIOD MEAN 1.51
ACRE-FEET 1090.



STATION F106-R

TUJUNGA WASH - CENTRAL BRANCH at Magnolia Boulevard

LOCATION:

Water-stage recorder, lat. 34°09'53", long. 118°22'53", on the downstream side of Magnolia Boulevard bridge in North Hollywood.
Elevation of zero gage height, 618.83 feet.

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 F106-R. Removed March 1936. Installed temporarily March 1936 at Station F106B-R at Chandler Blvd. Removed July, 1936. Reinstalled August 1936 at Station F106-R. Removed March 2, 1938.
Reinstalled September 25, 1939 at Station F106B-R at Chandler Blvd. Removed November 11, 1941.
Reinstalled November 24, 1941 at Station F106-R over a 20 inch diameter corrugated iron pipe stilling well. An H.C.F. continuous recorder was in service from October 1, 1943 to September 30, 1944.

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 F106-R
August, 1930 to March 18, 1936.
August 20, 1936 to March 2, 1938.
November 24, 1941 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,540 second-feet, February 22.
Minimum no flow most of year.
1930-1944
Maximum discharge not determined.
Maximum discharge of record, 3,110 second-feet, January 1, 1934.
Minimum no flow most of year.

ACCURACY:

Fair.
Discharge-gage height relation unreliable at times.

OPERATION:

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

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

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, 19 44

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.
92	12-21	355P / 405P	Bollinger	50.0	13.4	1.46	4.83	19.6		.6	10	0	F06
93	12-29	105P / 115P	Turner	Two Channels			4.78	4.8		.6	10	0	F05
94	2-21	830A / 850A	"	"	"		5.16	113		.6	10	0	"
95	2-22	420A / 430A	" & Hedge	"	"		5.5	491		.6	8	0	"
96	2-22	750A / 810A	" "	"	"		5.8	1010		.6	7	0	"
97	2-25	145P / 205P	" & Bolt	Three	"		5.46	629		.6	8	0	"
98	2-28	315P / 320P	"	4.5	1.14	1.05	4.02	1.2		.6	5	0	"
99	3-1	100P / 130P	"	Three Channels			5.2	274		.6	23	0	"
100	3-2	235A / 252A	" & Bolt	Two Channels			5.25	511		.6	8	0	"
101	3-3	1120A / 1155A	"	Three Channels			5.6	572		.6	19	0	"
102	3-7	325P / 345P	"	Three Channels			5.4	159		.6	14	0	"
103	3-9	100P / 115P	" & Luce	82.4	39.0	4.08	5.5	159		.6	18	+.11	"
104	3-14	915A / 945A	"	Two Channels			5.6	258		.6	14	0	"
105	3-17	1010A / 1030A	"	43.0	10.5	2.40	5.16	25.2		.6	10	0	"
106	3-21	300P / 330P	"	Three Channels			5.57	95.6		.6	20	0	"
107	3-24	1025A / 1045A	"	"	"		5.46	137		.6	16	0	"
108	3-31	205P / 220P	"	Two	"		5.39	39.4		.6	9	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

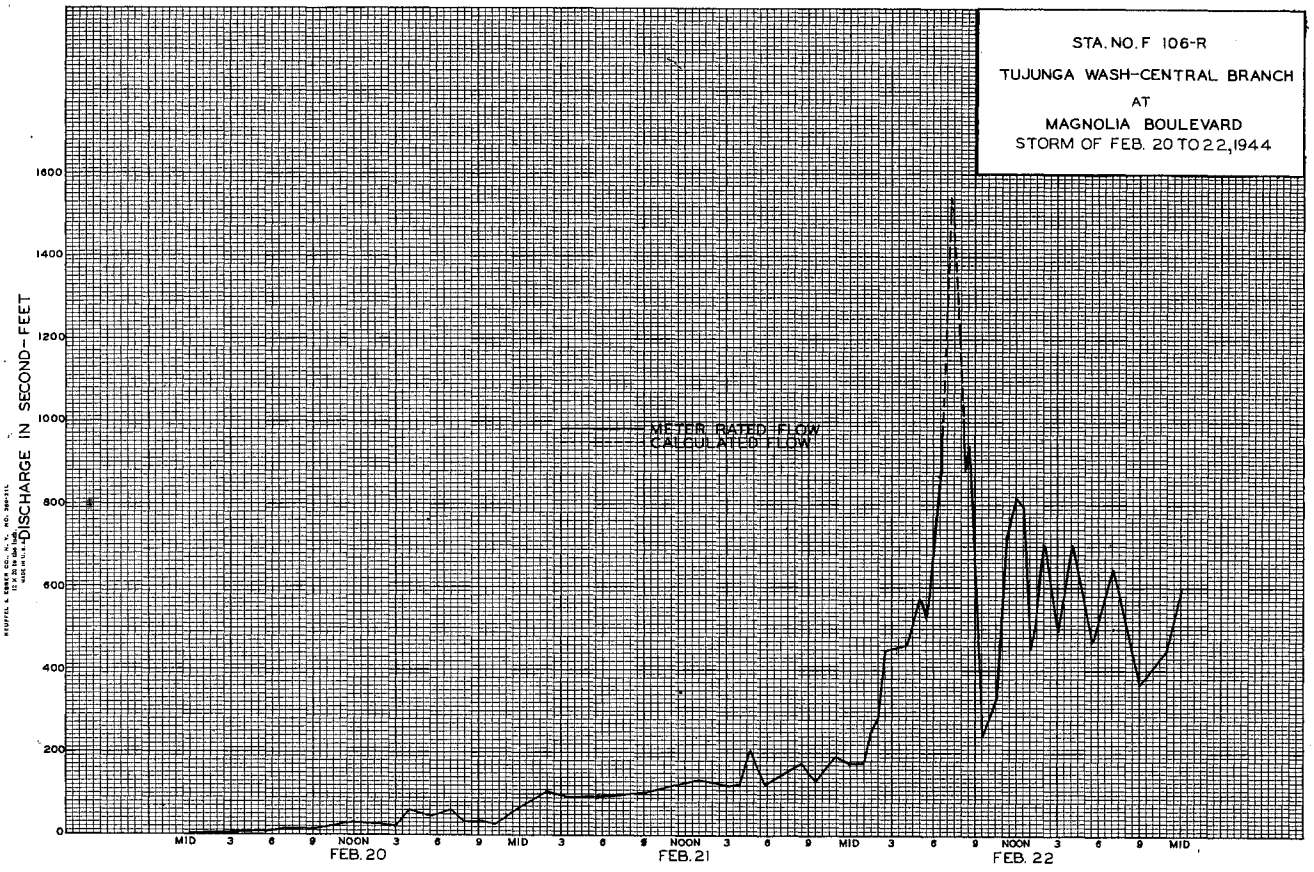
Sta. No. F106-R

Daily discharge, in second-feet of TUJUNGA WASH-CENTRAL BRANCH at Magnolia Boulevard, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	2.4	0	351	d20	+	+	+	+	+
2	0	0	0	1.7	0	591	d19	+	+	+	+	+
3	0	0	0	1.3	+	497	d18	+	+	+	+	+
4	0	0	0	0	+	336	17	+	+	+	+	+
5	0	0	+	0	0	401	16	+	+	+	+	+
6	0	0	6.5	0.2	0	312	13	+	+	+	+	+
7	0	0	0	0	0	240	d0.1	+	+	+	+	+
8	0	0	0	0	+	d160	d0.1	+	+	+	+	+
9	0	0	21	0	0	d160	+	+	+	+	+	+
10	0	0	26	0	0	d160	+	+	+	+	+	+
11	0	0	1.3	+	0	132	+	+	+	+	+	+
12	0	0	0.4	0	0	184	+	+	+	+	+	+
13	0	0	0	0	0	216	+	+	+	+	+	+
14	0	0	0	0	0	d260	+	+	+	+	+	+
15	0	0	0	0	+	d225	+	+	+	+	+	+
16	0	0	0	0	0	125	+	+	+	+	+	+
17	0	+	0	0	0	35	+	+	+	+	+	+
18	0	0	0.4	+	0	54	+	+	+	+	+	+
19	0	0	+	0	0.1	85	+	+	+	+	+	0
20	0	0	4.0	+	26	d101	+	+	+	+	+	0
21	0	0	9	0	124	d118	+	+	+	+	+	+
22	0	0	0.5	0	564	d135	+	+	+	+	+	+
23	0	0	0	+	d605	152	+	+	+	+	+	0
24	0	0	0	0.2	d623	144	+	+	+	+	+	0
25	0	0	0.9	0	d630	84	+	+	+	+	+	0
26	0	0	2.2	+	d630	86	+	+	+	+	+	0
27	0	0	2.1	+	d596	d 74	0.4	+	+	+	+	0
28	0	0	2.3	0	319	d 62	+	+	+	+	+	0
29	0	0	5	0	d355	50	+	+	+	+	+	+
30	0	0	2.4	+		31	+	+	+	+	+	+
31	0		2.4	+		24		+		+	+	
	0	+	86.4	5.8	4472.1	5585	103.6	+	+	+	+	+
MEAN	0	+	2.79	0.19	154.	180.	3.45	+	+	+	+	+
ACRE-FEET	0	+	171.	12.	8,870.	11,080.	205.	+	+	+	+	+

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

YEAR OR PERIOD MEAN 28.0
ACRE-FEET 20340.



STATION F270-R

CALABASAS CREEK at Ventura Boulevard

LOCATION:

Water-stage recorder, lat.34°09'27", long.118°38'18", 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. Elevation of gage, about 928 feet.

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, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 550 second-feet, February 22.
Minimum no flow most of year.
1940-1944
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 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F270-R

DISCHARGE MEASUREMENTS OF CALABASAS CREEK

~~AT~~ ~~NEAR~~ Ventura Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19~~44~~

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.
42	2-20	310P / 315P	Turner & Smith	6.0	7.05	3.15	2.52	22.2		.6	6	0	FC5
43	2-21	430P / 440P	Turner	7.0	9.70	4.99	2.72	48.4		.6	7	0	"
44	2-28	1040A / 1045A	"	4.5	1.04	0.38	1.44	0.40		.6	5	0	"
45	3-2	1125A / 1130A	Turner & Belt	6.0	5.68	2.32	2.10	13.2		.6	7	0	"
46	3-6	1128A / 1133A	Turner	4.2	2.14	0.51	1.48	1.1		.6	5	0	"
47	3-11	1005A / 1010A	"	2.0	0.34	1.15	1.38	0.39	Surf.		4	0	"
48	3-16	345P / 350P	"	4.0	1.28	0.16	1.36	0.20	Float		4	0	
49	3-23	335P / 340P	"	1.3	0.14	0.64	1.37	0.09	"		3	0	

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F270-R

Daily discharge, in second-feet of CALABASAS CREEK at Ventura Boulevard, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	6.5	0	0	0	0	0	0
2	0	0	0	0	0	f18	+	0	0	0	0	0
3	0	0	0	0	0	3.6	+	0	0	0	0	0
4	0	0	0	0	0	2.6	0	0	0	0	0	0
5	0	0	0	0	0	2.2	+	0	0	0	0	0
6	0	0	0	0	0	1.3	+	0	0	0	0	0
7	0	0	0	0	0	1.0	+	0	0	0	0	0
8	0	0	0	0	0	0.7	+	0	0	0	0	0
9	0	0	0	0	0	0.6	+	0	0	0	0	0
10	0	0	0	0	0	0.5	+	0	0	0	+	0
11	0	0	+	0	0	0.4	+	0	0	0	0	0
12	0	0	0	0	0	0.4	+	0	0	0	0	0
13	0	0	0	0	0	0.4	+	0	0	0	0	0
14	0	0	0	0	0	0.3	+	0	0	0	0	0
15	0	0	0	0	0	0.2	0	0	0	0	0	0
16	0	0	0	0	0	0.2	0	0	0	0	0	0
17	0	0	0	0	0	0.2	0	0	0	0	0	0
18	0	0	0	0	0	0.2	0	0	0	0	0	0
19	0	0	0	0	0.9	0.3	0	0	0	0	0	0
20	0	0	1.6	0	1.6	0.2	0	0	0	0	0	0
21	0	0	+	0	24	0.1	0	0	0	0	0	0
22	0	0	0	0	e114	0.1	0	0	0	0	0	0
23	0	0	0	0	4.2	0.1	0	0	0	0	0	0
24	0	0	0	0	+	0.1	0	0	0	0	0	0
25	0	0	0	0	+	0.1	0	0	0	0	+	0
26	0	0	0	0	+	0.1	0	0	0	0	0	0
27	0	0	0	0	+	0.1	+	0	0	0	0	0
28	0	0	0	0	+	+	0	0	0	0	0	0
29	0	0	+	0	+	0	0	0	0	0	0	0
30	0	0	+	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		1.6		1591		+		0		+	
		0		0		405		0		0		0
MEAN	0	0	0.05	0	5.49	1.31	+	0	0	0	0	0
ACRE-FEET	0	0	3.2	0	316.	80.	+	0	0	0	+	0

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

YEAR OR PERIOD — MEAN 0.55 — ACRE-FEET 399.

STATION F37B-R

COMPTON CREEK near Greenleaf Drive

LOCATION:

Water-stage recorder, lat.33°52'54", long.118°13'27", 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. Elevation of zero gage height, 50.14 feet.

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 F37-R at Rosecrans Avenue. Removed June 9, 1938 due to new channel construction by Corps of Engineers, U.S. Army. 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, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSION:

None.

RECORDS AVAILABLE:

At Station F37-R
January 22, 1928 to June 9, 1938.
At Station F37B-R
October 3, 1938 to September 30, 1944

EXTREMES OF DISCHARGE:

1943-1944
Maximum 2,370 second-feet, February 20.
Minimum 0.8 second-foot at various times.
1928-1944 (Stations F37-R and F37B-R)
Maximum discharge not determined, overflowed banks March 2, 1938.
Maximum discharge of record, 2,660 second-feet, December 23, 1941.
Minimum no flow at various times.

ACCURACY:

Good.

OPERATION:

Located and constructed by Corps of Engineers, U. S. Army, and operated by the Los Angeles County Flood Control District in conjunction with the Corps of Engineers, U. S. Army.

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

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, 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	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
287	10-29	1021A / 1032A	Bonadiman	60.0	31.8	0.66	0.83	20.9		.6	7	-.02	FC19
288	11-5	1046A / 1052A	"	58.0	19.9	0.33	0.59	6.5		.6	4	0	"
289	12-10	1002A / 1020A	"	60.0	52.4	1.60	1.07	84.0		.6	9	-.01 +.05	"
290	12-10	1131A / 1145A	"	60.0	150.0	2.07	2.69	310.		.6	9	-.02	"
291	12-18	637A / 657A	Bonadiman & Keith	60.0	65.4	2.19	1.25	143.		.6	8	-.08	"
292	12-23	1106A / 1116A	Bonadiman	53.0	19.8	0.26	0.50	5.2		.6	7	0	"
293	12-28	316P / 329P	"	60.0	51.4	1.75	1.13	90.1		.6	10	-.06	"
294	12-29	838A / 848A	Bonadiman & Keith	60.0	72.0	2.67	1.42	192.		.6	8	-.12	"
295	12-30	1041A / 1051A	Bonadiman	56.0	19.9	0.22	0.52	4.4		.6	6	0	"
296	1-7	1111A / 1121A	"	59.0	18.4	0.20	0.53	3.6		.6	6	0	"
297	1-21	1010A / 1022A	"	59.0	18.8	0.41	0.55	7.7		.6	7	0	"
298	2-4	942A / 953A	"	59.2	39.7	1.22	0.89	48.4		.6	8	-.02	"
299	2-20	601A / 612A	Bonadiman & Keith	60.0	106.0	4.07	2.00	431.		.6	7	-.08	"
300	5-12	1150A / 1158A	Bonadiman	33.0	12.7	0.54	0.55	6.8		.6	5	0	"
301	6-7	302P / 312P	"	29.0	11.1	0.58	0.57	6.4		.6	4	0	"
302	7-6	1121A / 1127A	"	26.0	8.86	0.53	0.56	4.7		.6	4	0	"
303	7-20	1031A / 1040A	"	28.0	10.5	0.48	0.58	5.0		.6	4	0	"
304	8-3	1032A / 1042A	"	34.0	13.7	0.36	0.55	5.0		.6	4	0	"
305	8-17	1050A / 1058A	"	33.0	15.7	0.36	0.58	5.7		.6	5	0	"
306	8-31	1100A / 1108A	"	25.0	8.35	0.49	0.58	4.1		.6	4	0	"
307	9-13	1010A / 1015A	Moon	20.0	9.24	0.68	0.56	6.3		.6	5	0	"
308	9-28	1117A / 1123A	Bonadiman	27.0	11.04	0.58	0.56	6.4		.6	4	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

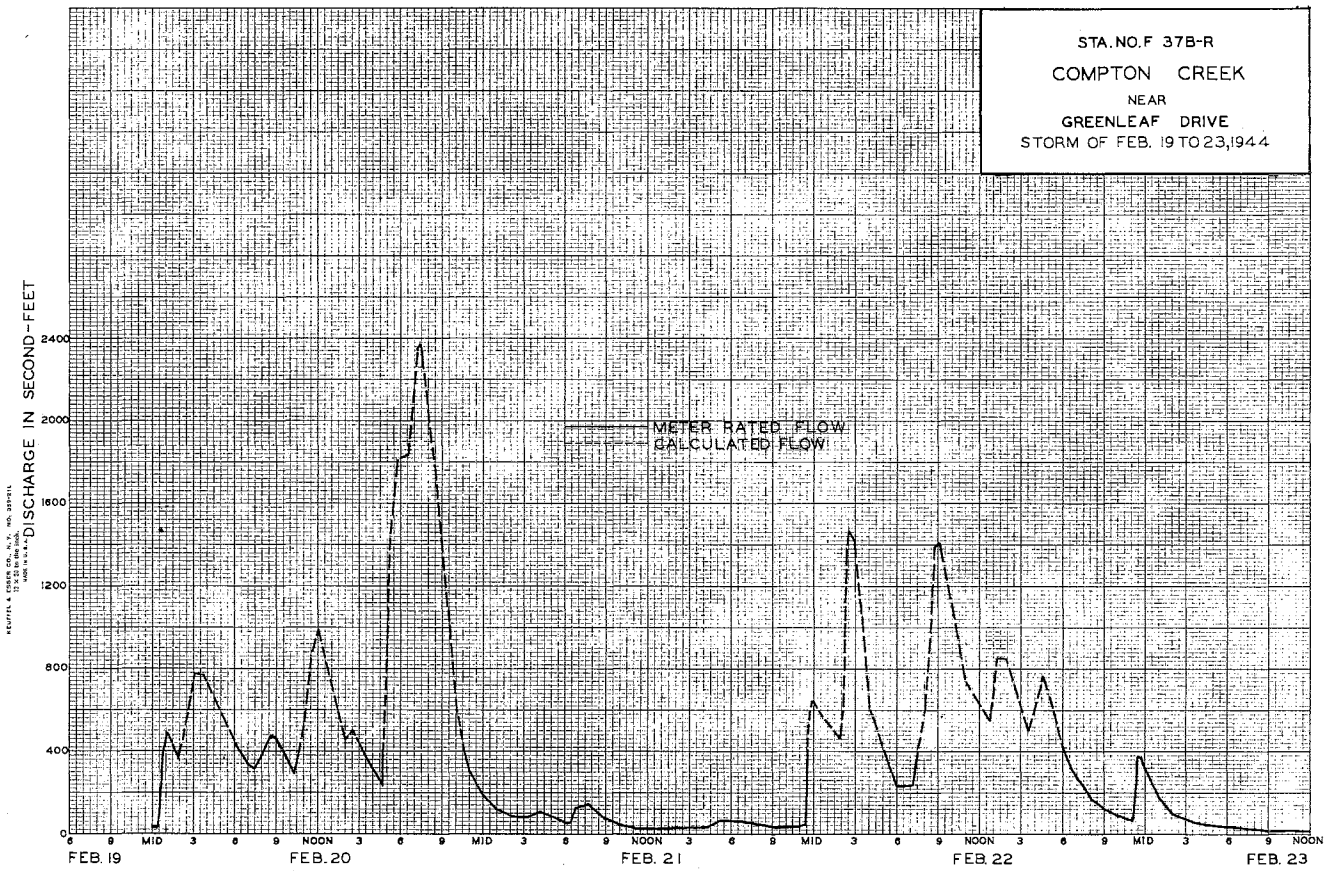
Sta. No. F37B-R

Daily discharge, in second-feet of COMPTON CREEK near Greenleaf Drive, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	3.7	4.8	3.7	10	182	8.5	7	7	6.5	6.5	4.1
2	6.5	4.1	4.8	7	10	226	8.5	7	7	6.5	6.5	4.8
3	5.5	4.4	4.8	4.4	11	17	8.5	7	6.5	5.5	4.8	4.8
4	4.8	4.8	4.8	5.5	8.5	44	10	7	4.8	5.5	5.5	5.5
5	6.5	6.5	4.4	4.1	12	15	10	8	5.5	4.8	6.5	6.5
6	6.5	7	234	9.5	10	19	10	8	5.5	4.8	5.5	7
7	5.5	6.5	7	4.1	12	19	10	7	6.5	4.4	5.5	6.5
8	4.8	5.5	6.5	4.4	19	20	8.5	7	6.5	5.5	7	8.5
9	4.4	6.5	11	4.4	12	20	8.5	7	6.5	7	8	8
10	4.4	5.5	264	4.1	11	10	10	7	7	6.5	8	7
11	4.4	6.5	178	4.8	11	10	10	7	6.5	7	7	6.5
12	6.5	8	13	4.8	11	9.5	10	7	6.5	7	7	7
13	6.5	6.5	8	4.8	11	9.5	10	7	5.5	7	7	7
14	4.8	5.5	8	6.5	11	12	9.5	7	6.5	7	5.5	5.5
15	4.8	5.5	8.5	6.5	15	9.5	9.5	6.5	6.5	6.5	5.5	5.5
16	4.1	6.5	8	5.5	10	8.5	9.5	6.5	6.5	6.5	6.5	5.5
17	3.7	8	13	6.5	13	9.5	9.5	6.5	6.5	5.5	5.5	5.5
18	6.5	9.5	109	6.5	12	9.5	9.5	6.5	6.5	5.5	5.5	4.8
19	4.4	6.5	45	7	13	9.5	10	6.5	5.5	5.5	6.5	4.8
20	4.1	4.8	153	8	739	8.5	9.5	7.0	6.5	4.8	5.5	4.8
21	4.1	4.1	30	8	77	8.5	8	7.0	6.5	4.8	4.8	5.5
22	4.4	4.1	6.5	8.5	574	8	7	8.0	7	5.5	5.5	5.5
23	4.1	4.8	5.5	10	38	9.5	8	8.0	7	5.5	5.5	5.5
24	3.7	4.8	6.5	21	10	8.5	8.5	8.0	7	5.5	7	5.5
25	3.4	4.4	3.4	11	8	8.5	9.5	8.5	6.5	5.5	4.1	5.5
26	3.0	4.8	2.3	10	67	8	9.5	8	6.5	4.8	4.1	6.5
27	4.4	4.4	3.0	10	13	8	57	6.5	6.5	7	4.1	6.5
28	9.5	4.8	13	9.5	8.5	8.5	9.5	5.5	6.5	7	4.1	6.5
29	8	4.8	132	9.5	9.5	8	8.5	6.5	6.5	5.5	4.1	5.5
30	3.4	4.8	38	10		8.5	8	6.5	6.5	6.5	4.4	6.5
31	3.4		7	14		8.5		6.5		5.5	4.1	
	155.6	167.6	1336.8	233.6	1766.5	760.5	323.0	218.5	192.3	182.4	177.1	178.6
MEAN	5.02	5.59	43.1	7.54	60.9	24.5	10.8	7.05	6.41	5.88	5.71	5.95
ACRE-FEET	309.	332.	2650.	463.	3500.	1510.	641.	433.	381.	362.	351.	354.

Remarks:

YEAR OR PERIOD — MEAN 15.6 — ACRE-FEET 11290.



STATION F41C-R

COYOTE CREEK at Del Amo Street

LOCATION:

Water-stage recorder, lat.33°50'47", long.118°03'30", 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 1.8 miles southeast of Artesia. Elevation of zero gage height, 29.00 feet.

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 F41-R.
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, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

At Station F41-R.
Steam 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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 3,550 second-feet, February 22.
Minimum no flow at various times.
1929-1944 (Stations F41-R, F41B-R, and F41C-R)
Maximum 4,190 second-feet (at Station F41 B-R) February 6, 1937.
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 3M 7-44

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, 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.	RAT-ING	METH-OD	MEAN SEC. NO.	G. NT. CHANGE TOTAL	METER NO.
330	11-26	210P / 218P	Bonadiman	18.0	7.40	0.35	5.01	2.6		.6	5	0	FC19
331	12-3	222P / 228P	"	12.0	4.00	0.48	4.84	1.9		.6	3	0	"
332	12-17	202P / 212P	"	20.0	11.0	0.48	4.75	5.3		.6	4	0	"
333	12-21	753A / 803A	"	54.0	228.	0.62	6.38	141.		.6	6	-.04	"
334	12-22	1204P / 1214P	"	32.0	25.0	0.69	5.12	17.3		.6	6	0	"
335	12-30	224P / 236P	"	40.0	26.5	0.53	5.04	14.0		.6	7	0	"
336	12-31	212P / 225P	"	38.0	30.2	0.76	5.24	23.0		.6	8	0	"
337	1-7	340P / 351P	"	16.0	7.45	0.60	4.66	4.5		.6	4	0	"
338	1-14	212P / 220P	"	26.0	10.7	0.32	4.62	3.4		.6	5	0	"
339	2-4	302P / 312P	"	20.0	8.25	0.56	4.69	4.6		.6	6	0	"
340	2-21	1026A / 1035A	"	47.0	195.	0.59	6.02	115.		.6	5	-.01	"
341	2-22	217P / 241P	Bonadiman & Keith	110.	869.	4.09	12.58	3550.	Surf.	8	0	"	
342	2-23	331P / 342P	"	68.0	325.	0.84	6.60	274.		.6	7	-.01	"
343	2-24	1016A / 1030A	Bonadiman	58.0	306.	0.91	5.81	277.		.6	6	0	"
344	3-2	926A / 938A	Bonadiman & Keith	76.0	402.	1.73	7.68	695.		.6	7	-.03	"
345	3-3	941A / 953A	Bonadiman	60.0	253.	0.41	5.72	104.		.6	6	0	"
346	3-9	1052A / 1101A	"	14.0	14.0	0.82	4.56	11.5		.6	4	0	"
347	3-24	400P / 408P	"	8.0	7.50	8.00	4.12	6.0		.6	4	0	"
348	4-21	324P / 333P	"	7.0	6.65	0.43	4.15	2.8		.6	5	0	"
349	6-7	1030A / 1035A	"	4.0	3.55	0.73	4.30	2.6		.6	3	0	"
350	6-29	322P / 330P	"	12.0	5.06	0.53	4.16	2.7		.6	4	0	"
351	7-20	302P / 305P	"	3.0	0.44	0.30	3.95	0.14		.6	2	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

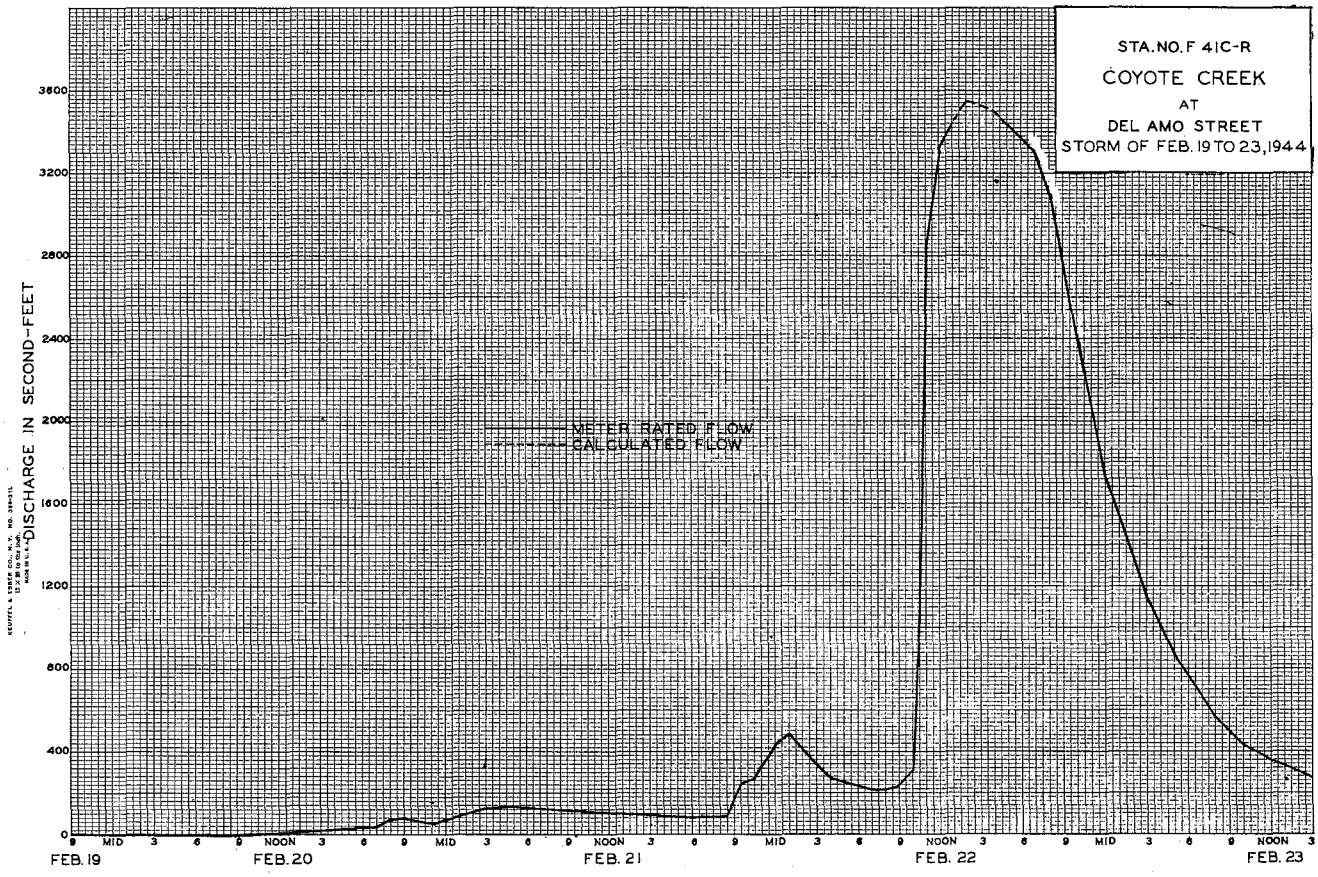
Sta. No. F41C-R

Daily discharge, in second-feet of COYOTE CREEK at Del Amo Street, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	c 1.5	c 1.9	2.5	8.5	3.1	228	3.8	4.9	0.4	2.7	1.5	3.0
2	c 1.2	c 1.3	3.1	5	2.8	468	3.8	4.9	0.6	1.5	1.2	2.3
3	c 1.5	c 1.0	2.1	4.5	3.1	100	4.0	5.5	2.3	2.1	2.8	2.3
4	c 1.6	c 1.5	1.9	4.2	4.7	39	4.2	5	4.9	1.6	2.1	2.1
5	c 1.7	c 2.2	1.3	4.2	4.2	52	3.7	5	3.5	5.5	1.8	2.1
6	c 0.2	c 2.2	1.5	4.7	3.1	27	3.8	4.7	2.5	9	0.1	2.2
7	c 0.3	c 1.8	1.3	4.7	3.0	19	4.0	4.5	2.5	12	0	0.6
8	c 1.8	c 1.4	1.9	4.2	3.4	15	4.2	5	1.1	0	+	0
9	c 1.1	c 1.4	2.6	3.7	3.8	12	3.8	5	0.2	0	+	0
10	c 0.1	c 1.3	3.7	3.8	3.7	11	3.1	6	0.3	0.6	1.0	0.6
11	c 1.3	c 1.7	5	3.7	3.0	9.5	3.2	7	0	0.3	1.0	2.2
12	c 1.7	c 1.5	5.5	3.4	2.7	9	3.4	9	0.3	0	0.1	1.7
13	c 1.0	c 1.5	5.5	3.2	2.7	7.5	3.7	9	2.5	0	0	0.7
14	c 0.7	c 1.3	5.5	3.2	3.0	8	4.2	5.5	2.5	0.5	3.0	1.8
15	c 0.4	c 1.4	5.5	3.2	3.1	9	3.4	3.7	2.5	0.4	0.4	2.1
16	c 0.7	c 0.7	5	3.2	3.0	7.5	3.2	3.5	2.7	1.3	0.3	2.6
17	c 0.8	c 1.8	5	3.0	3.1	8	3.2	1.9	2.2	0.5	0	2.1
18	c 1.2	c 2.3	10	3.0	3.4	9	3.1	0.6	1.0	2.2	0	2.0
19	c 1.8	c 2.1	113	2.8	3.1	7	3.4	1.5	1.8	1.6	1.7	0.2
20	c 2.7	c 2.1	64	3.0	26	6	3.4	1.8	1.3	0.1	1.8	0.4
21	c 2.6	c 2.1	105	3.0	133	6	2.8	6.5	0.3	0	2.0	+
22	c 1.0	c 2.2	18	3.1	1860	6.5	1.9	9.5	0.4	0	1.9	3.5
23	c 0.7	c 2.3	6	3.5	561	6	0.8	4.9	0.3	0.4	2.7	1.9
24	c 1.3	c 2.7	4.0	3.8	288	6	1.4	4.5	0.9	3.1	2.7	0.8
25	c 1.0	c 2.8	3.7	3.7	293	5.5	2.3	6	2.5	3.4	2.5	2.7
26	c 1.0	2.8	3.1	3.4	202	4.9	1.9	7	2.5	5	2.8	2.1
27	c 0.3	3.0	3.1	3.4	163	4.4	5	6.5	2.2	3.4	1.3	2.3
28	c 1.4	2.8	3.4	3.2	118	3.8	8.5	8	2.3	2.7	1.6	2.5
29	c 1.8	3.0	8	3.1	144	3.8	6.5	6	2.7	2.5	0.9	2.3
30	c 3.1	2.6	19	3.2		3.7	5	3.7	2.6	3.1	0	0.2
31	c 1.7		17	3.1		3.8		1.2		2.3	0.2	
	39.2	58.7	436.2	115.7	3850.0	1105.9	108.7	157.8	51.8	67.8	37.4	49.3
MEAN	1.26	1.96	14.1	3.73	133.	35.7	3.62	5.09	1.73	2.19	1.21	1.64
ACRE-FEET	78.	116.	865.	229.	7640.	2190.	216.	313.	103.	134.	74.	98.

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

YEAR OR PERIOD MEAN 16.6
ACRE-FEET 12060.



STATION F265-R

DOMINGUEZ CHANNEL at Carson Boulevard

LOCATION:

Water-stage recorder, lat. 33°49'56", long. 118°15'12", on the left (east) bank on the upstream side of the Carson Boulevard bridge about one half mile east of Avalon Boulevard. Elevation of gage, about 15 feet (from topographic map).

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, 1943 to September 30, 1944.

REGULATION:

Regulated by Laguna Dominguez area, subject to ponding.

DIVERSION:

None.

RECORDS AVAILABLE:

November 23, 1938 to September 30, 1944. For previous records, see earlier reports on station F46-R, Nigger Slough at Wilmington Ave.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,020 second-feet, February 23.
Minimum 4.6 second-feet, September 4.
1938-1944
Maximum 1,020 second-feet February 23, 1944.
Minimum no measurable flow, water ponded at gage.

ACCURACY:

Fair.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F265-R

DISCHARGE MEASUREMENTS OF DOMINGUEZ CHANNEL

AT Carson Boulevard 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.	RAT-ING	METH OD	MEAS SEC. NO.	E. HT. CHANGE TOTAL	METER NO.
116	10-8	1102A / 1112A	Bonadiman	16.0	18.7	0.58	6.14	10.9		.6	6	0	FC19
117	11-5	1147A / 1158A	"	16.0	16.8	0.49	6.15	8.3		.6	5	0	"
118	11-12	1121A / 1127A	"	15.0	16.4	0.54	6.16	8.8		.6	5	0	"
119	11-19	1102A / 1112A	"	16.0	13.8	0.36	6.17	5.0		.6	5	0	"
120	12-3	1102A / 1112A	"	16.0	17.2	0.51	6.15	8.7		.6	5	0	"
121	12-10	1042A / 1052A	"	Two Channels			6.61	23.5		.6	8	+.02	"
122	12-11	1237P / 1255P	Bonadiman & Marlin	"	"		7.00	53.0		.6	10	0	"
123	12-17	1042A / 1052A	Bonadiman	20.0	20.1	0.74	6.26	14.9		.6	6	0	"
124	12-19	1041A / 1054A	"	Two Channels			6.70	33.1		.6	8	0	"
125	12-20	1116A / 1130A	"	"	"		6.82	46.4		.6	9	0	"
126	12-21	1111A / 1120A	Bonadiman & Keith	"	"		6.95	60.2		.6	10	+.02	"
127	12-23	1211P / 1229P	Bonadiman	"	"		6.62	30.9		.6	10	0	"
128	12-30	1131A / 1150A	"	"	"		6.72	38.4		.6	11	0	"
129	1-7	1216P / 1226P	"	20.0	17.8	0.75	6.25	13.3		.6	6	0	"
130	1-14	1030A / 1040A	"	16.0	15.2	0.59	6.12	8.9		.6	5	0	"
131	1-21	1100A / 1110A	"	16.0	12.6	0.40	6.06	5.1		.6	5	0	"
132	1-28	1102A / 1110A	"	18.0	17.6	0.50	6.18	8.9		.6	6	0	"
133	2-18	1122A / 1130A	"	16.0	15.2	0.43	6.12	6.6		.6	5	0	"
134	2-20	1243P / 1252P	Bonadiman & Keith	Two Channels			7.02	70.2		.6	9	0	"
135	2-21	327P / 338P	"	"	"		9.66	565.		.6	10	-.04	"
136	2-22	510P / 517P	"	"	"		10.28	655.		.6	10	0	"
137	2-23	915A / 925A	Bonadiman & Keith	"	"		10.76	1020.		.6	12	0	FC 19
138	2-25	1101A / 1116A	Bonadiman	"	"		8.65	344.		.6	10	-.06	"
139	3-3	106P / 125P	Bonadiman	Two Channels			10.19	693.		.6	11	-.02	FC19
140	3-10	1032A / 1050A	"	21.0	20.3	0.97	6.26	19.7		.6	7	0	"
141	3-24	1220P	"				6.12	11.0					"
142	4-14	1152A / 1200N	"	19.0	16.0	0.51	6.02	8.2		.6	6		"
143	4-28	1122A / 1134A	"	19.0	16.8	0.68	6.12	11.4		.6	6	0	"
144	5-5	1114A / 1130A	Wood & Bonadiman	19.0	15.7	0.46	6.08	7.2		.6	6	0	"
145	5-19	1150A / 1200N	Bonadiman	17.0	18.8	0.51	6.14	9.6		.6	5		"
146	5-26	1214P / 1224P	"	20.0	17.6	0.72	6.13	12.7		.6	6	0	"
147	6-7	215P / 223P	"	20.0	21.2	0.47	6.11	10.0		.6	5	0	"
148	6-14	1200N / 1210P	"	24.0	20.0	0.58	6.12	11.6		.6	6	0	"
149	6-21	1137A / 1147A	"	20.0	17.4	0.52	6.10	9.0		.6	6	0	"
150	6-29	1230P / 1238P	"	18.0	14.8	0.58	6.10	8.6		.6	6	0	"
151	7-6	1200N / 1210P	"	19.0	16.8	0.58	6.12	9.7		.6	6	0	"
152	7-20	1122A / 1130A	"	19.0	15.8	0.52	6.11	8.3		.6	5	0	"
153	7-27	1202P / 1212P	"	19.0	17.0	0.55	6.14	9.4		.6	5	0	"
154	8-3	1107A / 1116A	"	19.0	16.0	0.53	6.13	8.4		.6	6	0	"
155	8-10	1102A / 1112A	"	19.0	16.1	0.48	6.13	7.7		.6	6	0	"
156	8-17	1147A / 1154A	"	19.0	15.0	0.71	6.15	10.6		.6	5	0	"
157	8-24	1202P / 1210P	Robertson & Bonadiman	19.0	15.3	0.53	6.12	8.0		.6	6	0	"
158	8-31	1200N / 1212P	Bonadiman	19.0	13.2	0.59	6.09	7.8		.6	5	0	"
159	9-6	1150A / 1200N	Moon	17.0	14.4	0.56	6.09	8.1		.6	9	0	FC22
160	9-13	1120A / 1125A	"	19.0	13.8	0.61	6.11	8.5		.6	5	0	"
161	9-20	1145A / 1151A	"	17.0	13.8	0.59	6.10	8.3		.6	5	0	"
162	9-28	1222P / 1232P	"	19.0	17.6	0.52	6.10	9.1		.6	6	0	FC19

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F265-R

Daily discharge, in second-feet of DOMINGUEZ CHANNEL at Carson Boulevard, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	9.5	9.5	31	8.5	55	10	b 9.5	11	10	8.5	7
2	11	8.5	9.5	23	8.5	439	10	b 8.5	10	9	8.5	7
3	11	8.7	9	18	8.5	710	10	b 8.5	10	9	8.5	5.5
4	10	8.7	9.5	16	13	472	11	b 7.5	10	9.5	8.5	4.6
5	10	8.7	9	16	16	244	11	7.5	10	9.5	8.5	5
6	9.5	9.5	14	15	18	106	a 11	9	10	9.5	8	5.5
7	10	9.5	12	13	14	a 51	a 11	9.5	10	9.5	8	5
8	11	9.5	16	11	12	a 32	a 11	9	9.5	9.5	8.5	5.5
9	11	9.5	15	12	10	a 21	a 10	9	10	8.5	7.5	5
10	11	9.5	21	9	8.5	20	a 10	9	10	9	7.5	4.9
11	12	9.5	44	9.5	8.5	18	a 10	9	10	9.5	8	4.9
12	12	9.5	49	9	8.5	18	a 10	9	10	9	8.5	5.5
13	12	9.5	33	9.5	7	16	a 10	9.5	12	a 8.5	8.5	5.5
14	12	9.5	22	9	7	16	a 10	9.5	12	a 8.5	8.5	5.5
15	10	8	17	9.5	7	15	a 9.5	9.5	12	a 8.5	9.5	6.5
16	9	7	16	9	6.5	15	a 9.5	9.5	12	a 8.5	9.5	6.5
17	9.5	6.5	16	8.5	6.5	14	a 9.5	10	10	a 8.5	10	7
18	9.5	6	22	8	6.5	13	a 9	10	11	a 8.5	10	7
19	9.5	5	32	7.5	7	12	a 8.5	9.5	9.5	a 8.5	10	9
20	10	5	48	6.5	121	12	a 8.5	10	9.5	8.5	9.5	9.5
21	10	5	71	5.5	516	12	8.5	10	9.5	9	9	9
22	10	4.9	67	5.5	605	12	b 8.5	11	9.5	9.5	8.5	9.5
23	10	5.5	31	6	991	11	b 8.5	12	10	8.5	9	8.5
24	9.5	5.5	20	8.5	736	12	b 8.5	12	9.5	8.5	8.5	9
25	9	6	14	12	336	11	b 8.5	12	9.5	9.5	9	8.5
26	9	6.5	9.5	10	142	9.5	8.5	13	12	8.5	9.5	8.5
27	10	7	8.5	9.5	102	9.5	13	12	9	9.5	9.5	9.5
28	9.5	7	10	9	79	9.5	12	12	8.5	9.5	9	9.5
29	12	7	18	9.5	54	10	b 10	12	9	9.5	8.5	8.5
30	10	8.5	42	8.5		10	b 9.5	11	9.5	7.5	8.5	8.5
31	9.5		43	8.5		9.5		11		8	8	
	3195	2300	7575	3425	3863.5	2415.0	295.0	3105	301.0	278.0	271.0	210.9
MEAN	10.3	7.67	24.4	11.0	133.	77.9	9.83	10.0	10.0	8.97	8.74	7.03
ACRE-FEET	634.	456.	1500.	679.	7660.	4790.	585.	616.	597.	551.	538.	418.

Remarks:

YEAR OR PERIOD MEAN 26.2
ACRE-FEET 19020.

STATION F53-R

DUME CREEK at Roosevelt Highway

LOCATION:

Water-stage recorder, lat.34°01'02", long.118°49'00", on the downstream side of Roosevelt Highway bridge, near Dume Point about 0.2 mile from Pacific Ocean, 22 miles west of Santa Monica. Elevation of gage, about 25 feet (from topographic map).

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, Type A, continuous recorder was in service from October 1, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 15, 1930 to November 26, 1937.
November 3, 1938 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 627 second-feet, February 20.
Minimum no flow for several months.
1930-1944
Maximum discharge not determined.
Maximum discharge of record, 6,800 second-feet, January 24, 1941.
Minimum no flow at times each year.

ACCURACY:

Fair.

OPERATION:

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

C.D. FORM 104 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F53-R

DISCHARGE MEASUREMENTS OF DUME CREEK

at Roosevelt Highway 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	METH OD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
163	2-20	1010A / 1025A	Bollinger & Eckert	25.0	44.6	6.17	6.81	275.		.6	6	+.02	F06
164	2-20	1048A / 1102A	"	27.0	40.2	8.07	6.85	324.		.6	7	+.04	"
165	2-22	1048A / 1058A	"	26.0	31.5	6.43	6.64	202.		.6	6	0	"
166	2-22	1109A / 1119A	"	26.0	30.4	6.35	6.64	191.		.6	6	+.01	"
167	2-25	1010A / 1019A	Bollinger	8.6	1.72	1.05	5.90	1.8		.6	8	0	"
168	3-2	950A / 1007A	Bollinger & Eckert	Two	Channels		6.86	178.	Surf. +	.6	10	-.03	"
169	3-2	1020A / 1033A	"	"	"		6.85	153.	Surf. +	.6	9	0	"
170	3-3	107P / 119P	Bollinger	22.5	10.6	2.59	6.34	27.5		.6	11	+.01	"
171	3-9	216P / 225P	"	11.0	2.69	1.41	5.95	3.8		.6	8	0	"
172	3-17	331P / 337P	"	5.4	0.86	0.59	5.72	0.51		.6	5	0	"
173	3-24	328P / 336P	"	5.0	1.01	0.52	5.74	0.53		.6	6	0	"
174	4-7	435P / 443P	"	5.7	1.04	0.64	5.78	0.67		.6	6	0	"
175	5-5	333P / 340P	"	5.8	1.38	0.67	5.81	0.93		.6	5	0	"
176	6-2	347P / 353P	"	6.3	1.68	0.35	5.91	0.59		.6	6	0	"
177	7-7	336P / 344P	"	3.2	0.44	0.86	5.97	0.38		.6	4	-.01	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

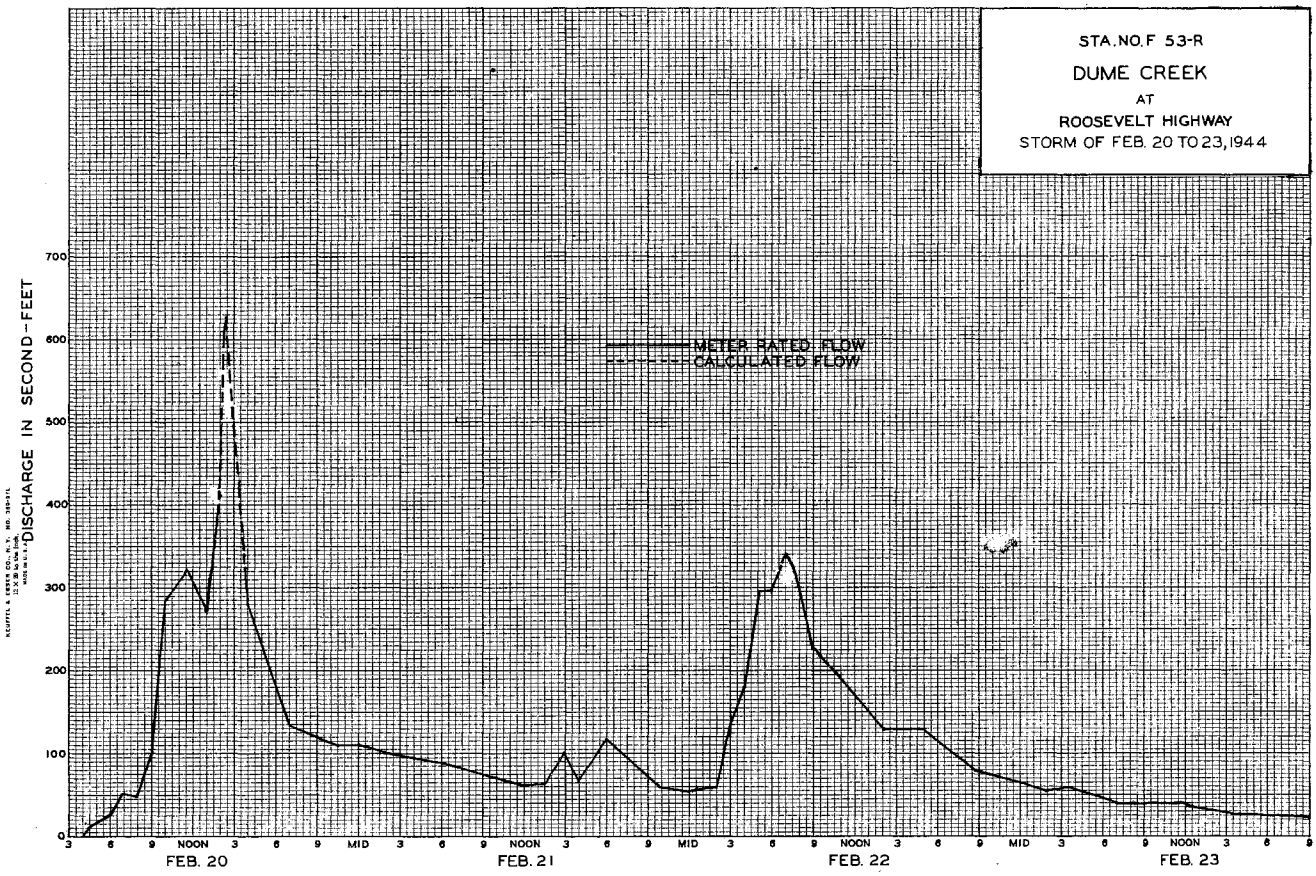
Sta. No. F53-R

Daily discharge, in second-feet of DUME CREEK at Roosevelt Highway, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0	0	0	0	8.5	0.6	1.0	0.6	0.5	0.1	0.1
2	+	0	0	0	0	120	0.6	1.0	0.6	0.4	0.1	0.1
3	+	0	0	0	0	29	0.6	1.0	0.6	0.4	0.1	0.1
4	+	0	0	0	0	26	0.6	0.9	0.6	0.4	0.1	0.1
5	+	0	0	0	0	29	0.6	0.9	0.6	0.4	0.1	0.1
6	+	0	0	0	0	14	0.6	1.0	0.6	0.4	0.1	0.1
7	+	0	0	0	0	10	0.7	1.0	0.6	0.4	0.1	0.1
8	+	0	0	0	0	7.5	0.9	1.0	0.6	0.4	0.1	0.1
9	+	0	+	0	0	4	0.8	1.0	0.6	0.4	0.1	0.1
10	+	0	+	0	0	2.7	0.8	1.0	0.6	0.4	0.1	0.1
11	+	0	+	0	0	1.8	0.9	0.9	0.6	0.4	0.1	0.1
12	+	0	+	0	0	0.7	0.7	0.9	0.6	0.4	0.1	0.1
13	+	0	0	0	0	0.5	0.7	0.9	0.6	0.4	0.1	0.1
14	+	0	0	0	0	0.6	0.8	0.8	0.6	0.4	0.1	0.1
15	+	0	0	0	0	0.5	0.8	0.8	0.6	0.3	0.1	0.1
16	+	0	0	0	0	0.6	0.9	0.8	0.6	0.3	0.1	0.1
17	0	0	0	0	0	0.5	0.9	0.8	0.6	0.3	0.1	0.1
18	0	0	0	0	0	0.5	1.0	0.7	0.5	0.3	0.1	0.1
19	0	0	0	0	+	0.4	1.0	0.7	0.5	0.3	0.1	0.1
20	0	0	+	0	1.6	0.4	1.1	0.7	0.5	0.3	0.1	0.1
21	0	0	0	0	8.2	0.4	1.1	0.7	0.5	0.3	0.1	0.1
22	0	0	0	0	14.6	0.4	1.3	0.7	0.5	0.2	0.1	0.1
23	0	0	0	0	3.9	0.5	1.1	0.7	0.5	0.2	0.1	0.1
24	0	0	0	0	1.4	0.5	1.1	0.7	0.5	0.2	0.1	0.1
25	0	0	0	0	1.6	0.5	1.1	0.7	0.5	0.2	0.1	0.1
26	0	0	0	0	0.5	0.5	1.1	0.7	0.5	0.2	0.1	0.1
27	+	0	0	0	0.7	0.5	1.1	0.6	0.5	0.2	0.1	0.1
28	0	0	0	0	+	0.5	1.1	0.6	0.5	0.2	0.1	0.1
29	+	0	+	0	0	0.5	1.1	0.6	0.5	0.2	0.1	+
30	0	0	+	0		0.5	1.0	0.6	0.5	0.2	0.1	+
31	0		0	0		0.6		0.6		0.1	0.1	
	+	0	+	0	446.8	262.6	26.7	25.0	16.7	9.7	3.1	2.8
MEAN	+	0	+	0	15.4	8.47	0.89	0.81	0.56	0.31	0.10	0.09
ACRE-FEET	+	0	+	0	886.	521.	53.	50.	33.	19.	6.1	5.6

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

YEAR OR PERIOD MEAN 2.17 ACRE-FEET 1,570.



STATION U2-R

EATON CREEK above Mouth of Canyon

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 30, 1944.

AVERAGE DISCHARGE:

26 years, 2.93 second-feet. Average combined discharge of creek and diversion, 26 years, 4.20 second-feet.

EXTREMES:

1943-1944
Maximum discharge during year, 390 second-feet Feb.22, (gage height, 2.49 feet); no flow for several months.

1918-1944
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.

COOPERATION:

Records furnished by the United States Geological Survey, with the exception of 4 discharge measurements furnished by the Los Angeles County Flood Control District. Eaton Creek diversions above Station U2-R were furnished by the City of Pasadena and are herein published.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U2-R

DISCHARGE MEASUREMENTS OF EATON CREEK

~~AT~~ NEAR above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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	MEAN SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
395	12-11			U.S.G.S.	18.5	8.0	1.74	0.89	13.9		.6	19	0	
396	12-22	1140A	1147A	Moon	9.0	4.0	2.20	.54	8.8		.6	7	0	FC22
397	2-8			U.S.G.S.	6.0	2.0	1.30	.28	2.6		.6	12	0	
398	2-20			"	23.	13.7	3.42	1.22	46.8		.6	21	+.06	
399	2-21			"	23.2	9.2	2.35	.94	21.6		.6	23	0	
400	2-22			"	32.	53.3	6.34	2.35	338.	Sur.		7	+.13	
401	2-25			"	20.	17.8	1.52	1.02	27.0		.6	20	0	
402	3-2			"	30.8	27.2	3.46	1.61	94.		.6	18	0	
403	3-4			"	20.5	21.2	1.84	1.22	40.2		.6	20	0	
404	3-8			"	20.	14.2	2.28	1.09	32.4		.6	20	0	
405	3-17			"	16.	9.6	1.82	.78	17.5		.6	16	0	
406	3-21			"	14.	13.1	.95	.72	12.4		.6	14	0	
407	3-28			"	13.	5.9	1.32	.41	7.8		.6	13	0	
408	4-4			"	11.	4.7	.98	.34	4.7		.6	11	0	
409	4-6	1025A	1030A	Moon	3.0	1.0	4.94	.35	5.0		.6	4	0	FC22
410	4-11			U.S.G.S.	9.	4.5	.84	.28	3.8		.6	9	0	
411	4-18			"	9.	3.2	.47	.18	1.5		.6	9	0	
412	4-21	400P	420P	Moon	8.0	3.1	.55	.19	1.7		.6	8	0	FC22
413	4-25			U.S.G.S.	4.5	1.9	.50	.16	.96		.6	9	0	
414	4-28	420P	425P	Moon	5.0	2.3	1.22	.22	2.8		.6	5	0	FC22
415	5-2			U.S.G.S.	4.5	2.3	.48	.22	1.1		.6	9	0	
416	5-9			"	2.5	.32	3.44	.12	1.1		.6	5	0	

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U2-R

Daily discharge, in second-feet of EATON CREEK above Mouth of Canyon, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	46	5.5	1.5	0	0	0	0
2	0	0	0	0	0	122	5.5	3.1	0	0	0	0
3	0	0	0	0	0.6	59	5	2.0	0	0	0	0
4	0	0	0	0	1.8	46	4.8	0.4	0	0	0	0
5	0	0	0	0	0	47	5	0.1	0	0	0	0
6	0	0	0.3	1.7	0	38	5	0.3	0	0	0	0
7	0	0	0	0	0	34	4.6	0	0	0	0	0
8	0	0	0	0	2.4	33	4.6	0.4	0	0	0	0
9	0	0	0	0	2.2	32	4.4	1.2	0	0	0	0
10	0	0	3.6	0	0	31	4.2	1.0	0	0	0	0
11	0	0	6.5	0	0	31	4.0	0.7	0	0	0	0
12	0	0	1.1	0	0	31	3.8	0.2	0	0	0	0
13	0	0	0	0	0	28	3.6	0	0	0	0	0
14	0	0	0	0	0	29	3.4	0	0	0	0	0
15	0	0	0	0	1.0	26	3.2	0	0	0	0	0
16	0	0	0	0	0	22	2.7	0	0	0	0	0
17	0	0	0	0	0	20	1.8	0	0	0	0	0
18	0	0	1.6	0	0	16	0.8	0	0	0	0	0
19	0	0	8.5	0	0.7	14	1.8	0	0	0	0	0
20	0	0	16	0	26	11	1.9	0	0	0	0	0
21	0	0	22	0	31	11	1.8	0	0	0	0	0
22	0	0	6	0	253	13	1.5	0	0	0	0	0
23	0	0	0	0.4	97	10	1.0	0.1	0	0	0	0
24	0	0	0	0.7	46	8	0.6	0.1	0	0	0	0
25	0	0	0	0	28	8	1.1	0	0	0	0	0
26	0	0	0	0	19	7.5	1.4	0	0	0	0	0
27	0	0	0	0	12	7.5	15	0	0	0	0	0
28	0	0	1.1	0	9	8	5	0	0	0	0	0
29	0	0	3.7	0	9	7.5	2.2	0	0	0	0	0
30	0	0	3.5	0	7	7	1.9	0	0	0	0	0
31	0		1.5	0		6		0		0	0	
	0	0	75.4	2.8	538.7	809.5	107.1	11.1	0	0	0	0
MEAN	0	0	2.43	0.09	18.6	26.1	3.57	0.36	0	0	0	0
ACRE-FEET	0	0	150.	5.6	1,070.	1,610.	212.	22.	0	0	0	0

Remarks:

YEAR OR PERIOD — MEAN 4.22 — ACRE-FEET 3,070.

STATION F271-R

EATON WASH below Eaton Wash Dam

LOCATION:

Water-stage recorder, lat.34°10'05", long.118°05'28", 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. Elevation of gage, about 840 feet (from topographic map).

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.
An H.C.F. recorder was in service from October 1, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 268 second feet, March 14.
Minimum no flow most of year.
1940-1944
Maximum 1,080 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.

OPERATION:

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

F.C.D. FORM 104 SM 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F271-R

DISCHARGE MEASUREMENTS OF EATON WASH

at below Eaton Wash 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.	RATINGS	METHOD	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
69	2-22	805A / 812A	Moon & Stunden	Two	Channels		0.90	27.7		.6	7	+.01	F022
70	2-22	856A / 901A	"	26.0	19.2	6.56	1.19	126.		.6	7	-.33	"
71	2-22	600F / 613F	"	26.0	15.0	13.5	0.73	203.		.6	10	0	"
72	2-23	152F / 200F	"	26.0	14.3	12.5	0.64	179.		.6	6	0	"
73	2-23	225F / 227F	"	26.0	12.5	9.76	0.55	122.	Float	5	0		
74	2-24	104F / 114F	"	25.6	7.29	5.73	0.34	41.8		.6	10	-.01	F022
75	2-24	145F / 153F	"	18.0	21.4	1.73	0.34	37.1		.6	9	0	"
76	2-24	222F / 227F	"	5.0	2.25	2.13	0.18	4.8		.6	7	-.02	"
77	2-28	900A / 912A	Moon	17.0	15.2	1.26	0.26	19.1		.6	11	0	"
78	3-2	923A / 932A	Moon & Stunden	16.0	24.6	1.72	0.37	42.2		.6	8	0	"
79	3-3	828A / 840A	"	25.6	7.82	6.06	0.38	47.4		.6	10	0	"
80	3-7	200F / 217F	"	25.8	9.41	7.32	0.41	68.9		.6	15	0	"
81	3-7	338F / 402F	Moon & Fuller	25.9	8.86	6.80	0.41	60.2		.6	15	0	Pitot
82	3-9	845A / 900A	Moon	26.0	30.0	2.10	0.46	62.9		.6	13	0	F022
83	3-14	949A / 1000A	Moon & Haig	26.0	16.7	15.7	0.61	262.		.6	13	0	Pitot
84	3-14	1049A / 1100A	"	26.0	12.6	12.2	0.50	153.		.6	13	0	"
85	3-17	922A / 935A	Moon	23.0	22.0	0.92	0.24	20.3		.6	12	0	F022
86	4-14	1150A / 1202P	"	Three	Channels		0.16	3.4		.6	11	0	"
87	4-18	1105A / 1110A	"	4.5	2.02	1.44	0.15	2.9		.6	5	0	"
88	4-21	1152A / 1155A	"	2.6	0.78	1.28	0.12	1.0		.6	3	0	"
89	4-28	1250P / 1253P	"	3.0	1.60	1.50	0.14	2.4	Surf.	3	0	"	
90	5-9	1158A / 1205P	"	5.0	3.76	3.38	0.24	12.7		.6	7	0	"
91	5-11	804A / 811A	"	5.0	2.76	2.72	0.21	7.5		.6	7	0	"
92	5-20	350P / 353P	Moon	2.4	0.24	1.33	0.13	0.32		.6	3	0	F022
93	5-26	1245P / 1247P	"	1.20	0.14	1.28	0.15	0.18		.6	2	0	"
94	6-2	110P / 112P	"	1.00	0.08	1.38	0.13	0.11		.6	2	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F271-R

Daily discharge, in second-feet of EATON WASH below Eaton Wash Dam, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	+	+	0	0	25	v 0.1	0	0	0
2	0	0	0	+	+	55	0	25	v 0.1	0	0	0
3	0	0	0	+	+	57	0	2.0	v 0.1	0	0	0
4	0	0	0	+	+	44	0	1.5	v 0.1	0	0	0
5	0	0	+	+	+	42	0	1.3	v 0.1	0	0	0
6	0	0	+	+	+	+	+	1.5	v 0.1	0	0	0
7	0	0	+	+	+	v 30	0	2.0	v 0.1	0	0	0
8	0	0	+	+	+	v 54	0	1.2	v 0.1	0	0	0
9	0	0	+	+	+	v 54	0	7.8	v 0.1	0	0	0
10	0	0	+	+	+	v 44	0	11.8	+	0	0	0
11	0	0	+	+	+	v 42	0	4.6	+	0	0	0
12	0	0	+	+	+	27	0	v 0.5	+	0	0	0
13	0	0	+	+	+	+	0	v 0.5	+	0	0	0
14	0	0	+	+	+	123	22	v 0.5	+	0	0	0
15	0	0	+	+	+	20	35	v 0.4	+	0	0	0
16	0	0	+	+	+	22	30	v 0.4	+	0	0	0
17	0	0	+	+	+	160	30	v 0.4	+	0	0	0
18	0	0	+	+	+	132	30	v 0.3	+	0	0	0
19	0	0	+	+	+	132	25	v 0.3	+	0	0	0
20	0	0	+	+	+	8.8	22	v 0.3	0	0	0	0
21	0	0	+	+	+	0	15	v 0.3	0	0	0	0
22	0	0	+	+	108	0	25	v 0.3	0	0	0	0
23	0	0	+	+	161	0	25	v 0.2	0	0	0	0
24	0	0	+	+	26	0	25	v 0.2	0	0	0	0
25	0	0	+	+	5.0	0	25	v 0.2	0	0	0	0
26	0	0	+	+	5.0	0	25	v 0.2	0	0	0	0
27	0	0	+	+	11.3	0	25	v 0.2	0	0	0	0
28	0	0	+	+	20	0	25	v 0.2	0	0	0	0
29	0	0	+	+	12.1	0	25	v 0.2	0	0	0	0
30	0	0	+	+		0	25	v 0.1	0	0	0	0
31	0		+	+		0		v 0.1		0	0	
	0	0	+	+	348.4	554.5	43.4	44.5	0.9	0	0	0
MEAN	0	0	+	+	12.0	17.9	1.45	1.44	0.03	0	0	0
ACRE-FEET	0	0	+	+	691.	1100.	86.	88.	1.8	0	0	0

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

YEAR OR PERIOD MEAN 2.71
ACRE-FEET 1970.

STATION F104-R

EATON WASH at Ellis Lane

LOCATION:

Water-stage recorder, lat.34°05'08", long.118°03'21", on the downstream side of Ellis Lane bridge (formerly Sunset Avenue) about one mile northwest of El Monte. Elevation of zero gage height, 288.34 feet.

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.G.F. continuous recorder was in service from October 1, 1943 to September 30, 1944.

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, 1944. From December 28, 1930 to November 10, 1931, the recorder was located at Broadway (designated as Station F104B-R).

EXTREMES OF DISCHARGE:

1943-1944
Maximum 412 second-feet, February 22.
Minimum no flow most of year.
1930-1944
Maximum 2,280 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 7-44

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, 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.
254	12-11	945A / 950A	Moon & Stunden	12.0	2.36	1.68	2.04	3.8		.6	6	0	FC22
255	12-19	411P / 418P	Moon	13.0	5.25	3.39	2.16	17.8		.6	7	0	"
256	12-21	1219A / 1227A	Moon & Stunden	26.0	7.62	2.26	2.29	17.2		.6	7	-.07	"
257	2-20	330A / 338A	" "	23.0	14.6	4.34	2.70	63.4		.6	7	0	"
258	2-21	438P / 446P	" "	22.0	8.70	4.04	2.81	35.2		.6	6	0	"
259	2-22	817P / 831P	Haig & Kasimoff	40.0	37.9	7.58	4.55	287.		.6	12	0	FC35
260	2-24	952A / 1005A	Moon & Stunden	Three Channels			4.32	19.4		.6	13	0	FC22
261	2-24	1110A / 1120A	Haig & Kasimoff	32.5	8.01	3.01	4.38	24.1		.6	8	0	FC35
262	3-2	403A / 414A	Mellen & Kasimoff	40.0	12.6	3.14	4.41	39.6		.6	6	0	FC28
263	3-3 / 3-4	1150A / 1213P	Moon & Stunden	Two Channels			4.48	29.3		.6	12	0	FC22
264	44	424P / 435P	Moon & Stunden	"	"		4.51	30.4		.6	9	-.01	"
265	3-9	150P / 206P	Moon	23.0	11.3	3.47	4.72	39.2		.6	13	-.01	"
266	3-16	1000A / 1015A	"	Two Channels			4.65	8.1		.6	9	-.01	"
267	4-27	855A / 900A	"	7.0	2.15	2.19	4.45	4.7		.6	5	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

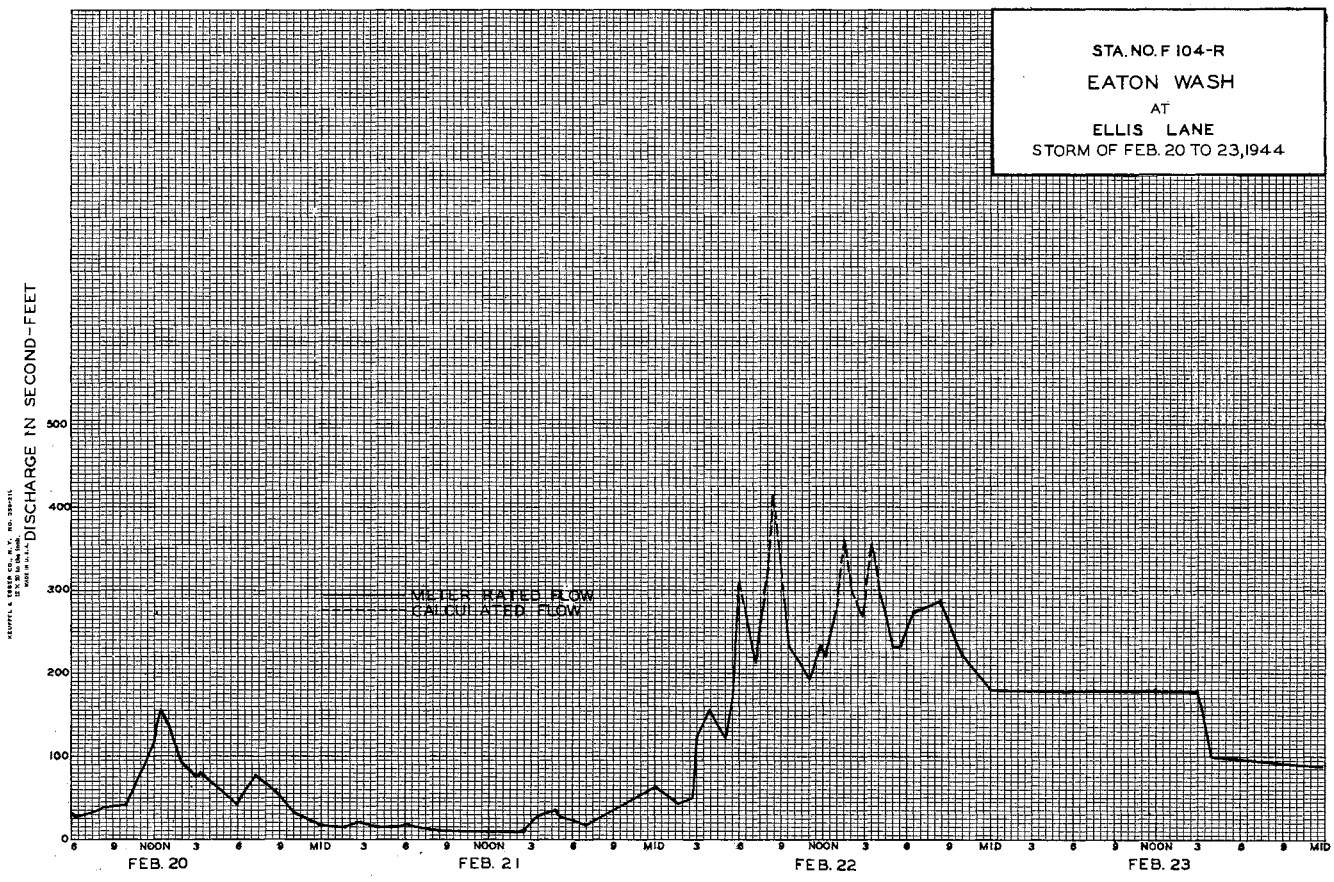
Sta. No. F104-R

Daily discharge, in second-feet of EATON WASH at Ellis Lane, for the year ending September 30, 1944

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	33	0	0	0	0	0	0
3	0	0	0	0	0.3	32	0	0	0	0	0	0
4	0	0	0	0	+	33	0	0	0	0	0	0
5	0	0	0	0	0	25	0	0	0	0	0	0
6	0	0	0	0.8	0	+	0.2	0	0	0	0	0
7	0	0	0	0	0	6.5	1.2	0	0	0	0	0
8	0	0	0	0	+	31	1.2	0	0	0	0	0
9	0	0	0	0	0	36	0	0	0	0	0	0
10	0	0	b10	0	0	29	0.5	0	0	0	0	0
11	0	0	b 22	0	0	21	0.5	0	0	0	0	0
12	0	0	1.7	0	0	14	0.1	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0.4	0	0	0	0	0	0
15	0	0	0	0	+	3.4	0	0	0	0	0	0
16	0	0	0	0	0	9.5	0	0	0	0	0	0
17	0	0	0	0	0	8.5	0.1	0	0	0	0	0
18	0	0	3.6	0	0	0	0	0	0	0	0	0
19	0	0	6.5	0	+	0	0	0	0	0	0	0
20	0	0	10	0	5.8	0	0.1	0	0	0	0	0
21	0	0	1.6	0	22	0	+	0	0	0	0	0
22	0	0	0	0	224	0	0	0	0	0	0	0
23	0	0	0	0.7	150	0	0	0	0	0	0	0
24	0	0	0	0	22	0	0.9	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	1.0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	1.2	0	0	0	0	0
28	0	0	1.2	0	0	0	0	0	0	0	0	0
29	0	0	2.2	0	0	0	0	0	0	0	0	0
30	0	0	1.7	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0		0
	0	0	407	1.5	477.3	295.3	16.8	0	0	0	0	0
MEAN	0	0	1.31	0.05	16.5	9.53	0.56	0	0	0	0	0
ACRE-FEET	0	0	81.	3.0	947.	586.	33.	0	0	0	0	0

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

YEAR OR PERIOD — MEAN 2.27 — ACRE-FEET 1650.



STATION U7-R

FISH CREEK above Mouth of Canyon

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 30,1944.

AVERAGE DISCHARGE:

27 years (1917-44), 4.68 second-feet.

EXTREMES:

1943-1944
Maximum discharge during year, 680 second-feet Feb.22 (gage height, 3.80 feet).
Minimum daily discharge 0.5 second-foot Aug.30,31.

1916-1944
Maximum discharge, about 2,180 second-feet Apr. 4, 1925; no flow during periods in 1919-21, 1924, 1929-30.

REMARKS:

Records good. No diversions or regulation above station.

COOPERATION:

Records furnished by the United States Geological Survey, with the exception of 19 discharge measurements furnished 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. U7-R

DISCHARGE MEASUREMENTS OF FISH CREEK

at above Mouth of Canyon 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.
1526	10-7	407P / 411P	Moon	3.0	1.0	1.10	.16	1.1		.6	4	0	FC22
1527	10-8		U. S. G. S.	4.0	1.0	1.20	.16	1.2		.6	7	0	
1528	10-14	145P / 149P	Moon	3.0	1.0	1.20	.14	1.2		.6	4	0	FC22
1529	10-21	210P / 214P	"	2.9	1.2	1.42	.19	1.7		.6	4	0	"
1530	10-22		U. S. G. S.	3.0	1.3	1.15	.19	1.5		.6	6	0	
1531	10-28	305P / 308P	Moon	3.0	1.2	1.33	.19	1.6		.6	3	0	FC22
1532	11-4	1145A / 1148A	"	3.0	1.2	1.00	.21	1.2		.6	3	0	"
1533	11-6		U. S. G. S.	3.0	1.2	1.00	.17	1.2		.6	6	0	
1534	11-12	1115A / 1118A	Moon	3.0	1.2	1.00	.17	1.2		.6	3		FC22
1535	11-18		U. S. G. S.	3.0	1.3	1.08	.18	1.4		.6	6	0	
1536	11-26	1215P / 1218P	Moon	3.0	1.2	1.08	.19	1.3		.6	3	0	FC22
1537	11-26		U. S. G. S.	3.0	1.2	1.08	.19	1.3		.6	6	0	
1538	12-2	240P / 243P	Moon	3.0	1.2	1.00	.19	1.2		.6	3		FC22
1539	12-6		U. S. G. S.	3.0	1.6	1.56	.30	2.5		.6	6	0	
1540	12-9	410P / 413P	Moon	3.0	1.3	1.08	.24	1.4		.6	3		FC22
1541	12-11		U. S. G. S.	13.3	10.6	1.11	.87	11.8		.6	13	-.03	
1542	12-16	254P / 259P	Moon	4.3	1.9	1.05	.22	2.0		.6	5		FC22
1543	12-18		U. S. G. S.	11.3	7.0	.66	.50	4.6		.6	21	-.01	
1544	12-19		"	15	18.5	2.22	1.48	41.0		.6	15	+.04	
1545	12-20		"	12.6	11.1	1.20	.93	13.3		.6	13	-.03	
1546	12-22		"	12.7	10.6	.85	.74	9.0		.6	13	-.01	
1547	12-23	355P / 402P	Moon	12.0	8.1	0.67	0.58	5.4		.6	6		FC22
1548	12-29		U. S. G. S.	10.5	6.5	1.15	.63	7.5		.6	20	-.01	
1549	12-29		"	2.5	1.4	4.64	.60	6.5		.6	5	0	
1550	12-29	209P / 217P	Moon & Stunden	13.0	8.8	.70	.58	6.2		.6	8	0	FC22
1551	12-31		U. S. G. S.	10	5.9	1.17	.59	6.9		.6	19	0	
1552	1-6	350P / 400P	Moon	11.5	6.1	.66	.41	4.0		.6	9		FC22
1553	1-7		U. S. G. S.	8.0	4.3	.88	.38	3.8		.6	16	0	
1554	1-14	1002A / 1012A	Moon	12.2	4.8	.44	.28	2.1		.6	9		FC22
1555	1-14		U. S. G. S.	2.3	.77	2.73	.28	2.1		.6	5	0	
1556	1-21		"	2.3	.70	2.43	.26	1.7		.6	5	0	
1557	1-21	125P / 130P	Moon	2.2	.63	2.38	.26	1.5		.6	5		FC22
1558	1-27	220P / 225P	"	2.3	.77	2.86	.30	2.2		.6	5		"
1559	1-28		U. S. G. S.	2.3	.75	2.53	.28	1.9		.6	5	0	
1560	2-4		"	11.5	7.6	.80	.55	6.1		.6	12	0	
1561	2-9		"	11.5	7.6	.71	.58	5.4		.6	22	0	
1562	2-10	211P / 215P	Moon	2.4	1.1	4.00	.50	4.4		.6	3		FC22
1563	2-11		U. S. G. S.	2.5	1.2	3.42	.46	4.1		.6	5	0	
1564	2-17	345P / 349P	Moon	2.4	1.0	3.50	.41	3.5		.6	4		FC22
1565	2-18		U. S. G. S.	2.4	1.0	2.70	.40	2.7		.6	5	0	
1566	2-21		"	14.9	17.1	1.74	1.30	29.7		.6	15	-.01	
1567	2-23		"	26	29.1	2.71	1.76	79.		.6	26	0	
1568	2-26		"	20.5	13.8	1.88	1.07	26.0		.6	20	0	
1569	2-29		"	18	11.7	1.35	.83	15.8		.6	18	0	
1570	3-2		"	27	27.8	2.48	1.82	69		.6	27	-.01	
1571	3-6		"	21.5	15.4	1.95	1.24	30.1		.6	21	0	
1572	3-10		"	20	11.5	1.56	.94	17.9		.6	19	0	
1573	3-16	155P / 203P	Moon	Two Channels			.77	12.6		.6	7	0	FC22
1574	3-16		U. S. G. S.	18	9.3	1.27	.76	11.8		.6	18	0	
1575	3-24		"	17	7.6	1.05	.61	8.0		.6	17	0	
1576	3-31		"	17	7.2	.88	.60	6.3		.6	17	0	
1577	4-1	1248P / 1253P	Moon	2.6	1.4	5.07	.61	7.1		.6	5	0	FC22
1578	4-7		U. S. G. S.	2.6	1.3	4.69	.58	6.1		.6	5	0	
1579	4-7	245P / 250P	Moon	2.5	1.2	5.00	.56	6.0		.6	4	0	FC22
1580	4-13	1005A / 1010A	"	2.5	1.2	4.25	.52	5.1		.6	5	0	
1581	4-14		U. S. G. S.	11	5.6	.96	.52	5.4		.6	11	0	
1582	4-20	1238P / 1244P	Moon	2.4	1.1	4.09	.50	4.5		.6	5	0	FC22
1583	4-21		U. S. G. S.	10	4.0	.90	.50	3.6		.6	10	0	
1584	4-27	345P / 400P	Moon	16	11.9	1.76	1.09	20.9		.6	12	0	FC22
1585	4-28		U. S. G. S.	10	4.9	1.12	.56	5.5		.6	10	0	
1586	5-4	1100A / 1105A	Moon	2.4	1.0	3.90	.45	3.9		.6	5		FC22
1587	5-5		U. S. G. S.	10	3.9	.90	.45	3.5		.6	10	0	
1588	5-11	430P / 435P	Moon	2.4	.95	3.26	.42	3.1		.6	5	0	FC22
1589	5-12		U. S. G. S.	8.5	3.7	.92	.43	3.4		.6	16	0	
1590	5-19		"	8.0	3.8	.89	.40	3.4		.6	8	0	
1591	5-25	420P / 425P	Moon	2.3	.86	3.37	.37	2.9		.6	5		FC22
1592	5-26		U. S. G. S.	8.0	3.8	.76	.38	2.9		.6	8	0	
1593	6-1	358P / 403P	Moon	2.3	0.86	3.49	0.39	3.0		.6	5	0	FC22
1594	6-2		U. S. G. S.	8.0	3.7	.76	.39	2.8		.6	16	0	
1595	6-8	408P / 415P	Moon	2.3	.82	3.05	.34	2.5		.6	5	0	FC22
1596	6-9		U. S. G. S.	8.0	3.9	.77	.39	3.0		.6	10	0	
1597	6-15	420P / 425P	Moon	2.3	.81	3.09	.32	2.5		.6	5	0	FC22
1598	6-16		U. S. G. S.	8.0	3.7	.71	.32	2.6		.6	16	0	
1599	6-22	439P / 450P	Moon	7.9	3.14	.70	.28	2.2		.5	7	0	FC22
1600	6-23		U. S. G. S.	8.0	3.6	.61	.30	2.2		.6	16	0	
1601	6-30		"	6.0	2.8	.68	.29	1.9		.6	12	0	
1602	7-6	240P / 245P	Moon	2.2	.63	2.54	.25	1.6		.6	5	0	FC22
1603	7-14		U. S. G. S.	5.0	2.4	.58	.26	1.4		.6	10	0	
1604	7-21		"	5.0	2.2	.64	.23	1.4		.6	10	0	
1605	7-28		"	5.0	2.3	.61	.23	1.4		.6	10	0	
1606	8-10		"	4.0	1.7	.59	.19	1.0		.6	8	0	
1607	8-18		"	4.0	1.8	.50	.20	.90		.6	8	0	
1608	8-26		"	3.5	1.5	.52	.17	.78		.6	7	0	
1609	8-31		"	3.5	1.3	.39	.14	.51		.6	7	0	
1610	9-13		"	3.5	1.6	.57	.17	.91		.6	7	0	
1611	9-23		"	3.5	1.47	.42	.16	.62		.6	7	0	

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U7-R

Daily discharge, in second-feet of FISH CREEK above Mouth of Canyon, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	1.3	1.2	4.9	2.2	37	6.5	4.1	2.9	1.6	1.3	0.6
2	1.2	1.3	1.1	4.3	2.1	24	6	3.9	2.9	1.6	1.3	0.9
3	1.2	1.2	1.1	3.8	2.6	46	6	3.8	2.7	1.7	1.2	1.0
4	1.2	1.1	1.1	3.3	8.5	36	6	3.5	2.2	1.7	1.2	0.8
5	1.2	1.1	1.1	3.3	3.5	34	6	3.3	2.0	1.6	1.1	0.8
6	1.2	1.1	2.0	5.5	3.0	31	6	3.3	2.0	1.6	1.0	0.8
7	1.2	1.1	1.6	3.8	2.7	28	6	3.3	2.1	1.5	1.0	0.8
8	1.2	1.1	1.5	3.3	7.5	24	6	3.3	2.5	1.5	1.0	0.8
9	1.3	1.2	1.4	3.0	6	21	5.5	3.5	2.9	1.5	1.0	0.8
10	1.4	1.2	9	2.7	4.5	19	5.5	3.5	2.7	1.4	1.0	0.8
11	1.3	1.2	15	2.5	4.1	16	5.5	5.3	2.5	1.4	0.9	0.8
12	1.2	1.2	3.7	2.3	3.5	16	5.5	3.0	2.5	1.4	0.9	0.8
13	1.1	1.2	2.7	2.2	3.3	19	5	2.9	2.5	1.3	0.8	0.9
14	1.1	1.2	2.2	2.1	3.1	16	5	3.0	2.5	1.3	0.8	0.9
15	1.1	1.2	2.1	2.0	4.3	14	4.9	3.0	2.5	1.3	0.8	0.8
16	1.1	1.2	2.0	1.9	3.0	12	4.7	3.0	2.3	1.3	0.8	0.8
17	1.1	1.2	1.8	1.8	3.0	11	4.5	3.0	2.2	1.3	0.8	0.8
18	2.7	1.3	2.8	1.8	3.0	11	4.3	3.1	2.2	1.3	0.8	0.8
19	2.1	1.4	28	1.7	3.3	11	4.3	3.1	2.2	1.3	0.8	0.8
20	1.6	1.4	2.9	1.7	28	11	4.1	3.0	2.1	1.3	0.8	0.8
21	1.6	1.4	40	1.6	54	10	3.9	3.0	2.2	1.3	0.8	0.7
22	1.5	1.4	9	1.6	325	9.5	3.8	3.1	2.2	1.3	0.8	0.7
23	1.4	1.4	6	2.2	106	9	3.7	3.1	2.3	1.3	0.8	0.6
24	1.3	1.3	4.5	5.5	51	9	3.7	3.0	2.3	1.4	0.8	0.6
25	1.3	1.3	3.8	2.2	34	9.5	3.5	2.9	2.3	1.4	0.8	0.6
26	1.3	1.3	3.0	2.0	26	9	3.3	2.7	2.2	1.4	0.8	0.6
27	1.4	1.3	2.7	2.0	21	8.5	10	2.5	2.1	1.3	0.7	0.6
28	1.6	1.3	2.7	1.9	17	8	5.5	2.5	2.0	1.3	0.6	0.6
29	1.6	1.2	5.5	1.8	17	7	4.5	2.5	1.8	1.3	0.6	0.6
30	1.5	1.2	5.5	2.1		6.5	4.3	2.5	1.7	1.3	0.5	0.6
31	1.4		7	2.1		6.5		2.7		1.3	0.5	
	42.6	37.3	200.1	82.9	752.2	589.5	153.5	96.4	69.5	43.5	27.0	22.5
MEAN	1.37	1.24	6.45	2.67	25.9	19.0	5.12	3.11	2.32	1.40	.87	.75
ACRE-FEET	84.	74.	397.	164.	1,490.	1,170.	304.	191.	138.	86.	54.	45.

Remarks:

YEAR OR PERIOD MEAN 5.78
ACRE-FEET 4,200.

STATION U12-R

HAINES CREEK above Mouth of Canyon

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 1⅞ 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 30, 1944.

AVERAGE DISCHARGE:

26 years, 0.186 second-foot.

EXTREMES:

1943-1944
Maximum discharge during year, 74 second-feet Feb. 22. (gage height, 3.35 feet).
Minimum daily discharge, 0.01 second-foot Oct. 1,7.

1917-1934, 1935-44
Maximum gage-height, 11.0 feet Jan. 1, 1934 (discharge not determined). Maximum discharge of record, 265 second feet March 2, 1938 (gage height 4.60 feet).
No flow for periode in most years.

REMARKS:

Records good. 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. U12-R

DISCHARGE MEASUREMENTS OF HAINES CREEK

~~at~~ above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
356	10-5		U.S.G.S.				1.05	0.01		Vol			
357	10-20		"				1.06	0.02		Vol		0	
358	11-5		"				1.06	0.03		Vol			
359	11-17		"				1.09	0.04		Vol			
360	11-23		"	0.5	0.08	0.50	1.08	0.04		.6	2	0	
361	12-2		"	0.5	0.08	0.75	1.08	0.06		.6	2	0	
362	12-11		"	1.7	0.41	0.39	1.14	0.16		.6	7	0	
363	12-16		"				1.10	0.07		Vol			
364	12-24		"	1.0	0.20	0.55	1.15	0.11		.6	2	0	
365	1-4		"	1.0	0.20	0.80	1.14	0.16		.6	2	0	
366	1-11		"	1.0	0.20	0.80	1.14	0.16		.6	2	0	
367	1-18		"	1.0	0.20	0.80	1.13	0.16		.6	2	0	
368	1-26		"				1.13	0.15		Vol			
369	2-2		"	1.0	0.25	0.48	1.13	0.12		.6	2	0	
370	2-8		"	1.0	0.24	0.58	1.13	0.14		.6	2	0	
371	2-15		"	1.0	0.20	0.50	1.11	0.10		.6	2	0	
372	2-21		"	2.8	0.58	1.69	1.51	0.98		.6	6	0	
373	2-25		"	5.0	2.6	1.27	1.69	3.3		.6	10	0	
374	3-2		"	7.0	2.7	1.22	1.71	3.3		.6	12	0	
375	3-4		"	6.0	2.4	1.21	1.67	2.9		.6	12	0	
376	3-4		"	6.0	2.3	1.22	1.71	2.8		.6	12	0	
377	3-8		"	2.7	1.4	1.21	1.51	1.7		.6	6	0	

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U12-R

DISCHARGE MEASUREMENTS OF HAINES CREEK

at above Mouth of Canyon [redacted]

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.
378	3-17		U.S.G.S.	2.7	1.1	0.91	1.34	1.0		.6	6	0	
379	3-21		"	2.7	0.92	0.84	1.34	0.77		.6	6	0	
380	3-28		"	2.7	1.3	0.68	1.36	0.88		.6	6	0	
381	4-4		"	2.0	0.52	0.96	1.28	0.50		.6	4	0	
382	4-11		"	2.0	0.48	0.79	1.27	0.38		.6	4	0	
383	4-18		"	2.0	0.44	0.75	1.26	0.33		.6	4	0	
384	4-25		"	2.0	0.40	0.70	1.24	0.28		.6	4	0	
385	5-2		"	1.5	0.30	0.70	1.23	0.21		.6	3	0	
386	5-9		"	1.5	0.33	0.79	1.23	0.26		.6	3	0	
387	5-16		"	1.5	0.30	0.60	1.20	0.18		.6	3	0	
388	5-23		"	1.5	0.36	0.69	1.20	0.25		.6	3	0	
389	5-30		"	1.5	0.33	0.52	1.20	0.17		.6	3	0	
390	6-6		"	1.5	0.30	0.73	1.17	0.22		.6	3	0	
391	6-13		"	1.6	0.32	0.69	1.17	0.22		.6	4	0	
392	6-20		"	1.5	0.30	0.57	1.16	0.17		.6	3	0	
393	6-27		"	1.6	0.32	0.59	1.15	0.19		.6	4	0	
394	7-11		"	1.0	0.20	0.70	1.13	0.14		.6	2	0	
395	7-18		"				1.11	0.08	Vol			0	
396	7-25		"				1.11	0.09	Vol				
397	8-8		"				1.12	0.05	Vol				
398	8-17		"				1.10	0.05	Vol				
399	8-30		"				1.07	0.04	Vol				
400	9-12		"				1.07	0.03	Vol				
401	9-19		"				1.07	0.04	Vol				

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U12-R

Daily discharge, in second-feet of HAINES CREEK above Mouth of Canyon, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.01	0.04	0.06	0.13	0.11	1.9	0.57	0.21	0.21	0.19	0.08	0.06
2	0.01	0.04	0.06	0.13	0.11	4.1	0.53	0.21	0.21	0.19	0.08	0.08
3	0.01	0.04	0.06	0.15	0.13	3.2	0.53	0.21	0.21	0.19	0.06	0.08
4	0.01	0.03	0.06	0.15	0.13	2.8	0.49	0.24	0.21	0.17	0.06	0.06
5	0.01	0.03	0.06	0.15	0.13	2.3	0.46	0.24	0.21	0.17	0.06	0.05
6	0.01	0.02	0.06	0.15	0.11	2.0	0.42	0.24	0.21	0.17	0.06	0.04
7	0.01	0.02	0.06	0.15	0.11	1.9	0.42	0.24	0.21	0.15	0.06	0.03
8	0.02	0.02	0.06	0.15	0.13	1.8	0.46	0.26	0.24	0.15	0.06	0.03
9	0.02	0.02	0.06	0.15	0.17	1.6	0.42	0.26	0.24	0.15	0.06	0.03
10	0.02	0.02	0.22	0.15	0.09	1.5	0.39	0.26	0.21	0.15	0.06	0.03
11	0.02	0.03	0.19	0.15	0.09	1.4	0.42	0.24	0.21	0.15	0.06	0.03
12	0.02	0.03	0.11	0.15	0.09	1.3	0.39	0.24	0.21	0.13	0.06	0.03
13	0.02	0.03	0.11	0.15	0.09	1.1	0.39	0.21	0.21	0.13	0.06	0.03
14	0.02	0.04	0.09	0.15	0.09	1.0	0.39	0.21	0.21	0.13	0.06	0.03
15	0.02	0.04	0.08	0.15	0.09	1.0	0.35	0.21	0.21	0.11	0.06	0.03
16	0.02	0.04	0.06	0.15	0.09	1.0	0.35	0.21	0.21	0.11	0.06	0.04
17	0.02	0.04	0.06	0.15	0.09	1.0	0.35	0.21	0.19	0.11	0.06	0.04
18	0.02	0.04	0.09	0.15	0.09	0.88	0.35	0.21	0.19	0.09	0.05	0.04
19	0.02	0.04	0.11	0.15	0.13	0.78	0.35	0.21	0.19	0.09	0.05	0.04
20	0.02	0.04	0.55	0.15	1.4	0.69	0.32	0.21	0.19	0.09	0.05	0.04
21	0.02	0.04	0.57	0.15	2.9	0.73	0.32	0.24	0.19	0.09	0.05	0.04
22	0.02	0.04	0.11	0.15	36	0.73	0.32	0.24	0.19	0.11	0.05	0.04
23	0.02	0.04	0.11	0.15	9.5	0.83	0.32	0.24	0.19	0.11	0.05	0.04
24	0.02	0.04	0.11	0.15	4.7	0.88	0.32	0.24	0.21	0.11	0.05	0.03
25	0.02	0.04	0.09	0.15	3.2	0.83	0.29	0.21	0.21	0.11	0.05	0.03
26	0.02	0.04	0.11	0.15	2.6	0.83	0.29	0.19	0.21	0.11	0.05	0.03
27	0.02	0.04	0.11	0.15	1.9	0.78	0.35	0.17	0.21	0.09	0.05	0.04
28	0.03	0.05	0.11	0.13	1.4	0.78	0.26	0.17	0.21	0.09	0.05	0.04
29	0.04	0.05	0.13	0.13	1.1	0.73	0.24	0.17	0.19	0.09	0.05	0.05
30	0.04	0.05	0.15	0.13		0.64	0.24	0.17	0.19	0.08	0.05	0.05
31	0.04		0.15	0.13		0.60		0.19		0.08	0.05	
	0.62	3.96			66.77		11.30		6.18		1.76	
		1.08		4.53		41.61		6.76		3.69		1.23
MEAN	0.020	0.36	.128	.146	2.30	1.34	.377	.218	.206	.125	.057	.041
ACRE-FEET	1.2	2.1	7.9	9.0	132.	83.	22.	13.	12.	7.7	3.5	2.4

Remarks:

YEAR OR PERIOD MEAN .409
ACRE-FEET 296.

STATION F149-R

LIMEKILN WASH at Devonshire Avenue

LOCATION:

Water-stage recorder, lat.34°15'27", long.118°33'29", in the center on the downstream end of a double box culvert under Devonshire Avenue about 2⅔ miles east of Chatsworth. Elevation of gage, about 970 feet (from topographic map).

DRAINAGE AREA:

3.8 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and small boulders. Control-a concrete apron extended past the gage insures 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, 1943 to September 30, 1944.

REGULATION:

None.

RECORDS AVAILABLE:

November 9, 1939, to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 288 second-feet, February 22.
Minimum no flow most of year.
1939-1944
Maximum 318 second-feet, February 17, 1941.
Minimum no flow most of year.

ACCURACY:

Fair.

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. F149-R

DISCHARGE MEASUREMENTS OF LIMEKILN WASH

AT Devonshire Avenue 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.
76	12-10	1035A / 1040A	Luce	2.0	0.18	0.39	0.15	0.07		.6	3	0	FC39
77	12-10	415P / 420P	"	4.0	0.92	1.70	0.26	1.6		.6	4	-.01	"
78	12-11	950A / 955A	"	4.0	1.02	1.67	0.17	1.7		.6	4	-.03	"
79	12-18	940A / 945A	"	2.5	0.61	0.87	0.16	0.53		.6	5	0	"
80	12-20	1215P / 1220P	"	2.8	0.46	0.65	0.14	0.30		.6	4	0	"
81	12-21	1055A / 1100A	Luce & Hemphill	3.5	0.56	0.61	0.13	0.34		.6	4	0	"
82	12-29	1035A / 1040A	Luce	2.3	0.32	0.47	0.23	0.15		.6	4	0	"
83	12-30	1212P / 1217P	"	3.5	9.1	1.44	0.38	1.3		.6	4	0	"
84	2-20	220P / 228P	Luce & Hemphill	6.8	3.6	3.50	0.58	12.6		.6	7	0	"
85	2-21	915A / 920A	"	5.8	1.82	3.36	0.50	6.1		.6	6	0	"
86	2-21	133P / 140P	"	7.1	6.81	4.40	1.00	30.0		.6	8	-.05	"
87	2-22	950A / 1005A	"	9.0	12.5	4.28	1.50	53.5	Float &	.6	7	0	"
88	2-22	531P / 536P	"	7.8	6.94	3.65	0.92	25.3		.6	7	0	"
89	2-25	326P / 330P	Luce	3.0	0.30	0.87	0.39	0.26		.6	4	0	"
90	3-2	128P / 135P	Luce & Hemphill	7.0	2.02	3.18	0.59	6.4		.6	6	+.02	"
91	3-7	1055A / 1100A	Luce	3.0	0.33	1.61	0.58	0.53		.6	4	-.02	"
92	3-10	110P / 115P	"	3.0	0.38	1.45	0.55	0.55		.6	4	0	"
93	3-17	410P / 420P	"	1.7	0.29	1.14	0.30	0.33		.6	4	0	"
94	3-24	345P / 350P	"	2.2	0.30	1.07	0.28	0.32		.6	4	0	"
95	4-1	505P / 510P	"	1.8	0.22	0.82	0.25	0.18		.6	4	0	"
96	4-14	548P / 552P	"	1.8	0.22	1.09	0.27	0.24		.6	4	0	"
97	4-21	424P / 428P	"	2.0	0.22	0.86	0.26	0.19		.6	3	0	"
98	4-28	602P / 606P	"	2.0	0.23	0.87	0.25	0.20		.6	4	0	"
99	5-5	1215P / 1220P	"	1.5	0.12	0.67	0.20	0.08		.6	3	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

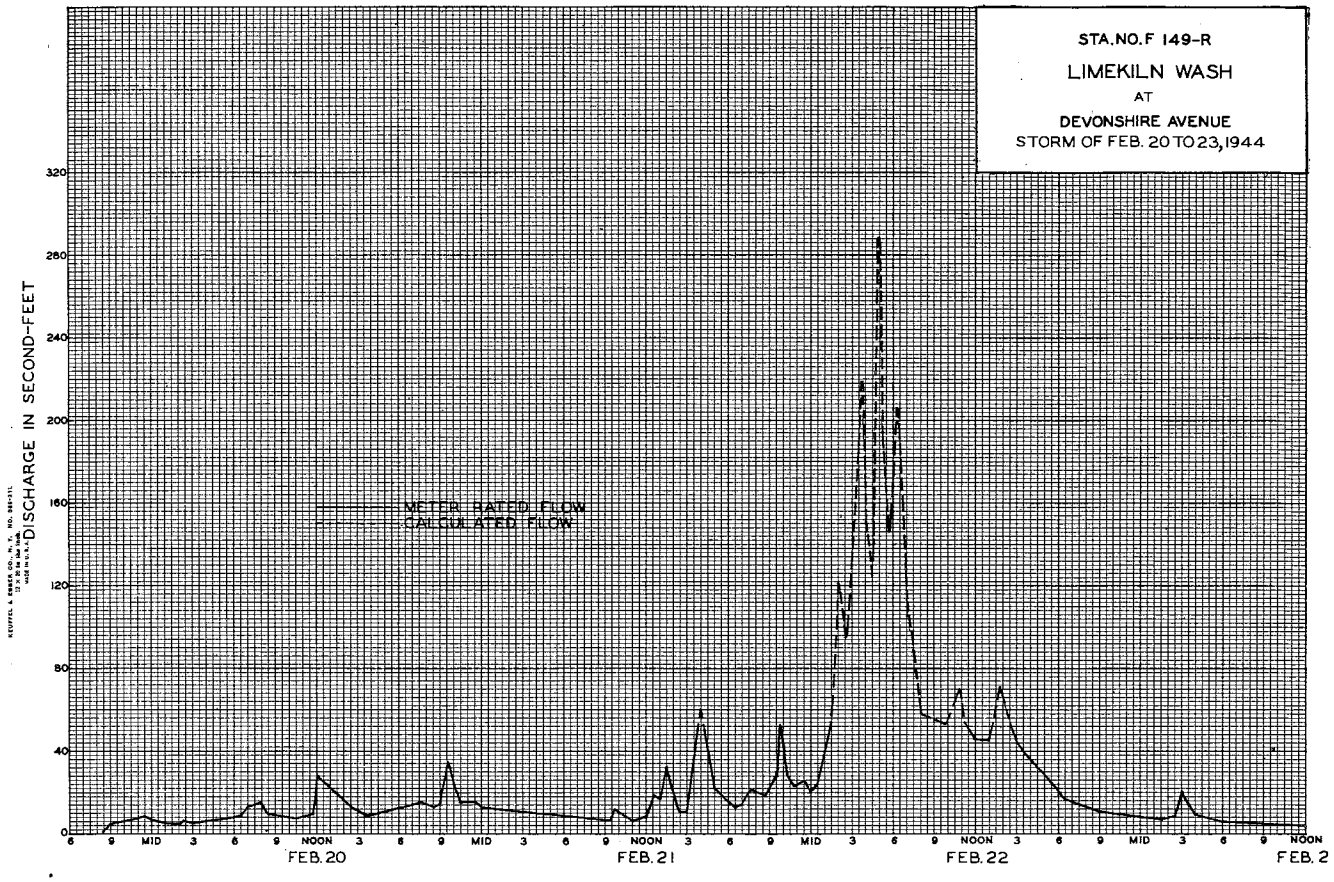
Sta. No. F149-R

Daily discharge, in second-feet of LIMEKILN WASH at Devonshire Avenue, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	1.3	0.4	+	+	0	0	0
2	0	0	0	0	0	1.8	0.3	+	+	0	0	0
3	0	0	0	0	0	.5	0.4	+	+	0	0	0
4	0	0	0	0	0	1.2	0.5	+	0	0	0	0
5	0	0	0	0.1	0	b 4.1	0.4	0.1	0	0	0	0
6	0	0	+	0.3	0	0.8	0.5	+	0	0	0	0
7	0	0	0	+	0	0.5	0.3	0.2	0	+	0	0
8	0	0	0	+	0	0.5	0.7	0.2	0	+	0	0
9	0	0	0	+	0	0.4	0.6	0.5	0	+	0	0
10	0	0	0.8	0	+	0.6	0.4	0.8	0	+	+	0
11	0	0	0.7	0	+	1.2	0.5	0.6	+	+	+	0
12	0	0	0	0	+	0.4	0.4	0.2	+	+	+	0
13	0	0	0	0	+	1.0	0.4	0.4	0	+	+	0
14	0	0	0	0	+	1.2	0.3	0.2	0	+	0	0
15	0	0	0	0	+	1.0	0.4	0.3	0	+	0	0
16	0	0	0	0	+	0.7	0.4	0.2	0	+	0	0
17	0	0	0	0	+	0.5	0.4	0.1	0	+	0	0
18	0	0	0.2	0	+	0.6	0.3	0.1	0	0	0	0
19	0	0	0.5	0	1.3	0.5	0.2	+	+	0	0	0
20	0	0	4.0	0	1.2	0.7	0.2	+	+	0	0	0
21	0	0	1.0	0	1.7	0.6	0.2	+	+	0	0	0
22	0	0	+	0	6.5	0.4	0.2	+	+	0	+	0
23	0	0	+	0	5.5	0.3	0.2	+	0	+	+	0
24	0	0	0	0	0.5	0.3	0.2	+	0	+	+	0
25	0	0	0	0	0.2	0.4	0.2	+	0	+	+	0
26	0	0	0	0	0.1	0.3	0.2	0	0	0	+	a 0
27	0	0	0	0	+	0.4	0.7	0	0	0	+	a 0
28	0	0	0.3	0	0.2	0.3	0.3	0	0	0	0	a 0
29	0	0	1.1	0	0.1	0.3	0.2	0	0	0	0	a 0
30	0	0	0.8	0		0.3	0.2	0	0	0	0	a 0
31	0		+	0		0.3		0		0	0	
	0		9.4		101.9		10.6		+		+	
		0		0.4		66.6		3.9		+		0
MEAN	0	0	0.30	+	3.51	2.15	0.35	0.13	+	+	+	0
ACRE-FEET	0	0	19.	0.8	202.	132.	21.	7.7	+	+	+	0

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

YEAR OR PERIOD MEAN 0.53 ACRE-FEET 382.



STATION F65B-R

LITTLE DALTON CREEK above Mouth of Canyon

LOCATION:

Water-stage recorder, lat.34°10'05", long.117°50'17", on the left (east) bank about 120 feet above Glendora Mountain Road crossing, 0.8 mile above mouth of canyon and about 3 miles northeast of Glendora. Elevation of zero gage height, 1334.19 feet.

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 F65-R at mouth of canyon (drainage area 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.C.F. continuous recorder was in service from October 1, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

Glendora Consolidated Mutual Water Company.

RECORDS AVAILABLE:

At Station F65-R
January 28, 1929 to November 23, 1938.
At Station F65B-R
November 30, 1938 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 198 second feet, February 22.
Minimum no flow for several months.
1929-1944
Maximum 960 second-feet, estimated, March 2, 1938.
Minimum no flow several months each year.

ACCURACY:

Good.

OPERATION:

Located, constructed, and operated by the Los Angeles County Flood Control District with cooperation of the United States Geological Survey, Water Resources Branch.

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

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, 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.
279	10-21	921A / 925A	Brewster	0.5	0.11	0.55	0.10	0.06		.6	1	0	FC12
280	10-28	1121A / 1125A	"	0.5	0.11	0.55	0.10	0.06		.6	1	0	"
281	11-4	1012A / 1015A	"	0.5	0.12	0.50	0.11	0.06		.6	1	0	"
282	11-10	946A / 950A	"	0.5	0.12	0.42	0.10	0.05		.6	1	0	"
283	11-18	241P / 245P	"	0.5	0.11	0.45	0.11	0.05		.6	1	0	"
284	11-24	902A / 905A	"	0.5	0.12	0.58	0.12	0.07		.6	1	0	"
285	12-2	1232P / 1235P	"	0.5	0.12	0.50	0.13	0.06		.6	1	0	"
286	12-9	956A / 1000A	"	0.5	0.12	0.92	0.15	0.11		.6	1	0	"
287	12-10	424P / 430P	"	4.0	0.90	0.97	0.19	0.87		.6	4	-.02	"
288	12-11	1148A / 1155A	"	8.0	2.20	1.00	0.30	2.2		.6	4	-.01	"
289	12-16	954A / 1000A	"	1.0	0.25	1.12	0.15	0.28		.6	2	0	"
290	12-19	1120A / 1130A	"	8.0	2.44	1.07	0.30	2.6		.6	4	0	"
291	12-21	1057A / 1105A	"	8.0	2.32	1.12	0.31	2.6		.6	4	0	"
292	12-23	100P / 108P	"	4.0	1.12	1.16	0.21	1.3		.6	4	0	"
293	12-30	212P / 220P	"	4.0	1.00	0.99	0.20	0.99		.6	4	0	"
294	1-6	1242P / 1250P	"	5.0	1.06	0.94	0.20	1.0		.6	5	0	"
295	1-13	1048A / 1055A	"	4.0	0.78	1.01	0.17	0.79		.6	4	0	"
296	1-20	935A / 940A	Haig	3.3	0.75	0.48	0.16	0.36		.6	5	0	FC35
297	1-27	948A / 957A	Haig & Green	3.3	0.81	0.44	0.17	0.36		.6	7	0	"
298	2-3	1030A / 1035A	Green	3.2	0.77	0.51	0.17	0.39		.6	6	0	FC42
299	2-9	935A / 940A	"	3.2	1.06	0.75	0.24	0.80		.6	7	0	"
300	2-17	1000A / 1008A	Brewster	4.0	1.10	0.57	0.20	0.63		.6	4	0	FC12
301	2-20	920A / 930A	"	8.0	2.04	0.93	0.27	1.9		.6	4	0	FC12
302	2-20	220P / 230P	"	9.0	3.07	1.24	0.40	3.8		.6	5	0	"
303	2-21	400P / 410P	Brewster	10.0	5.00	1.76	0.59	8.8		.6	5	0	FC12
304	2-21	708P / 718P	Green	9.3	6.34	2.21	0.64	14.0		.6	6	0	FC42
305	2-22	1045A / 1110A	Brewster	27.0	30.8	6.14	2.77	189.		.6	6	0	FC12
306	2-22	335P / 345P	"	24.0	20.4	6.62	2.58	135.		.6	6	+.07	"
307	2-23	915A / 925A	Brewster & Smith	16.0	6.98	2.72	1.15	19.0		.6	5	0	"
308	2-23	410P / 430P	Green	11.0	6.23	2.62	0.96	16.3		.6	10	+.01	FC42
309	2-24	100P / 110P	Brewster & Smith	12.0	4.72	2.03	0.79	9.6		.6	6	0	FC12
310	2-25	835A / 845A	"	12.0	4.28	1.50	0.75	6.4		.6	6	0	"
311	3-2	1018A / 1030A	Brewster	14.0	6.20	2.19	1.20	13.6		.6	5	0	"
312	3-4	825A / 840A	"	15.0	5.40	1.67	0.93	9.0		.6	5	0	"
313	3-9	1050A / 1100A	"	10.0	3.0	1.20	0.77	3.6		.6	5	0	"
314	3-16	1135A / 1145A	"	6.0	3.05	1.15	0.66	3.5		.6	4	0	"
315	3-23	900A / 910A	"	8.0	2.28	1.05	0.50	2.4		.6	4	0	"
316	3-30	1050A / 1100A	"	8.0	2.28	1.01	0.61	2.3		.6	4	0	"
317	4-6	955A / 1005A	"	8.0	2.24	0.89	0.48	2.0		.6	4	0	"
318	4-13	952A / 1000A	"	8.0	1.96	0.87	0.26	1.7		.6	4	0	"
319	4-20	955A / 1005A	"	8.0	1.88	0.74	0.25	1.4		.6	4	0	"
320	4-27	855A / 905A	"	9.0	2.96	1.22	0.39	3.6		.6	5	-.02	"
321	5-4	944A / 953A	"	7.0	1.76	0.62	0.18	1.1		.6	4	0	"
322	5-11	1032A / 1040A	"	3.0	0.97	1.24	0.19	1.2		.6	3	0	"
323	5-18	924A / 930A	"	2.0	0.80	1.19	0.18	0.95		6	2	0	"
324	5-25	914A / 920A	"	2.0	0.69	1.13	0.18	0.78		.6	2	0	"
325	6-1	1019A / 1025A	"	2.0	0.69	1.19	0.19	0.82		.6	2	0	"
326	6-9	930A / 935A	Brewster & Bonadiman	2.0	0.73	1.19	0.20	0.87		.6	2	0	"
327	6-16	851A / 856A	Bonadiman	5.0	1.33	0.65	0.17	0.86		.6	3	0	FC19
328	6-23	845A / 849A	"	5.0	1.24	0.36	0.16	0.45		.6	3	0	"
329	6-28	934A / 940A	Brewster	2.0	0.74	0.95	0.16	0.70		.6	2	0	FC12
330	7-5	1000A / 1005A	"	2.0	0.58	0.90	0.14	0.52		.6	2	0	"
331	7-12	310P / 315P	"	1.0	0.24	0.83	0.13	0.20		.6	2	0	"
332	7-19	902A / 906A	"	0.5	0.13	1.00	0.10	0.13		.6	1	0	"
333	8-2	846A / 850A	"	0.5	0.11	0.55	0.08	0.06		.6	1	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

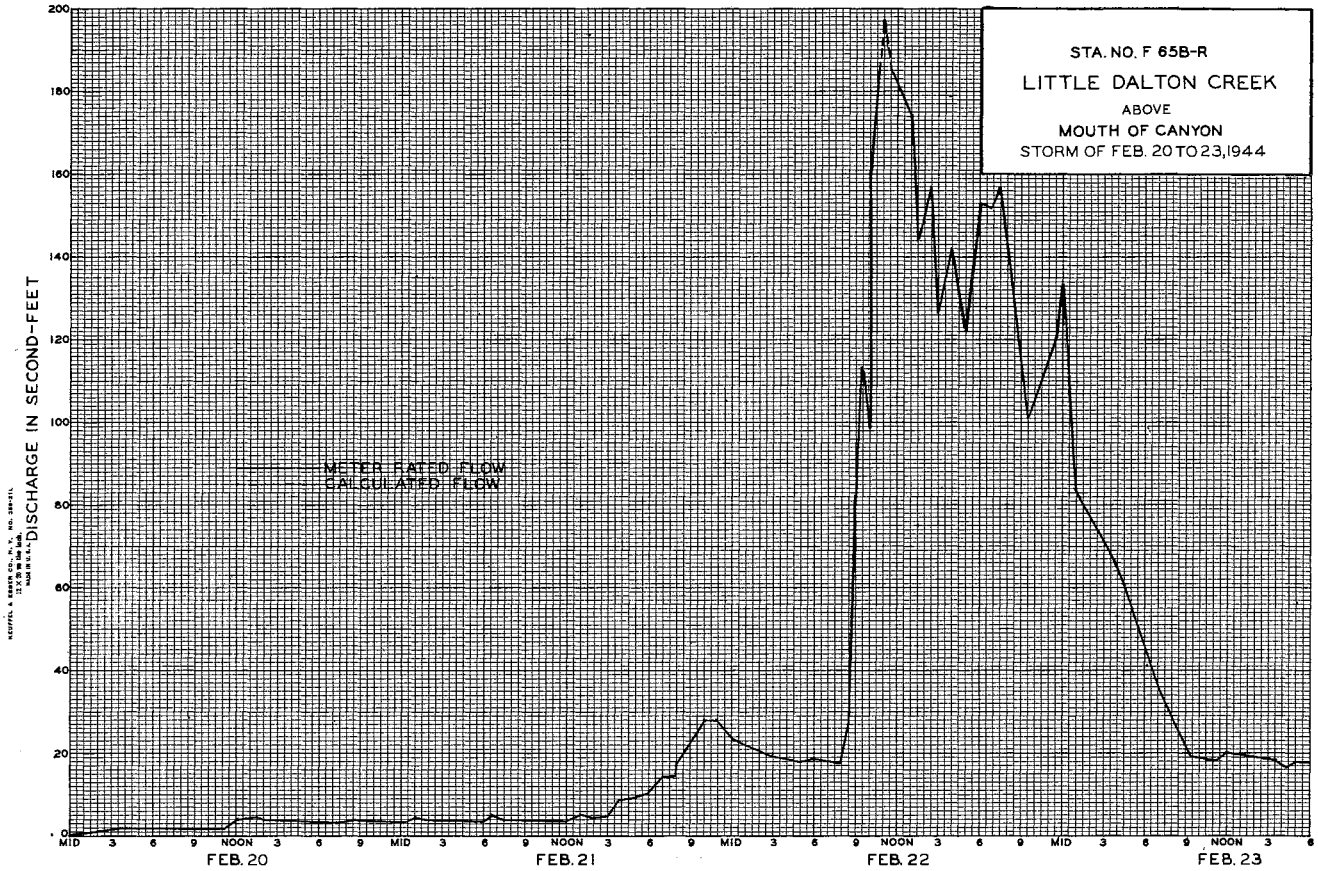
Sta. No. F65B-R

Daily discharge, in second-feet of LITTLE DALTON CREEK above Mouth of Canyon, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	+	0.8	0.5	3.1	2.6	1.4	0.8	0.5	0.1	0
2	0	0	0.1	0.7	0.5	15	2.6	1.4	1.0	0.5	+	0
3	0	+	0.1	0.7	0.6	9.5	1.9	1.2	0.7	0.5	+	0
4	0	0.1	0.1	0.6	1.5	9.5	2.2	1.1	0.6	0.5	+	0
5	0	0.1	0.1	0.6	0.6	7	2.2	1.0	0.5	0.5	+	0
6	0	+	0.1	1.0	0.6	5.5	2.0	1.0	0.5	0.3	+	0
7	0	+	0.1	1.0	0.5	4.6	1.7	1.1	0.5	0.3	+	0
8	0	+	0.1	1.0	0.8	3.8	3.0	1.1	0.6	0.3	0	0
9	0	+	0.1	1.0	0.8	3.4	4.3	1.2	0.7	0.4	0	0
10	0	+	1.2	1.0	0.6	3.0	2.0	1.2	0.6	0.3	0	0
11	0	+	1.6	0.8	0.6	3.0	1.5	1.2	0.6	0.3	0	0
12	0	+	0.7	1.0	0.5	3.2	1.5	0.8	0.6	0.2	0	0
13	0	0.1	0.6	0.8	0.5	3.6	1.6	0.8	0.6	0.2	0	0
14	0	+	0.4	0.7	0.5	3.8	1.7	1.0	0.7	0.2	0	0
15	0	+	0.3	0.6	0.7	3.8	1.5	0.8	0.7	0.2	0	0
16	0	+	0.2	0.6	0.6	3.6	1.4	0.7	0.8	0.1	0	0
17	0	+	0.3	0.5	0.6	4.0	1.2	0.7	0.6	0.1	0	0
18	0.1	0.1	0.5	0.5	0.6	3.6	1.2	0.8	0.6	0.1	0	0
19	0.1	0.1	2.2	0.4	0.6	2.4	1.4	0.8	0.5	0.1	0	0
20	0.1	0.1	2.7	0.3	2.7	2.2	1.4	a 0.8	0.5	0.1	0	0
21	0.1	0.1	3.1	0.3	8.5	1.9	1.0	a 0.8	0.5	0.1	0	0
22	0.1	0.1	1.6	0.3	2.7	2.0	0.6	a 0.7	0.4	0.1	0	0
23	+	0.1	1.4	0.4	b 3.3	2.4	0.6	a 0.7	0.4	0.1	0	0
24	+	0.1	1.2	0.6	1.0	2.2	0.6	a 0.7	0.5	0.2	0	0
25	+	0.1	1.0	0.4	6.5	1.7	0.6	a 0.7	0.5	0.2	0	0
26	+	0.1	0.7	0.3	5	2.2	0.6	a 0.7	0.5	0.2	0	0
27	0.1	+	0.6	0.3	2.2	3.0	2.5	a 0.7	0.6	0.2	0	0
28	0.1	+	0.6	0.3	0.8	3.0	2.4	0.8	0.6	0.2	0	0
29	0.1	+	1.0	0.3	0.5	3.0	2.4	0.7	0.6	0.1	0	0
30	0.1	+	1.0	0.3		2.4	2.4	0.8	0.5	0.1	0	0
31	0.1		1.0	0.4		2.8		0.8		0.1	0	
	1.0	1.2	24.7	18.5	178.4	124.2	52.6	28.2	17.8	7.3	0.1	0
MEAN	0.03	0.04	0.80	0.60	6.36	4.12	1.75	0.91	0.59	0.24	+	0
ACRE-FEET	2.0	2.4	49.	37.	354.	246.	104.	56.	35.	14.	.20	0

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

YEAR OR PERIOD MEAN 1.24
ACRE-FEET 900.



STATION L1-R

LITTLE ROCK CREEK above Little Rock Dam

LOCATION:

Water-stage recorder, lat.34°27'50", long.118°01'05", on the right (east)bank about 2 miles above Little Rock Palmdale Irrigation District's Dam, approximately 1500 feet upstream from Santiago Creek, and 5 miles south of Little Rock. Elevation of gage, about 3,290 feet (from topographic map).

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 below gage.

RECORDER:

Installed September 1930. Washed out during March 2, 1938 storm. Reinstalled March 31, 1939. Station dismantled May 20, 1943 and moved about 500 feet upstream over a 24" corrugated iron pipe stilling well.
An H.C.F. continuous recorder in service from October 1, 1943 to September 30, 1944.

REGULATION:

None.

RECORDS AVAILABLE:

October 1, 1930 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,230 second-feet, February 22.
Minimum no flow part of year.
1930-1944
Maximum 17,000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Good.

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 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. L1-R

DISCHARGE MEASUREMENTS OF LITTLE ROCK CREEK

~~at~~ above Little Rock Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.	D. MT. DHARGE TOTAL	METER NO.
126	10-23	540P / 550P	Luce	4.5	1.49	0.94	3.55	1.4		.6	5	0	FC39
127	11-30	325P / 335P	"	4.0	1.87	1.28	3.63	2.4		.6	5	0	"
128	1-1	220P / 230P	"	19.0	11.3	1.48	4.11	16.7		.6	10	0	"
129	2-1	1152A / 1159A	"	19.5	13.2	1.92	4.22	25.3		.6	10	0	"
130	2-24	425P / 436P	"	26.8	23.4	4.03	4.78	94.2		.6	13	0	"
131	3-18	525P / 540P	"	45.5	52.0	3.75	5.16	195.		.6	13	0	"
132	5-17	315P / 327P	"	27.0	25.7	2.51	4.38	64.5		.6	13	0	"
133	6-30	105P / 120P	"	21.0	15.0	0.85	3.76	12.8		.6	9	0	"
134	7-14	1220P / 1230P	"	18.5	11.1	0.58	3.60	6.4		.6	9	0	"
135	8-15	1124A / 1132A	Luce & Haig	10.3	3.30	0.82	3.39	2.7		.6	9	0	"

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

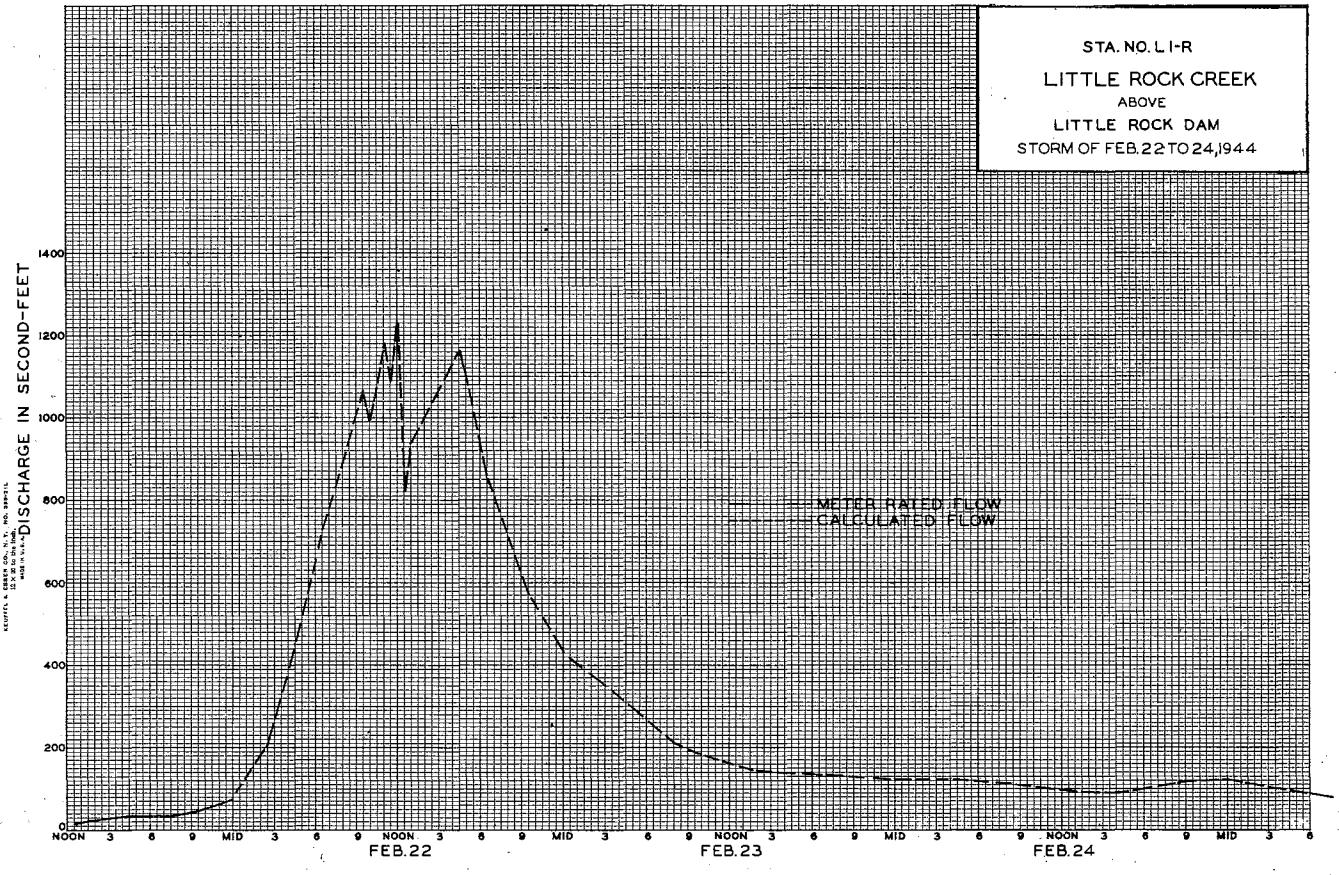
Sta. No. L1-R

Daily discharge, in second-feet of LITTLE ROCK CREEK above Little Rock Dam, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.9	1.7	2.6	17	26	1.09	189	116	40	12	d 3.4	1.6
2	0.9	1.8	2.6	17	25	213	212	147	38	11	d 3.4	1.7
3	0.9	1.7	2.5	17	24	136	236	162	36	11	d 3.3	1.7
4	0.9	1.7	2.5	17	29	120	236	147	33	10	d 3.3	1.6
5	0.9	1.7	2.6	16	28	144	205	139	30	9.5	d 3.2	1.6
6	0.8	1.7	3.2	18	28	131	189	139	29	9	d 3.2	1.4
7	0.9	1.6	3.7	17	30	116	189	142	28	8	d 3.1	1.5
8	0.9	1.6	3.7	15	33	118	186	144	28	8	d 3.1	1.5
9	2.3	1.7	3.5	15	42	160	153	139	28	7.5	d 3.0	1.5
10	1.1	1.7	26	15	34	221	133	120	27	7.5	d 3.0	1.5
11	1.1	1.7	124	15	29	297	144	109	25	7	d 2.9	1.5
12	1.1	1.8	40	14	27	320	156	98	23	7	d 2.9	1.3
13	1.1	1.8	22	13	24	270	139	95	22	6.5	d 2.8	1.3
14	1.1	1.8	18	13	22	208	136	96	21	6.5	d 2.8	1.4
15	1.0	1.8	15	13	22	156	144	a 88	21	6.5	d 2.7	1.5
16	1.0	1.8	14	13	20	136	153	a 81	20	6	2.6	1.5
17	1.0	1.9	13	12	20	153	125	a 75	20	6	2.5	1.5
18	1.0	2.4	81	12	19	199	125	68	19	5.5	2.4	1.6
19	1.1	2.5	470	11	19	222	118	69	19	5.5	2.1	1.6
20	1.5	2.5	310	11	19	218	116	69	18	5	2.0	1.6
21	1.6	2.5	296	11	25	180	105	68	17	4.8	1.9	1.6
22	1.6	2.6	100	11	736	156	96	69	17	4.6	2.0	1.4
23	1.5	2.6	63	12	208	171	102	66	16	4.6	1.9	1.2
24	1.5	2.8	45	15	113	208	109	59	15	4.6	1.9	1.2
25	1.5	2.8	34	15	88	229	98	55	15	4.4	1.9	1.2
26	1.4	2.5	29	15	71	218	102	52	15	4.4	1.8	1.2
27	1.4	2.5	25	14	62	192	113	51	14	4.2	1.7	1.2
28	1.6	2.5	23	14	62	171	93	49	13	4.1	1.6	1.2
29	1.7	2.5	22	14	69	153	91	47	13	3.9	1.6	1.3
30	1.7	2.5	21	14		153	96	47	13	3.7	1.6	1.4
31	1.8		21	20		162		44		3.5	1.6	
	38.8	62.7	1838.9	446	1954	5640	4289	2850	673	201.8	77.2	43.3
MEAN	1.25	2.09	59.3	14.4	67.4	182.	143.	91.9	22.4	6.52	2.49	1.44
ACRE-FEET	77.	124.	3650.	885.	3880.	11190.	8510.	5650.	1330.	400.	153.	86.

Remarks:

YEAR OR PERIOD — MEAN 49.6 — ACRE-FEET 35940.



STATION U3-R

LITTLE SANTA ANITA CREEK above Sierra Madre Dam

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 30, 1944.

AVERAGE DISCHARGE:

27 years (1916-25, 1926-44), 1.02 second-feet.

EXTREMES:

1943-1944
Maximum discharge during year, 63 second-feet February 22. (gage height, 2.07 feet).
Minimum daily, 0.3 second-foot Aug 28-30, Sept. 9,10,23,30.

1916-1944
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. U3-R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

at above Sierra Madre 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.
736	10-8		U.S.G.S.	2.1	.65	.57	.63	.37		.6	7	0	
737	10-25		"	2.0	.69	.64	.66	.44		.6	4	0	
738	11-5		"	2.0	.67	.66	.64	.44		.6	4	0	
739	11-18		"	2.1	.79	.73	.65	.58		.6	5	0	
740	11-26		"	2.0	.71	.56	.64	.40		.6	4	0	
741	12-4		"	2.1	.72	.62	.63	.45		.6	4	0	
742	12-13		"	2.2	.92	.78	.68	.72		.6	4	0	
743	12-21		"	5.2	3.0	1.20	.97	3.6		.6	10	0	
744	12-30		U.S.G.S.	3.5	1.3	.62	.74	.81		.6	7	0	
745	1-5		"	3.5	1.20	.68	.73	.81		.6	7	0	
746	1-12		"	3.0	.91	.66	.71	.60		.6	6	0	
747	1-20		"	2.5	.75	.76	.67	.57		.6	5	0	
748	1-24		"	2.5	.82	.77	.70	.63		.6	5	0	
749	2-4		"	2.5	.93	.82	.72	.76		.6	5	0	
750	2-10		"	2.5	1.0	.79	.73	.79		.6	5	0	
751	2-17		"	2.5	.88	.67	.70	.59		.6	5	0	
752	2-24		"	14.	8.1	1.19	1.22	9.6		.6	14	0	
753	2-29		"	14.	6.1	.69	1.03	4.2		.6	14	0	
754	3-6		"	16.	7.2	1.28	1.24	9.2		.6	16	0	
755	3-18		"	13.	5.6	.68	1.01	3.8		.6	13	0	
756	3-23		"	13.	4.9	.53	.94	2.6		.6	13	0	
757	3-29		"	13.	4.7	.36	.90	1.7		.6	13	0	
758	4-5		U.S.G.S.	10.	3.5	0.34	0.87	1.2		.6	10	0	
759	4-12		"	10.	3.2	.38	.85	1.2		.6	10	0	
760	4-19		"	6.0	2.2	.68	.82	1.5		.6	12	0	
761	4-26		"	4.0	1.6	1.00	.80	1.6		.6	8	0	
762	5-3		"	4.0	1.6	.88	.79	1.4		.6	8	0	
763	5-10		"	4.0	1.6	.75	.78	1.2		.6	8	0	
764	5-24		"	4.0	1.6	.75	.76	1.2		.6	8	0	
765	5-31		"	3.0	1.2	.87	.75	1.0		.6	6	0	
766	6-7		"	3.0	1.2	.80	.73	.96		.6	6	0	
767	6-14		"	3.0	1.2	.75	.74	.89		.6	6	0	
768	6-21		"	3.0	1.2	.77	.72	.93		.6	6	0	
769	6-28		"	3.0	1.2	.70	.71	.84		.6	6	0	
770	7-12		"	3.0	1.2	.66	.69	.79		.6	6	0	
771	7-19		"	3.0	1.1	.61	.66	.67		.6	6	0	
772	7-26		"	3.0	.96	.59	.66	.57		.6	6	0	
773	8-9		"	3.0	.96	.50	.64	.48		.6	6	0	
774	8-19		"	3.0	.90	.50	.53	.45		.6	6	0	
775	8-26		"	3.0	.90	.44	.61	.40		.6	6	0	
776	8-31		"	3.0	.90	.41	.61	.37		.6	6	0	
777	9-13		"	3.0	.90	.42	.60	.38		.6	6	0	

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U3-R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK above Sierra Madre Dam, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.5	0.4	1.0	0.6	10	1.4	1.5	1.0	0.6	0.5	0.4
2	0.4	0.5	0.4	0.9	0.5	19	1.4	1.5	1.1	0.6	0.5	0.4
3	0.4	0.5	0.4	0.9	0.6	14	1.3	1.4	1.0	0.6	0.4	0.4
4	0.4	0.5	0.4	0.8	0.8	12	1.2	1.3	1.0	0.6	0.4	0.4
5	0.4	0.4	0.4	0.8	0.6	11	1.2	1.2	1.0	0.7	0.4	0.4
6	0.4	0.4	0.8	1.0	0.6	9.5	1.1	1.1	0.9	0.7	0.4	0.4
7	0.4	0.4	0.5	0.8	0.6	8.5	1.2	1.2	1.0	0.7	0.4	0.4
8	0.4	0.4	0.5	0.7	1.1	8	1.2	1.3	1.0	0.7	0.4	0.4
9	0.4	0.4	0.5	0.6	0.9	7.5	1.2	1.2	1.0	0.8	0.4	0.3
10	0.4	0.4	1.1	0.6	0.8	7	1.2	1.2	1.0	0.8	0.4	0.3
11	0.4	0.4	1.5	0.6	0.7	6	1.2	1.1	1.0	0.8	0.4	0.4
12	0.4	0.5	0.8	0.6	0.7	6	1.2	1.1	1.0	0.7	0.4	0.4
13	0.4	0.5	0.7	0.6	0.6	6	1.2	1.1	0.9	0.7	0.4	0.4
14	0.4	0.5	0.6	0.6	0.6	5	1.3	1.1	0.9	0.6	0.4	0.4
15	0.4	0.5	0.6	0.6	0.8	4.5	1.4	1.1	0.9	0.6	0.4	0.4
16	0.4	0.5	0.6	0.6	0.6	4.3	1.4	1.1	0.9	0.6	0.4	0.4
17	0.4	0.6	0.6	0.6	0.6	3.9	1.4	1.1	0.9	0.6	0.4	0.4
18	0.6	0.6	1.0	0.6	0.6	3.6	1.4	1.1	0.9	0.6	0.4	0.4
19	0.5	0.6	2.6	0.6	0.6	3.4	1.5	1.1	0.9	0.6	0.4	0.4
20	0.5	0.6	4.6	0.6	3.6	3.2	1.5	1.1	1.0	0.6	0.4	0.4
21	0.5	0.6	4.4	0.6	6	2.9	1.5	1.2	1.0	0.6	0.4	0.4
22	0.5	0.5	1.6	0.6	3.7	2.7	1.5	1.2	1.0	0.6	0.4	0.4
23	0.5	0.5	1.2	0.6	1.7	2.6	1.5	1.2	1.0	0.6	0.4	0.3
24	0.4	0.5	1.0	0.6	1.0	2.5	1.5	1.2	1.0	0.6	0.4	0.3
25	0.4	0.4	0.8	0.6	7.5	2.3	1.6	1.1	0.9	0.5	0.4	0.3
26	0.4	0.4	0.7	0.6	6.5	2.2	1.6	1.1	0.8	0.5	0.4	0.3
27	0.4	0.4	0.7	0.6	5.5	2.1	3.6	1.0	0.8	0.5	0.4	0.3
28	0.5	0.4	0.7	0.6	4.7	2.0	2.2	1.0	0.8	0.5	0.3	0.3
29	0.5	0.4	1.1	0.5	4.3	1.7	1.8	1.0	0.8	0.5	0.3	0.3
30	0.5	0.4	1.0	0.6		1.6	1.6	1.0	0.7	0.5	0.3	0.3
31	0.5		1.0	0.6		1.5		1.0		0.5	0.4	
	135	142	332	206	1150	1765	443	359	281	191	123	110
MEAN	0.44	.47	1.07	.66	3.97	5.69	1.48	1.16	.94	.62	.40	.37
ACRE-FEET	27.	28.	66.	41.	228.	350.	88.	71.	56.	38.	24.	22.

Remarks:

YEAR OR PERIOD MEAN 1.43
ACRE-FEET 1,040.

STATION F67B-R

LITTLE SANTA ANITA CREEK below Sierra Madre Dam

LOCATION:

Water-stage recorder, lat. 34°10'33", long. 118°02'33", on the left (east) bank about 270 feet below Sierra Madre Dam and about 1¼ miles northeast of Sierra Madre. Elevation of zero gage height, 1082.69 feet.

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. Artificial concrete control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading near station.
High flows measured from foot bridge at station.

RECORDER:

Installed January 28, 1929 at Station F67-R 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.O.F. recorder was in service from October 1, 1943 to September 30, 1944.

REGULATION:

The 30 inch diameter 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 F67-R
January 28, 1929 to May 20, 1936.
At Station F67B-R
May 21, 1936 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 69 second-feet, February 22.
Minimum less than 0.05 second feet several months during year.
1929-1944
Maximum 620 second-feet, estimated, March 2, 1938.
Minimum no flow several months during most years.

ACCURACY:

Good.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F67B-R

DISCHARGE MEASUREMENTS OF LITTLE SANTA ANITA CREEK

~~AT~~ below Sierra Madre Dam DURING THE YEAR ENDING SEPTEMBER 30, 1944

NO.	DATE	BGIN / 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.
198	12-17	1050A / 1051A	Moon	1.0	0.15	9.33	0.75	1.4	Float		2		
199	12-20	802A / 805A	Moon & Stunden	1.2	0.31	13.2	0.88	4.1		.6	3	0	FC22
200	12-22	125P / 127P	Moon	1.2	0.28	13.8	0.85	3.6		.6	3	0	"
201	1-4	1225P / 1229P	"	4.0	1.39	1.08	0.82	1.5		.6	4	0	"
202	1-7	115P / 120P	"	2.7	1.03	1.26	0.83	1.3		.6	3	0	"
203	1-14	150P / 153P	"	2.7	1.13	0.97	0.81	1.1		.6	3	0	"
204	1-21	1020A / 1021A	"	1.5	0.30	1.47	0.71	0.44		.6	2	0	"
205	1-28	1010A / 1015A	"	3.4	0.85	0.99	0.76	0.84		.6	5	0	"
206	2-9	110P / 113P	"	2.0	0.80	1.88	0.75	1.5		.6	3	0	"
207	2-21	835A / 839A	"	3.5	0.87	1.72	0.85	2.8		.6	4	0	"
208	2-25	826A / 831A	Moon & Stunden	1.4	0.60	13.0	1.09	7.8		.6	3	0	"
209	2-25	841A / 846A	"	6.0	1.39	3.88		5.4		.6	5	0	"
210	3-2	823A / 828A	"	2.2	1.76	14.3	1.53	25.1		.6	3	0	"
211	3-4	822A / 830A	"	1.9	1.13	14.5	1.27	16.4		.6	3	0	"
212	3-10	442P / 448P	Moon	7.0	1.95	1.90	0.94	3.7		.6	6	0	"
213	3-18	924A / 929A	"	4.0	0.75	2.27	0.79	1.7		.6	4	0	"
214	3-23	837A / 840A	"	2.8	0.65	1.69	0.76	1.1		.6	3	0	"
215	4-1	913A / 917A	"	2.0	0.36	1.30	0.70	0.47		.6	4	0	"
216	4-6	905A / 907A	"	2.0	0.30	1.00	0.65	0.30		.6	3	0	"
217	4-14	1030A / 1032A	"	2.0	0.28	1.00	0.63	0.28		.6	2	0	"
218	4-21	1026A / 1028A	"	1.0	0.10	2.00	0.62	0.20		.6	2	0	"

P. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

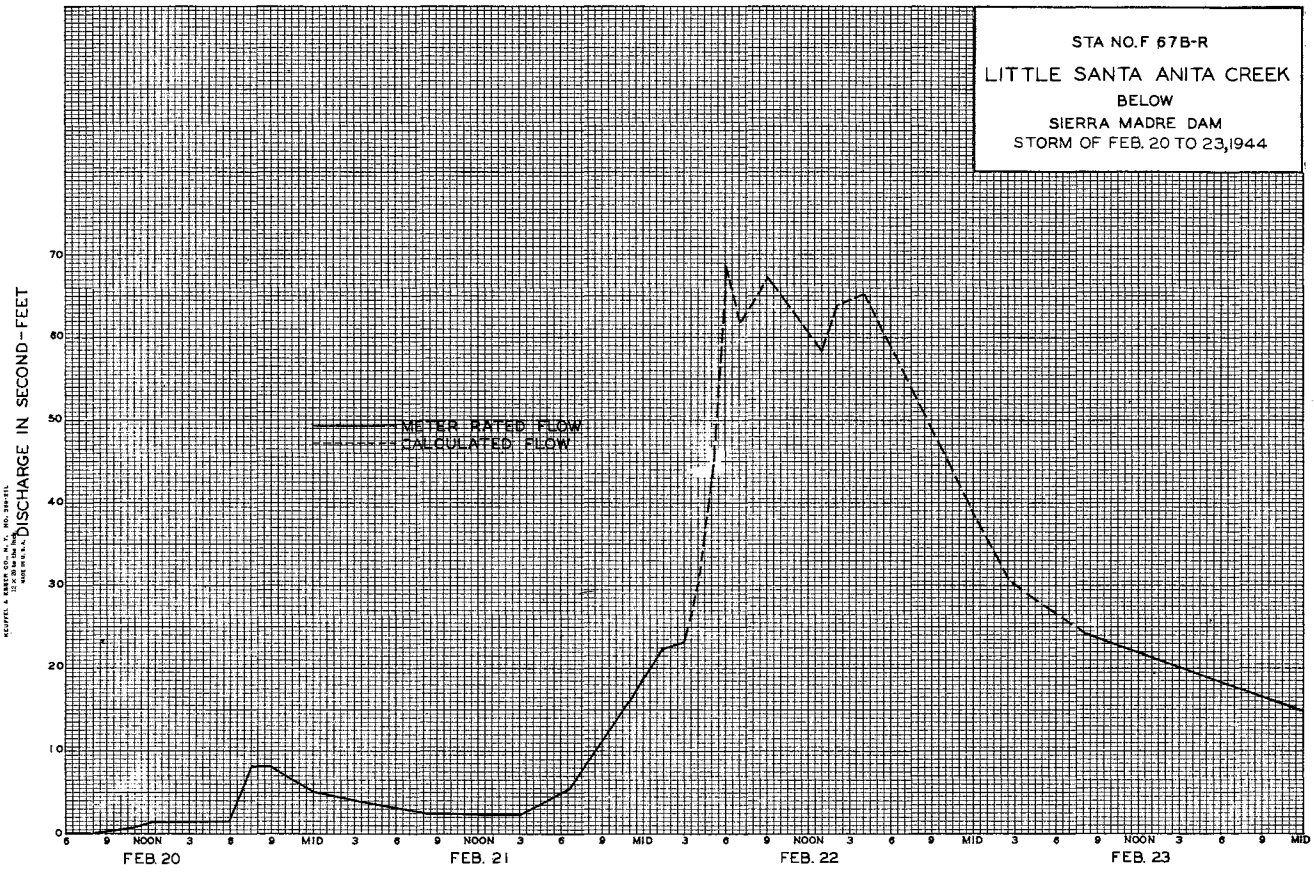
Sta. No. F67B-R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK below Sierra Madre Dam, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	2.1	0.5	12.3	0.5	0.1	+	+	+	+
2	+	+	+	2.1	0.3	26	0.6	+	+	+	+	+
3	+	+	+	2.0	0.3	18.7	0.3	+	+	+	+	+
4	+	+	+	2.0	0.1	15.0	0.3	+	+	+	+	+
5	+	+	+	2.0	0.5	13.6	0.2	+	+	+	+	+
6	+	+	+	2.1	0.3	10.2	0.2	+	+	+	+	+
7	+	+	+	2.1	+	8.6	0.1	+	+	+	+	+
8	+	+	1.4	2.0	+	7.7	0.1	+	+	+	+	+
9	+	+	0.7	1.8	0.5	7.2	0.1	+	+	+	+	+
10	+	+	0.2	1.8	0.8	5.6	0.1	+	+	+	+	+
11	+	+	0.1	1.6	0.6	4.0	0.1	+	+	+	+	+
12	+	+	1.1	1.6	0.1	3.3	0.1	+	+	+	+	+
13	+	+	1.4	1.6	+	3.6	0.1	+	+	+	+	+
14	+	+	0.5	1.6	+	2.8	0.1	+	+	+	+	+
15	+	+	0.3	0.7	+	2.3	0.1	+	+	+	+	+
16	+	+	1.6	0.5	+	2.0	0.1	+	+	+	+	+
17	+	+	1.8	0.5	+	1.6	0.1	+	+	+	+	+
18	+	+	2.6	0.5	+	1.5	0.1	+	+	+	+	+
19	+	+	3.3	0.6	0.2	1.4	0.1	+	+	+	+	+
20	+	+	a 6.7	0.6	2.3	1.4	0.1	+	+	+	+	+
21	+	+	a 3.3	0.6	5.3	1.3	0.1	+	+	+	+	+
22	+	+	a 2.5	0.7	51	1.3	0.1	+	+	+	+	+
23	+	+	2.5	0.7	23	1.2	+	+	+	+	+	+
24	+	+	2.5	0.7	11.4	1.0	+	+	+	+	+	+
25	+	+	2.1	1.3	8	0.9	+	+	+	+	+	+
26	+	+	2.0	0.9	7.2	0.9	+	+	+	+	+	+
27	+	+	1.8	+	7.0	0.9	1.6	+	+	+	+	+
28	+	+	1.8	0.7	6.4	0.8	0.6	+	+	+	+	+
29	+	+	1.8	1.0	5.4	0.7	0.3	+	+	+	+	+
30	+	+	2.0	1.0		0.5	0.2	+	+	+	+	+
31	+		2.0	1.0		0.5		+		+	+	
	+	+	46.0	38.4	1312	158.8	6.4	0.1	+	+	+	+
MEAN	+	+	1.48	1.24	4.52	5.12	0.21	+	+	+	+	+
ACRE-FEET	+	+	91.	76.	260.	315.	13.	0.20	+	+	+	+

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

YEAR OR PERIOD MEAN 1.04 ACRE-FEET 755.



STATION F267-R

LITTLE SANTA ANITA CREEK at Woodland Avenue

LOCATION:

Water-stage recorder, lat. 34°09'19", long, 118°01'41", on the left (northeast) channel wall about 30 feet upstream from Santa Anita Wash, about 20 feet east of the intersection of Woodland Avenue and First Street and about one mile north of Arcadia. Elevation of zero gage height, 557.22 feet.

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, 1943 to September 30, 1944.

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:

1943-1944
Maximum 202 second-feet, February 22.
Minimum no flow most of year.
1938-1944
Maximum not determined.
Maximum discharge of record, 542 second-feet January 22, 1943.
Minimum no flow most years.

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 3M 7-44

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 44

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.
67	12-10	404P / 407P	Moon & Stunden	10.0	0.80	3.0		2.4	Float				
68	2-24	915A / 918A	"	10.0	1.50	6.87		10.3		6	4		F622

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F267-R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK at Woodland Avenue, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	+	+	15	+	+	+	+	+	+
2	+	+	+	+	+	22	+	+	+	+	+	+
3	+	+	+	+	1.5	6.7	+	+	+	+	+	+
4	+	+	+	+	+	7.2	+	+	+	+	+	+
5	+	+	+	+	+	3.2	+	+	+	+	+	+
6	+	+	1.0	0.7	+	1.4	+	+	+	+	+	+
7	+	+	+	+	+	+	+	+	+	+	+	+
8	+	+	+	+	1.3	+	+	+	+	+	+	+
9	+	+	+	+	+	+	+	+	+	+	+	+
10	+	+	3.2	+	+	+	+	+	+	+	+	+
11	+	+	3.0	+	+	+	+	+	+	+	+	+
12	+	+	+	+	+	+	+	+	+	+	+	+
13	+	+	+	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	1.0	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+
18	0.7	+	1.3	+	+	+	+	+	+	+	+	+
19	+	+	1.7	+	0.3	+	+	+	+	+	+	+
20	+	+	7.6	+	4.3	+	+	+	+	+	+	+
21	+	+	5.0	+	3.3	+	+	+	+	+	+	+
22	+	+	+	+	6.7	+	+	+	+	+	+	+
23	+	+	+	1.0	16	+	+	+	+	+	+	+
24	+	+	+	+	6.6	+	+	+	+	+	+	+
25	+	+	+	+	5.9	+	+	+	+	+	+	+
26	+	+	+	+	+	+	+	+	+	+	+	+
27	+	+	+	+	+	+	5.8	+	+	+	+	+
28	+	+	0.2	+	+	+	+	+	+	+	+	+
29	+	+	0.7	+	+	+	+	+	+	+	+	+
30	+	+	1.0	+		+	+	+	+	+	+	+
31	+		0.7	+		+		+		+	+	
	0.7	+	25.4	1.7	107.2	55.5	5.8	+	+	+	+	+
MEAN	0.02	+	0.82	0.05	3.70	1.79	0.19	+	+	+	+	+
ACRE-FEET	1.4	+	50.	3.4	213.	110.	12.	+	+	+	+	+

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

YEAR OR PERIOD MEAN 0.55
ACRE-FEET 390.

STATION F19-R

LITTLE TUJUNGA WASH at Foothill Boulevard

LOCATION:

Water-stage recorder, lat. 34°16'28", long. 118°22'20", on downstream side of Foothill Boulevard bridge, 4 miles east of San Fernando. Elevation of zero gage height, 1067.20 feet.

DRAINAGE AREA:

21.0 square miles.

CHANNEL AND CONTROL:

Channel-sand and silt.
Concrete control below gage.

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, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

None known.

RECORDS AVAILABLE:

December 26, 1928 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 4,220 second-feet, February 22.
Minimum no flow part of year.
1929-1944
Maximum 8,500 second-feet, estimated, March 2, 1938.
Minimum no flow part of each year.

ACCURACY:

Fair.

OPERATION:

Located, constructed and operated by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey, Water Resources Branch.

F. C. D. FORM 154 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F19-R

DISCHARGE MEASUREMENTS OF LITTLE TUJUNGA WASH

at Foothill Boulevard 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	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
323	12-11	1115A / 1125A	Luce	4.4	1.41	1.91	3.95	2.7		.6	5	0	FC39
324	12-20	935A / 945A	"	3.6	0.83	1.20	3.98	1.0		.6	5	0	"
325	12-20	1045P / 1100P	Luce & Hemphill	60.0	46.2	6.50	4.37	300.	Float. X Sec.	7	-.15		
326	12-21	1230P / 1240P	"	Three Channels			3.82	6.4		.6	10	0	FC39
327	12-28	245P / 250P	Luce	Two Channels			3.70	2.9		.6	9	0	"
328	1-7	940A / 945A	"	2.5	0.24	1.04	3.50	0.25		.6	3	+.01	"
329	1-19	1125A / 1140A	"	2.5	0.25	1.40	3.60	0.35		.6	3	+.01	"
330	1-28	1230P / 1235P	"	2.6	0.22	0.64	3.56	0.14		.6	4	0	"
331	2-4	302P / 310P	"	2.5	0.21	1.19	3.54	0.25		.6	4	0	"
332	2-11	1200M / 1205P	"	2.5	0.27	0.85	3.53	0.23		.6	4	0	"
333	2-18	405P / 410P	"	2.0	0.21	0.90	3.54	0.19		.6	4	0	"
334	2-20	1120A / 1127A	Luce & Pardieck	Two Channels			4.11	11 5.		.6	12	+.05	"
335	2-20	550P / 610P	Hemphill & Luce	"	"		4.08	211.		.6	19	0	"
336	2-21	1105A / 1120A	"	"	"		3.96	88.9		.6	17	-.02	"
337	2-22	745A / 805A	Luce & Hemphill	109.6	228.	13.2	5.52	380.	Float X Sec.	16	+.10 -.10		FC5
338	2-22	815A / 845A	"	110.0	152.	8.55	5.00	1300.	X Sec.	20	0		FC6
339	2-23	1020A / 1040A	Luce	Three Channels			3.71	158.		.6	23	-.02	FC39
340	2-25	555P / 605P	Luce & Hemphill	34.0	11.2	4.36	3.50	48.8		.6	9	0	"
341	2-29	210P / 225P	Luce	18.0	3.14	3.95	3.47	12.4		.6	7	0	"
342	3-1	1255P / 107P	"	Two Channels			3.55	25.4		.6	10	0	"
343	3-2	915A / 930A	Luce & Hemphill	55.0	26.6	6.58	4.16	175.		.6	13	0	"
344	3-3	1035A / 1040A	"	31.0	15.4	5.93		91.3		.6	8	0	"
345	3-3	625P / 635P	"	36.0	16.0	4.00	4.18	64.0		.6	9	0	"
346	3-7	630P / 645P	Luce	Two Channels			3.56	37.3		.6	12	0	"
347	3-10	1015A / 1025A	Luce	16.7	8.93	2.70	3.44	24.1		.6	8	0	FC39
348	3-17	920A / 930A	"	10.0	6.06	2.62	3.38	15.9		.6	6	0	"
349	3-24	1110A / 1115A	"	10.0	4.86	2.20	3.37	10.7		.6	6	0	"
350	4-1	1127A / 1132A	"	8.5	4.42	1.97	3.25	8.7		.6	5	0	"
351	4-7	535P / 542P	"	8.1	3.95	1.77	3.22	7.0		.6	6	0	"
352	4-14	233P / 237P	"	8.0	3.85	1.61	3.22	6.2		.6	6	0	"
353	4-21	1016A / 1028A	"	6.5	2.82	2.09	3.22	5.9		.6	6	0	"
354	4-28	947A / 952A	"	9.5	4.48	1.76	3.27	7.9		.6	5	0	"
355	5-5	1008A / 1012A	"	5.0	2.57	2.10	3.23	5.4		.6	5	0	"
356	5-12	158P / 203P	"	5.0	2.25	1.56	3.23	3.5		.6	5	0	"
357	5-19	1117A / 1122A	"	5.5	2.02	1.49	3.21	3.0		.6	5	0	"
358	5-26	442P / 447P	"	4.0	1.46	1.17	3.19	1.7		.6	4	0	"
359	6-2	1237P / 1242P	"	4.0	1.65	1.58	3.21	2.6		.6	5	0	"
360	6-8	845A / 850A	Turner	4.0	1.26	0.79	3.16	1.0		.5	4	0	FC5
361	6-15	105P / 112P	Bollinger	6.5	2.54	0.75	3.13	1.9		.6	6	0	FC6
362	6-22	1050A / 1055A	Luce	3.5	1.07	0.82	3.11	0.88		.6	4	0	FC39
363	6-29	1137A / 1162A	"	4.0	1.07	0.52	3.08	0.56		.6	4	0	"

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

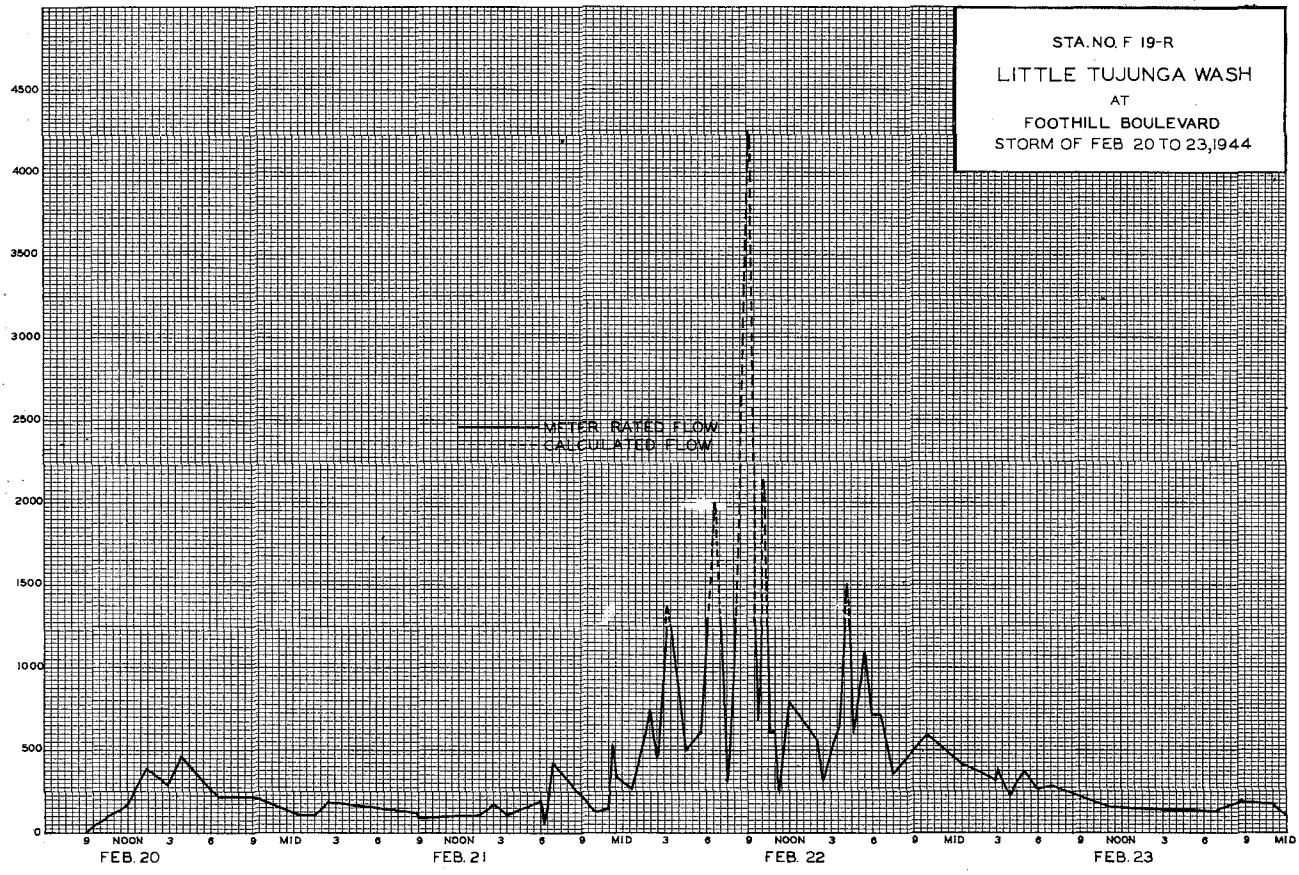
Sta. No. F19-R

Daily discharge, in second-feet of LITTLE TUJUNGA WASH at Foothill Boulevard, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	b 0.2	0.1	39	9	6.5	2.7	0.4	0	0
2	0	0	0	b 0.2	+	v 188	8	5.5	2.7	0.5	0	0
3	0	0	0	b 0.1	0.4	v 82	7.5	5.5	2.1	0.4	0	0
4	0	0	0	b 0.1	0.8	v 62	7	5.5	1.4	0.3	0	0
5	0	0	0	b 0.1	0.2	v 63	7	5	1.2	0.1	0	0
6	0	0	0	b 0.9	0.1	v 44	7	5	1.2	0.2	0	0
7	0	0	0	b 0.3	0.1	v 38	7	5	1.1	+	0	0
8	0	0	0	b 0.2	0.5	31	7	4.5	1.0	+	0	0
9	0	0	0	b 0.1	0.4	24	7	4.5	0.9	0.1	0	0
10	0	0	0	+	0.2	23	7	4.2	1.1	0.2	0	0
11	0	0	1.5	0	0.2	23	6.5	3.9	1.2	+	0	0
12	0	0	0.1	0	0.2	23	7	3.6	1.2	+	0	0
13	0	0	+	0	+	21	7	3.6	1.4	0.1	0	0
14	0	0	+	b 0	+	20	6.5	3.6	1.8	0.1	0	0
15	0	0	0	b 0.1	+	17	6.5	3.6	1.8	0.1	0	0
16	0	0	0	b 0.1	+	17	6.5	3.3	1.8	+	0	0
17	0	0	0	b 0.2	0.2	16	6.5	3.3	1.5	+	0	0
18	0	0	0.6	b 0.3	0.3	16	5.5	3.0	1.3	0	0	0
19	0	0	1.0	f 0.4	1.0	15	5.5	3.0	1.2	0	0	0
20	0	0	2.2	0.4	1.52	14	5.5	3.0	1.1	0	0	0
21	0	0	1.9	0.3	1.67	13	5.5	3.0	1.0	0	0	0
22	0	0	+	0.3	8.26	12	5.5	2.7	0.9	0	0	0
23	0	0	0	0.5	2.18	11	5.5	2.4	0.9	0	0	0
24	0	0	0	0.6	69	11	5.5	2.1	0.9	0	0	0
25	0	0	0	b 0.5	63	11	5.5	2.1	0.8	0	0	0
26	0	0	0	b 0.4	50	11	5.5	2.1	0.7	0	0	0
27	0	0	0	b 0.3	43	10	11	1.8	0.6	0	0	0
28	0	0	f 0.5	0.1	b 31	10	8	1.8	0.6	0	0	0
29	0	0	f 0.9	0.2	b 18	9.5	7	1.8	0.5	0	0	0
30	0	0	f 3.9	0.2		8	6.5	2.7	0.5	0	0	0
31	0		f 1.1	0.5		8		2.7		0		
	0		50.6		1641.7		2020		37.1		0	
		0		7.6		8905		1103		2.5		0
MEAN	0	0	1.63	0.25	56.6	28.7	6.73	3.56	1.24	0.08	0	0
ACRE-FEET	0	0	100.	15.	3256.	1766.	401.	219.	74.	5.0	0	0

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

YEAR OR PERIOD MEAN 8.04
ACRE-FEET 5840.



STATION F31-R

LIVE OAK CREEK near Mouth of Canyon

LOCATION:

Water-stage recorder, lat. 34°07'34", long. 117°44'37", on the right (west) bank of stream near mouth of canyon, about 0.5 mile below Live Oak Dam, and about 2 miles northeast of La Verne. Elevation of gage, about 1,335 feet (from topographic map).

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, 1943 to September 30, 1944.

REGULATION:

Flow regulated by Live Oak Dam.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 4, 1928 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 24 second feet, February 22.
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 134 RM 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F31-R

DISCHARGE MEASUREMENTS OF LIVE OAK CREEK

AT mouth of Canyon 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	METER NO.	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
116	2-20	341P / 345P	Brewster	0.5	0.12	0.50	0.03	0.06		.6	1	0	F012
117	2-21	435P / 440P	"	3.5	0.54	0.52	0.12	0.28		.6	3	+.01	"
118	2-22	1210P / 1220P	"	4.5	6.0	2.57	1.24	15.4		.6	4	0	"
119	2-23	1135A / 1145A	Brewster & Smith	4.5	5.10	2.16	1.15	11.0		.6	4	0	"
120	2-25	1010A / 1020A	"	4.0	2.60	1.12	0.55	2.9		.6	4	0	"
121	3-1	1100A / 1106A	Brewster	4.0	2.25	0.93	0.41	2.1		.6	4	0	"
122	3-8	1130A / 1140A	"	4.0	2.45	0.90	0.50	2.2		.6	4	0	"
123	3-15	1050A / 1100A	"	4.0	1.70	0.54	0.28	0.92		.6	4	0	"
124	5-6	854A / 900A	"	3.0	0.84	1.10	0.27	0.92		.6	3	0	"
125	5-10	1050A / 1056A	"	3.0	0.91	0.98	0.25	0.89		.6	3	0	"
126	5-17	1005A / 1011A	"	4.0	0.96	0.81	0.23	0.78		.6	4	0	"
127	5-24	1052A / 1100A	"	4.0	0.70	1.17	0.23	0.82		.6	4	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F31-R

Daily discharge, in second-feet of LIVE OAK CREEK near Mouth of Canyon, for the year ending September 30, 1944

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	0	0
2	0	0	0	0	0	6.5	0	0	0	0	0	0
3	0	0	0	0	0	6.5	0	0	0	0	0	0
4	0	0	0	0	0	6.5	0	0	0	0	0	0
5	0	0	0	0	0	6	0	+	0	0	0	0
6	0	0	0	0	0	5.5	0	0.9	0	0	0	0
7	0	0	0	0	0	2.2	0	1.0	0	0	0	0
8	0	0	0	0	0	2.2	0	0.9	0	0	0	0
9	0	0	0	0	0	1.5	0	0.9	0	0	0	0
10	0	0	0	0	0	0.9	0	0.9	0	0	0	0
11	0	0	0	0	0	0.9	0	0.9	0	0	0	0
12	0	0	0	0	0	0.9	0	0.9	0	0	0	0
13	0	0	0	0	0	0.9	0	0.9	0	0	0	0
14	0	0	0	0	0	0.9	0	0.9	0	0	0	0
15	0	0	0	0	0	0.9	0	0.9	0	0	0	0
16	0	0	0	0	0	0.6	0	0.9	0	0	0	0
17	0	0	0	0	0	0.1	0	0.8	0	0	0	0
18	0	0	0	0	0	+	0	0.8	0	0	0	0
19	0	0	0	0	0	+	0	0.8	0	0	0	0
20	0	0	0	0	0.1	+	0	0.9	0	0	0	0
21	0	0	0	0	1.2	0	0	0.9	0	0	0	0
22	0	0	0	0	13	0	0	0.9	0	0	0	0
23	0	0	0	0	13	0	0	0.8	0	0	0	0
24	0	0	0	0	8	0	0	0.8	0	0	0	0
25	0	0	0	0	3.0	0	0	0.7	0	0	0	0
26	0	0	0	0	3.0	0	0	0.6	0	0	0	0
27	0	0	0	0	2.8	0	+	0.1	0	0	0	0
28	0	0	0	0	1.3	0	0	0	0	0	0	0
29	0	0	0	0	a 0.2	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	45.6	45.0	+	18.1	0	0	0	0
MEAN	0	0	0	0	1.57	1.45	+	0.58	0	0	0	0
ACRE-FEET	0	0	0	0	90.	89.	+	36.	0	0	0	0

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

YEAR OR PERIOD MEAN 0.30 ACRE-FEET 215.

STATION F5B-R

LOS ANGELES RIVER below Sepulveda Boulevard

LOCATION:

Water-stage recorder, lat.34°09'42", long.118°27'45", on the left (north) bank about 700 feet below Sepulveda Boulevard and about 0.5 mile below Sepulveda Dam. Elevation of zero gage height, 654.31 feet.

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 F5-R. 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 Au continuous recorder was in service from October 1, 1943 to September 30, 1944.

REGULATION:

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. Discharge less than 1,000 second-feet passes unrestricted through ungated openings of Sepulveda Dam. Discharge above 1,000 second-feet regulated by Sepulveda Dam.

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 F5-R
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, 1944.

EXTREMES OF DISCHARGE:

1943-44
Maximum 5,060 second-feet, February 22.
Minimum 5.5 second-feet, October 4.
1929-1944
Maximum 12,000 second-feet, estimated March 2, 1938.
Minimum flow negligible at various times.

ACCURACY:

Records good except those for Feb. 21,22, which are fair.

OPERATION:

Located and constructed by Corps of Engineers, U.S. Army. Operated by the Los Angeles County Flood Control District in cooperation with Corps of Engineers, U.S. Army, and the United States Geological Survey, Water Resources Branch.

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

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, 19 44

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.
264	10-7	1235P / 1243P	Bollinger	13.0	9.50	0.76	1.33	7.2		.6	10	0	F06
265	10-15	855A / 904A	"	9.2	9.06	0.81	1.28	7.3		.6	9	0	F06
266	10-21	1100A / 1108A	"	9.0	7.95	0.92	1.33	7.3		.6	9	0	"
267	10-29	1133A / 1143A	"	13.3	7.97	0.83	1.33	6.6		.6	10	0	"
268	11-5	952A / 1000A	"	12.8	7.47	0.86	1.38	6.4		.6	8	0	"
269	11-12	952A / 1004A	"	12.7	9.35	0.82	1.32	7.7		.6	12	0	"
270	11-19	1238P / 1248P	"	13.0	9.62	0.85	1.32	8.2		.6	10	0	"
271	11-26	915A / 930A	Turner	12.0	7.12	0.97	1.35	6.9		.6	9	0	F05
272	12-4	120P / 135P	"	12.0	6.74	0.93	1.38	6.3		.6	8	0	"
273	12-6	1140A / 1155A	"	12.0	10.2	1.03	1.55	10.5		.6	8	0	"
274	12-11	225P / 240P	Turner & Smith	22.0	33.4	1.22	3.07	40.7		.6	9	-.02	"
275	12-18	145P / 200P	" "	15.0	26.4	1.11	2.70	29.4		.6	9	0	"
276	12-23	1015A / 1025A	Turner	10.0	32.0	1.67	3.18	53.4		.6	5	0	"
277	12-29	240P / 255P	Helm & Turner	15.0	48.8	1.64	3.50	79.8		.6	3	0	U.S.G.S. #6
278	12-30	125P / 130P	Turner	8.0	15.2	1.49	2.14	22.6		.6	3	-.02	F05
279	1-7	900A / 915A	"	15.0	13.7	0.74	1.45	10.1		.6	8	0	"
280	1-14	915A / 930A	"	Two Channels			1.30	9.4		.6	8	0	"
281	1-21	900A / 910A	"	4.2	5.75	1.88	1.21	10.8		.6	5	0	"
282	1-28	930A / 940A	"	4.0	5.75	2.10	1.19	12.1		.6	4	0	"
283	2-4	915A / 925A	"	4.0	6.21	2.16	1.31	13.4		.6	4	0	"
284	2-10	935A / 945A	"	4.0	5.40	1.94	1.16	10.5		.6	4	0	"
285	2-18	400P / 410P	"	10.0	27.5	1.90	2.88	52.4		.6	4	0	"
286	2-20	430P / 450P	Turner & Smith	51.0	363	4.60	9.85	1670.		.6	10	-.5	"
287	2-22	1200N / 1235P	Turner & Hedge	68.0	639.	7.72	13.18	4930.		.6	7	0	"
288	2-25	340P / 350P	Turner & Belt	22.0	17.2	2.63	2.48	45.3	Surf.	7	0		F05
289	3-2	140P / 152P	" "	50.0	167.	4.78	6.12	798.	Surf.	12	-.05		"
290	3-3	850A / 905A	Turner	37.0	34.1	3.87	3.92	132.		.6	10	-.01	F05
291	3-10	845A / 900A	"	19.5	24.0	2.80	3.14	67.2		.6	10	0	"
292	3-17	850A / 905A	"	20.0	16.9	2.21	2.58	37.3		.6	13	0	"
293	3-24	830A / 845A	"	17.2	12.4	1.45	1.88	18.0		.6	11	0	"
294	3-31	305P / 315P	"	15.5	9.87	1.42	1.66	14.0		.6	11	0	"
295	4-7	850A / 905A	"	16.5	10.6	1.47	1.58	15.6		.6	11	0	"
296	4-14	900A / 915A	"	15.5	9.91	1.47	1.51	14.6		.6	10	0	"
297	4-21	850A / 905A	"	16.5	11.6	1.28	1.60	14.8		.6	12	0	"
298	4-28	850A / 905A	"	15.5	10.1	1.37	1.50	13.8	b	.6	11	0	"
299	5-5	845A / 900A	"	15.5	9.25	1.35	1.38	12.5		.6	11	0	"
300	5-12	900A / 915A	"	14.8	9.57	1.23	1.40	11.8		.6	10	0	"
301	5-19	825A / 840A	"	15.0	9.36	1.22	1.44	11.4		.6	10	0	"
302	5-25	840A / 855A	"	15.5	9.62	1.26	1.42	12.1		.6	11	0	"
303	6-1	250P / 305P	"	14.5	8.51	1.57	1.56	13.4		.6	11	0	"
304	6-8	305P / 320P	"	14.5	9.95	1.18	1.30	11.7		.6	10	0	"
305	6-16	938A / 958A	Bollinger	21.0	31.6	1.72	2.95	54.3		.6	11	0	F06
306	6-23	300P / 315P	Turner	13.5	10.2	1.06	1.07	10.8		.6	11	0	F05
307	6-29	845A / 855A	Bollinger	12.8	8.95	1.18	1.12	10.5		.6	9	0	F06
308	7-6	857A / 906A	"	11.7	7.81	1.27	1.12	9.9		.6	12	0	"
309	7-13	930A / 945A	Turner	13.0	7.83	1.40	1.25	11.0		.6	10	0	F05
310	7-20	930A / 945A	"	12.0	8.31	1.32	1.23	11.0		.6	9	0	"
311	7-27	925A / 940A	"	11.8	8.32	1.37	1.26	11.4		.6	9	0	"
312	8-3	905A / 920A	Turner	11.7	8.26	1.23	1.28	10.2		.6	10	0	F05
313	8-10	430P / 445P	"	12.0	7.28	1.23	1.23	9.0		.6	10	0	"
314	8-17	905A / 920A	"	11.3	8.78	1.31	1.41	11.5		.6	10	0	"
315	8-24	305P / 315P	"	11.7	7.90	1.25	1.26	9.9		.6	9	0	"
316	8-31	910A / 925A	"	11.5	8.06	1.17	1.27	9.4		.6	9	0	"
317	9-7	920A / 930A	"	11.7	6.83	1.27	1.12	8.6		.6	8	0	"
318	9-14	920A / 930A	"	11.7	7.50	1.12	1.16	8.4		.6	9	0	"
319	9-21	1245P / 1255P	Turner & Gillespie	11.7	8.29	1.28	1.25	10.6		.6	9	0	"
320	9-28	345P / 355P	Turner	10.0	7.02	1.27	1.07	8.9		.6	9	0	"

P. C. Dis. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

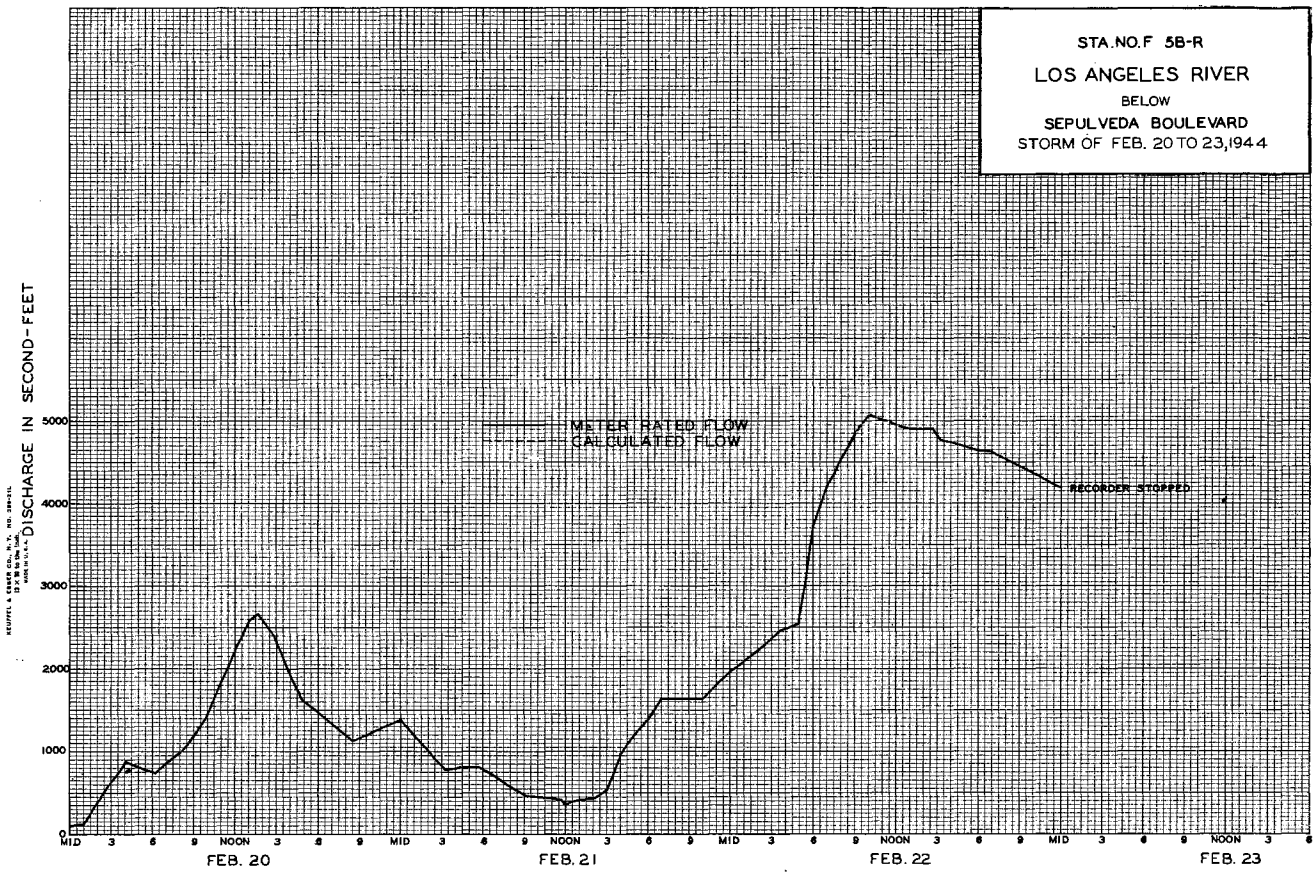
Sta. No. F5B-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Sepulveda Boulevard, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	65	65	65	11	11	b395	15	13	43	10	11	9
2	65	6	65	13	11	1880	14	12	12	95	10	9
3	6	6	6	10	13	b635	15	13	11	9	10	9
4	55	65	65	11	18	b612	15	12	12	95	10	85
5	55	65	75	12	12	b218	15	13	11	95	10	9
6	65	65	11	12	11	b122	15	12	11	10	90	85
7	65	65	9	10	11	b 70	16	12	11	95	90	85
8	65	6	9	9	12	b 35	16	12	12	10	90	85
9	65	65	9	95	11	b 33	15	12	12	10	90	8
10	65	7	31	95	10	b 28	15	12	12	10	90	8
11	65	75	55	95	39	b 31	15	12	12	10	10	8
12	7	75	19	95	84	b 33	15	12	12	11	10	85
13	7	75	75	95	82	b 32	14	12	26	11	10	85
14	7	8	75	9	44	b 32	14	12	49	10	10	85
15	7	9	10	95	10	b 33	14	12	52	11	10	85
16	7	9	11	10	21	b 33	14	11	53	11	10	85
17	7	9	10	10	78	b 26	13	11	53	11	11	85
18	75	9	30	10	76	b 19	14	12	34	11	11	9
19	75	85	29	11	60	b 20	14	11	11	10	11	9
20	75	8	36	11	1310	b 18	14	12	11	10	10	9
21	75	8	348	11	990	b 18	12	12	11	11	10	10
22	65	8	62	11	a4100	b 18	13	12	11	10	10	95
23	6	75	62	12	a1670	b 18	13	12	11	11	10	9
24	6	75	59	12	a 98	18	13	12	11	11	10	85
25	6	7	62	12	a 47	17	14	12	11	12	10	85
26	65	7	63	12	d 63	16	14	12	12	11	95	9
27	6	65	45	12	d 43	15	d 20	12	11	11	95	9
28	65	65	14	12	b 23	15	d 14	12	10	12	9	9
29	65	65	70	12	b 86	15	13	13	10	12	9	9
30	65	65	44	12		15	13	12	95	12	9	85
31	65		32	12		14		31		11	9	
	2040		1178.0		9044		431		5675		3040	
		2180		3360		4484		392		3270		2620
MEAN	6.58	7.27	38.0	10.8	312	145.	14.4	12.6	18.9	10.5	9.81	8.73
ACRE-FEET	405.	432.	2,340.	666.	17,940.	8,890.	855.	778.	1130.	649.	603.	520.

Remarks:

YEAR OR PERIOD MEAN 48.5
ACRE-FEET 35,210.



STATION F266-R

LOS ANGELES RIVER at Mariposa Street

LOCATION:

Water-stage recorder, lat. 34°09'17", long. 118°18'40", 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. Elevation of zero gage height, 468.61 feet.

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.C.F. recorder was in service from October 1, 1943 to September 30, 1944.

REGULATION AND/OR DIVERSIONS:

Subject to same regulation as Station F5B-R and in addition, by Pacoima Dam, Hansen Dam and Big Tujunga Dam No. 1.

DIVERSIONS:

Several irrigation diversions in the mountain tributaries, other flow is diverted at the several water supply reservoirs, and the Los Angeles Water Department diverts flow for spreading above the station.

RECORDS AVAILABLE:

From December 20, 1938 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 9,040 second-feet, February 22.
Minimum 14 second-feet, Aug. 29 to Sept. 15.
1938-1944
Maximum 9,040 second-feet, Feb. 22, 1944.
Minimum 6.5 second-feet, May 20 and 21, 1940.

ACCURACY:

Fair.

OPERATION:

Located and constructed by Corps of Engineers, U.S. Army, and operated by the Los Angeles County Flood Control District in conjunction with the Corps of Engineers, U.S. Army.

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

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, 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.
321	10-7	212P / 225P	Bollinger	78.0	18.9	1.23		23.3		.6	13		F06
322	10-15	1118A / 1133A	"	78.0	19.2	1.23		23.7		.6	15		"
323	10-21	142P / 200P	"	79.0	20.0	1.17		23.4		.6	15		"
324	10-29	210P / 226P	"	78.0	20.7	1.12		23.2		.6	14		"
325	11-5	100P / 117P	"	87.5	19.7	1.20		23.7		.6	15		"
326	11-12	133P / 145P	"	87.5	17.6	1.15		20.3		.6	12		"
327	11-19	200P / 218P	"	88.0	20.1	1.17		23.6		.6	15		"
328	11-26	1125A / 1145A	Turner	77.0	19.7	1.1		21.6		.6	14		F05
329	12-4	1055A / 1115A	"	75.0	19.5	1.32		25.8		.6	12	"	"
330	12-11	1253P / 110P	Turner & Smith	92.0	48.0	2.85		137.		.6	10		"
331	12-18	1220P / 1233P	" "	92.0	42.4	3.07		130.		.6	11		"
332	12-23	1125A / 1145A	Turner	98.	37.9	2.66		101.		.6	14		"
333	12-30	1110A / 1130A	"	Three Channels				75.4		.6	17		"
334	1-7	1115A / 1135A	"	98.0	28.8	2.02		58.3		.6	15		"
335	1-14	1130A / 1145A	"	97.0	25.7	2.10		54.1		.6	15		"
336	1-21	1050A / 1110A	"	Two Channels				44.0		.6	15		"
337	1-28	1155A / 1215P	"	91.0	22.4	1.99	0.29	44.6		.6	12		"
338	2-4	1230P / 1250P	"	91.0	26.9	1.83	0.31	49.3		.6	10		"
339	2-10	1115A / 1135A	"	91.0	25.4	1.60	0.32	40.6		.6	10		"
340	2-18	125P / 145P	"	97.0	35.6	2.20	0.47	78.1		.6	14		"
341	2-25	1205P / 1220P	Turner	127.	134.	5.56	1.28	745.		.6	10	0	F05
342	3-10	1110A / 1130A	"	106.	71.5	4.10		293.		.6	12		"
343	3-17	1105A / 1125A	Turner	97.0	40.4	2.80		113.		.6	13	0	F05
344	3-24	1130A / 1150A	"	Two Channels				205.		.6	15	0	"
345	3-31	110P / 135P	Turner	100.	36.0	2.72		97.8		.6	22	0	F05
346	4-7	1115A / 1135A	"	100.	31.2	2.10		65.6		.6	16	0	"
347	4-14	1215P / 1235P	"	98.0	30.7	2.16		66.3		.6	17	0	"
348	4-21	1225P / 1245P	"	Two Channels				71.9		.6	17	0	"
349	4-28	1030A / 1045A	"	91.0	29.1	2.18		63.5		.6	11	0	"
350	5-5	1135A / 1155A	"	79.0	15.4	1.30	0.26	20.0		.6	11	0	"
351	5-12	1150A / 1210P	"	81.0	19.3	1.35	0.26	26.0		.5	12	0	"
352	5-19	1135A / 1150A	"	78.0	20.7	1.28	0.28	26.6		.5	9	0	"
353	5-25	1210P / 1230P	"	91.0	22.0	1.29	0.30	28.4		.5	11	0	"
354	6-1	1225P / 1240P	"	98.0	39.1	1.92	0.43	75.1		.5	12	0	"
355	6-8	110P / 130P	"	Two Channels			0.45	35.1		.5	12	0	"
356	6-16	215P / 245P	Bollinger	98.0	42.4	1.38	0.46	58.7		.6	20	0	F06
357	6-23	1110A / 1125A	Turner	64.0	23.2	1.30	0.47	30.2		.5	11	0	F05
358	6-29	138P / 203P	Bollinger	85.0	24.6	1.20	0.40	29.5		.6	16	0	F06
359	7-6	107P / 133P	"	88.0	23.7	1.14	0.30	27.1		.6	17	0	"
360	7-13	1230P / 1245P	Turner	Two Channels			0.37	40.7		.5	12	0	F05
361	7-20	1135A / 1150A	"	58.0	17.7	1.30	0.35	23.0		.5	8	0	"
362	7-27	1205P / 1225P	"	74.0	18.2	1.21	0.33	22.0		.5	10	0	"
363	8-3	1220P / 1235P	"	52.0	14.8	1.38	0.33	20.5		.6	7	0	"
364	8-10	1250P / 105P	"	68.0	16.0	1.14	0.31	18.2		.5	8	0	"
365	8-17	150P / 205P	"	Two Channels			0.30	19.1		.5	10	0	"
366	8-24	1245P / 105P	"	" "			0.30	19.0		.5	11	0	"
367	8-31	130P / 145P	Turner	Three Channels			0.29	14.7		.5	11	0	F05
368	9-7	1205P / 1220P	"	88.0	18.6	0.80	0.29	14.9		.6	10	0	"
369	9-14	1220P / 1235P	"	88.0	17.9	0.80	0.29	14.4		.5	10	0	"
370	9-21	1010A / 1025A	Gillespie & Turner	90.0	15.7	1.19	0.28	18.8		.5	10	0	"
371	9-28	115P / 130P	Turner	Two Channels			0.28	19.0		.5	9	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

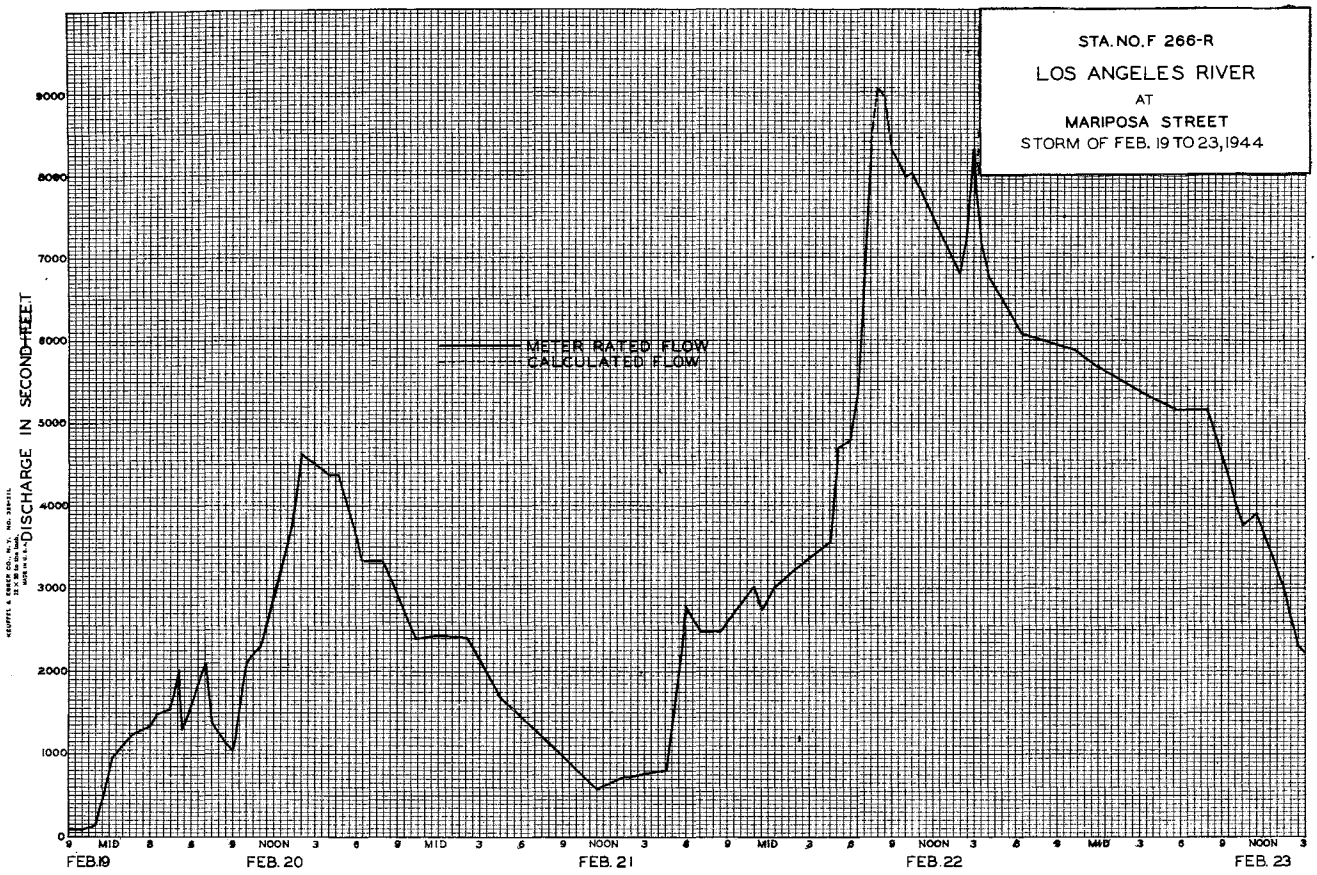
Sta. No. F266-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Mariposa Street, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b 23	b 23	b 24	b 60	46	b 780	b 90	b43	68	23	19	14
2	b 23	b 23	b 25	b 58	42	b3630	b 86	b34	42	27	19	14
3	b 23	b 24	b 25	b 56	53	b 960	b 80	b24	38	23	19	14
4	b 23	b 24	b 26	b 52	58	b 660	b 76	b20	31	27	19	14
5	b 23	b 24	b 27	b 56	31	b 480	b 71	19	34	31	23	14
6	b 23	b 23	b 83	b 65	34	b 420	b 66	23	38	31	23	14
7	b 23	b 23	b 50	b 59	34	b 315	b 65	31	42	31	23	14
8	b 23	b 22	b 52	b 58	46	b 300	b 65	27	34	31	19	14
9	b 23	b 22	b 58	b 58	42	b 290	b 66	31	42	31	27	14
10	b 23	b 21	b 280	b 56	42	b 275	b 66	31	46	31	19	14
11	b 24	b 21	b 120	b 56	46	b 265	b 66	31	42	31	19	14
12	b 24	b 20	b 50	b 56	84	b 251	b 66	27	46	31	19	14
13	b 24	b 21	b 65	b 55	84	b 235	b 66	31	50	25	19	14
14	b 24	b 21	b 66	b 54	73	b 220	b 67	27	84	16	19	14
15	b 24	b 22	b 68	b 52	38	b 200	b 56	27	110	16	23	14
16	b 24	b 22	b 59	b 50	34	b 165	b 46	27	92	16	19	16
17	b 24	b 23	b 62	b 49	73	b 112	b 39	27	78	16	19	16
18	b 24	b 23	b 128	b 48	78	b 111	b 35	23	84	19	19	16
19	b 23	b 24	b 104	b 46	100	b 110	b 27	27	54	19	19	16
20	b 23	b 23	b 160	b 45	2560	b 110	b 22	31	46	23	19	19
21	b 23	b 23	b 285	b 46	1670	b 109	b 18	23	42	23	19	19
22	b 23	b 23	b 122	b 46	6050	b 108	b 19	19	38	31	19	19
23	b 23	b 22	b 100	b 50	b 35500	b 106	b 21	16	34	31	19	19
24	b 23	b 22	b 102	b 50	b 1400	b 103	b 23	23	38	31	19	19
25	b 23	b 22	b 103	50	b 750	b 103	b 26	27	38	23	19	19
26	b 23	b 22	b 106	50	b 600	b 102	b 33	34	38	23	19	19
27	b 23	b 22	b 108	50	b 430	b 101	b155	31	38	23	19	19
28	b 23	b 23	b 110	46	b 310	b 100	b 63	31	31	19	16	19
29	b 23	b 23	b 150	46	b 480	b 100	b 59	34	31	19	14	19
30	b 23	b 24	b 74	46		b 98	b 58	34	23	23	14	19
31	b 23		b 66	54		b 97		34		19	14	
	721	675	2858	1623	18788	11016	1696	867	1452	763	595	483
MEAN	23.2	22.5	92.2	52.4	648.	355.	56.5	28.0	48.4	24.6	19.2	16.1
ACRE-FEET	1,430.	1,340.	5,670.	3,220.	37,270.	21,850.	3360.	1,720.	2,880.	1,510.	1180.	958.

Remarks:

YEAR OR PERIOD MEAN 113.
ACRE-FEET 82,390.



STATION F57C-R

LOS ANGELES RIVER above Arroyo Seco

LOCATION:

Water-stage recorder, lat. 34°04'55", long. 118°13'35" 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. Elevation of zero gage height, 292.58 feet.

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 Corps of Engineers, U.S. Army, was in service from October 1, 1943 to September 30, 1944.

REGULATION AND/OR DIVERSIONS:

Subject to same regulation as Station F266-R. Several debris basins regulate flow on additional tributaries. The Los Angeles Water Department spills surplus flow into the channel from water developed in the Griffith Park area.

RECORDS AVAILABLE:

At Station F57-R
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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 14,600 second-feet, February 22.
Minimum 22 second-feet, July 1.
1929-1944 (Stations F57-R, F57B-R and F57C-R)
Maximum 68,000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year from 1929-1930 to 1933-1934.

ACCURACY:

Fair.

OPERATION:

Located, and constructed by the Corps of Engineers, U.S. Army. Operated by the Los Angeles County Flood Control District, and Corps of Engineers, U.S. Army, with the co-operation of the United States Geological Survey, Water Resources Branch.

DIVERSIONS:

Several irrigation diversions in the mountain tributaries; other flow is diverted at the several water supply reservoirs, and the Los Angeles Water Department diverts flow for spreading.

F. C. D. FORM 104 2M 9-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F57C-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at above Arroyo Seco 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.
607	10-4	917A / 929A	Bollinger	18.3	10.8	2.92	1.32	31.5		.6	13	+.01	Fc6
608	10-7	333P / 347P	"	18.5	11.2	2.88	1.32	32.3		.6	15	0	"
609	10-11	855A / 913A	"	18.6	10.6	2.71	1.29	28.7		.6	15	-.01	"
610	10-15	222P / 242P	"	19.0	14.2	3.31	1.40	47.0		.6	18	-.01	"
611	10-19	1000A / 1012A	"	18.5	11.0	3.08	1.33	33.9		.6	16	0	"
612	10-21	305P / 320P	"	18.3	10.8	3.05	1.31	32.9		.6	16	0	"
613	10-25	840A / 855A	"	18.3	10.5	3.08	1.31	32.3		.6	16	0	"
614	10-29	510P / 525P	"	18.7	12.1	3.09	1.35	37.4		.6	15	0	"
615	11-1	932A / 945A	"	18.5	12.0	3.04	1.35	36.5		.6	15	0	"
616	11-5	425P / 440P	"	18.7	12.5	2.97	1.39	37.1		.6	15	0	"
617	11-9	1032A / 1044A	"	18.9	12.7	2.88	1.38	36.6		.6	13	0	"
618	11-12	305P / 320P	"	19.2	12.9	2.67	1.38	34.5		.6	14	+.01	"
619	11-15	842A / 856A	"	19.0	12.0	2.87	1.39	34.4		.6	14	0	"
620	11-19	352P / 408P	"	18.8	12.5	3.23	1.39	40.4		.6	17	0	"
621	11-22	750A / 805A	"	18.9	12.4	3.05	1.36	37.8		.6	16	0	"
622	11-26	120P / 135P	Turner	20.0	13.7	2.90	1.28	39.8		.6	7	0	FC5
623	12-4	955A / 1010A	"	20.0	15.4	2.40	1.40	37.0		.6	6	0	"
624	12-6	1020A / 1040A	"	75.0	26.4	3.76	1.52	99.2		.6	12	-.01	"
625	12-11	1115A / 1140A	Turner & Smith	Two Channels			1.83	324.		.6	16	-.02	"
626	12-18	1040A / 1100A	" "	"	"		1.63	218.		.6	14	+.04	"
627	12-21	130P / 157P	Bollinger	"	"		1.70	314.		.6	22	-.02	FC6
628	12-22	848A / 919A	"	"	"		1.45	145.		.6	22	-.02	"
629	12-23	1230P / 1255P	Turner	135.	39.7	2.90	1.36	115.		.6	13	0	FC5
630	12-29	850A / 908A	"	Two Channels			1.90	401.		.6	16	0	"
631	12-30	955A / 1020A	Turner	Two Channels			1.40	94.6		.6	12	0	FC5
632	1-7	130P / 145P	"	20.0	18.0	4.74	1.33	85.3		.6	10	0	"
633	1-14	1255P / 107P	"	19.0	13.8	5.51	1.31	76.0		.6	6	0	"
634	1-21	105P / 120P	"	20.0	17.0	3.73	1.28	63.4		.6	7	0	"
635	1-28	110P / 130P	"	Two Channels			1.25	45.7		.6	17	0	"
636	2-4	200P / 220P	"	"	"		1.34	78.5		.6	14	0	"
637	2-10	120P / 140P	"	"	"		1.27	48.7		.6	15	0	"
638	2-18	1115A / 1135A	"	"	"		1.39	112.		.6	15	0	"
639	2-20	330A / 405A	Turner & Smith	"	"		2.98	1840.		.6	10	-.13	"
640	2-20	740A / 805A	" "	177.	308.	7.92	3.25	2440.		.6	10	-.05	"
641	2-20	455P / 530P	U.S.E.D. # 1	177.	439.	7.36	4.85	3230.		.6	18	-.05	35628
642	2-21	350A / 420A	" 2	177.	298.	7.49	2.86	2230.		.6	18	-.12	"
643	2-22	225A / 300A	U.S.E.D. 3	177.	653.	10.20	4.53	6660.		.6	18	-.38	35628
643A	2-22	145P / 225P	" 4	177.	717.	12.58	4.40	9020.		.6	18	-.10	"
644	2-22	445P / 515P	" 5	177.	649.	11.85	4.31	7690.		.6	12	-.10	"
645	2-22	900P / 930P	" 6	177.	527.	12.64	3.98	6660.		.6	10	-.05 +.05	"
646	2-24	250P / 310P	Turner	177.	179.	6.20	2.20	1110.		.6	9	0	FC5
647	3-3	310P / 335P	"	177.	191.	5.97	2.18	1140.		.6	13	0	"
648	3-10	155P / 220P	"	177.	96.6	3.24	1.50	313.		.6	18	0	"
649	3-14	120P / 150P	"	177.	95.6	3.86	1.38	369.		.6	21	0	"
650	3-17	100P / 120P	"	177.	50.7	3.10	1.13	157.		.6	17	0	"
651	3-21	1205P / 1230P	"	169.	58.3	3.30	1.19	192.		.6	19	0	"
652	3-24	125P / 150P	"	172.	66.7	3.22	1.23	215.		.6	16	-.01	"
653	3-31	1120A / 1145A	"	Four Channels			1.08	110.		.6	19	0	"
654	4-7	235P / 305P	Turner	Four Channels				89.9		.6	22	0	FC5
655	4-14	235P / 300P	"	"	"			89.4		.6	23	0	"
656	4-21	255P / 310P	"	18.4	8.04	3.74		30.1		.6	10		"
657	4-24	900A / 915A	"	Two Channels			0.68	41.0		.6	12	0	"
658	4-27	1005A / 1030A	"	177.	77.2	3.42	1.18	264.		.6	15	-0.01	"
659	4-28	345P / 405P	"	Three Channels				102.		.6	18		"
660	5-5	215P / 230P	"	18.3	12.0	3.72		44.6		.6	11	0	"
661	5-12	130P / 145P	"	18.3	11.2	3.67		41.1		.6	11	0	"
662	5-19	115P / 130P	"	19.0	12.4	3.54		43.9		.6	10	0	"
663	5-22	1120A / 1135A	"	18.6	12.0	3.32	0.61	39.8		.6	11	0	"
664	5-25	215P / 230P	"	18.6	12.0	3.26	0.62	39.1		.6	10	0	"
665	6-1	1030A / 1050A	"	19.3	14.7	4.45	0.82	65.4		.6	10	0	"
666	6-8	1100A / 1120A	"	18.5	12.4	3.90	0.65	48.3		.6	10	0	"
667	6-16	500P / 520P	Bollinger	18.5	11.8	4.83	0.72	57.0		.6	11	0	FC6
668	6-23	1005A / 1020A	Turner	18.5	11.1	2.82	0.67	31.3		.6	10	0	FC5
669	6-29	345P / 402P	Bollinger	17.7	9.54	2.98	0.53	28.4		.6	14	0	FC6
670	7-6	420P / 435P	"	18.2	9.77	3.18	0.58	31.1		.6	11	+.04	"
671	7-13	240P / 255P	Turner	17.9	10.2	3.12	0.55	31.8		.6	10	0	FC5
672	7-20	200P / 215P	"	17.8	9.16	3.46	0.56	31.7		.6	10	0	"
673	7-27	235P / 250P	"	17.9	9.29	3.70	0.55	34.4		.6	10	0	"
674	8-3	205P / 220P	"	19.1	13.3	2.76	0.56	36.7		.6	10	0	"
675	8-10	1040A / 1055A	"	18.0	9.31	2.87	0.52	26.8		.6	10	0	"
676	8-17	300P / 315P	"	18.0	10.1	2.83	0.57	28.4		.6	10	0	"
677	8-24	1050A / 1105A	"	18.0	10.0	2.88	0.56	28.8		.6	10	0	"
678	8-31	240P / 255P	Turner	18.0	10.2	2.66	0.54	27.1		.6	10	0	FC5
679	9-7	225P / 240P	"	18.0	9.85	2.76	0.52	27.2		.6	10	0	"
680	9-14	255P / 310P	"	18.0	8.92	3.00	0.52	26.8		.6	10	0	"
681	9-21	905A / 920A	Turner & Gillespie	18.0	9.49	3.32	0.55	32.0		.6	10	0	"
682	9-28	1105A / 1120A	Turner	18.0	9.76	2.93	0.57	28.6		.6	10	0	"

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

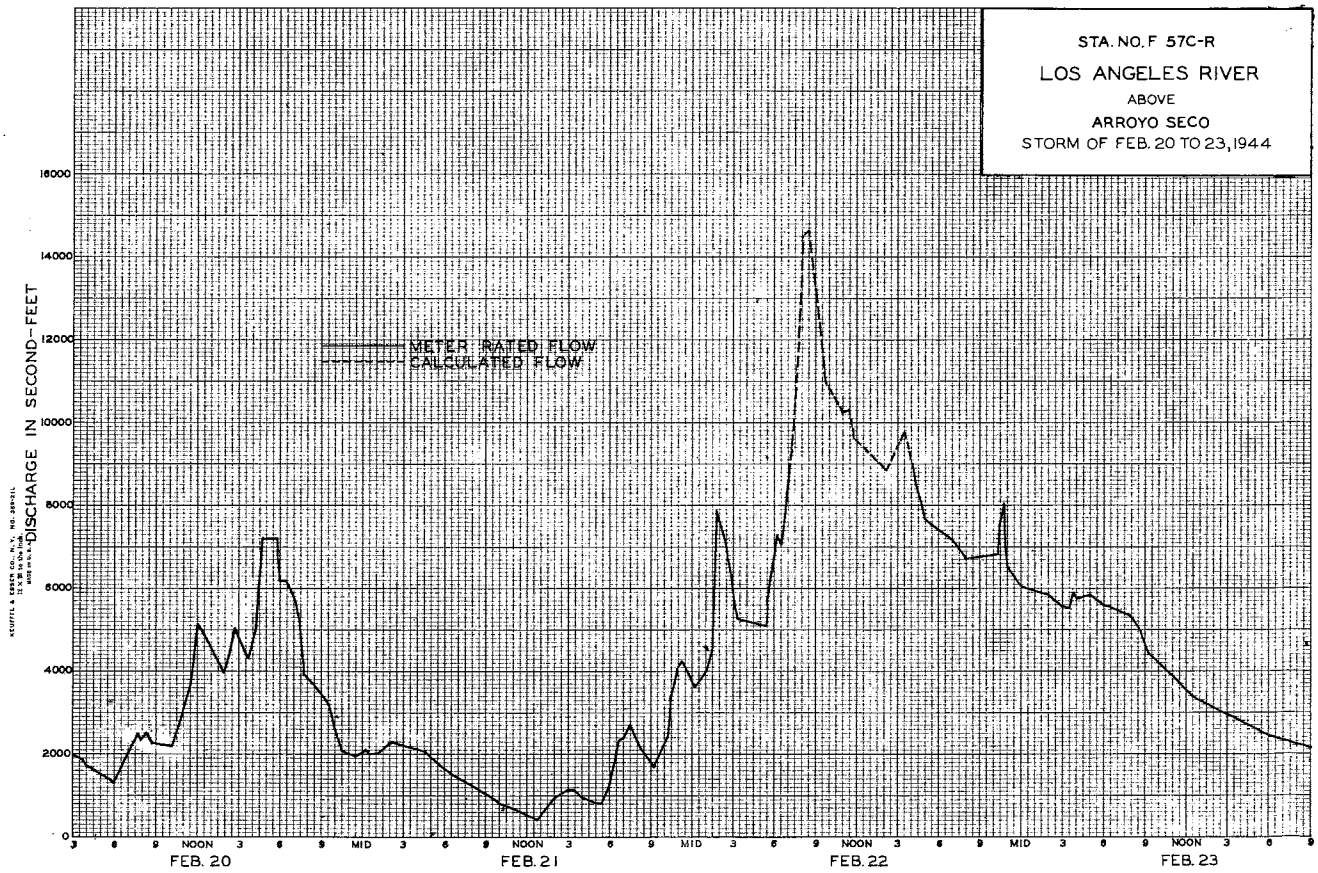
Sta. No. F57C-R

Daily discharge, in second-feet of LOS ANGELES RIVER above Arroyo Seco, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	32	37	48	98	f 46	1340	111	b 72	63	30	38	30
2	32	37	45	98	a 46	3780	107	b 50	51	28	38	29
3	32	38	41	93	a 53	1220	106	b 48	44	28	36	28
4	32	37	38	86	f 98	815	106	b 46	41	28	36	25
5	34	38	40	94	51	844	106	b 45	38	35	35	26
6	37	35	134	109	48	679	111	b 44	45	28	33	26
7	32	34	63	86	51	541	90	b 43	48	33	33	27
8	32	37	65	84	80	435	a 90	b 44	48	30	33	27
9	34	37	93	82	62	360	a 90	b 46	52	29	32	28
10	32	37	338	82	53	300	a 90	b 44	44	30	28	27
11	31	37	202	78	49	302	a 90	b 42	44	32	28	27
12	31	37	84	78	71	446	a 90	b 41	41	33	28	28
13	32	38	108	75	75	300	a 90	b 45	43	35	26	27
14	34	35	110	75	82	370	a 90	b 45	57	32	29	27
15	37	37	112	75	75	330	b 88	b 45	79	36	29	28
16	34	38	105	71	75	262	b 86	b 45	79	36	30	28
17	34	43	105	71	98	162	b 84	b 45	69	36	29	27
18	44	40	220	69	110	162	b 62	b 44	54	32	32	28
19	32	40	175	67	164	183	b 45	b 44	51	28	32	32
20	31	40	341	65	3100	199	b 34	b 43	36	30	30	33
21	32	38	480	65	1650	183	b 30	b 41	32	32	29	32
22	32	40	140	65	8020	190	b 33	40	25	29	29	30
23	34	43	118	74	3900 b	190	36	41	26	29	30	32
24	32	46	115	68	1500 b	199	39	40	29	32	29	29
25	34	55	115	49 a	1000 b	116	44	40	27	32	30	29
26	34	55	121	48 a	1100 b	118	46	43	27	32	28	29
27	34	53	121	46 a	786	116	331	40	30	33	26	30
28	35	49	165	46 a	531	118	b102	39	29	33	27	29
29	37	49	264	45 a	740	116	b102	38	29	32	27	30
30	35	46	139	46 a		116	b102	39	30	33	28	32
31	37		128	75 f		113		40		35	27	
	1045	1226	4423	2263	23714	14605	2631	1362	1311	981	945	860
Mean	33.7	40.9	143.	73.0	818.	471.	87.7	43.9	43.7	31.6	30.5	28.7
Acre-Feet	2070.	2430.	8770.	4490.	47040.	28970.	5220.	2700.	2600.	1950.	1870.	1710.

Remarks:

Year or Period: Mean 151; Acre-Feet 109,800



STATION F34B-R

LOS ANGELES RIVER at Firestone Boulevard

LOCATION:

Water-stage recorder, lat. 33°57'03", long. 118°10'22", on the downstream side of Firestone Boulevard bridge, about 3 miles west of Downey. Elevation of zero gage height, 95.09 feet.

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, 1943 to September 30, 1944.

REGULATION:

Flow is subject to same regulation as station F57C-R. In addition, the flow is partially regulated by Devil's 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 diverte water from the Arroyo Seco.

RECORDS AVAILABLE:

At Station F34-R
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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 24,750 second-feet, February 22.
Minimum 38 second-feet, December 5.
1928-1944 (Stations F34-R and F34B-R)
Maximum 79,000 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.

OPERATION:

Located and constructed by the Los Angeles County Flood Control District, and operated by the Los Angeles County Flood Control District with cooperation of Corps of Engineers, U.S. Army, and the United States Geological Survey, Water Resources Branch.

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

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, 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
607	10-1	1020A / 1032A	Bonadiman	24.0	27.6	1.53	3.50	42.3		.6	7	0	FC19
608	10-8	940A / 950A	"	18.0	22.6	1.72	3.51	38.9		.6	6	0	"
609	10-15	922A / 932A	"	19.0	23.6	1.56	3.52	36.7		.6	6	0	"
610	10-18	142P / 205P	"	Two Channels			3.80	222.		.6	14	0	"
611	10-22	912A / 930A	"	26.0	27.4	1.42	3.46	38.9		.6	8	0	"
612	10-29	922A / 932A	"	26.0	30.4	1.26	3.50	38.4		.6	7	0	"
613	11-5	957A / 1010A	"	27.0	33.2	1.21	3.54	40.3		.6	8	0	"
614	11-12	947A / 958A	"	26.0	29.4	1.32	3.55	39.0		.6	8	0	"
615	11-19	922A / 935A	"	27.0	31.6	1.33	3.54	42.0		.6	8	0	"
616	11-26	932A / 953A	"	26.0	29.3	1.45	3.57	42.6		.6	8	0	"
617	12-3	928A / 940A	"	27.0	31.6	1.64	3.57	51.7		.6	9	0	"
618	12-10	835A / 905A	"	305.0	375.	2.16	4.33	811.		.6	12	+.03	"
619	12-10	105P / 130P	"	350.0	598.	5.34	5.09	3190.		.6	10	+.07 -.24	"
620	12-11	737A / 800A	Bonadiman & Marlin	330.0	574.	2.94	4.66	1690.		.6	14	+.01 -.14	"
621	12-12	1132A / 1144A	Bonadiman	150.0	176.	1.31	3.53	230.		.6	9	0	FC19
622	12-17	917A / 920A	"	140.0	111.	1.10	3.38	122.		.6	9	0	"
623	12-18	524A / 602A	Bonadiman & Keith	321.0	476.	2.71	4.32	1290.		.6	10	+.03	"
624	12-19	917A / 940A	Bonadiman	270.0	278.	1.65	3.90	458.		.6	14	0	"
625	12-20	952A / 1010A	"	255.0	200.	1.42	3.83	293.		.6	12	0	"
626	12-20	1132P / 1150P	Bonadiman & Keith	350.0	598.	5.07	5.15	3540.		.6	11	0	"
627	12-22	840A / 859A	Bonadiman	Two Channels			3.72	334.	Surf. +	.6	13	0	"
628	12-28	218P / 227P	"	295.0	422.	2.25	4.14	952.		.6	13	+.08	"
629	12-29	741A / 756A	Bonadiman & Keith	329.0	498.	3.81	4.67	1900.		.6	11	-.14	"
630	12-30	931A / 950A	Bonadiman	205.0	157.	1.18	3.60	186.		.6	11	0	"
631	12-31	852A / 904A	Bonadiman & Cesca	276.	254.	1.54	3.80	392.		.6	10	0	FC19
632	1-7	945A / 1000A	Bonadiman	72.0	66.6	1.64	1.64	109.		.6	10	0	"
633	1-14	905A / 918A	"	65.0	68.2	1.38	3.51	94.0		.6	10	0	"
634	1-21	906A / 921A	"	59.0	58.0	1.40	3.53	81.4		.6	10	0	"
635	1-28	945A / 956A	"	59.0	56.8	1.33	3.54	75.7		.6	8	0	"
636	2-4	700A / 752A	"	275.	254.	1.22	3.87	309.		.6	12	-.02	"
637	2-11	930A / 944A	"	60.0	59.0	1.37	3.60	810		.6	9	0	"
638	2-15	722A / 745A	"	270.	194.	1.49	3.85	289.		.6	10	0	"
639	2-18	942A / 954A	"	63.0	80.4	1.43	3.70	115.		.6	9	0	"
640	2-20	408A / 427A	Bonadiman & Keith	352.	833.	6.15	5.46	5120.		.6	10	+.12	"
641	2-20	151P / 210P	"	350.	959.	5.97	5.75	5730.		.6	10	-.10	"
642	2-20	530P / 840P	U.S.E.D. # 1	360.	200.	6.97	6.62	13950.		.6	29	+.05 -.07	U.S.E.D 35662
643	2-21	751A / 813A	Keith & Bonadiman	313.	800.	3.38	4.71	2700.		.6	11	-.02	FC19
644	2-22	245A / 515A	U.S.E.D. # 2	360.	1760.	6.08	6.51	10700		.6	29	-.09	35662
645	2-22	100P / 210P	U.S.E.D. # 3	360.	1970.	7.64	6.85	15100.		.6	29	-.10	"
646	2-23	748A / 802A	Bonadiman & Keith	350.	1170.	6.64	5.79	7770.		.6	10	0	FC19
647	2-24	325P / 350P	Bonadiman	265.	460.	3.30	4.38	1520.		.6	8	+.03	"
648	2-26	410P / 424P	"	310.	557.	4.02	4.62	2240.		.6	10	-.07	"
649	3-1	1120P / 1142P	Bonadiman & Keith	355.	888.	6.35	5.68	5640.		.6	11	-.24	"
650	3-3	302P / 325P	Bonadiman	308.	507.	3.44	4.49	1750.		.6	10	-.02	"
651	3-9	307P / 324P	"	Two Channels			3.94	601.		.6	12	0	"
652	3-17	1106A / 1120A	"	165.	169.	1.21	3.83	205.		.6	10	0	"
653	3-24	1102A / 1116A	"	185.	221.	1.52	4.12	337.		.6	11	0	"
654	3-31	1027A / 1045A	"	175.	196.	0.92	3.76	181.		.6	11	0	"
655	4-7	1102A / 1112A	Bonadiman & Keith	175.	106.	1.34	3.68	142.		.6	11	0	FC19
656	4-14	947A / 1012A	"	175.	137.	1.20	3.69	165.		.6	11	0	"
657	4-21	1007A / 1024A	Bonadiman	Three Channels			3.53	61.7		.6	11	0	"
658	4-27	812A / 835A	"	277.	440.	3.45	4.38	1520.		.6	13	-.04	"
659	4-28	1001A / 1022A	"	Two Channels			3.58	182.		.6	12	0	"
660	5-5	820A / 842A	"	"	"		3.43	79.4		.6	12	0	"
661	5-12	1017A / 1050A	"	"	"		3.47	61.1		.6	16	0	"
662	5-19	1022A / 1040A	"	"	"		3.49	62.9		.6	13	0	"
663	5-26	1057A / 1120A	"	"	"		3.58	74.5		.6	16	0	"
664	6-2	1025A / 1100A	"	Three Channels			3.60	81.2		.6	24	0	"
665	6-7	925A / 952A	"	"	"		3.59	68.6		.6	20	0	"
666	6-14	1002A / 1030A	"	"	"		3.58	58.6		.6	21	0	"
667	6-21	1017A / 1050A	"	"	"		3.57	60.6		.6	20	0	"
668	6-29	1042A / 1100A	"	"	"		3.54	43.5		.6	15	0	"
669	7-6	1020A / 1042A	"	"	"		3.52	42.2		.6	18	0	"
670	7-13	952A / 1016A	"	"	"		3.62	71.2		.6	19	0	"
671	7-20	918A / 930A	"	67.0	38.6	1.08	3.55	41.6		.6	10	0	"
672	7-27	932A / 945A	"	67.0	39.4	1.19	3.57	46.7		.6	9	0	"
673	8-3	923A / 936A	"	63.0	36.4	1.19	3.58	43.3		.6	9	0	"
674	8-10	920A / 932A	"	61.0	33.2	1.01	3.55	33.6		.6	9	0	"
675	8-17	954A / 1010A	"	63.0	33.6	1.22	3.55	40.8		.6	11	0	"
676	8-24	1010A / 1030A	"	Two Channels				48.7		.6	11	0	"
677	8-31	1000A / 1020A	"	38.0	27.6	1.60	3.54	44.1		.6	7	0	"
678	9-6	935A / 1000A	Moon	Three Channels				37.2		.6	22	0	FC22
679	9-13	845A / 905A	Moon	Three Channels			3.55	40.6		.6	18	0	FC22
680	9-20	948A / 1012A	"	"	"		3.55	42.7		.6	17	0	"
681	9-28	1005A / 1020A	Bonadiman	50.0	33.7	1.36	3.57	46.0		.6	9	0	FC19

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

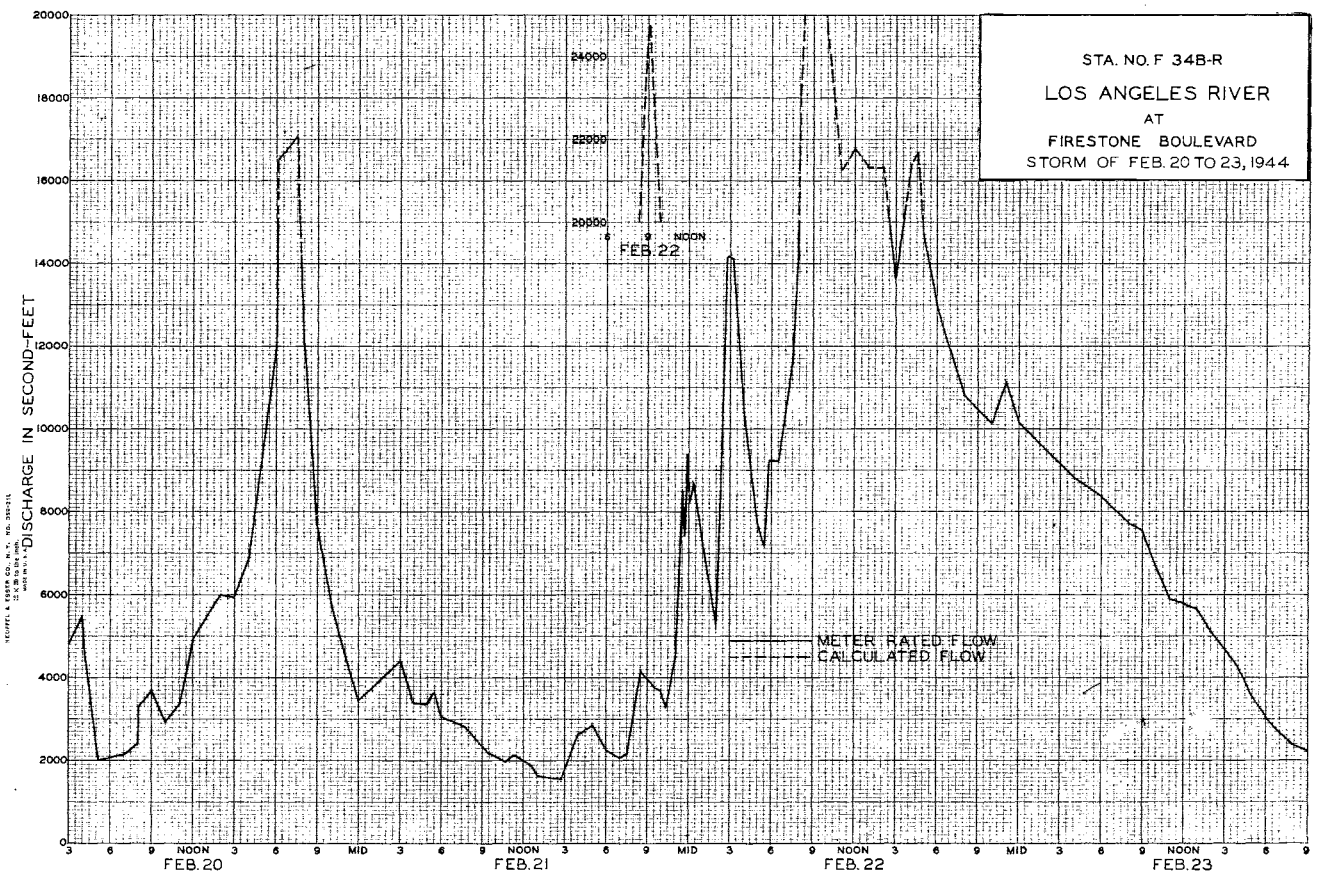
Sta. No. F34B-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Firestone Boulevard, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	49	41	45	188	73	2260	293	160	89	45	41	49
2	49	45	45	160	69	4720	265	109	81	53	49	49
3	45	49	45	188	89	1680	265	85	65	57	49	49
4	49	49	49	160	218	1710	326	81	57	57	45	45
5	53	49	38	152	81	1330	302	77	65	53	49	45
6	61	49	352	423	53	920	203	81	65	53	49	45
7	57	b 44	69	109	61	860	145	73	73	49	53	41
8	49	b 40	57	104	148	800	133	77	65	49	57	45
9	53	b 45	77	89	114	v 601	133	81	61	45	57	45
10	53	b 44	1130	94	77	v 623	133	85	57	49	53	45
11	41	45	636	104	77	v 489	138	73	57	57	49	45
12	41	45	230	99	104	v 671	145	65	57	57	49	53
13	49	53	a 140	94	123	v 671	160	65	61	73	41	57
14	49	45	a 134	89	133	v 740	167	81	65	53	57	57
15	53	45	a 130	94	160	v 639	160	81	85	45	49	53
16	57	53	a 132	89	89	v 503	145	81	94	45	45	49
17	49	65	138	85	123	228	128	73	89	57	49	49
18	99	61	657	94	114	238	128	61	94	61	45	53
19	69	53	690	94	206	284	128	69	89	61	49	49
20	53	49	634	89	5830	337	b 104	73	69	53	49	49
21	53	41	1050	81	3040	326	62	69	69	49	49	49
22	49	41	361	81	13020	284	57	69	53	49	53	41
23	49	49	238	99	5870	265	61	69	53	45	53	49
24	45	49	174	167	1620	293	73	69	57	49	53	53
25	41	49	160	94	1410	128	85	65	57	53	49	57
26	45	49	160	85	1660	145	94	73	57	53	49	53
27	49	41	174	81	1330	181	815	77	57	53	49	49
28	45	41	379	77	1030	188	174	73	61	49	49	49
29	53	41	590	73	1190	210	160	69	53	49	49	49
30	45	49	186	73		265	160	69	49	49	49	49
31	41		392	94		247		73		41	49	
	1593	1419	9292	3603	38112	22836	5342	2406	2004	1611	1535	1470
MEAN	51.4	47.3	300.	116.	1314.	737.	178.	77.6	66.8	52.0	49.5	49.0
ACRE-FEET	3160.	2810.	18430.	7150.	75590.	45,290.	10,600.	4770.	3970.	3200.	3040.	2920.

Remarks:

YEAR OR PERIOD — MEAN 249. — ACRE-FEET 180900.



STATION F180-R

LOS ANGELES RIVER at Pacific Coast Highway

LOCATION:

Water-stage recorder, lat. 33°47'25", long. 118°12'17", on the downstream side of Pacific Coast Highway Bridge about 1.8 miles upstream from the Pacific Ocean.

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, 1943 to September 30, 1944.

REGULATION:

Flow is subject to the same regulation as Station F34B-R and Station F45-R.

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.
Various cities, parties and agencies have miscellaneous domestic and irrigation diversions. Several agencies divert flow at various locations for spreading.

RECORDS AVAILABLE:

October 31, 1931 to September 30, 1944.
For earlier records, see Station F36-R, Los Angeles River at Willow Street.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 34,000 second-feet, February 22.
Minimum 35 second-feet, several days.
1931-1944
Maximum 99,000 second-feet estimated, March 2, 1938.
Minimum no flow at various times in 1934.

ACCURACY:

Fair.

OPERATION:

Located, constructed, and operated by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey, Water Resources Branch and Corps of Engineers, U.S. Army.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F180-R

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER

at Pacific Coast Highway 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
606	10-1	152P / 210P	Bonadiman	57.0	41.4	1.12	6.77	46.2		.6	10	0	FC19
607	10-8	1150A / 1210P	"	64.0	38.0	0.92	6.77	35.1		.6	9	0	"
608	10-15	1132A / 1150A	"	70.0	46.0	0.82	6.79	37.8		.6	10	0	"
609	10-22	1145A / 1200N	"	70.0	49.4	1.00	6.82	49.2		.6	11	0	"
610	10-29	1202P / 1228P	"	Three Channels			6.87	69.5		.6	16	0	"
611	11-5	1234P / 1250P	"	80.0	58.4	0.93	6.82	54.1		.6	12	0	"
612	11-12	1200N / 1225P	"	81.0	59.4	0.90	6.82	53.6		.6	16	0	"
613	11-19	1148A / 1210P	"	84.0	68.1	0.84	6.84	56.9		.6	15	0	"
614	11-26	1142A / 1202P	"	94.0	69.7	0.98	6.86	68.0		.6	16	0	"
615	12-3	1152A / 1220P	"	88.0	63.8	1.06	6.87	67.4		.6	15	0	"
616	12-10	345P / 412P	"	202.2	850.	5.67	9.65	4830.		.6	12	+.20	"
617	12-11	1102A / 1128A	Bonadiman & Marlin	158.6	492.	3.83	8.40	1880.		.6	13	0	"
618	12-12	1232P / 1250P	Bonadiman	153.0	169.	1.60	7.15	270.	Surf. &	.6	10	0	"
619	12-17	1137A / 1200N	"	100.0	88.4	1.41	6.79	125.		.6	12	0	"
620	12-18	1003A / 1025A	Bonadiman & Keith	166.0	320.	3.27	7.76	1060.		.6	12	+0.12	F019
621	12-19	1102A / 1125A	Bonadiman	168.0	216.	1.71	7.50	368.		.6	11	0	"
622	12-20	1220P / 1240P	"	165.0	279.	2.31	7.59	645.		.6	11	-.02	"
623	12-21	225A / 307A	Bonadiman & Keith	Two Channels			9.85	5280.		.6	18	+.20 / -.17	"
624	12-22	302P / 320P	Bonadiman	173.0	164.	1.98	7.12	326.		.6	12	0	"
625	12-29	1011A / 1026A	Bonadiman & Keith	189.6	527.	5.26	8.75	2740.		.6	11	+.06 / -.04	"
626	12-30	1222P / 1236P	Bonadiman	174.0	157.	1.78	7.08	278.	Surf. +	.6	11	0	"
627	12-31	1150A / 1210P	Bonadiman & Gesca	188.0	216.	2.24	7.30	485.	Surf. +	.6	12	0	"
628	1-7	102P / 122P	Bonadiman	Two Channels			6.96	181.		.6	12	0	"
629	1-14	1120A / 1141A	"	"	"		6.83	96.7		.6	10	0	"
630	1-21	1149A / 1210P	Bonadiman	Two Channels			6.80	123.		.6	10	0	FC19
631	1-28	1212P / 1232P	"	Three Channels			6.82	104.		.6	14	0	"
632	2-4	1104A / 1122A	"	187.0	214.	2.05	7.43	440.		.6	12	0	"
633	2-11	1112A / 1130A	"	Two Channels			6.81	104.		.6	9	0	"
634	2-18	1230P / 100P	"	Three Channels			6.97	181.		.6	14	0	"
635	2-20	703A / 745A	Bonadiman & Keith	Two Channels			10.20	6240.		.6	16	-.20	"
636	2-21	210P / 234P	"	150.4	548.	4.49	7.95	2460.		.6	16	-.10	"
637	2-22	818A / 845A	"	404.0	2330.	5.54	11.32	12900.		.6	16	+.15	"
638	2-22	1004A / 1013A	"	452.0	3640.	7.22	13.08	26300.	Float	.10	0	Float	
639	2-23	1000A / 1051A	"	293.0	1040.	7.26	8.70	75 50.		.6	24	0	FC19
640	2-24	100P / 120P	Bonadiman	216.0	373.	4.05		1510.		.6	13	0	"
641	2-25	1140A / 1200N	"	211.0	494.	3.48		1720.		.6	13	0	"
642	2-26	550P / 620P	"	201.0	511.	6.46		3300.		.6	10	0	"
643	3-2	127A / 207A	Bonadiman & Keith	365.0	1470.	7.14	9.85	105 00.		.6	19	-.10	"
644	3-3	1130A / 1200N	Bonadiman	207.0	403.	5.16		2080.		.6	12	0	"
645	3-9	140P / 200P	"	105.0	180.	4.16		750.		.6	8	0	"
646	3-17	100P / 115P	"	53.0	124.	2.18		270.		.6	7	0	"
647	3-24	110P / 130P	"	Two Channels				337.		.6	9	0	"
648	3-31	1235P / 1255P	"	54.0	97.7	1.69		165.		.6	6	0	"
649	4-7	100P / 120P	"	60.0	121.	1.89		229.		.6	7	0	"
650	4-14	1240P / 1252P	"	60.0	96.6	1.78		172.		.6	6	0	"
651	4-21	100P / 115P	"	60.0	26.4	1.39		106.		.6	6	0	"
652	4-27	1038A / 1100A	"	262.0	619.	3.62	8.09	2240.		.6	14	0	"
653	4-28	120P / 140P	"	109.0	173.	1.78		308.		.6	11	0	"
654	5-5	1200N / 1225P	Wood & Bonadiman	55.0	54.5	1.47		80.2		.6	6	0	FC19
655	5-12	120P / 132P	Bonadiman	55.0	58.5	1.13		66.2		.6	6	0	"
656	5-19	1250P / 110P	"	95.0	110.	1.69		186.		.6	10	0	"
657	5-26	110P / 130P	"	102.0	142.	1.57		223.		.6	12	0	"
658	6-2	100P / 115P	"	55.0	76.2	1.65		126		.6	6	0	"
659	6-7	120P / 130P	"	55.0	53.0	1.76		93.2		.6	6	0	"
660	6-14	110P / 130P	"	55.0	60.3	1.62		97.6		.6	7	0	"
661	6-21	1250P / 120 P	"	Two Channels				86.6		.6	10	0	"
662	6-29	130P / 145P	"	89.0	73.7	1.23		96.6		.6	10	0	"
663	7-6	1250P / 110P	"	Two Channels				56.6		.6	11	0	"
664	7-13	1200N / 1226P	"	"	"			78.8		.6	15	0	"
665	7-20	1245P / 110P	"	"	"			60.6		.6	16	0	"
666	7-27	130P / 152P	"	"	"			64.2		.6	15	0	"
667	8-3	1200N / 1220P	"	"	"			63.0		.6	12	0	"
668	8-10	100P / 120P	"	Three Channels				49.1		.6	14	0	"
669	8-17	100P / 120P	"	Two Channels				71.8		.6	16	0	"
670	8-24	120P / 150P	Gillespie & Bonadiman	"	"			54.6		.6	17	0	"
671	8-31	110P / 130P	Bonadiman	Three Channels				57.7		.6	14	0	"
672	9-6	100P / 120P	Moon	Two Channels				50.4		.6	16	0	FC22
673	9-13	100P / 120P	"	"	"			47.7		.6	15	0	"
674	9-20	115P / 135P	"	"	"			52.0		.6	16	0	"
675	9-28	100P / 126P	Bonadiman	"	"			78.3		.6	13	0	FC19

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

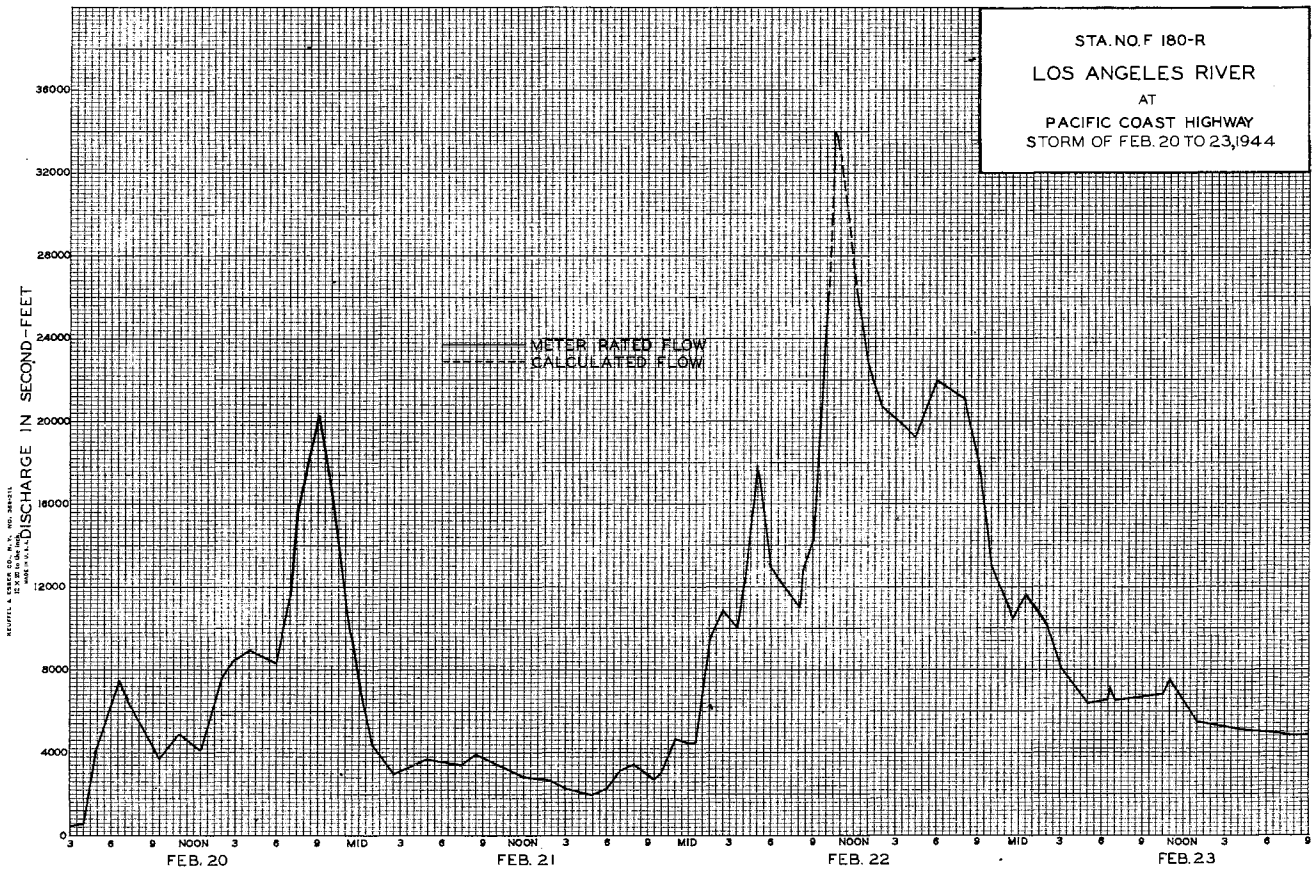
Sta. No. F180-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Pacific Coast Highway, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	47	60	71	277	133	b2500	b 174	210	140	86	63	57
2	47	58	73	235	118	b5400	b 183	178	126	80	63	55
3	44	60	71	246	124	b1700	b 192	145	119	74	63	54
4	41	56	71	212	294	b1800	b 201	113	113	68	61	53
5	41	56	73	184	149	b1350	b 210	80	106	63	59	51
6	44	58	379	433	121	b 950	b 220	78	100	57	57	50
7	44	54	109	188	109	b 890	b 229	76	93	60	55	50
8	39	51	95	142	121	b 820	b 220	74	94	63	53	50
9	39	56	127	133	193	b 750	b 212	72	94	66	51	49
10	42	54	1320	127	115	b 690	b 204	70	95	70	49	49
11	38	54	962	115	103	b 670	b 196	68	96	73	52	49
12	38	56	256	115	118	b 640	b 188	66	97	76	56	48
13	38	58	175	100	139	b 630	b 180	83	97	79	59	48
14	39	58	139	98	136	b 580	b 172	100	98	76	62	49
15	38	53	133	106	166	b 500	b 163	117	96	74	65	49
16	42	53	133	109	124	b 390	b 153	134	95	71	69	50
17	42	58	130	112	115	b 270	b 144	152	93	69	72	50
18	47	64	680	115	193	b 280	b 134	169	92	66	70	51
19	68	58	562	115	179	b 289	b 125	186	90	64	67	51
20	49	60	756	118	7120	b 299	b 115	191	89	61	65	52
21	49	58	1550	124	3290	b 308	b 106	197	87	61	62	55
22	53	58	b350	124	17190	b 318	b 106	202	88	62	60	58
23	56	60	300	121	6420	b 327	b 106	207	90	62	57	62
24	56	64	207	202	1510	b 337	b 106	212	91	63	55	65
25	58	64	184	149	b1450	b 312	b 106	218	92	63	55	68
26	60	68	175	121	b1780	b 288	b 106	223	93	64	56	72
27	60	66	179	115	b1350	b 263	b2240	209	94	64	56	75
28	66	66	300	103	b1100	b 239	b 308	195	96	64	57	78
29	71	64	1010	106	b1200	b 214	b 275	181	97	64	57	78
30	75	71	458	109		b 190	b 243	168	91	64	58	78
31	64		648	121		b 165		154		63	58	
	1535	1774	11676	4675	45160	24359	7317	4528	2942	2090	1842	1704
Mean	49.5	59.1	377.	151.	1,557.	786.	241.	146.	98.1	67.4	59.4	56.8
Acre-Feet	3040.	3520.	23,160.	9270.	89,570.	48,320.	14,510.	8,980.	5,840.	4,150.	3,650.	3,380.

Remarks:

Year or Period: Mean 299. Acre-Feet 217400.



STATION F130-R

MALIBU CREEK at Crater Camp

LOCATION:

Water-stage recorder, lat. 34°04'30", long. 118°42'10", at upper end of Malibu Gorge, about 0.2 mile downstream from Crater Camp in the Santa Monica Mountains, and 6 miles southwest of Calabasas. Elevation of gage, about 412 feet (from topographic map).

DRAINAGE AREA:

103 square miles.

CHANNEL AND CONTROL:

Channel-coarse sand and gravel lined with brush and trees.
A check dam of sand bags functioned during part of the year 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 Au continuous recorder was in service from October 1, 1943 to September 30, 1944.

REGULATIONS AND/OR DIVERSIONS:

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

RECORDS AVAILABLE:

January 17, 1931 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 7,700 second-feet, February 22.
Minimum 0.7 second-foot Oct. 1-27.
1931-1944
Maximum 12,240 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 in co-operation with the United States Geological Survey, Water Resources Branch.

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

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, 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	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
298	10-7	942A / 947A	Bollinger	4.1	1.42	0.49		0.7		.6	6		FC6
299	10-27	1040A / 1045A	"	3.3	0.96	0.77		0.74		.6	5		FC32
300	11-2	1046A / 1052A	"	3.6	1.14	0.96		1.1		.6	4		FC6
301	11-24	200P / 210P	Turner	4.0	1.23	1.06		1.3		.6	5		FC5
302	12-6	115P / 130P	"	Two Channels				1.4		.6	9		"
303	12-15	245P / 250P	Bollinger & Turner	9.5	3.40	0.59	4.04	2.0		.6	7	0	FC6
304	12-21	220A / 240A	Hedge & Coffland	24.8	14.0	2.24	4.26	31.4		.6	12	-.03	FC24
305	12-28	346P / 400P	Coffland & Hedge	10.5	4.48	1.56	4.00	7.0		.6	9	0	"
306	12-28	400P / 415P	"	10.5	4.67	1.54	4.00	7.2		.6	11	0	"
307	1-4	146P / 154P	Turner & Bollinger	13.0	6.13	1.32	4.00	8.1		.6	9	0	FC6
308	1-13	245P / 255P	Turner	7.5	4.50	1.07	3.90	4.8		.6	8	0	FC5
309	1-19	128P / 138P	Turner & Bollinger	7.5	4.17	0.98	3.88	4.1		.6	8	0	"
310	1-27	1250P / 100 P	"	7.5	4.07	0.98	3.88	4.0		.6	8	0	"
311	2-2	300P / 315P	Turner	18.0	5.67	0.86	3.92	4.9		.6	10		"
312	2-15	1142A / 1148A	Bollinger & Turner	10.5	4.47	1.07	3.91	4.8		.6	8	0	FC6
313	2-20	1250P / 108P	Turner & Smith	85.0	509.	4.99	11.04	2540.		.6	8	+.13	FC5
314	2-21	245P / 315P	Turner & Coffland	65.0	204.	5.49	7.95	1120		.6	12	+. 5	"
315	2-26	1035A / 1055A	Turner	54.0	56.3	2.52	5.10	142.		.6	13	0	"
316	2-28	1250P / 110P	"	52.5	42.4	2.32	4.67	98.2		.6	13	0	"
317	3-2	820A / 842A	Turner & Belt	82.0	411.	6.91	10.17	284.		.6	9	-.03	"
318	3-2	855A / 910A	"	82.0	405.	6.59	10.06	267.		.6	8	-.02	"
319	3-6	940A / 1000A	Turner	53.0	82.4	2.45	4.99	202.		.6	14	0	"
320	3-11	120P / 135P	"	46.0	48.0	1.85	4.34	88.7		.6	11	0	"
321	3-16	205P / 220P	"	44.0	36.4	1.53	4.12	55.7		.6	12	0	FC5
322	3-23	240P / 300P	Turner	38.0	28.9	1.30	3.91	37.6		.6	12	0	FC5
323	3-30	230P / 250P	"	37.0	24.1	1.05		25.3		.6	14		"
324	4-8	1010A / 1030A	"	37.0	21.4	0.91		19.4		.6	14		"
325	4-13	235P / 250P	"	25.5	21.6	0.72		15.5		.6	13		"
326	4-20	245P / 300P	"	35.5	16.7	0.74		12.3		.6	11		"
327	4-26	225P / 240P	"	14.0	8.77	1.30	4.27	11.4		.6	12	0	"
328	5-4	245P / 255P	"	14.5	8.56	1.19	4.10	10.2		.6	12	0	"
329	5-18	250P / 305P	"	14.5	8.65	1.02	4.01	8.8		.6	10	0	"
330	5-26	410P / 425P	"	14.5	8.49	0.86	3.93	7.3		.6	12	0	"
331	6-2	940A / 955A	"	14.0	8.36	0.88	4.13	7.4		.6	12	0	"
332	6-14	158P / 210P	Bollinger	9.6	5.89	0.85	3.83	5.0		.6	9	0	FC6
333	6-22	118P / 128P	Turner	10.5	5.38	0.80	3.59	4.3		.6	11	0	FC5
334	7-7	503P / 510P	Bollinger	7.0	4.70	0.81	3.61	3.8		.6	6	0	FC6
335	7-19	315P / 323P	Moon	8.0	4.79	0.58	3.64	2.8		.6	8	0	FC22
336	8-3	357P / 406P	Bollinger	8.0	3.79	0.53	3.47	2.0		.6	7	0	FC6
337	8-17	310P / 319P	Bollinger & Haig	8.5	4.07	0.37		1.5		.6	8		"
338	8-31	307P / 315P	Bollinger	8.5	3.77	0.32		1.2		.6	7		"
339	9-14	442P / 450P	"	9.0	4.14	0.38		1.6		.6	7		"
340	9-28	422P / 430P	"	7.5	3.26	0.35		1.1		.6	8		"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

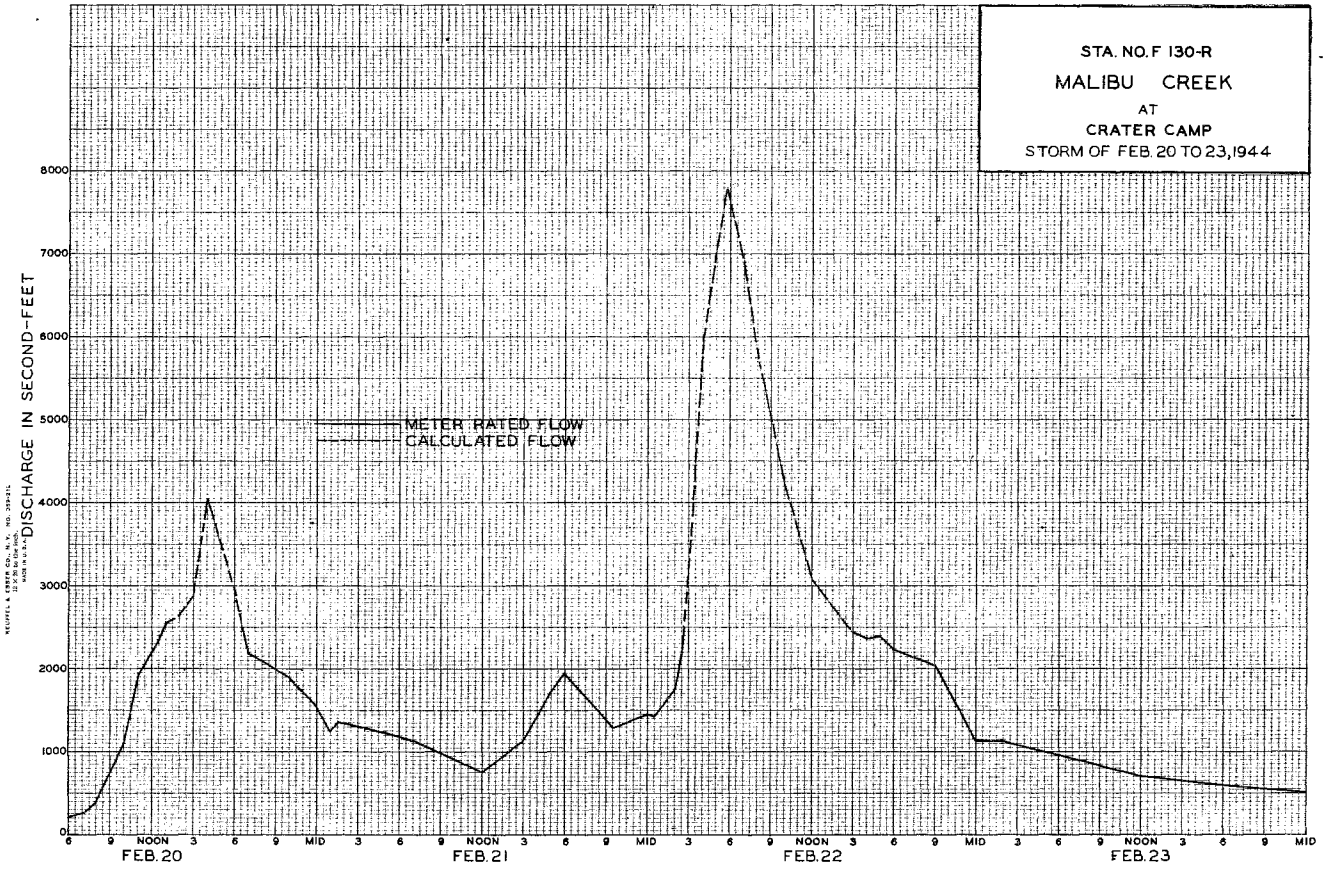
Sta. No. F130-R

Daily discharge, in second-feet of MALIBU CREEK at Crater Camp, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b 0.7	b 1.0	b 1.4	14	6	185	b 24	11	b 8	d 4.0	d 2.1	b 1.2
2	b 0.7	b 1.1	b 1.4	10	5	1840	b 23	14	b 7.5	d 4.0	d 2.0	b 1.3
3	b 0.7	b 1.1	b 1.4	8.5	7.5	556	b 22	14	b 7	d 3.9	d 2.0	b 1.3
4	b 0.7	b 1.1	b 1.4	8	12	412	b 22	12	b 7	d 3.9	d 2.0	b 1.3
5	b 0.7	b 1.1	b 1.4	8	7.5	f 396	b 21	10	b 7	d 3.9	d 1.9	b 1.3
6	b 0.7	b 1.1	b 1.4	7	6	f 213	b 20	8.5	b 6.5	d 3.8	d 1.9	b 1.4
7	b 0.7	b 1.1	b 1.4	7	5.5	160	b 20	9.5	b 6.5	d 3.8	d 1.9	b 1.4
8	b 0.7	b 1.1	b 1.4	6	6	133	b 19	9.5	b 6	d 3.7	d 1.8	b 1.4
9	b 0.7	b 1.1	b .57	7	7	116	b 19	12	b 6	d 3.6	d 1.8	b 1.5
10	b 0.7	b 1.1	b 1.2	6	6	102	b 18	13	b 6	d 3.5	d 1.8	b 1.5
11	b 0.7	b 1.1	b .50	6	5.5	90	b 17	13	b 5.5	d 3.5	d 1.7	b 1.5
12	b 0.7	b 1.2	b 11	5.5	5.5	82	b 17	14	b 5.5	d 3.4	d 1.7	b 1.5
13	b 0.7	b 1.2	2.6	5	5	75	b 16	14	b 5	d 3.3	d 1.6	b 1.6
14	b 0.7	b 1.2	b 2.0	6	5	70	b 15	11	b 5	d 3.2	d 1.6	b 1.6
15	b 0.7	b 1.2	b 2.0	5.5	5	62	b 15	11	b 4.9	d 3.1	d 1.6	b 1.6
16	b 0.7	b 1.2	2.0	4.4	5	54	b 14	11	b 4.8	d 3.1	d 1.5	b 1.5
17	b 0.7	b 1.2	2.0	5	5	57	b 14	10	b 4.7	d 3.0	d 1.5	b 1.5
18	b 0.7	b 1.2	7	5	5	50	b 13	9.5	b 4.7	d 2.9	d 1.5	b 1.5
19	b 0.7	b 1.2	5.5	4.4	40	47	b 13	9.5	b 4.6	d 2.8	d 1.5	b 1.4
20	b 0.7	b 1.3	60	5	1560	44	b 12	8.5	b 4.5	d 2.8	d 1.4	b 1.4
21	b 0.7	b 1.3	44	5.5	1310	43	b 12	10	b 4.4	d 2.7	d 1.4	b 1.3
22	b 0.7	b 1.3	14	5.5	3400	39	b 12	11	b 4.3	d 2.6	d 1.4	b 1.3
23	b 0.7	b 1.3	14	5.5	782	38	b 12	10	b 4.3	d 2.6	d 1.4	b 1.3
24	b 0.7	b 1.3	14	5.5	384	b 36	b 12	8.5	b 4.2	d 2.5	d 1.4	b 1.2
25	b 0.7	b 1.3	14	5.5	210	b 34	b 11	8	b 4.2	d 2.5	d 1.3	b 1.2
26	b 0.7	b 1.3	12	3.8	161	b 32	11	7.5	b 4.2	d 2.4	d 1.3	b 1.2
27	b 0.7	b 1.3	8.5	3.8	131	b 31	29	12	b 4.1	d 2.4	d 1.3	b 1.1
28	b 0.8	b 1.3	7	3.8	102	b 29	22	9.5	b 4.1	d 2.3	d 1.3	b 1.1
29	b 0.8	b 1.3	20	3.8	92	b 27	14	7.5	b 4.1	d 2.3	d 1.2	b 1.1
30	b 0.9	b 1.4	17	5.5		b 25	11	7.5	b 4.0	d 2.2	d 1.2	b 1.1
31	b 0.9		22	7		b 25		7.5		d 2.2	d 1.2	
	22.3	36.0	410.8	188.5	82815	5103	500	324.0	158.6	95.9	49.2	40.6
MEAN	0.72	1.20	13.2	6.08	286.	165.	16.7	10.5	5.29	3.09	1.59	1.4
ACRE-FEET	44.	71.	815.	374.	16,430.	10,120.	992.	643.	315.	190.	98.	81.

Remarks:

YEAR OR PERIOD — MEAN 41.6 — ACRE-FEET 30,170.



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STATION F22-R

MONROVIA CREEK above Sawpit Creek

LOCATION:

Water-stage recorder, lat. 34°10'28", long. 117°59'22", on the right (south) bank of Monrovia Creek 200 feet upstream from Sawpit Creek, and about 2.5 miles north of Monrovia. Elevation of zero gage height, 1252.70 feet.

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, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

Monrovia pipe line diverts water above gage.

RECORDS AVAILABLE:

November 10, 1927 to September 30, 1944

EXTREMES OF DISCHARGE:

1943-1944
Maximum 97 second-feet, February 22.
Minimum flow less than 0.03 second-feet.
1927-1944
Maximum discharge not determined.
Maximum discharge of record, 109 second-feet, April 8, 1935.
Minimum no flow at various times.

ACCURACY:

Good.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F22-R

DISCHARGE MEASUREMENTS OF MONROVIA CREEK

AT NEAR above Sawpit Creek 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.
469	10-1	904A / 905A	Moon	1.0	0.04	1.00	3.60	0.04		.6	2	0	F022
470	10-8	1010A / 1011A	"	1.0	0.05	0.80	3.60	0.04		.6	2	0	"
471	10-15	816A / 818A	"	1.0	0.04	1.00	3.58	0.04		.6	2	0	"
472	10-22	935A / 936A	"	1.0	0.04	1.00	3.58	0.04		.6	2	0	"
473	10-29	936A / 937A	"	1.2	0.06	0.83	3.60	0.05		.6	2	0	"
474	11-4	220P / 221P	"	1.0	0.05	0.80	3.58	0.04		.6	2	0	"
475	11-12	135P / 137P	"	1.0	0.04	0.75	3.57	0.03		.6	2	0	"
476	11-19	916A / 917A	"	1.0	0.05	0.80	3.58	.04		.6	2	0	"
477	11-26	120P / 121P	"	1.2	0.06	0.67	3.58	0.04		.6	2	0	"
478	12-2	430P / 432P	"	1.2	0.6	0.67	3.58	0.04		.6	2	0	"
479	12-10	933A / 934A	"	1.4	0.12	0.67	3.71	0.08		.6	2	0	"
480	12-11	757A / 802A	Moon & Stunden	3.5	0.71	1.55	3.87	1.1		.6	5	0	"
481	12-16	351P / 352P	Moon	2.0	0.18	0.89	3.67	0.16		.6	2	0	"
482	12-20	931A / 935A	Moon & Stunden	4.0	0.84	1.67	3.87	1.4		.6	4	0	"
483	12-22	251P / 252P	Moon	2.0	0.18	0.67	3.70	0.12		.6	2	0	"
484	12-29	320P / 323P	Moon & Stunden	2.0	0.10	0.60	3.67	0.06		.6	2	0	"
485	1-7	835A / 836A	Moon	1.8	0.14	0.57	3.66	0.08		.6	2	0	"
486	1-14	851A / 852A	"	1.6	0.12	0.50	3.65	0.06		.6	2	0	"
487	1-27	346P / 347P	"	1.6	0.12	0.33	3.64	0.04		.6	2	0	"
488	2-4	951A / 952A	"	1.6	0.12	0.50	3.65	0.06		.6	2	0	"
489	2-18	941A / 942A	"	1.0	0.05	0.60	3.66	0.03		.6	2	0	"
490	2-20	1005P / 1009P	Moon & Stunden	5.0	1.42	1.55	3.91	2.2		.6	5	-.01	"
491	2-21	1213P / 1216P	"	4.5	1.19	1.51	3.87	1.8		.6	5	0	"
492	2-23	1214P / 1219P	Moon & Stunden	10.0	4.35	1.50	4.02	6.8		.6	7	-.01	F02
493	2-24	550P / 554P	"	6.0	3.10	0.94	3.85	2.9		.6	6	0	"
494	3-1	320P / 324P	Moon	3.0	0.68	1.18	3.77	0.80		.6	4	0	"
495	3-2	410A / 415A	Moon & Stunden	10.0	4.6	1.89	4.03	8.7		.6	5	0	"
496	3-3	305P / 315P	Stunden & Moon	7.0	3.40	0.68	3.85	2.3		.6	6	0	"
497	3-9	417P / 420P	Moon	3.0	0.65	1.2	3.76	0.78		.6	3	0	"
498	3-16	412P / 416P	"	2.5	0.30	1.03	3.68	0.31		.6	3	0	"
499	3-24	1251P / 1253P	"	1.4	0.14	1.00	3.58	0.14		.6	2	0	"
500	4-1	1041A / 1043A	"	1.5	0.15	0.87	3.56	0.13		.6	2	0	"
501	4-7	144P / 145P	"	1.0	0.08	0.88	3.53	0.07		.6	2	0	"
502	4-13	400P / 402P	"	1.3	0.10	0.80	3.53	0.08		.6	2	0	"
503	4-20	421P / 422P	"	1.0	0.09	0.89	3.51	0.08		.6	2	0	"
504	4-28	1125A / 1129A	"	2.5	0.31	1.10	3.62	0.34		.5	4	0	"
505	5-4	342P / 344P	"	1.2	0.08	0.75	3.53	0.06		.5	2	0	"
506	5-19	420P / 422P	Moon	1.2	0.08	0.50	3.51	0.04		.5	2	0	F035
507	6-2	1050A	"				3.55	0.08	V	Notch Weir			
508	6-16	1030A	"				3.53	0.08		"			
509	6-23	230P	Haig				3.56	0.07		"			
510	7-7	900A	Moon				3.50	0.05		"			
511	7-12	305P	"				3.51	0.05		"			
512	7-27	216P	"				3.53	0.05		"			
513	8-10	130P	"				3.52	0.05		"			
514	8-24	220P	"				3.50	0.04		"			
515	9-7	220P	"				3.50	0.03		"			
516	9-21	1235P	Moon				3.50	0.05	V	Notch Weir			

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

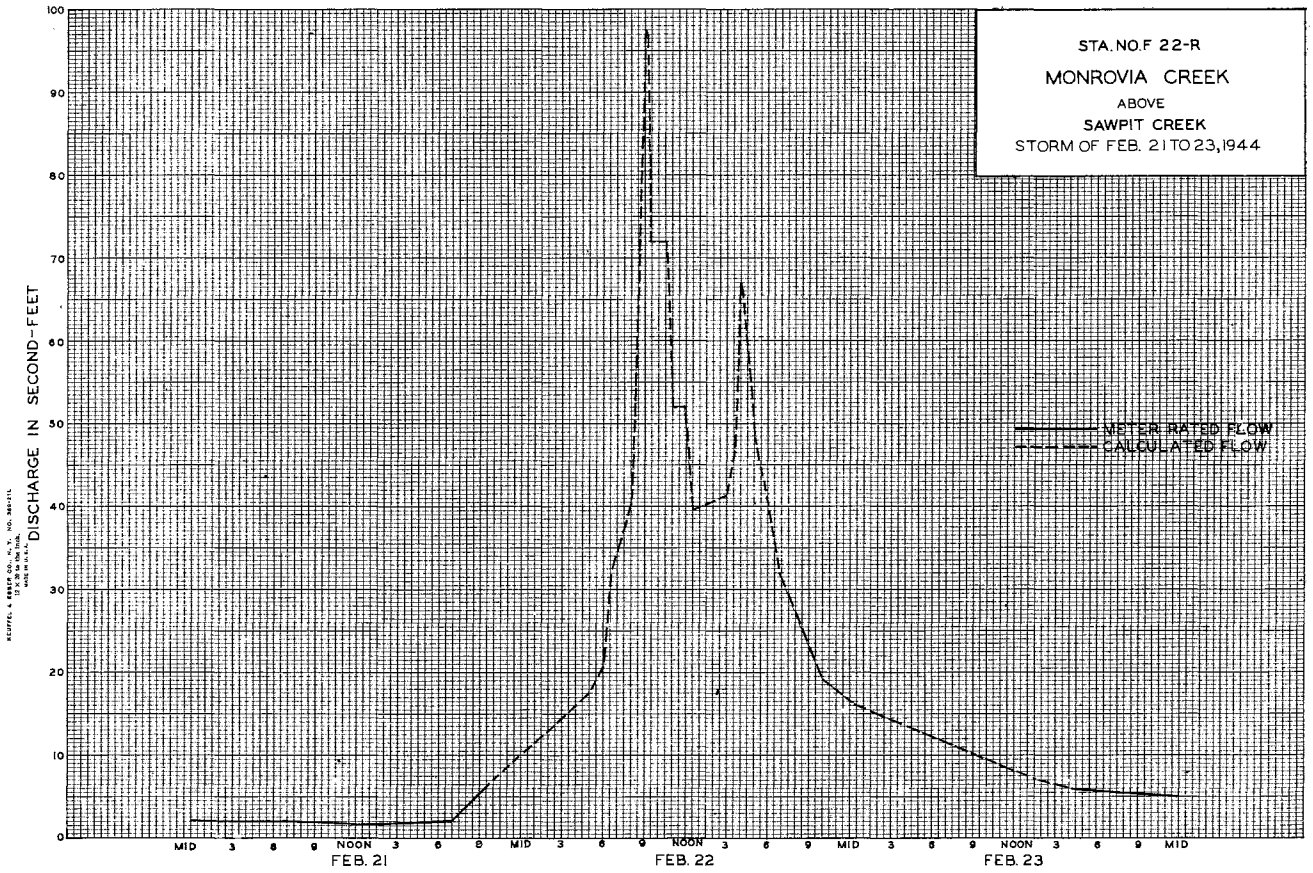
Sta. No. F22-R

Daily discharge, in second-feet of MONROVIA CREEK above Sawpit Creek, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.04	0.04	0.04	0.1	0.1	1.4	0.2	0.1	0.1	0.05	0.05	0.03
2	0.04	0.04	0.04	0.1	0.1	7	0.2	0.1	0.1	0.1	0.05	0.03
3	0.04	0.04	0.04	0.1	0.1	3.5	0.1	0.1	0.1	0.05	0.05	0.03
4	0.04	0.04	0.04	0.1	0.1	2.6	0.1	0.1	0.1	0.04	0.05	0.03
5	0.04	0.04	0.1	0.1	0.1	2.2	0.1	0.1	0.05	0.04	0.05	0.03
6	0.04	0.04	0.1	0.1	0.05	1.7	0.1	0.1	0.1	0.05	0.05	0.03
7	0.04	0.04	0.1	0.1	0.1	1.5	0.1	0.1	0.1	0.05	0.05	0.04
8	0.04	0.04	0.1	0.1	0.1	1.4	0.1	0.1	0.1	0.1	0.05	0.04
9	0.30	0.04	0.1	0.1	0.1	1.0	0.1	0.1	0.1	0.1	0.05	0.1
10	0.20	0.04	0.1	0.1	0.05	1.0	0.1	0.1	0.1	0.05	0.05	0.1
11	0.03	0.03	0.1	a 0.1	0.05	0.8	0.1	0.05	0.1	0.05	0.05	0.1
12	0.03	0.03	0.5	a 0.1	0.05	0.8	0.1	0.04	0.1	0.05	0.1	0.1
13	0.04	0.03	0.4	a 0.1	0.04	0.7	0.1	0.03	0.1	0.05	0.1	0.1
14	0.04	0.03	0.3	a 0.1	0.04	0.6	0.1	0.03	0.1	0.05	0.1	0.1
15	0.04	0.03	0.3	a 0.1	0.04	0.5	0.1	0.03	0.1	0.05	0.05	0.1
16	0.04	0.03	0.2	a 0.1	0.04	0.5	0.1	0.02	0.1	0.04	0.05	0.1
17	0.04	0.04	0.2	a 0.1	0.03	0.3	0.1	0.01	0.1	0.03	0.05	0.1
18	0.05	0.04	0.2	a 0.1	0.03	0.3	0.1	0.03	0.1	0.03	0.1	0.5
19	0.05	0.05	1.9	a 0.5	0.04	0.3	0.1	0.04	0.1	0.03	0.1	0.1
20	0.04	0.05	1.7	a 0.5	1.4	0.5	0.1	0.05	0.1	0.03	0.05	0.05
21	0.04	0.1	1.2	a 0.5	2.9	0.3	0.1	0.1	0.04	0.04	0.04	0.05
22	0.04	0.1	0.1	a 0.5	3.5	0.2	0.1	0.1	0.03	0.1	0.04	0.05
23	0.04	0.1	0.1	a 0.5	9	0.2	0.1	0.05	0.03	0.05	0.04	0.05
24	0.04	0.1	0.1	a 0.5	4.0	0.2	0.2	0.05	0.03	0.05	0.04	0.05
25	0.04	0.1	0.1	a 0.5	2.2	0.2	0.2	0.05	0.03	0.05	0.04	0.05
26	0.04	0.05	0.1	a 0.5	1.5	0.2	0.2	0.1	0.04	0.05	0.04	0.05
27	0.04	0.04	0.1	a 0.5	1.1	0.2	0.8	0.1	0.04	0.05	0.04	0.05
28	0.05	0.04	0.1	0.5	0.6	0.2	0.4	0.1	0.04	0.05	0.04	0.05
29	0.05	0.04	0.1	0.5	0.3	0.2	0.2	0.1	0.04	0.1	0.04	0.1
30	0.05	0.04	0.1	0.5		0.2	0.2	0.1	0.05	0.1	0.04	0.1
31	0.05		0.1	0.1		0.2		0.1		0.05	0.04	
	1.25	1.47	8.76	2.5	59.3	30.8	4.7	2.28	2.32	1.73	1.69	1.96
Mean	0.04	0.05	0.28	0.08	2.04	0.99	0.16	0.07	0.08	0.06	0.05	0.07
Acre-Feet	2.5	2.9	17.	5.0	118.	61.	9.3	4.5	4.6	3.4	3.4	4.8

Remarks:

Year or Period: Mean 0.32; Acre-Feet 236.



STATION F195-R

MONROVIA STORM DRAIN at Peck Road

LOCATION:

Water-stage recorder, lat. 34°07'27", long. 118°00'13", 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. Elevation of gage, about 387 feet (from topographic map).

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, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

April 25, 1932 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 828 second-feet, February 22.
Minimum no flow most of the year.
1932-1944
Maximum 1,200 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 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F195-R

DISCHARGE MEASUREMENTS OF MONROVIA STORM DRAIN

~~Near~~ Peck Road 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
14	12-11	842A / 845A	Moon & Stunden	2.8	0.36	0.86	0.55	0.31		.6	3	-.01	FC22
15	12-28	243P / 245P	Moon	2.0	0.08	1.00	0.50	0.08		.6	2	-.01	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

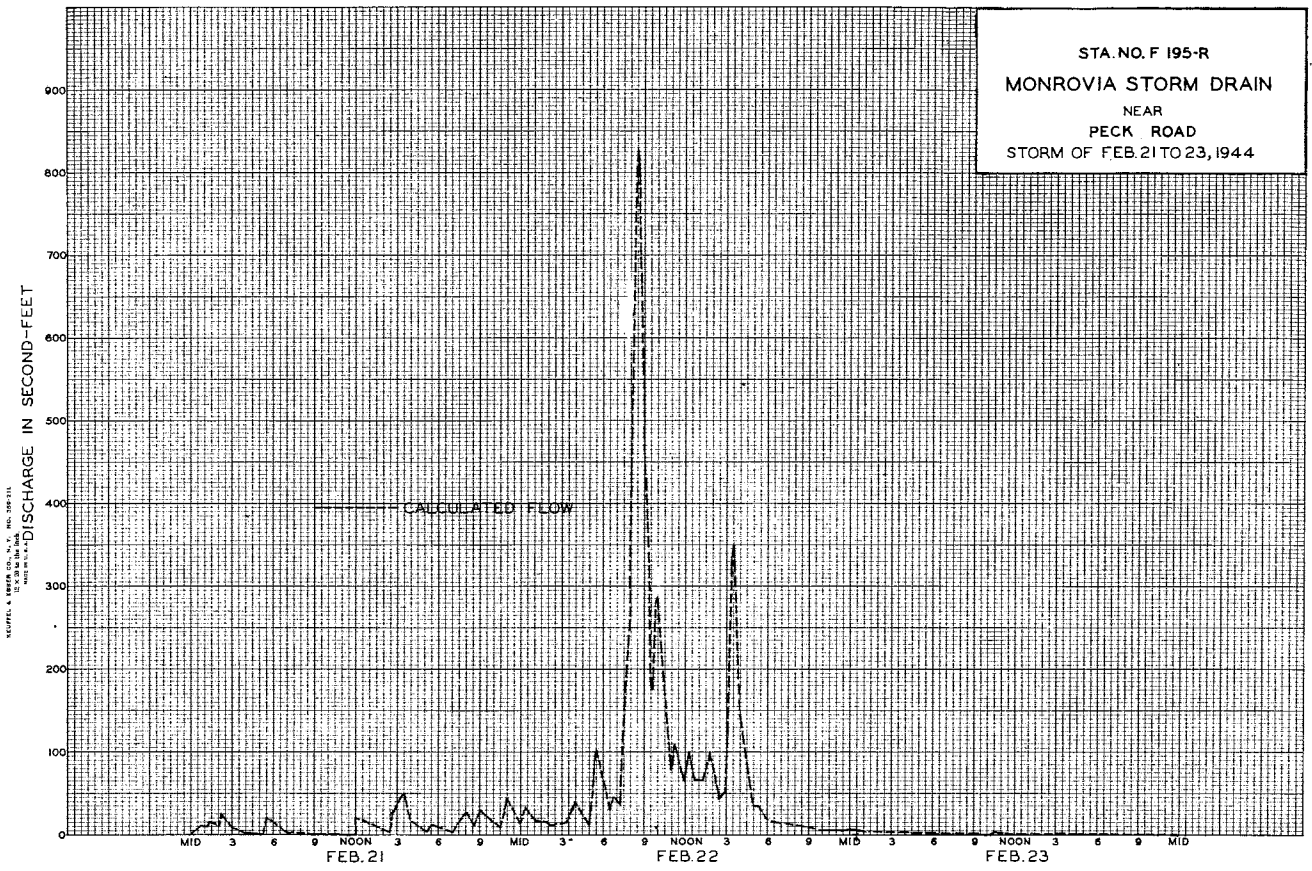
Sta. No. F195-R

Daily discharge, in second-feet of MONROVIA STORM DRAIN at Peck Road, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	15	0	0	0	0	0	0
2	0	0	0	0	0	5.5	0	0	0	0	0	0
3	0	0	0	0	3.7	0	0	0	0	0	0	0
4	0	0	0	0	2.5	1.9	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	1.8	2.0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	1.7	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	1.0	0	0	0	0	0	0	0	0	0
11	0	0	3.2	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	0.8	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	8.5	0	0	0	0	0	0	0	0	0
19	0	0	3.6	0	0.6	0	0	0	0	0	0	0
20	0	0	1.8	0	2.3	0	0	0	0	0	0	0
21	0	0	0	0	12	0	0	0	0	0	0	0
22	0	0	0	0	8.8	0	0	0	0	0	0	0
23	0	0	0	0	1.1	0	0	0	0	0	0	0
24	0	0	0	0	0.2	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	1.1	0	0	0	0	0	0	0
27	0	0	0	0	0	0	10	0	0	0	0	0
28	0	0	0.9	0	0	0	0	0	0	0	0	0
29	0	0	4.3	0	0	0	0	0	0	0	0	0
30	0	0	4.5	0		0	0	0	0	0	0	0
31	0		+	0		0		0		0		
	0	0	87.2	2.0	134.7	22.4	10	0	0	0	0	0
MEAN	0	0	2.81	0.06	4.64	.72	0.33	0	0	0	0	0
ACRE-FEET	0	0	173.	4.0	267.	44.	20.	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.70
ACRE-FEET 508.



STATION F181-R

MONTEBELLO STORM DRAIN above Rio Hondo

LOCATION:

Water-stage recorder, lat. 34°00'08", long. 118°06'14", 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. Elevation of zero gage height, 161.97 feet.

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, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,040 second-feet, February 22.
Minimum 0.1 second-foot at various times.
1931-1944
Maximum 1,400 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Poor due to extreme draw down in stilling well.
Low flows usually estimated due to communication being obstructed by sand.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F181-R

DISCHARGE MEASUREMENTS OF MONTEBELLO STORM DRAIN

~~At~~ above Rio Hondo 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	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
124	10-18	950A / 958A	Bonadiman	14.0	4.33	3.09	0.44	13.4		.6	6	-.02	FC19
125	12-10	731A / 739A	"	14.0	8.94	3.51	0.57	31.3	Surf.	6		0	
126	12-11	652A / 700A	"	14.0	5.27	4.92	0.50	25.9		.6	6	0	FC19
127	12-18	436A / 445A	Bonadiman & Keith	14.0	7.55	4.02	0.51	30.5		.6	6	0	"
128	12-19	836A / 848A	Bonadiman	14.0	9.40	5.83	0.73	54.7	Surf. &	.6	6	+.04	FC19
129	12-20	1045P / 1052P	Bonadiman & Keith	14.0	14.90	6.56	0.77	97.9		.6	6	0	"
130	12-28	111P / 120P	Bonadiman	14.0	8.77	5.03	0.68	44.1	Surf.	.6	6	-.07	
131	12-29	700A / 703A	Bonadiman & Keith	14.0	10.3	5.93	0.75	61.8	Surf. &	.6	6	0	FC19
132	12-30	415P / 423P	Bonadiman	14.0	7.40	5.27	0.66	39.0	Surf.	.6		-.08	
133	2-20	241A / 247A	Bonadiman & Keith	14.0	26.3	9.66	1.60	216.		.6	6	0	FC19
134	2-20	248A / 255A	"	14.0	25.4	9.68	1.61	209.		.6	6	+.02	"
135	2-22	448A / 456A	"	14.0	20.6	8.40	1.42	173.		.6	6	-.05	"
136	2-22	457A / 501A	"	14.0	19.9	8.44	1.43	168.		.6	6	+.06	"
137	2-26	1140P / 150P	Bonadiman	14.0	21.1	8.15	1.61	172.		.6	6	+.05	"
138	2-26	152P / 207P	"	14.0	21.0	8.14	1.63	171.		.6	6	+.01 -.02	"
139	2-26	211P / 220P	"	14.0	20.3	7.98	1.59	162.		.6	6	-.02	"
140	2-26	225P / 234P	"	14.0	20.1	8.17	1.57	165.		.6	6	-.03	"
141	2-26	245P / 251P	"	14.0	18.7	7.54	1.39	141.		.6	6	-.10	"
142	2-26	304P / 311P	"	14.0	16.1	7.26	1.17	117.		.6	6	-.14	"
143	2-26	314P / 320P	"	14.0	13.7	6.85	0.99	93.9		.6	6	-.06	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

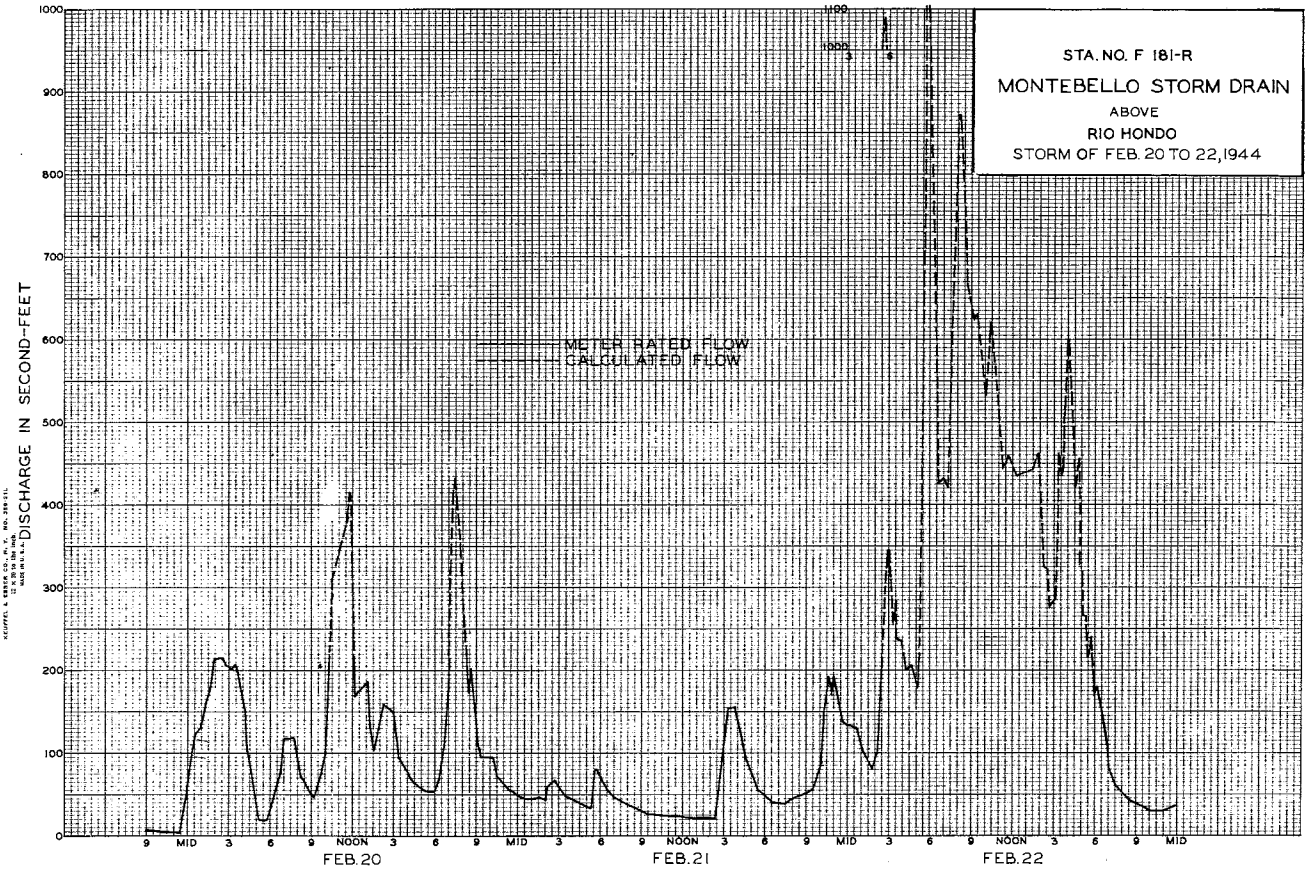
Sta. No. F181-R

Daily discharge, in second-feet of MONTEBELLO STORM DRAIN above Rio Hondo ..., for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.9	0.7	0.3	0.7	82	1.5	0.5	a 0.3	a 0.1	a 0.1	a 0.1
2	0.5	0.7	0.3	0.3	0.7	73	1.5	0.7	0.3	a 0.1	a 0.1	a 0.1
3	0.5	1.1	0.3	1.9	3.1	5.5	1.7	0.7	0.5	a 0.1	a 0.1	a 0.1
4	0.5	0.9	0.3	b 0.1	2.8	48	1.9	0.3	0.7	a 0.1	a 0.1	a 0.1
5	0.5	0.9	0.5	1.0	0.3	1.9	1.9	0.5	0.7	a 0.1	a 0.1	a 0.1
6	0.7	0.7	7.5	6.5	0.3	5.5	2.1	0.3	0.7	a 0.1	a 0.1	a 0.1
7	0.7	0.9	0.1	0.3	0.3	5.0	1.9	0.3	0.7	a 0.1	a 0.1	a 0.1
8	0.7	0.7	0.1	b 0.1	3.7	0.5	2.1	0.3	0.7	a 0.1	a 0.1	a 0.1
9	0.7	0.9	1.1	b 0.1	0.7	1.5	2.1	0.3	0.9	a 0.1	a 0.1	a 0.1
10	0.9	0.9	22	b 0.1	b 0.1	1.7	2.3	0.3	0.9	a 0.1	a 0.1	a 0.1
11	0.9	1.1	12	b 0.1	0.3	1.5	2.3	0.3	1.3	a 0.1	a 0.1	a 0.1
12	1.1	1.3	1.3	0.3	0.3	1.3	2.1	0.3	0.9	a 0.1	a 0.1	a 0.1
13	1.1	1.3	0.5	0.3	0.1	0.7	2.3	0.3	1.1	a 0.1	a 0.1	a 0.1
14	1.3	1.3	0.9	0.5	0.7	1.1	2.3	0.3	1.1	a 0.1	a 0.1	a 0.1
15	1.3	1.3	0.1	0.7	3.9	1.5	2.8	0.7	1.1	a 0.1	a 0.1	a 0.1
16	1.5	1.3	0.1	0.9	0.5	1.5	2.8	0.7	1.1	a 0.1	a 0.1	a 0.1
17	0.9	1.7	0.1	0.9	3.3	1.5	2.8	0.5	0.9	a 0.1	a 0.1	a 0.1
18	2.3	0.9	12	0.9	0.5	1.5	2.3	0.3	0.9	a 0.1	a 0.1	a 0.1
19	b 0.1	0.9	20	1.1	4.0	1.5	2.3	0.3	0.9	a 0.1	a 0.1	a 0.1
20	b 0.1	0.9	v 20	1.1	v138	1.5	2.3	a 0.3	0.9	a 0.1	a 0.1	a 0.1
21	0.7	0.9	4.1	1.1	v 59	1.5	2.1	a 0.3	1.1	a 0.1	a 0.1	a 0.1
22	0.5	0.9	0.3	1.3	v323	1.3	2.1	a 0.3	0.9	a 0.1	a 0.1	a 0.1
23	0.5	0.9	b 0.1	2.1	9.5	1.1	2.1	a 0.3	1.1	a 0.1	a 0.1	a 0.1
24	0.5	1.1	b 0.1	1.5	1.5	1.3	2.1	a 0.3	0.9	a 0.1	a 0.1	a 0.1
25	0.9	1.1	b 0.1	1.9	1.9	1.3	2.1	a 0.3	0.9	a 0.1	a 0.1	a 0.1
26	0.7	0.7	b 0.1	0.3	v 24	1.1	2.8	a 0.3	a 0.1	a 0.1	a 0.1	a 0.1
27	0.9	0.7	b 0.1	0.7	4.1	1.1	16	a 0.3	a 0.1	a 0.1	a 0.1	a 0.1
28	0.9	0.7	6	0.3	1.7	1.7	0.9	a 0.3	a 0.1	a 0.1	a 0.1	a 0.1
29	1.1	0.7	v 20	0.3	1.5	1.7	b 0.1	a 0.3	a 0.1	a 0.1	a 0.1	a 0.1
30	0.7	0.7	14	0.7		1.7	b 0.1	a 0.3	a 0.1	a 0.1	a 0.1	
31	0.9		3.2	0.9		1.5		a 0.3		a 0.1	a 0.1	
	24.9	29.0	148.0	27.0	590.5	270.4	73.7	11.5	22.0	3.1	3.1	3.0
MEAN	.80	.97	4.78	.87	20.4	8.72	2.46	.37	.10	.10	.10	.10
ACRE-FEET	49.	58.	294.	54.	1170.	536.	146.	23.	44.	6.1	6.1	6.0

Remarks:

YEAR OR PERIOD MEAN 3.30
ACRE-FEET 2390.



STATION F118B-R

PACOIMA CREEK below Pacoima Dam

LOCATION:

Water-stage recorder, lat. 34°20'07", long. 118°23'50", 4 miles northeast of San Fernando, and about 500 feet downstream from Pacoima Dam; former Station F118-R was approximately 450 feet downstream. Former Station U13-R was approximately 0.5 mile downstream. Elevation of gage, about 1,650 feet (from topographic map).

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 rubble and concrete flume.
A 90° 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 F118-R 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.
An H.C.F. continuous recorder was in service from October 1, 1943 to September 30, 1944.

REGULATION:

Regulated by Pacoima Dam.
Stations F118-R and F118B-R do not include spillway discharge.
Station U13-R 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 U13-R, 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 F118-R
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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 326 second-feet, March 2 and 3.
Minimum no flow at various times.
1929-1944 (Stations F118-R, F118B-R, and Parshall Flume and dam records)
Maximum 685 second-feet, March 2, 1938.
Maximum 2,060 second-feet, March 3, 1938 including Spillway Discharge.
Minimum no flow at various times.
1916-1929 (Station U13-R)
Maximum 1,860 second-feet, February 16, 1927.
Minimum no flow at various times.

ACCURACY:

Good.

OPERATION:

Located, constructed, and operated by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey, Water Resources Branch.

REMARKS:

Flow over Pacoima Dam Spillway from May 18 to 26, 1944 does not pass F118B-R:

MONTH	DAY	SECOND FEET
May	18	10
"	19	6.5
"	20	6.5
"	21	0.3
"	22	10.
"	23	32.
"	24	19.
"	25	12.
"	26	0.8

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F118B-R

DISCHARGE MEASUREMENTS OF PACOIMA CREEK

~~at~~ below Pacoima Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.	D. HT. CHANGE TOTAL	METER NO.
144	10-1	1000A	Luce					4.7	90° V Notch Weir				
145	10-8	415P	"					4.2	"				
146	10-14	1020A	Blakely					5.4	"				
147	10-22	1230P	Luce					3.8	"				
148	10-29	230P	"					3.7	"				
149	11-5	340P	"					2.5	"				
150	11-8	810A / 815A	"	4.0	1.12	0.72	0.02	0.8	.6	4	0		FC39
151	11-16	305P / 310P	"	Two Channels			0.06	2.6	.6	5	0		"
152	11-26	320P / 325P	"	3.5	0.43	0.60		0.26	.6	4	0		"
153	12-3	427P / 443P	"	3.5	0.77	0.80	0.01	0.61	.6	5	0		"
154	12-21	245P / 325P	"	10.0	26.3	11.5	2.63	302.	Float	4	0		
155	12-27	1220P / 1223P	"	10.0	26.5	9.36	2.55	248.	Float				
156	12-27	1255P / 118P	"	9.92	11.5	8.78	1.23	101.	.6	8	0		FC39
157	12-29	112P / 128P	"	9.92	10.9	8.82	1.22	96.1	.6	6	0		"
158	2-11	1115A / 1125A	"	9.98	1.77	6.16	0.15	10.9	.6	7	0		"
159	2-17	1245P	Moore					4.9	90° V Notch Weir				
160	2-23	135P / 150P	Luce & Hemphill	9.98	26.0	10.8	2.80	280.	Surf.	6	0		FC39
161	2-25	940A / 955A	Luce	9.98	19.1	9.95	2.06	190.	.6	7	0		"
162	2-28	1115A / 1125A	"	9.98	18.7	9.73	2.01	182.	.6	7			"
163	2-29	1140A / 1155A	"	9.98	15.4	9.94	1.69	153.	.6	7			"
164	3-2	740A / 755A	Luce & Hemphill	9.98	25.0	11.7	2.72	293.	Float	7			
165	3-2	700P / 710P	"	9.98	32.2	11.4	3.22	366.	Float				
166	3-7	430P / 440P	Luce	9.98	22.1	10.4	2.43	231.	.6	7			FC13
167	3-7	510P / 525P	"	9.98	15.4	9.8	1.68	151.	.6	7	0		"
168	3-10	400P / 420P	Luce	9.98	11.5	9.74	1.28	112.	.6	7	0		FC39
169	3-17	225P / 234P	"	9.98	11.2	9.2	1.23	103.	.6	7	0		"
170	3-24	1140A	Luce					2.9	90° V Notch Weir				
171	4-1	315P	"					0.16	"				
172	4-7	505P	"					0.20	"				
173	4-14	310P	"					0.23	"				
174	4-21	1115A	"					0.28	"				
175	4-29	1010A	"					0.31	"				
176	5-5	335P	"					0.36	"				
177	5-12	400P	"					0.40	"				
178	5-19	510P	"					0.46	"				
178A	5-26	915A / 932A	Luce & Turner	9.98	22.7	11.2	2.43	253.	.6	7	0		FC39
179	5-28	910A / 925A	Turner	10.0	16.7	10.0	1.78	167.	.6	7	0		FC5
180	5-29	857A / 915A	"	10.0	12.9	9.38	1.40	121.	.6	7	0		"
181	5-29	1135A / 1153A	"	10.0	14.8	9.46	1.58	140.	.6	7	0		"
182	6-5	820A / 835A	"	10.0	16.0	9.81	1.75	157.	.6	7	0		"
183	6-9	840A / 855A	"	10.0	17.6	10.1	1.86	177.	.6	7	0		"
184	6-10	432P / 444P	"	10.0	3.57	7.11	0.38	25.4	.5	7	0		"
185	6-12	300P / 325P	Bollinger	10.0	2.56	6.88	0.27	17.6	.6	10	0		FC6
186	6-22	320P	Luce					0.12	90° V Notch Weir				
187	7-6	420P	"					1.7	"				
188	7-13	210P	"					2.4	"				
189	7-20	145P	"					1.1	"				
190	7-27	845A	"					1.0	"				
191	8-4	830A	Turner					0.97	Weir				
192	8-10	240P	Luce					0.99	"				
193	8-17	430P	"					0.01	"				
194	8-24	350P	"					1.18	"				
195	8-31	300P	"					0.84	"				
196	9-7	445P	"					0.84	"				
197	9-14	1100A	"					0.76	"				
198	9-26	1000A	"					0.67	"				

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F118B-R

Daily discharge, in second-feet of PACOIMA CREEK FLUME below Pacoima Dam, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	3.0	d 0.8	d 0	d 6.7	129	0.1	0.3	166	4.8	1.0	0.8
2	4.7	2.9	d 0.6	d 0	0	240	0.2	0.3	163	4.0	1.0	0.8
3	4.6	2.8	d 0.6	d 8.2	d 1.2	305	0.2	0.3	161	2.3	1.0	0.8
4	4.6	2.6	d 0.6	d 4.0	0	188	0.2	0.4	159	1.8	1.0	0.8
5	4.6	2.5	d 0.6	d 19.2	0	186	0.2	0.4	156	1.7	1.0	0.8
6	4.3	2.3	d 0.5	d 14.9	d 2.3	209	0.2	0.4	153	1.7	1.0	0.8
7	4.0	1.6	d 0.3	d 21	d 6.0	210	0.2	0.4	173	1.7	1.0	0.8
8	4.0	d 1.5	d 1.0	d 2.1	a 8.0	148	0.2	0.4	178	1.7	1.0	0.8
9	4.7	d 0.9	d 2.0	d 2.0	a 7.9	111	0.2	0.4	170	1.7	1.0	0.8
10	4.7	d 0	d 1.0	d 1.8	a 9.4	108	0.2	0.4	78	1.7	1.0	0.8
11	5.5	d 0	d 1.0	d 28	a 9.3	105	0.2	0.4	29	1.7	1.0	0.8
12	5.5	d 0	d 1.2	d 16	a 3.5	106	0.2	0.4	36	2.3	0.3	0.8
13	4.8	d 0	d 2.1	d 4.5	a 6.6	106	0.2	0.4	16	2.4	0.1	0.8
14	d 3.1	d 0	d 0.6	d 4.4	a 8.8	106	0.2	0.4	7.1	3.0	+	0.7
15	1.7	d 0.9	d 0.4	d 0	a 6.0	106	0.2	0.4	d 0.2	3.0	+	0.7
16	5.1	d 1.0	d 0.8	d 0	a 6.0	104	0.2	0.4	d 0.8	2.9	+	0.2
17	4.9	d 0	d 1.3	d 2.8	a 7.9	a 103	0.2	0.5	d 12.6	3.2	+	0.1
18	4.6	d 1.3	d 0	d 0	a 4.8	a 64	0.2	0.5	4.8	2.4	0.5	+
19	3.7	d 2.0	d 0	d 1.4	a 5.5	a 0.3	0.3	0.5	6.7	1.8	1.1	+
20	3.5	d 1.9	d 0	d 0	a 23	a 0.3	0.3	0.5	5.8	1.4	1.2	+
21	3.0	d 1.4	d 14.1	d 1.2	73	a 0.3	0.3	6.6	2.8	1.0	1.2	+
22	3.5	d 0.7	d 0	d 0	103	a 0.3	0.3	3.1	0	1.0	1.2	0.4
23	6.8	d 0.7	d 0	d 0	275	a 0.3	0.3	0.5	d 0	1.0	1.2	0.6
24	8.6	d 1.0	d 0	d 1.9	234	a 0.3	0.3	0.5	d 0	1.0	1.2	0.7
25	7.4	d 1.0	d 0	d 0	191	a 0.3	0.3	0.5	d 0	1.0	1.2	0.7
26	6.6	d 0.4	d 0	d 24	189	0.3	0.3	168	d 36	1.0	1.2	0.7
27	6.0	d 0.2	d 0	d 1.4	187	0.3	0.4	217	d 0	1.0	1.2	0.7
28	4.7	d 0	d 4.2	d 3.6	177	0.2	0.3	160	d 0	1.0	1.2	0.7
29	3.7	d 0	d 23	d 5	150	0.1	0.3	144	d 0	1.0	1.2	0.7
30	3.5	d 1.1	d 16.3	d 0		0.1	0.3	139	3.2	1.0	1.1	0.7
31	3.3		d 14	d 3.0		0.1		151		1.0	0.8	
	144.5	33.7	117.0	170.4	1701.9	2637.2	7.2	998.3	1724.0	58.2	26.9	18.0
MEAN	4.66	1.12	3.77	5.50	58.7	85.1	0.24	32.2	57.5	1.88	0.87	0.60
ACRE-FEET	287.	67.	232.	338.	3,380.	5,230	14.	1980.	3,420.	115.	53.	36.

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

YEAR OR PERIOD MEAN 20.9
ACRE-FEET 15150.

STATION F16-R

PACOIMA WASH at Parthenia Street

LOCATION:

Water-stage recorder, lat. 34°13'42", long. 118°27'32", on the downstream side of Parthenia Street bridge approximately 3 miles northwest of Van Nuys. Elevation of zero gage height, 813.63 feet.

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, 1943 to September 30, 1944.

REGULATION:

Flow partially regulated by 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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 355 second-feet, March 1.
Minimum no flow most of year.
1929-1944
Maximum 2,400 second-feet, estimated March 3, 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 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F16-R

DISCHARGE MEASUREMENTS OF PACOIMA WASH

at Parthenia Street 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.
206	12-29	505P / 510P	Luce	15.5	4.15	2.14	5.02	8.9		.6	7	0	FC39
207	12-30	340P / 350P	"	21.5	7.83	3.94	5.07	30.9		.6	8	0	"
208	2-20	445P / 455P	Hemphill & Luce	40.0	27.8	3.96	5.33	110		.6	11	0	"
209	2-21	1032A / 1037A	"	15.0	7.14	2.69	4.75	19.2		.6	7	0	"
210	2-22	1220P / 1230P	"	29.6	23.2	2.80	4.38	64.9		.6	10	0	"
211	2-23	907A / 922A	"	74.0	56.0	4.59	5.18	257		.6	18	0	"
212	2-25	1205P / 1210P	"	30.3	21.1	4.55	4.95	96.0		.6	12	0	"
213	2-28	240P / 248P	Luce	31.0	18.7	4.29	4.78	80.3		.6	10	0	"
214	2-29	845A / 855A	"	28.5	12.7	3.44	4.70	43.7		.6	9	0	"
215	3-2	1030A / 1045A	Luce & Hemphill	69.0	51.5	4.68	4.86	241		.6	15	0	"
216	3-7	935A / 945A	Luce	31.5	26.4	4.70	5.08	124		.6	10	0	"
217	3-10	200P / 212P	"	Two Channels			4.32	3.4		.6	8	0	"
218	3-17	1045A / 1055A	"	"	"		4.53	1.8		.6	7	0	"

F. C. Disc. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

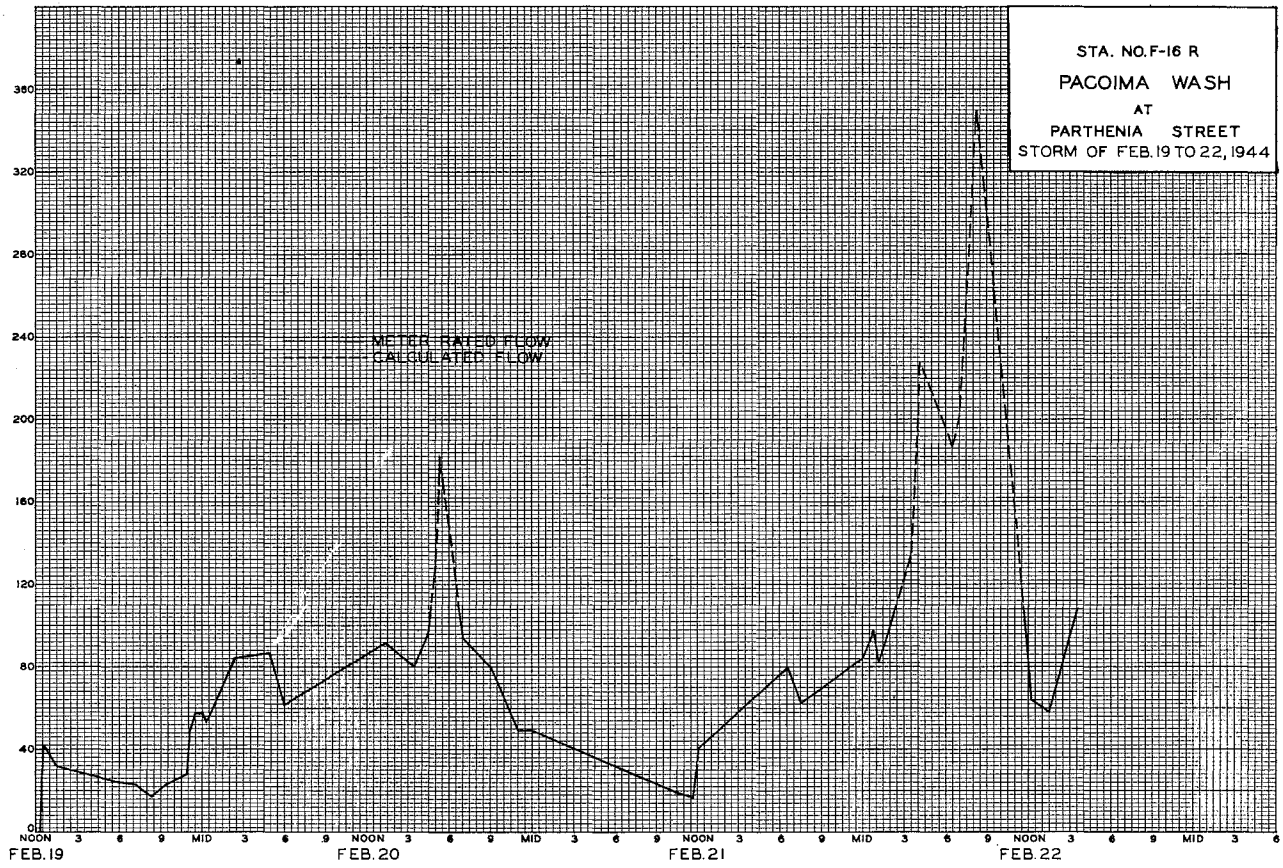
Sta. No. F16-R

Daily discharge, in second-feet of PACOIMA WASH at Parthenia Street, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	145	0	0	0	0	0	0
2	0	0	0	0	0	189	0	0	0	0	0	0
3	0	0	0	0.4	0	116	+	0	0	0	0	0
4	0	0	0	0	+	102	+	0	0	0	0	0
5	0	0	0	4.8	0	105	+	0	0	0	0	0
6	0	0	0.1	0.8	0	119	+	0	0	0	0	0
7	0	0	0	2.3	0	125	+	0	0	0	0	0
8	0	0	0	0	+	50	+	0	0	0	0	0
9	0	0	0	0	0.1	30	+	0	0.2	0	0	0
10	0	0	0.6	0	0	1.6	+	+	0.3	0	0	0
11	0	0	+	9.1	0.1	2.1	+	0	0	0	0	0
12	0	0	0	4.2	0	2.8	+	0	0	0	0	0
13	0	0	0	0	0	3.4	+	0	0	0	0	0
14	0	0	0	3.7	0.2	4.0	+	0	0	0	0	0
15	0	0	0	0	0	3.1	+	0	0	0	0	0
16	0	0	0	0	0	2.2	+	0	0	0	0	0
17	0	0	0	0	0.1	1.9	+	0	0	0	0	0
18	0	0	0.6	0	0	1.6	+	0	0	0	0	0
19	0	0	0.1	0	14	0	+	0	0	0	0	0
20	0	0	0.1	0	82	0	+	0	0	0	0	0
21	0	0	1.0	0	49	0	+	0	0	0	0	0
22	0	0	0	0	149	0	+	0.1	0	0	0	0
23	0	0	0	0	224	0	+	+	0	0	0	0
24	0	0	0	0	178	0	+	+	0	0	0	0
25	0	0	0	0	91	0	+	0	0	0	0	0
26	0	0	0	0	81	0	0	0	0	0	0	0
27	0	0	0	0	81	0	0.6	0	0	0	0	0
28	0	0	0	0	78	0	0	+	0	0	0	0
29	0	0	2.4	0	56	0	0		0	0	0	0
30	0	0	8.2	0		0	0	0	0	0	0	0
31	0		2.7	0		0		0		0	0	
	0	0	15.8	25.3	1033.5	931.7	0.6	0.1	0.5	0	0	0
MEAN	0	0	0.51	0.82	37.4	30.0	+	+	+	0	0	0
ACRE-FEET	0	0	31.	50.	2150.	1850.	1.2	.20	1.	0	0	0

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

YEAR OR PERIOD — MEAN 5.62 — ACRE-FEET 4080.



STATION F40-R

PUDDINGSTONE CREEK below Puddingstone Dam

LOCATION:

Water-stage recorder, lat. 34°05'35", long. 117°48'38", on the right (east) bank about 1000 feet below Puddingstone Dam near San Dimas. Elevation of gage, about 825 feet (from topographic map).

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, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 51 second-feet, March 2.
Minimum + at various times.
1929-1944
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 124 324 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F40-R

DISCHARGE MEASUREMENTS OF PUDDINGSTONE CREEK

~~at~~ below Puddingstone Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
371	10-7	849A / 858A	Brewster	2.5	1.68	1.19	0.47	2.0		.6	5	0	FC12
372	10-14	900A / 908A	"	2.5	1.45	0.83	0.36	1.2		.6	5	0	"
373	10-21	845A / 855A	"	2.5	1.31	0.92	0.33	1.2		.6	5	0	"
374	10-28	1204P / 1215P	"	4.0	2.89	1.21	0.63	3.5		.6	7	0	"
375	11-4	1140A / 1145A	"	1.0	0.22	0.82	0.11	0.18		.6	2	0	"
376	11-10	915A / 920A	"	1.5	0.38	1.03	0.16	0.39		.6	3	-.01	"
377	11-18	1214P / 1220P	"	2.5	1.03	0.71	0.25	0.73		.6	5	0	"
378	11-24	355P / 400P	"	1.5	0.34	0.44	0.08	0.15		.6	3	0	"
379	12-2	845A / 855A	"	3.0	2.21	1.40	0.60	3.1		.6	4	0	"
380	12-9	925A / 935A	"	6.0	4.16	1.44	0.92	6.0		.6	6	0	"
381	12-16	905A / 915A	"	2.0	0.88	0.69	0.22	0.61		.6	4	0	"
382	12-23	925A / 930A	"	2.0	0.91	0.73	0.23	0.66		.6	4	0	"
383	12-30	1150A / 1158A	"	2.5	1.04	0.66	0.25	0.69		.6	5	0	"
384	1-6	957A / 1003A	"	2.0	0.95	0.73	0.28	0.69		.6	4	0	"
385	1-13	922A / 930A	"	2.0	0.94	0.70	0.25	0.66		.6	4	0	"
386	1-27	340P / 346P	Green & Haig	3.0	0.77	0.62	0.31	0.48		.6	5	0	FC35
387	2-3	510P / 515P	Green	3.0	0.74	0.72	0.32	0.53		.6	6	0	FC42
388	2-9	555P / 600P	"	3.0	0.74	0.77	0.34	0.57		.6	4	0	"
389	2-17	902A / 910A	Brewster	2.0	1.04	0.88	0.34	0.92		.6	4	0	FC12
390	2-25	210P / 220P	"	2.5	1.06	0.71	0.26	0.75		.6	5	0	"
391	3-3	920A / 940A	Brewster	16.0	20.8	2.38	1.98	49.4		.6	10	0	FC12
392	3-9	952A / 1000A	"	2.0	0.94	0.68	0.23	0.64		.6	4	0	"
393	3-16	1012A / 1020A	"	2.5	0.99	0.61	0.24	0.60		.6	5	0	"
394	3-23	124P / 130P	"	2.0	0.96	0.68	0.23	0.65		.6	4	0	"
395	3-30	954A / 1000A	Brewster	2.0	0.86	0.73	0.23	0.63		.6	4	0	FC12
396	4-6	924A / 930A	"	2.0	0.97	0.74	0.24	0.72		.6	4	0	"
397	4-13	902A / 910A	"	2.0	1.10	0.68	0.24	0.75		.6	4	0	"
398	4-20	854A / 900A	"	2.0	1.03	0.72	0.24	0.74		.6	4	0	"
399	4-27	212P / 220P	"	4.8	4.85	1.07	0.76	5.2		.6	5	0	"
400	5-4	845A / 854A	"	4.0	4.43	1.20	0.76	5.3		.6	4	0	"
401	5-11	831A / 835A	"	0.5	0.12	1.00	0.07	0.12		.6	1	0	"
402	5-18	835A / 840A	"	1.5	0.36	0.64	0.12	0.23		.6	3	0	"
403	5-25	824A / 830A	"	1.0	0.24	0.83	0.10	0.20		.6	2	0	"
404	6-1	910A / 915A	"	1.0	0.28	0.86	0.12	0.24		.6	1	0	"
405	6-9	833A / 836A	Brewster & Bonadiman	1.0	0.34	0.79	0.14	0.27		.6	2	0	"
406	6-16	251P / 255P	Bonadiman	3.0	0.76	0.26	0.10	0.20		.6	3	0	FC19
407	6-23	230P / 234P	"	3.0	0.92	0.13	0.10	0.12		.6	3	0	"
408	6-28	855A / 900A	Brewster	1.0	0.25	1.00	0.13	0.25		.6	2	0	FC12
409	7-5	905A / 910A	"	1.0	0.23	0.87	0.11	0.20		.6	2	0	"
410	7-12	851A / 855A	"	1.0	0.24	0.54	0.08	0.13		.6	2	0	"
411	7-26	1001A / 1005A	"	0.5	0.14	0.71	0.05	0.10		.6	1	0	"
412	8-9	901A / 905A	"	0.5	0.14	0.93	0.08	0.13		.6	1	0	"
413	8-23	853A / 857A	"	0.5	0.11	0.55	0.04	0.06		.6	1	0	"
414	9-6	842A / 845A	"	0.5	0.19	0.63	0.07	0.12		.6	1	0	"
415	9-20	826A / 830A	"	0.5	0.14	0.57	0.05	0.08		.6	1	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F40-R

Daily discharge, in second-feet of PUDDINGSTONE CREEK below Puddingstone Dam, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.8	4.7	0.7	0.5	0.8	0.6	5.2	0.3	1.0	2.2	3.9
2	0.2	0.3	3.5	0.7	0.5	2.4	0.6	5.2	0.2	0.1	0.1	1.2
3	0.6	0.2	3.4	0.7	0.5	4.9	0.7	5.2	0.7	0.2	0.2	0.2
4	1.0	0.2	2.6	0.7	0.6	4.9	0.7	5.4	3.0	0.2	0.1	0.1
5	1.6	0.4	3.7	0.6	0.5	5.1	0.7	5.3	1.4	0.2	0.1	0.1
6	3.7	0.4	6.5	0.7	0.5	0.8	0.7	3.0	0.3	0.2	0.3	0.1
7	2.6	1.0	9	0.6	0.5	0.7	0.7	2.6	0.5	0.3	0.2	0.1
8	2.8	2.7	9.1	0.6	0.6	0.6	0.7	2.6	0.2	0.1	0.2	0.1
9	1.4	4.7	7.5	0.6	0.6	0.6	0.7	1.3	0.2	0.1	0.1	0.1
10	1.8	1.4	9.1	0.6	0.6	0.6	0.8	0.2	0.2	0.1	0.1	0.1
11	2.0	0.4	5.6	0.6	0.6	0.6	0.8	0.1	0.1	0.1	0.1	0.1
12	0.7	0.2	0.7	0.7	0.6	0.6	0.8	0.1	0.1	0.1	0.1	0.1
13	2.4	0.2	0.7	0.7	0.7	0.6	0.8	0.2	0.2	0.1	0.4	0.1
14	3.3	1.3	0.7	0.6	0.7	0.6	0.7	0.2	0.3	0.1	0.2	0.9
15	3.1	1.4	0.6	0.6	0.8	0.6	0.7	0.2	0.2	0.1	0.1	1.0
16	4.2	0.5	0.6	0.6	0.8	0.6	0.7	0.2	0.2	0.1	0.1	0.1
17	1.7	2.5	0.7	0.6	0.9	0.5	0.7	0.2	0.2	0.1	0.1	0.1
18	2.8	3.8	0.7	0.6	0.9	0.6	0.7	0.2	0.2	0.1	0.1	0.1
19	6	3.6	1.0	0.5	0.8	0.6	0.7	0.1	0.1	0.1	0.1	0.1
20	2.5	3.2	1.0	0.5	2.1	0.6	0.7	0.1	0.1	0.1	0.1	0.1
21	2.1	3.1	1.1	0.5	3.9	0.6	0.8	0.1	0.1	0.1	+	0.1
22	3.0	1.4	0.7	0.5	6.2	0.6	0.4	0.2	0.1	0.1	+	0.1
23	0.8	0.6	0.7	0.5	1.9	0.6	0.2	0.2	0.1	0.1	0.1	+
24	0.3	0.2	0.6	0.5	1.3	0.6	0.1	0.2	0.2	0.2	0.6	0.1
25	0.2	1.8	0.6	0.5	1.0	0.6	0.1	0.2	0.2	0.2	1.2	0.2
26	1.6	3.1	0.6	0.5	0.9	0.6	0.1	0.2	0.2	0.1	0.6	0.2
27	5.1	2.4	0.6	0.4	0.8	0.6	4.1	0.2	0.2	0.1	0.1	1.1
28	5.1	2.4	0.7	0.4	0.8	0.6	5.3	0.2	0.2	0.1	0.1	1.0
29	4.8	1.7	0.8	0.4	0.7	0.6	5.3	0.9	0.2	0.1	0.1	0.2
30	4.1	2.6	0.8	0.4		0.6	5.2	3.3	0.8	0.1	0.6	0.8
31	2.3		0.8	0.5		0.6		1.3		2.0	4.0	
	74.8	48.5	79.4	17.6	31.8	189.6	35.8	44.6	11.0	6.7	12.4	12.5
MEAN	2.41	1.62	2.56	0.57	1.09	6.12	1.19	1.44	0.37	0.22	0.40	0.42
ACRE-FEET	148.	96.	157.	35.	63.	376.	71.	88.	22.	13.	25.	25.

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

YEAR OR PERIOD — MEAN 1.54 — ACRE-FEET 1120.

STATION F280-R

RIO HONDO DIVERSION below Santa Fe Dam

LOCATION:

Water-stage recorder, lat. 34°06'45", long. 117°58'25", on the left bank of the diversion canal, 400 feet downstream from the stilling basin outlet of Santa Fe Dam and 1.5 miles north of Baldwin Park. Elevation of gage, about 403 feet.

CHANNEL AND CONTROL:

Channel-sand and gravel.
Control-concrete apron 3 feet wide 10 feet below station.

DISCHARGE MEASUREMENTS:

Made by wading at control.

RECORDER:

Installed May 12, 1944 over a 16 inch diameter iron pipe stilling well. A Stevens recorder was in service from May 12, 1944 to September 30, 1944.

REGULATION:

Flow regulated by 5 gated openings from the stilling basin outlet of Santa Fe Dam to the Rio Hondo Diversion Canal.

RECORDS AVAILABLE:

Recorder records from May 12, 1944 to September 30, 1944. October 1, 1942 to May 12, 1944, determined by gate openings. A list of measurements at Station F280-S from October 1, 1942 to May 12, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 253 second-feet, May 18 to 23 and 29.
Minimum no flow most of year.

ACCURACY:

Good.

OPERATION:

Located, constructed, and operated by the Los Angeles County Flood Control District in co-operation with the Corps of Engineers, U.S. Army, and the United States Geological Survey, Water Resources Branch.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F280-R

DISCHARGE MEASUREMENTS OF RIO HONDO DIVERSION

at below Santa Fe 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.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
9	5-12	1025P / 1055P	Moon & Jordan	29.5	60.4	3.38	3.55	198.		.6	15	0	FC22
10	5-13	153P / 230P	Lindsey	30.5	65.0	3.23	3.75	210.		.2 / .8	12	0	FC36
11	5-15	1010A / 1030A	Moon & Jordan	31.0	70.2	3.45	3.80	235.		.6	16	0	FC22
12	5-17	220P / 250P	U.S.E.D.#1	31.0	71.3	3.24	3.83	231.		.2 / .8	10	0	35629
13	5-18	100P / 205P	Moon & Haig	31.5	75.6	3.44	3.93	260.		.2 / .8	16	0	FC35
14	5-25	1110A / 1140A	Moon & Henderson	31.5	73.9	3.44	3.92	254.		.6	16	0	FC22
15	6-10	817A / 841A	Moon & Jordan	27.0	42.4	2.65	2.95	109.		.6	13	0	FC22
16	6-10	1255P / 115P	" "	29.0	53.9	2.97	3.31	155.		.6	15	0	FC22
17	6-12	812A / 832A	Moon	26.5	41.7	2.59	2.93	105.		.6	13	0	FC22
18	6-14	205P / 230P	U.S.E.D.#2	27.0	54.2	2.26	3.09	122.		.2 / .8	11	0	35629
19	6-15	1220P / 1240P	Moon	27.5	47.0	2.72	3.08	128.		.6	14	0	FC22
20	6-22	1048A / 1115A	Haig	27.2	52.0	2.46	3.08	128.		.6	16	0	FC35
21	6-29	1050A / 1113A	Moon	28.0	48.7	2.71	3.15	132.		.6	14	0	FC22

F. C. Dis. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F280-R

Daily discharge, in second-feet of RIO HONDO DIVERSION below Santa Fe Dam, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	28	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	68	0	0
7	0	0	0	0	0	0	0	0	0	126	0	0
8	0	0	0	0	0	0	0	0	0	130	0	0
9	0	0	0	0	0	0	0	0	33	131	0	0
10	0	0	0	0	0	0	0	0	114	83	0	0
11	0	0	0	0	0	0	0	0	99	0	0	0
12	0	0	0	0	0	0	0	33	106	0	0	0
13	0	0	0	0	0	0	0	215	118	0	0	0
14	0	0	0	0	0	0	0	227	126	0	0	0
15	0	0	0	0	0	0	0	240	124	0	0	0
16	0	0	0	0	0	0	0	240	123	0	0	0
17	0	0	0	0	0	0	0	236	123	0	0	0
18	0	0	0	0	0	0	0	253	123	0	0	0
19	0	0	0	0	0	0	0	253	123	0	0	0
20	0	0	0	0	0	0	0	253	116	0	0	0
21	0	0	0	0	0	0	0	253	124	0	0	0
22	0	0	0	0	0	0	0	253	124	0	0	0
23	0	0	0	0	0	0	0	253	124	0	0	0
24	0	0	0	0	0	0	0	251	125	0	0	0
25	0	0	0	0	0	0	0	251	134	0	0	0
26	0	0	0	0	0	0	0	251	134	0	0	0
27	0	0	0	0	0	0	0	251	134	0	0	0
28	0	0	0	0	0	0	0	251	134	0	0	0
29	0	0	0	0	0	0	0	253	134	0	0	0
30	0	0	0	0		0	0	244	121	0	0	0
31	0		0	0		0	0	8.5		0	0	
	0	0	0	0	0	0	0	4469.5	2616	566	0	0
MEAN	0	0	0	0	0	0	0	144.2	87.2	18.3	0	0
ACRE-FEET	0	0	0	0	0	0	0	8870.	5190.	1120.	0	0

Remarks:

YEAR OR PERIOD MEAN 20.9
ACRE-FEET 15180.

STATION F192-R

RIO HONDO at Lower Azusa Road

LOCATION:

Water-stage recorder, lat. 34°05'33", long. 118°01'52", on the downstream side of the Lower Azusa Road bridge, about 1.5 miles north of El Monte. Elevation of zero gage height, 287.54 feet.

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, 1943 to September 30, 1944.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, also spillway and diversion at Santa Fe Dam.

DIVERSIONS:

The City of Monrovia diverts water from Monrovia Creek and Sawpit 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, 1944, recorder records.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,080 second-feet, February 22.
Minimum 0.3 second-foot at various times.
1932-1944
Maximum 31,000 second-feet, estimated March 2, 1938.
Minimum no flow at times some years.

ACCURACY:

Fair due to undetermined shift at extremely 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. F192-R

DISCHARGE MEASUREMENTS OF RIO HONDO

at Lower Azusa Road 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.
468	10-8	822A / 826A	Moon	3.5	0.61	1.00	0.45	0.61		.6	4	0	FC22
469	10-14	820A / 824A	"	4.0	0.66	0.95	0.46	0.63		.6	4	0	"
470	10-21	815A / 819A	"	4.0	0.69	0.86	0.44	0.59		.6	4	0	"
471	10-28	1040A / 1044A	"	4.0	0.62	0.82	0.43	0.51		.6	4	0	"
472	11-4	812A / 816A	"	4.0	0.68	0.88	0.44	0.60		.6	4	0	"
473	11-12	810A / 814A	"	4.0	0.59	0.90	0.43	0.53		.6	4	0	"
474	11-18	1100A / 1104A	"	4.0	0.61	0.74	0.43	0.45		.6	4	0	"
475	11-26	830A / 834A	"	4.0	0.70	1.77	0.43	0.54		.6	4	0	"
476	12-2	950A / 954A	"	4.0	0.66	0.73	0.44	0.48		.6	4	0	"
477	12-9	1130A / 1134A	"	4.0	0.67	0.72	0.44	0.48		.6	4	0	"
478	12-16	840A / 844A	"	4.0	0.71	0.79	0.44	0.56		.6	4	0	"
479	12-19	328P / 338P	"	30.0	22.2	2.27	1.32	50.5		.6	9	+.04	"
480	12-20	131P / 135P	Moon & Stunden	4.0	1.00	1.00	0.52	1.0		.6	4	0	"
481	12-23	1034A / 1041A	Moon	13.0	4.81	1.54	0.90	7.4		.6	7	-.02	"
482	12-28	215P / 221P	"	7.0	2.13	1.64	0.71	3.5		.6	6	-.02	"
483	1-6	1020A / 1024A	"	4.0	0.56	0.96	0.52	0.54		.6	4	0	"
484	1-20	1040A / 1043A	"	3.0	0.36	1.03	0.48	0.37		.6	3	0	"
485	1-27	815A / 820A	"	4.0	0.48	1.19	0.53	0.57		.6	4	0	"
486	2-3	1003A / 1006A	"	3.2	0.35	1.14	0.47	0.40		.6	3	0	"
487	2-10	848A / 853A	"	4.0	1.54	1.43	0.62	2.2		.6	5	0	"
488	2-17	1035A / 1038A	"	2.5	0.37	0.84	0.45	0.31		.6	3	0	"
489	2-21	656P / 704P	Moon & Stunden	29.0	18.6	1.67	1.40	31.1		.6	7	0	"
490	2-22	905P / 927P	Haig & Kasimoff	65.0	131.	4.08	3.27	532.		.6	8	0	FC35
491	2-24	920A / 924A	Moon & Stunden	4.0	1.22	1.73	0.87	2.1		.6	5	0	FC22
492	2-24	1136A / 1141A	Haig & Kasimoff	4.5	1.47	1.22	0.86	1.8		.6	5	0	FC35
493	2-26	248P / 254P	Moon	14.0	7.70	0.95	1.02	7.3		.6	7	+.04	FC22
494	3-3	1236P / 1244P	Moon & Stunden	10.0	9.60	3.34	1.35	32.1		.6	7	0	"
495	3-9	245P / 250P	Moon	3.0	0.80	1.25	0.41	1.0		.6	5	0	"
496	3-16	912A / 917A	"	3.0	0.91	1.23	0.41	1.1		.6	4	0	"
497	3-24	1110A / 1115A	"	8.5	4.18	2.63	0.61	11.0		.6	5	0	"
498	3-31	410P / 415P	"	5.0	2.48	2.04	0.55	5.1		.6	5	0	"
499	4-6	332P / 337P	"	5.0	1.08	1.65	0.45	1.8		.6	5	0	"
500	4-13	842A / 847A	"	4.5	1.97	1.61	0.56	3.2		.6	5	0	"
501	4-20	1053A / 1058A	"	5.0	1.14	1.46	0.50	1.7		.6	4	0	"
502	4-27	1122A / 1128A	"	8.0	7.25	3.39	0.85	24.6		.6	6	0	"
503	5-4	915A / 920A	"	5.0	0.92	1.41	0.39	1.3		.6	5	0	"
504	5-11	1045A / 1050A	"	4.0	1.00	1.30	0.37	1.3		.6	4	0	FC22
505	5-13	424P / 440P	Lindsay	29.0	17.7	3.14	1.44	55.5		.6	11	0	FC36
506	5-15	345P / 400P	Moon & Jordan	26.0	37.4	3.32	1.75	124.		.6	10	+.02	FC22
507	5-16	815A / 835A	"	26.0	36.8	3.45	1.85	127.		.6	10	+.04	"
508	5-17	800A / 814A	Moon	27.0	36.6	3.61	1.83	132.		.6	12	-.02	"
509	5-18	430P / 445P	Moon & Haig	28.0	45.0	3.00	2.09	135.		.6	11	0	FC35
510	5-22	820A / 835A	Moon	29.0	47.6	3.15	2.22	150.		.6	12	+.01	FC22
511	5-25	820A / 835A	"	29.0	55.8	2.96	2.16	165.		.6	12	0	"
512	5-29	413P / 430P	Moon & Bollinger	31.0	57.0	3.14	2.19	179.		.6	12	-.01	"
513	6-1	936A / 943A	Moon	9.5	2.83	1.38	0.29	3.9		.6	7	0	"
514	6-8	935A / 944A	Moon	8.0	1.98	1.31	0.20	2.6		.6	7	0	FC22
515	6-10	440P / 455P	Jordan	24.5	27.3	2.60	1.21	71.2		.6	9	+.02	FC21
516	6-11	1145A / 1200N	"	13.5	14.4	2.43	0.65	24.8		.6	8	0	"
517	6-12	253P / 303P	Moon	12.0	14.4	4.14	0.84	45.3		.6	7	0	FC22
518	6-15	840A / 850A	"	25.0	26.5	2.51	1.11	66.6		.6	10	0	"
519	6-22	816A / 834A	Haig	28.5	26.4	2.45	1.32	64.6		.6	12	0	FC35
520	6-25	1255P / 110P	Jordan	34.0	28.9	2.47	1.46	71.4		.6	13	0	FC21
521	6-27	1045A / 1100A	"	35.0	30.7	2.36	1.56	72.5		.6	13	0	"
522	6-29	905A / 917A	Moon	24.0	26.6	2.75	1.61	73.1		.6	10	0	FC22
523	7-6	255P / 302P	"	9.0	2.62	1.41	0.54	3.7		.6	7	0	"
524	7-7	805A / 815A	Moon & Jordan	24.0	19.6	2.82	1.45	55.3		.6	9	0	"
525	7-8	145P / 200P	Jordan	35.0	28.8	2.33	1.67	67.1		.6	13	0	FC21
526	7-12	817A / 825A	Moon	11.0	3.30	1.48	0.70	4.9		.6	6	0	FC22
527	7-20	942A / 950A	"	7.0	2.50	1.76	0.65	4.4		.6	7	0	"
528	7-27	1030A / 1037A	"	6.0	2.04	1.70	0.65	3.6		.6	6	0	"
529	8-3	1050A / 1056A	"	6.0	1.96	1.43	0.56	2.8		.6	6	0	"
530	8-10	940A / 948A	"	7.0	1.96	1.38	0.48	2.7		.6	7	0	"
531	8-17	1105A / 1115A	Gillespie & Moon	6.5	1.76	1.32	0.42	2.3		.6	7	0	"
532	8-24	1030A / 1038A	Moon	7.0	1.84	1.38	0.40	2.5		.6	7	0	"
533	8-31	1120A / 1130A	"	6.5	1.65	1.33	0.37	2.2		.6	7	0	"
534	9-7	1025A / 1032A	"	6.0	1.64	1.34	0.35	2.2		.6	6	0	"
535	9-14	1110A / 1120A	Stunden & Moon	6.0	1.38	1.30	0.35	1.8		.6	6	0	"
536	9-21	940A / 947A	Moon	6.0	1.30	1.31	0.36	1.7		.6	6	0	"
537	9-28	1250P / 1257P	"	6.0	1.48	1.22	0.34	1.8		.6	6	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

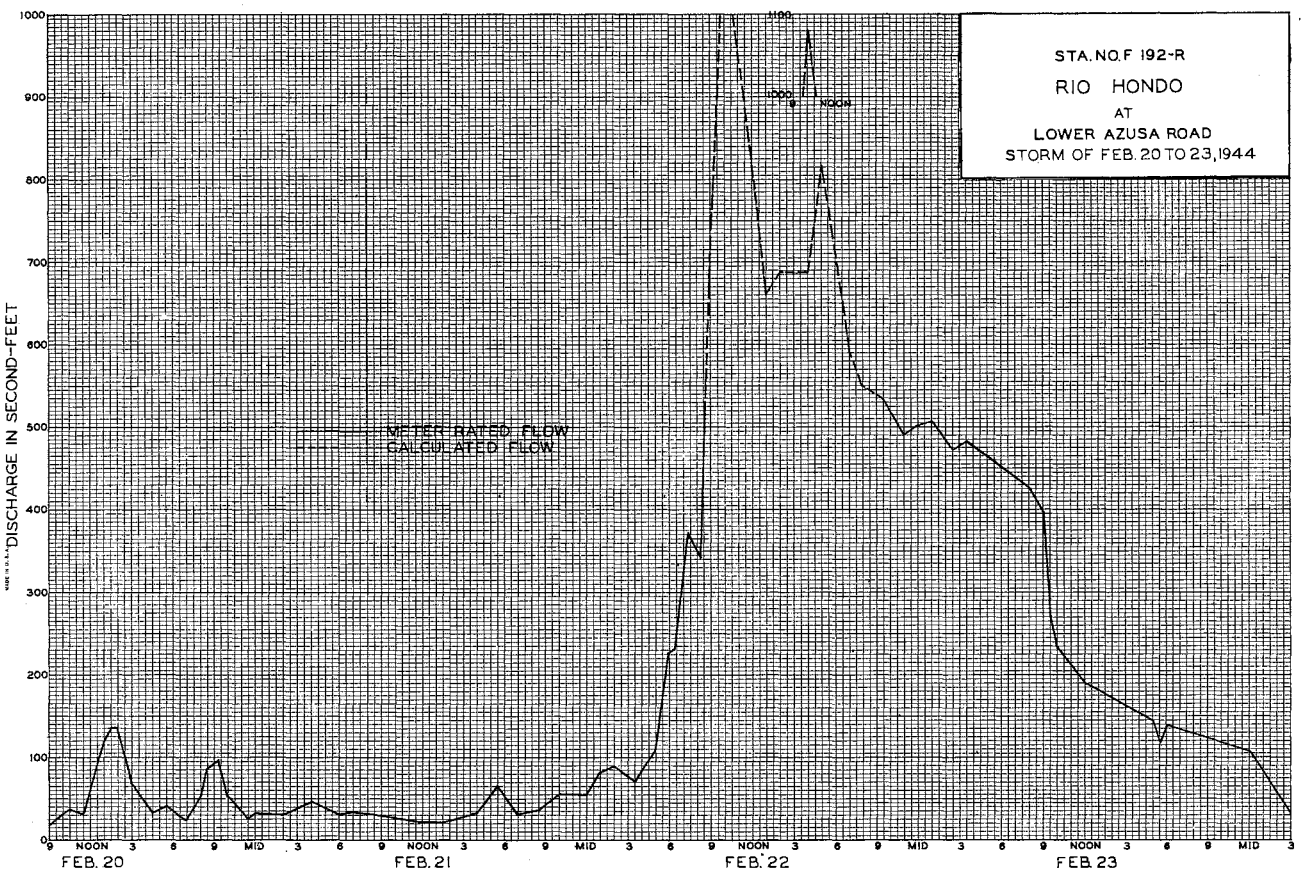
Sta. No. F192-R

Daily discharge, in second-feet of RIO HONDO at Lower Azusa Road, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.6	0.4	0.8	0.4	54	6.5	2.0	3.9	11	2.6	2.1
2	0.4	0.5	0.4	0.8	0.4	100	7.5	1.8	3.0	5.5	2.6	2.1
3	0.4	0.4	0.3	1.1	0.7	33	7	1.5	3.0	4.0	2.6	2.0
4	0.4	0.3	0.3	2.3	4.4	36	b 2.4	1.1	2.6	3.4	2.6	2.0
5	0.4	0.3	0.4	1.4	0.6	12	b 2.1	1.1	2.6	3.4	2.8	2.0
6	0.4	0.3	1.5	0.6	0.5	8	b 1.7	1.1	2.6	3.4	2.8	2.1
7	0.4	0.3	0.5	0.3	0.5	b 2.3	2.3	1.4	2.6	5.4	2.6	2.0
8	0.5	0.4	0.5	0.3	1.3	b 1.5	11	1.4	2.6	6.4	2.6	2.0
9	0.6	0.5	0.5	0.3	1.8	1.0	4.5	1.4	2.4	7.2	2.6	1.8
10	0.5	0.5	1.3	0.4	1.5	1.6	b 3.0	1.4	1.5	5.8	2.6	2.0
11	0.5	0.5	5.5	0.4	1.2	9	b 3.2	1.4	2.8	7.5	2.4	2.0
12	0.5	0.6	0.8	0.3	1.1	3.2	b 3.2	1.4	4.3	5.0	2.3	1.8
13	0.5	0.6	0.7	0.3	0.8	1.7	b 3.2	31	5.4	4.1	2.3	1.8
14	0.4	0.6	0.6	0.3	0.4	1.2	2.8	9.6	6.4	3.9	2.4	1.8
15	0.4	0.5	0.6	0.3	0.9	1.1	2.4	134	6.4	3.9	2.4	1.8
16	0.5	0.5	0.6	0.4	0.4	1.1	2.1	126	6.2	3.6	2.3	1.8
17	0.5	0.5	a 0.6	0.4	0.3	1.1	2.0	139	5.9	3.6	2.3	1.7
18	0.8	0.5	a 8.5	0.4	0.3	1.2	1.8	131	5.6	3.9	2.1	1.7
19	0.5	0.5	a 3.6	0.4	0.3	1.4	1.7	138	5.3	4.3	2.1	1.5
20	0.5	0.6	2.1	0.4	4.7	6.5	1.7	142	4.6	4.3	2.3	1.5
21	0.5	0.6	1.5	0.3	37	8.5	1.7	149	5.7	4.3	2.3	1.5
22	0.5	0.6	9	0.3	502	4.1	1.4	147	5.5	4.3	2.3	1.5
23	0.5	0.6	5	0.7	275	6	1.4	147	5.3	4.1	2.6	1.7
24	0.4	0.6	0.9	0.7	8	9.5	1.2	153	5.7	4.1	2.4	1.5
25	0.4	0.5	0.7	0.6	4.0	10	1.2	164	6.6	3.9	2.3	1.7
26	0.4	0.5	0.5	0.6	34	8.5	1.4	169	6.6	3.6	2.3	1.7
27	0.5	0.5	0.4	0.6	9.5	10	18	171	6.7	3.6	2.3	1.8
28	0.5	0.5	1.0	0.4	2.0	6.5	2.4	173	6.7	3.2	2.3	1.8
29	0.5	0.5	5.5	0.4	2.0	5.5	2.1	173	7.0	2.8	2.3	1.8
30	0.6	0.5	4.6	0.4		8.5	2.0	149	7.3	2.6	2.3	1.8
31	0.6		1.0	0.4		5.5		11		2.6	2.1	
	15.0	14.9	136.3	17.3	938.3	359.5	104.9	2560.0	1200.3	361.9	74.8	54.3
MEAN	0.48	0.50	4.4	0.56	32.4	11.6	3.50	82.6	40.0	11.7	2.41	1.81
ACRE-FEET	30.	30.	270.	34.	1860.	713.	208.	5080.	2380.	718.	148.	108.

Remarks:

YEAR OR PERIOD MEAN 15.9
ACRE-FEET 11600.



STATION F64-R

RIO HONDO above Mission Bridge

LOCATION:

Water-stage recorder, lat. 34°01'57", long. 118°04'18", on the right (west) bank approximately 1,000 feet above Mission Bridge (San Gabriel Boulevard) and 2 miles northeast of Montebello. This supplements the station operated from 1923 to 1928 by the State Division of Water Rights at Mission Bridge. Elevation of gage, about 193 feet (from topographic map).

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 F64-R 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, 1944.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, Eaton Dam, Los Flores and Rubio Debris Basins, and Santa Fe Dam.

DIVERSIONS:

The City of Pasadena diverts water from Eaton Creek.
The City of Monrovia diverts water from Monrovia Creek, and Sawpit 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, 1944 (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:

1943-1944
Maximum 4,390 second-feet, February 22.
Minimum 21 second-feet, October 6.
1928-1944
Maximum 28,000 second-feet, estimated, March 2, 1938.
Minimum 5 second-feet October 15, 1931.

ACCURACY:

Fair.

OPERATION:

Operated by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey, Water Resources Branch.

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

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, 19 44

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.
838	10-1	835A / 855A	Brewster	78.0	22.4	1.00	4.24	22.4		.6	10	0	FC12
839	10-8	834A / 856A	"	74.0	21.1	10.7	4.27	22.5		.6	9	0	"
840	10-15	850A / 912A	"	Two Channels			4.25	23.2		.6	10	0	"
841	10-18	1055A / 1115A	Moon	90.0	76.8	2.28	4.88	175.		.6	9	-.08	FC22
842	10-22	850A / 910A	Brewster	Two Channels			4.29	24.3		.6	11	0	FC12
843	10-29	840A / 900A	"	77.0	22.8	1.11	4.23	25.4		.6	10	0	"
844	11-5	855A / 915A	"	Two Channels			4.26	25.8		.6	10	0	"
845	11-12	828A / 849A	"	82.0	24.8	1.01	4.26	25.1		.6	10	0	"
846	11-19	844A / 903A	"	79.0	21.1	1.13	4.26	23.9		.6	10	0	"
847	11-26	855A / 920A	"	74.0	20.0	1.24	4.27	24.8		.6	9	0	"
848	12-3	833A / 854A	"	79.0	21.8	1.17	4.23	25.6		.6	10	0	"
849	12-10	514A / 530A	"	73.0	23.7	1.15	4.28	27.3		.6	9	0	"
850	12-10	255P / 316P	Haig	92.0	170.	5.22	5.88	887.	Surf. &	.6	12	-.14	FC35
851	12-11	1215P / 1227P	Moon & Stunden	88.0	103.	2.59	5.04	267.		.6	10	-.05	FC22
852	12-17	820A / 845A	Brewster	82.0	23.7	1.15	4.25	27.2		.6	10	0	FC12
853	12-19	1140A / 1158A	Moon	89.0	93.2	2.21	5.00	206.		.6	8	-.10	FC22
854	12-20	215P / 227P	Moon & Stunden	86.0	58.0	1.74	4.55	101.		.6	11	0	"
855	12-20	1024P / 1054P	" "	100.0	186.	6.50	6.20	1210.		.6	7	-.39	"
856	12-24	846A / 904A	Brewster	67.0	24.1	1.21	4.25	29.2		.6	9	0	"
857	12-29	624A / 644A	Moon & Stunden	100.0	188.	4.12	5.90	77.5		.6	7	-.11	FC22
858	12-31	840A / 900A	Brewster	Two Channels			4.34	43.2		.6	10	0	FC12
859	1-7	840A / 905A	"	88 .0	27.6	1.30	4.22	36.0		.6	11	0	FC12
860	1-14	833A / 854A	"	88.0	25.0	1.22	4.12	30.5		.6	11	0	"
861	1-21	850A / 915A	Haig	86.5	24.2	1.19	4.15	28.9		.6	15	0	FC35
862	1-28	914A / 935A	Haig & Green	88.5	24.2	1.25	4.14	30.3		.6	16	+.02	FC35
863	2-4	1206A / 1230A	Moon & Stunden	90.0	131.	2.39	5.27	313.		.6	8	-.14	FC22
864	2-4	835A / 855A	Green & Haig	39.5	26.7	1.75	4.24	46.7		.6	16	-.01	FC35
865	2-10	853A / 918A	Green	43.0	22.1	1.49	4.18	33.0		.6	17	0	FC42
866	2-18	840A / 905A	Brewster	79.0	26.7	1.31	4.10	34.9		.6	10	0	FC12
867	2-20	520A / 545A	Kasimoff & Haig	97.0	162.	3.30	5.52	535.		.6	12	-.03	FC35
868	2-20	1156A / 1209P	Moon & Stunden	107.	264.	5.33	6.50	1460.		.6	7	+.20	FC22
869	2-21	544P / 554P	"	90.9	152.	2.47	5.35	375.		.6	11	+.01	"
870	2-22	944A / 1025A	Haig & Kasimoff	145.	432.	8.61	8.07	3720.		.6	16	+.10	FC35
871	2-22	639P / 653P	"	105.	293.	6.07	6.78	1780.		.6	10	-.14	"
872	2-23	1019A / 1040A	"	102.	213.	3.30	5.99	703.		.6	11	-.08	"
873	2-24	1010A / 1030A	"	55.0	62.8	2.07	4.66	130.		.6	14	0	"
874	3-1	1131P / 1200P	Mellen & Kasimoff	100.	293.	9.22	7.08	2700.		.6	11	+.12 -.12	FC28
875	3-10	900A / 915A	Brewster & Green	56.0	40.4	1.66	4.36	67.2		.6	10	0	FC12
876	3-17	1015A / 1035A	Brewster	60.0	29.9	1.61	4.26	48.0		.6	9	+.02	"
877	3-24	842A / 900A	"	60.0	31.2	1.50	4.19	46.8		.6	8	0	"
878	3-31	845A / 900A	"	60.0	28.0	1.47	4.14	41.2		.6	8	0	"
879	4-7	902A / 920A	"	62.0	27.3	1.38	4.12	37.6		.6	8	0	"
880	4-14	840A / 901A	"	62.0	23.1	1.47	4.08	34.0		.6	8	0	"
881	4-21	855A / 915A	"	60.0	23.3	1.46	4.08	34.0		.6	8	0	"
882	4-27	955A / 1008A	Moon	88.0	103.	2.55	4.90	263.		.6	11	+.05	FC22
883	4-28	900A / 920A	"	47.0	24.8	1.46	4.16	36.2		.6	7	0	FC12
884	5-5	828A / 846A	"	60.0	21.0	1.45	4.05	30.4		.6	8	0	"
885	5-12	826A / 846A	Wood & Brewster	56.0	21.6	1.43	4.02	30.8		.6	7	0	FC12
886	5-15	943A / 1005A	Brewster	90.0	67.4	1.72	4.54	116.		.6	11	+.04	"
887	5-19	900A / 929A	"	87.0	82.8	2.29	4.72	190.		.6	10	0	"
888	5-26	801A / 825A	"	89.0	82.6	2.24	4.80	185.		.6	10	0	"
889	6-2	815A / 840A	"	Two Channels			4.13	33.2		.6	10	0	"
890	6-8	832A / 852A	Brewster & Bonadiman	" "			4.06	30.7		.6	15	0	"
891	6-15	820A / 839A	Bonadiman	89.0	50.8	1.59	4.35	80.8		.6	14	0	FC19
892	6-22	816A / 834A	"	90.0	43.4	1.97	4.37	85.6		.6	14	0	"
893	6-29	845A / 905A	Brewster	89.0	60.6	1.62	4.47	97.9		.6	11	0	FC12
894	7-6	850A / 915A	"	Two Channels			4.09	28.0		.6	11	0	"
895	7-13	845A / 905A	"	" "			4.08	29.0		.6	10	0	"
896	7-20	825A / 850A	"	88.0	27.3	1.03	4.08	28.2		.6	11	0	"
897	7-27	845A / 907A	"	Two Channels			4.06	26.4		.6	10	0	"
898	8-3	820A / 842A	"	88.0	24.0	1.10	4.04	26.4		.6	11	0	"
899	8-10	820A / 842A	"	88.0	24.5	1.06	4.02	26.0		.6	11	0	"
900	8-17	822A / 844A	"	84.0	24.8	1.04	4.07	25.9		.6	10	0	"
901	8-24	826A / 848A	"	84.0	26.6	0.98	4.02	26.1		.6	10	0	"
902	8-31	843A / 905A	"	88.0	25.1	1.01	4.02	25.3		.6	11	0	"
903	9-7	802A / 827A	"	87.0	22.6	1.06	4.02	24.0		.6	11	0	"
904	9-14	758A / 820A	"	Two Channels			4.04	24.1		.6	10	0	"
905	9-21	824A / 846A	"	83.0	22.8	1.13	4.02	25.8		.6	10	0	"
906	9-28	805A / 830A	Brewster & Stunden	Two Channels			4.02	26.6		.6	10	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

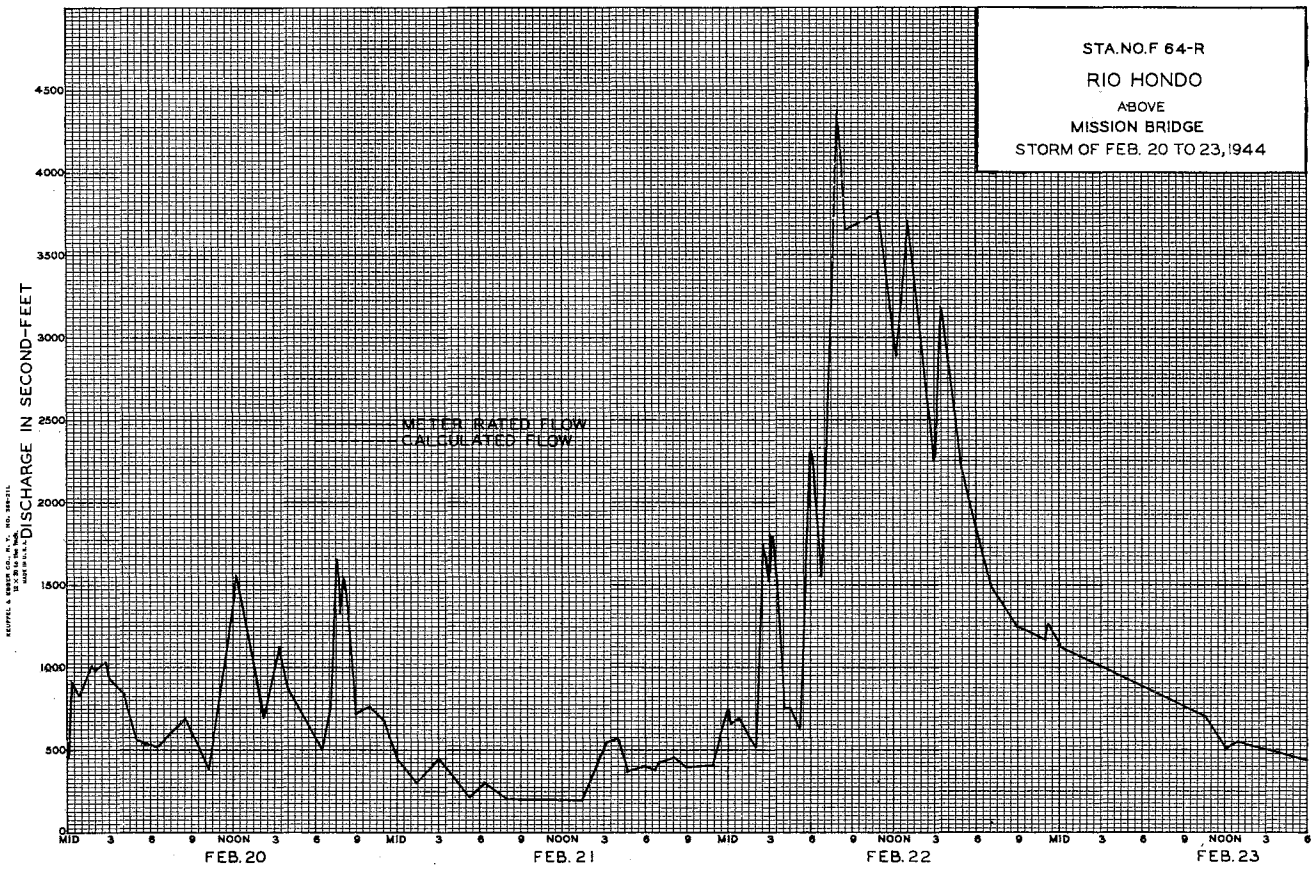
Sta. No. F64-R

Daily discharge, in second-feet of RIO HONDO above Mission Bridge, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	31	36	37	39	530	57	37	b 40	44	31	32
2	32	33	36	31	36	877	52	40	40	41	32	34
3	26	30	33	31	46	b180	52	39	43	40	32	32
4	28	31	37	31	71	453	50	40	46	40	31	28
5	29	31	40	32	40	b270	50	39	43	32	33	26
6	25	33	103	84	36	b150	47	37	44	31	37	31
7	28	30	33	50	36	b 84	47	37	41	62	32	28
8	29	32	34	41	68	b 78	57	40	41	96	34	25
9	29	30	36	34	37	b 89	47	44	40	98	37	28
10	30	30	368	41	39	b 82	49	41	48	89	36	28
11	26	30	196	b 43	34	84	54	43	57	39	32	30
12	30	30	b 43	b 47	33	66	56	39	68	37	32	30
13	30	33	b 40	b 46	30	56	50	56	80	34	30	28
14	31	31	b 37	b 40	33	54	47	101	96	37	29	29
15	30	33	b 34	b 37	55	50	50	122	91	33	29	30
16	31	30	b 34	b 40	41	54	46	146	106	33	28	32
17	32	30	f 33	37	51	50	47	158	94	32	28	33
18	59	31	182	36	44	49	43	172	98	34	25	31
19	30	30	304	39	87	47	47	200	96	34	31	32
20	28	32	233	33	831	52	41	193	82	33	28	31
21	25	30	f 144	36	354	50	44	182	91	33	29	29
22	28	31	b 43	36	2110	49	43	190	96	36	32	29
23	31	30	b 40	44	699	50	43	182	111	34	36	31
24	29	32	37	47	204	57	40	193	106	29	31	32
25	30	32	31	40	68	57	40	175	101	28	32	34
26	36	32	31	37	212	61	44	190	108	29	29	30
27	33	33	31	39	83	56	246	168	101	30	29	31
28	33	30	83	39	64	54	43	200	111	31	26	32
29	37	34	169	37	61	50	39	193	108	34	28	33
30	41	34	158	32		49	40	146	98	33	31	36
31	32		55	34		52		b 60		32	29	
	966	939	2714	1231	5542	3940	1611	3503	2325	1268	959	915
MEAN	31.2	31.3	87.5	39.7	191.	127.	53.7	113.	77.5	40.9	30.9	30.5
ACRE-FEET	1920.	1860.	5380.	2440.	10,990.	7810.	3200.	6950.	4610.	2520.	1900.	1810.

Remarks:

YEAR OR PERIOD MEAN 70.8
ACRE-FEET 51,390.



STATION F45-R

RIO HONDO at Stewart and Gray Road

LOCATION:

Water-stage recorder, lat. 33°56'40", long. 118°09'50", on the downstream side of highway bridge, 0.5 mile upstream from junction of Rio Hondo and Los Angeles River and about 1.5 miles west of Downey. This station is near the location of the station operated from 1923 to 1928 by the State Division of Water Rights. Elevation of zero gage height, 90.20 feet.

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, 1944.

REGULATION:

Flow partially regulated by Sierra Madre Dam, Big Santa Anita Dam, Sawpit Dam, Eaton Dam, Santa Fe Dam, Los Flores and Rubio Debris Basins.

DIVERSIONS:

The city of Pasadena diverts water from Eaton Creek.
The City of Monrovia diverts water from Monrovia Creek, and Sawpit 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:

1943-1944
Maximum 6,670 second-feet, February 22.
Minimum no flow at various times.
1929-1944
Maximum 24,400 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.

OPERATION:

Located, constructed, and operated by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey, Water Resources Branch.

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

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, 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.
568	10-8	905A / 915A	Bonadiman	9.0	5.15	1.17	5.84	6.0	.6	4	0		FC19
569	10-29	855A / 900A	"	14.0	8.05	1.16	5.98	9.3	.6	4	0		"
570	11-5	910A / 918A	"	11.0	5.93	1.15	5.91	6.8	.6	4	0		"
571	11-26	900A / 906A	"	10.0	5.95	1.51	5.88	9.0	.6	4	0		"
572	12-11	828A / 832A	Bonadiman & Marlin	19.0	18.4	2.15	6.13	39.6	.6	6	0		"
573	12-11	224P / 240P	"	70.0	60.2	2.04	6.54	135.	.6	9	0		"
574	12-12	1046A / 1054A	Bonadiman	12.0	4.00	0.78	5.58	3.1	.6	4	0		"
575	12-18	150P / 159P	Keith & Bonadiman	48.5	41.3	2.07	6.34	85.3	.6	9	-.01		"
576	12-19	200P / 215P	Bonadiman	122.	118.	2.34	6.70	276.	.6	10	+.11		"
577	12-20	932A / 944A	"	24.0	27.2	3.27	6.29	89.0	.6	6	0		"
578	12-21	1231A / 1247A	Bonadiman & Keith	150.	258.	6.24	7.84	1610.	.6	10	+.05 -.11		"
579	12-22	1004A / 1018A	Bonadiman	30.0	17.0	1.28	6.02	21.7	.6	9	0		"
580	12-29	227P / 235P	Bonadiman & Keith	77.0	68.8	2.88	6.45	198.	.6	10	-.02		"
581	12-30	912A / 922A	Bonadiman	25.0	19.8	1.55	6.06	30.7	.6	6	0		"
582	12-31	804A / 820A	"	72.0	62.6	1.48	6.25	92.7	.6	7	0		"
583	1-7	916A / 924A	"	20.0	7.70	1.22	5.65	9.4	.6	5	0		"
584	1-28	914A / 920A	"	17.0	5.50	0.76	5.57	4.2	.6	5	0		"
585	2-4	825A / 837A	"	71.0	39.2	1.24	5.98	48.5	.6	9	0		"
586	2-5	1032A / 1040A	"	14.0	5.95	0.84	5.47	5.0	.6	4	0		"
587	2-11	900A / 916A	"	13.0	3.60	0.72	5.42	2.6	.6	5	0		"
588	2-18	910A / 920A	"	15.0	8.00	1.11	5.58	8.9	.6	5	0		"
589	2-20	451A / 508A	Bonadiman & Keith	153.0	212.	5.24	7.35	1110.	.6	11	0		"
590	2-20	242P / 252P	Bonadiman & Keith	155.0	303.	7.19	7.91	2180.	.6	10	-.08		FC19
591	2-21	830A / 846A	"	105.0	108.	3.40	6.40	367.	.6	6	0		"
592	2-22	613A / 627A	"	160.0	281.	6.80	7.70	1910.	.6	9	0		"
593	2-23	523P / 535P	"	115.0	124.	3.90	6.20	483.	.6	8	+.04		"
594	2-25	927A / 938A	Bonadiman	40.0	36.0	1.83	5.60	65.9	.6	6	0		"
595	2-26	442P / 500P	"	115.	128.	3.05	6.33	390.	.6	8	+.06		"
596	3-2	1207A / 1225A	Keith & Bonadiman	145.	370.	7.23	7.76	2680.	.6	9	-.06		"
597	3-3	412P / 427P	Bonadiman	105.	84.0	1.94	5.93	163.	.6	7	0		"
598	3-9	400P / 420P	"	Two Channels			5.82	79.4	.6	11	0		"
599	3-17	1010A / 1030A	"	28.0	1.74	1.16	5.63	20.1	.6	7	0		"
600	3-24	1010A / 1020A	"	31.0	16.4	0.86	5.60	14.1	.6	6	0		"
601	3-31	957A / 1006A	"	33.0	14.5	2.05	5.62	29.7	.6	7	0		"
602	4-14	924A / 932A	"	16.0	11.6	1.15	5.61	13.3	.6	5	0		"
603	4-21	916A / 928A	"	31.0	13.4	1.00	5.71	13.4	.6	8	0		"
604	4-27	905A / 928A	"	Two Channels			6.64	531.	.6	14	-.11		"
605	4-28	910A / 925A	"	24.0	19.7	1.30	5.73	25.6	.6	6	0		"
606	5-5	857A / 904A	"	8.0	2.6	0.65	5.43	1.7	.6	3	0		"
607	5-12	952A / 959A	"	30.0	9.0	0.54	5.57	4.9	.6	5	0		"
608	5-19	939A / 955A	"	115.0	78.6	1.30	6.12	102.	.6	12	0		"
609	5-26	1003A / 1021A	"	117.0	74.0	1.51	6.14	112.	.6	14	0		"
610	6-2	957A / 1007A	"	17.0	8.55	0.75	5.63	6.4	.6	6	0		"
611	6-7	900A / 908A	"	16.0	6.75	0.65	5.58	4.4	.6	5	0		"
612	6-14	927A / 939A	"	22.0	12.1	0.92	5.64	11.2	.6	6	0		"
613	6-21	937A / 945A	Bonadiman	21.0	15.7	1.56	5.77	24.5	.6	6	0		FC19
614	6-29	1007A / 1024A	"	Two Channels			5.87	34.5	.6	14	0		"
615	7-6	925A / 931A	Bonadiman	10.0	5.30	1.17	5.67	6.2	.6	4	0		"
616	7-13	906A / 912A	"	14.0	6.20	0.79	5.68	4.9	.6	4	0		"
617	7-27	857A / 902A	"	11.0	4.65	0.76	5.61	3.5	.6	4	0		"
618	8-3	832A / 840A	"	15.0	5.50	0.73	5.66	4.0	.6	4	0		"
619	8-10	853A / 900A	"	3.0	0.44	0.49	5.52	0.2	.6	2	0		"
620	8-17	850A / 857A	"	12.0	5.50	0.87	5.67	4.8	.6	4	0		"
621	8-24	942A / 950A	"	13.5	3.57	0.61	5.60	2.2	.6	4	0		"
622	8-31	920A / 928A	"	10.0	4.55	0.64	5.60	2.9	.6	4	0		"
623	9-6	842A / 900A	Moon	Two Channels			5.61	3.8	.6	17	0		FC22
624	9-20	917A / 930A	"	"	"		5.67	5.5	.6	10	0		"
625	9-29	910A / 920A	Bonadiman	18.0	7.15	1.02	5.68	7.3	.6	6	0		FC19

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

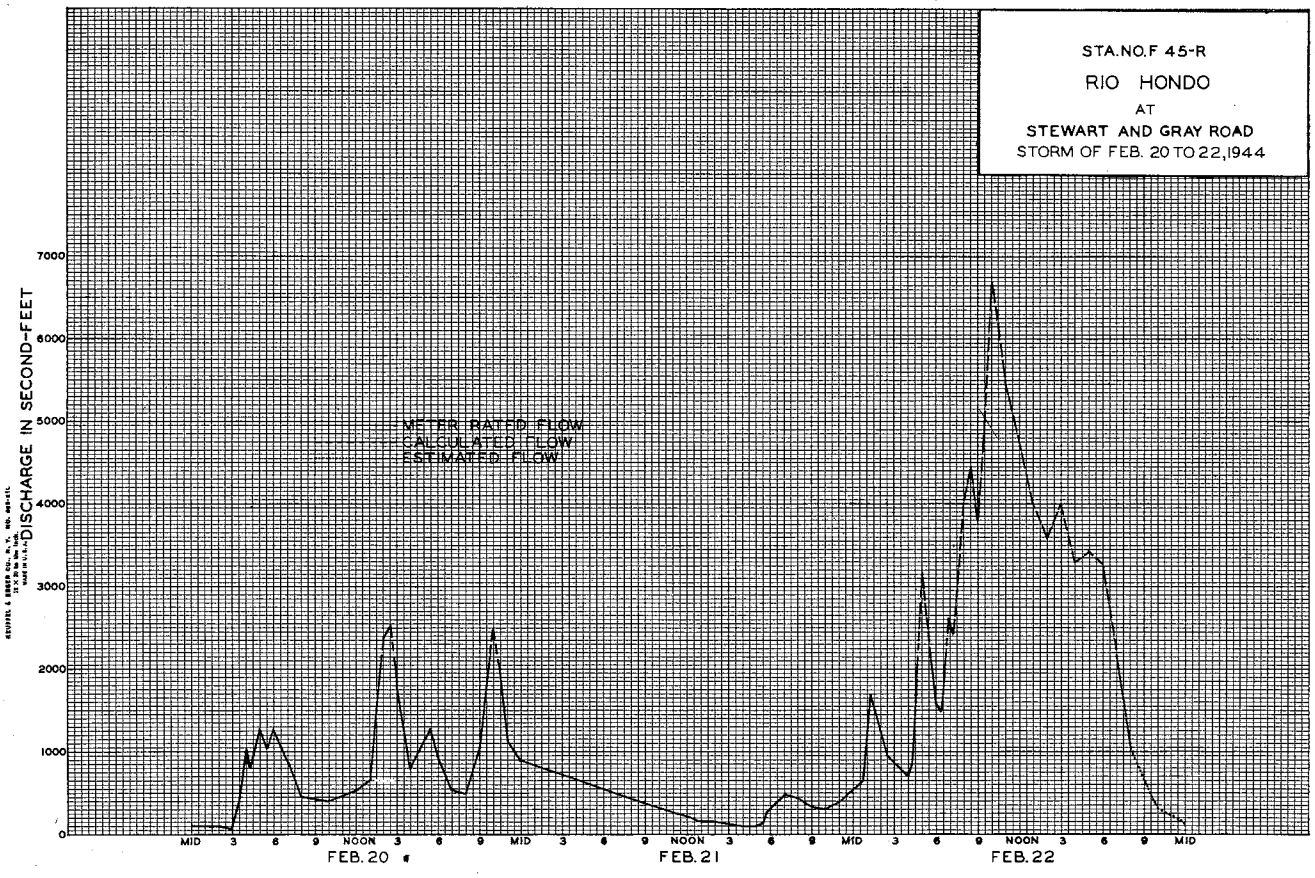
Sta. No. F45-R

Daily discharge, in second-foot of RIO HONDO at Stewart and Gray Road, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7	3.8	5.5	2.2	3.8	427	25	8	8	17	3.0	4.5
2	6	4.5	5.5	b 2.2	4.1	788	20	8.5	4.1	2.2	3.8	4.9
3	5.5	3.4	3.8	b 2.2	3.4	163	30	7	2.2	1.4	3.0	6
4	4.5	2.6	6	b 2.2	14	300	28	4.1	4.1	5.5	3.4	5.5
5	6	3.8	5.5	b 2.2	4.5	380	28	2.2	4.5	3.4	3.8	5.5
6	6	3.0	11	8.1	2.2	137	23	1.1	4.1	4.9	4.1	4.5
7	6	3.8	3.4	9.5	0	81	18	1.1	4.5	4.1	2.6	3.4
8	6	7	1.4	b 9	3.0	74	27	1.3	3.4	4.5	1.3	3.8
9	9.5	4.5	3.0	b 6	12	88	32	0.8	3.8	22	1.4	3.0
10	8.5	3.4	214	b 4.6	1.8	81	27	1.5	3.4	28	1.3	4.1
11	8	4.1	150	b 3.1	2.6	85	25	4.5	3.0	8.5	1.4	4.9
12	5.5	3.8	8.5	b 1.5	1.8	77	18	5.5	4.1	3.8	1.8	3.4
13	5.5	8	+	b 0	1.1	45	15	3.8	4.1	4.1	3.0	3.8
14	4.5	4.5	0	0	+	35	13	8.5	11	4.1	4.1	4.1
15	4.9	3.4	+	0	15	30	12	40	23	3.8	4.1	5.5
16	4.5	5.5	+	0	4.5	30	12	70	32	3.8	4.1	4.1
17	5.5	7	+	0	4.9	20	11	88	28	2.2	4.9	4.9
18	4.5	4.9	29	0	8	9.5	10	112	35	3.8	4.1	6
19	9.5	8	191	0	4.9	9.5	10	107	35	2.6	4.9	7
20	6	8	172	0	873	10	9.5	117	25	1.4	4.9	4.5
21	8	8	185	0	405	12	10	137	22	2.2	4.1	4.1
22	10	8.5	22	b 0.6	b2570	8	7	127	27	1.8	2.6	4.5
23	4.9	7	11	b 1.2	b483	7	6	122	25	1.0	3.0	4.5
24	3.8	5.5	4.1	b 1.8	226	12	4.9	132	28	1.1	5.5	4.5
25	4.1	6	1.3	b 2.4	85	15	3.8	137	32	0.8	4.5	4.9
26	3.4	7	0.7	b 3.0	139	11	4.1	142	35	2.2	6	4.9
27	5.5	4.1	0.3	b 3.6	40	12	169	142	40	3.0	5.5	6
28	3.8	3.8	4.9	4.2	12	18	25	169	38	2.2	4.9	6
29	5.5	9.5	150	2.2	11	17	13	162	38	1.3	4.5	3.8
30	5.5	8.5	113	2.2		12	11	142	38	1.8	3.8	3.4
31	4.9		91	3.4		20		62		2.6	3.8	
	1828	1649	1392.9	1503	4935.6	3014.0	6473	2065.9	565.3	151.1	113.2	140.0
Mean	5.90	5.50	44.9	4.85	170.	97.2	21.6	66.6	18.8	4.87	3.65	4.67
Acre-Feet	363	327	2760	298	9790	5980	1280	4100	1120	300	225	278

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

Year or Period: Mean 36.9; Acre-Feet 26820.



STATION F83-R

RIO HONDO SLOUGH at San Gabriel Boulevard

LOCATION:

Water-stage recorder, lat. 34°,01'47", long. 118°04'07", on the upstream end of the right (west) abutment of San Gabriel Boulevard bridge, just east of the Rio Hondo, about 2 miles northeast of Montebello. Elevation of gage, about 193 feet.

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, 1943 to September 30, 1944.

REGULATION:

Some water pumped just downstream from bridge.

DIVERSIONS:

None.

RECORDS AVAILABLE:

Recorder records June 14, 1930 to September 30, 1944. Some weekly stream measurements were taken prior to installation of recorder.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 336 second-feet, February 22.
Minimum 20 second-feet, at various times.
1930-1944
Maximum discharge not determined.
Maximum discharge of record, 336 second-feet, February 22, 1944.
Minimum 4.8 second-feet, October 4, 1934.

ACCURACY:

Good.

OPERATION:

Located, constructed, and operated by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey, Water Resources Branch.

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

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, 19 44

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.	S. HT. CHANGE TOTAL	METER NO.
379	10-1	910A / 925A	Brewster	16.0	15.0	1.37	6.22	20.5	.6	8	0		FC12
380	10-8	915A / 930A	"	15.0	14.6	1.47	6.20	21.4	.6	8	0		"
381	10-15	924A / 940A	"	16.0	15.4	1.40	6.20	21.5	.6	8	0		"
382	10-22	920A / 935A	"	15.0	15.6	1.40	6.24	21.9	.6	8	0		"
383	10-29	910A / 925A	"	16.0	16.2	1.35	6.22	21.9	.6	8	0		"
384	11-5	925A / 940A	"	16.0	15.4	1.42	6.20	21.8	.6	8	0		"
385	11-12	900A / 915A	"	16.0	16.0	1.34	6.21	21.5	.6	8	0		"
386	11-19	917A / 931A	"	15.0	16.1	1.44	6.26	23.1	.6	8	0		"
387	11-26	935A / 950A	"	15.0	16.0	1.45	6.27	23.2	.6	8	0		"
388	12-3	902A / 918A	"	15.0	15.7	1.46	6.27	23.0	.6	8	0		"
389	12-10	545A / 600A	"	15.0	16.0	1.46	6.35	23.4	.6	8	0		"
390	12-17	857A / 914A	"	15.0	17.0	1.39	6.41	23.7	.6	8	0		"
391	12-24	915A / 931A	"	15.0	17.6	1.47	6.48	25.9	.6	8	0		"
392	12-31	919A / 935A	"	15.0	20.4	1.51	6.76	30.8	.6	8	-.01		"
393	1-7	916A / 932A	"	15.0	17.4	1.68	6.50	29.2	.6	8	0		"
394	1-14	901A / 916A	"	16.0	16.4	1.59	6.38	26.1	.6	8	0		"
395	1-21	938A / 955A	Haig	16.5	17.4	1.47	6.35	25.5	.6	10	0		FC35
396	1-28	850A / 902A	"	16.5	18.0	1.54	6.33	27.7	.6	11	0		"
397	2-4	928A / 942A	Green & Haig	16.5	17.3	1.50	6.35	26.1	.6	11	0		"
398	2-10	1020A / 1033A	Green	17.0	16.8	1.46	6.31	24.5	.6	9	0		FC42
399	2-18	915A / 930A	Brewster	16.0	15.2	1.68	6.26	25.5	.6	8	0		FC12
400	2-22	1138A / 1150A	Haig & Kasimoff	17.3	92.7	2.98	1.020	277.	.6	6	-.08		F835
401	2-25	415A / 430A	Smith & Brewster	16.0	20.2	1.86	6.45	37.6	.6	8	0		FC12
402	3-3	150P / 210P	Brewster	16.0	20.2	1.87	6.57	37.8	.6	5	0		FC12
403	3-10	928A / 930A	Green & Brewster	16.0	17.3	1.85	6.32	32.0	.6	5	0		"
404	3-17	1116A / 1125A	Brewster	16.0	17.3	1.65	6.26	28.5	.6	5	0		"
405	3-24	915A / 930A	"	16.0	16.9	1.66	6.20	28.1	.6	5	0		"
406	3-31	915A / 930A	"	16.0	16.5	1.62	6.13	26.7	.6	5	0		"
407	4-7	930A / 942A	"	16.0	16.8	1.62	6.11	27.2	.6	5	0		"
408	4-14	925A / 940A	"	16.0	17.6	1.48	6.14	26.1	.6	5	0		"
409	4-21	930A / 945A	"	16.0	16.5	1.58	6.13	26.0	.6	5	0		"
410	4-28	930A / 945A	"	16.0	17.9	1.59	6.23	28.4	.6	5	0		"
411	5-5	858A / 912A	"	18.0	17.5	1.52	6.16	26.6	.6	5	0		"
412	5-12	900A / 915A	Wood & Brewster	18.0	17.2	1.44	6.15	24.7	.6	5	0		"
413	5-19	948A / 1002A	Brewster	17.0	17.4	1.53	6.15	26.6	.6	5	0		"
414	5-26	835A / 850A	"	17.0	17.0	1.51	6.16	25.6	.6	5	0		"
415	6-2	900A / 915A	"	17.0	17.0	1.38	6.19	23.5	.6	5	0		"
416	6-8	912A / 920A	Brewster & Bonadiman	17.0	17.4	1.45	6.17	25.2	.6	5	0		"
417	6-15	857A / 905A	Bonadiman	15.0	16.6	1.40	6.19	23.3	.6	6	0		FC19
418	6-22	852A / 900A	"	16.5	18.4	1.32	6.18	24.2	.6	7	0		"
419	6-29	915A / 935A	Brewster	15.0	17.1	1.47	6.18	25.2	.6	5	0		FC12
420	7-6	925A / 940A	"	16.0	17.6	1.45	6.16	25.5	.6	5	0		"
421	7-13	900A / 915A	"	17.0	17.6	1.36	6.17	23.9	.6	5	0		"
422	7-20	900A / 912A	"	16.0	16.6	1.45	6.10	24.1	.6	5	0		"
423	7-27	915A / 930A	"	15.0	16.4	1.49	6.09	24.4	.6	5	0		"
424	8-3	855A / 910A	"	17.0	17.0	1.45	6.09	24.7	.6	5	0		"
425	8-10	855A / 908A	"	17.0	17.0	1.44	6.09	24.5	.6	5	0		"
426	8-17	855A / 907A	Brewster	16.0	16.8	1.43	6.11	24.0	.6	5	0		FC12
427	8-24	858A / 910A	"	16.0	16.5	1.45	6.14	24.0	.6	5	0		"
428	8-31	915A / 927A	"	16.0	16.5	1.43	6.15	23.7	.6	5	0		"
429	9-7	840A / 855A	"	16.0	15.8	1.42	6.16	22.5	.6	5	0		"
430	9-14	830A / 842A	"	16.0	16.1	1.37	6.16	22.1	.6	5	0		"
431	9-21	856A / 908A	"	15.0	15.0	1.54	6.16	23.2	.6	5	0		"
432	9-28	842A / 854A	Stunden & Brewster	16.0	15.8	1.48	6.16	22.8	.6	5	0		"

F. C. Dis. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F83-R

Daily discharge, in second-feet of RIO HONDO SLOUGH at San Gabriel Boulevard, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	20	22	23	28	26	41	26	28	23	25	24	24
2	20	22	23	27	26	67	26	27	23	25	24	23
3	20	22	23	27	26	a39	27	27	24	25	24	23
4	20	22	23	27	26	36	27	27	24	25	25	23
5	20	22	23	27	25	49	27	26	24	25	25	23
6	21	22	24	30	25	36	27	26	24	25	25	22
7	21	22	24	29	25	34	27	26	24	25	24	22
8	21	22	23	28	25	33	27	26	25	25	24	21
9	21	22	23	28	25	a32	27	25	25	25	24	21
10	21	22	28	27	24	a32	27	25	25	25	24	22
11	21	21	31	27	24	31	26	25	24	25	24	22
12	21	22	28	27	24	31	26	25	24	24	24	22
13	21	22	26	26	24	30	26	25	24	24	24	22
14	22	22	25	26	24	29	26	25	24	24	23	22
15	22	22	25	26	25	29	26	25	23	24	23	22
16	22	22	24	26	25	29	26	26	23	24	23	22
17	22	23	24	26	25	28	26	26	23	25	24	23
18	22	23	28	25	26	28	25	26	23	24	24	23
19	22	23	32	26	26	28	25	26	23	24	24	23
20	22	23	33	26	49	28	25	26	23	24	24	23
21	22	23	35	26	55	28	26	26	23	24	24	23
22	22	23	28	26	176	28	26	26	24	24	23	23
23	22	23	27	26	59	28	26	26	24	24	23	23
24	22	23	26	27	a 41	28	26	26	24	24	24	23
25	22	23	26	27	a 38	28	26	26	24	24	24	22
26	22	23	25	27	39	27	26	25	25	24	24	23
27	22	23	25	27	39	27	30	25	25	24	24	22
28	22	23	26	28	36	27	28	25	25	24	23	22
29	22	23	32	27	35	26	28	24	25	24	23	23
30	22	23	31	27		26	28	24	25	24	23	23
31	22		31	27		26		23		24	23	
	664	673	825	834	1043	989	795	794	719	756	738	675
MEAN	21.4	22.4	26.6	26.9	35.9	31.9	26.5	25.6	24.0	24.4	23.8	22.5
ACRE-FEET	1320.	1330.	1640.	1650.	2070.	1960.	1580.	1570.	1430.	1500.	1460.	1340.

Remarks:

YEAR OR PERIOD MEAN 26.0
ACRE-FEET 18,850.

STATION U14-R

ROCK CREEK above Mouth of Canyon

LOCATION:

Water-stage recorder, lat. 34°25'10", long. 117°50'17", 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 1944.

AVERAGE DISCHARGE:

20 years (1923-37, 1938-44), 16.9 second-feet.

EXTREMES:

Maximum discharge during year, 180 second-feet, December 19, (gage height, 2.98 feet); minimum, 6.5 second-feet November 28 to December 4.

1923-1944

Maximum discharge, 8,300 second-feet Mar. 2, 1938, by slope-area method; minimum, 1.2 second-feet Aug. 22, 1925.

REMARKS:

Records good. No diversions above station.

COOPERATION:

Records furnished by the United States Geological Survey, with the exception of 12 discharge measurements furnished by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U14-R

DISCHARGE MEASUREMENTS OF ROCK CREEK above Mouth of Canyon 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	METH OD	MEAS. SECT. NO.	G. HT. CHANGE TOTAL	METER NO.
653	10-5		U.S.G.S.	11.6	5.0	1.64	2.09	8.2		.6	11	0	
654	10-19		"	11.5	5.3	1.51	2.09	8.0		.6	19	0	
655	10-24	1015A / 1030A	Luce	12.5	5.8	1.24	2.09	7.2		.6	7	0	FC39
656	11-6		U.S.G.S.	12.0	5.1	1.43	2.07	7.3		.6	19	0	
657	11-23		"	11.0	5.2	1.36	2.10	7.1		.6	18	0	
658	12-1	410P / 420P	Luce	11.5	5.6	1.18	2.09	6.6		.6	7	0	FC39
659	12-9		U.S.G.S.	13.0	5.5	1.29	2.11	7.1		.6	20	0	
660	12-13		"	12.0	5.9	1.71	2.16	10.1		.6	21	0	
661	12-12		"	15.0	8.7	1.94	2.20	16.8		.6	24	0	
662	1-1	505P / 515P	Luce	16.0	9.8	1.52	2.18	14.9		.6	8	0	FC39
663	1-12		U.S.G.S.	15.	7.2	1.72	2.15	12.4		.6	14	0	
664	1-28		"	9.0	5.6	2.11	2.15	11.8		.6	9	0	
665	1-29	425P / 440P	Luce	12.5	8.8	1.48	2.15	13.0		.6	7	0	FC39
666	2-11		U.S.G.S.	11.0	7.1	2.20	2.22	15.6		.6	22	0	
667	3-3		"	18.0	11.2	3.12	2.40	34.9		.6	17	0	
668	3-24		"	24.	16.5	3.51	2.55	58.		.6	13	0	
669	4-7		"	22.	17.8	3.82	2.79	68.		.6	11	0	
670	4-20		"	26.	17.8	3.37	2.57	60.		.6	13	0	
671	5-4		"	25.	22.0	3.59	2.65	79.		.6	13	0	
672	5-17	522P / 540P	Luce	25.5	22.4	3.29	2.63	74.		.6	10	0	FC39
673	5-18		U.S.G.S.	24.6	17.8	3.60	2.60	64.		.6	12	0	
674	6-2		"	24.8	22.2	4.15	2.62	92.		.6	12	0	
675	6-15		"	26.4	18.9	3.38	2.55	64.		.6	14	0	
676	6-29		U.S.G.S.	24.4	16.8	3.21	2.43	54.		.6	12	0	
677	6-30	445P / 500P	Luce	21.0	15.7	2.89	2.38	45.4		.6	8	0	FC39
678	7-11		U.S.G.S.	24.3	12.2	2.71	2.35	33.0		.6	12	0	
679	7-14	625P / 635P	Luce	20.0	13.7	2.50	2.31	34.2		.6	10	0	FC39
680	7-27		"	24.	10.2	2.51	2.28	25.6		.6	12	0	
681	8-10		"	24.	11.3	2.30	2.26	26.0		.6	12	0	
682	8-15	200P / 206P	Luce	18.0	10.9	1.96	2.23	21.4		.6	10	0	FC39
683	8-24		U.S.G.S.	23.7	9.0	1.75	2.21	15.8		.6	12	0	
684	9-7		"	23.6	8.2	1.77	2.15	14.5		.6	12	0	
685	9-21		"	21.3	6.2	1.76	2.09	10.9		.6	11	0	

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U14-R

Daily discharge, in second-feet of ROCK CREEK above Mouth of Canyon, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8	7.5	6.5	15	14	32	58	69	91	49	27	16
2	8	7.5	6.5	15	15	39	65	79	91	46	27	16
3	8	7.5	6.5	15	15	36	72	85	87	44	27	15
4	8	7.5	6.5	15	15	38	73	83	85	42	26	15
5	8	7.5	7	15	15	39	71	81	83	41	26	15
6	8	7.5	7	15	15	39	69	87	83	39	26	15
7	8	7.5	7	15	15	36	69	89	81	38	26	15
8	8	7.5	7	15	17	36	69	93	83	34	26	15
9	8	7.5	7	14	17	38	64	91	79	33	26	14
10	8	7.5	10	14	16	50	56	89	75	32	26	14
11	8	7	23	12	16	71	58	87	71	32	24	14
12	7.5	7	11	12	16	79	64	85	69	33	23	14
13	7.5	7	9	12	15	77	60	83	66	36	23	13
14	7.5	7	9	12	14	67	60	85	64	38	22	13
15	7.5	7	7.5	11	15	56	62	85	60	36	22	13
16	7.5	7	7.5	11	14	49	66	79	56	34	22	12
17	7.5	7	7.5	11	14	47	62	77	56	32	20	12
18	8	7	17	10	13	52	58	69	56	30	20	12
19	8	7	112	10	13	60	58	69	56	30	20	12
20	8	7	92	10	14	64	59	75	56	30	19	12
21	7.5	7	87	11	14	60	56	77	56	27	19	11
22	7.5	7	52	11	51	54	52	85	56	27	19	11
23	7	7	38	11	27	54	54	87	54	27	17	10
24	7	7	30	12	20	60	56	85	54	27	16	10
25	7	7	23	12	20	66	56	83	52	26	17	10
26	7	7	20	12	18	66	58	83	52	26	18	10
27	7	7	17	12	17	64	64	87	50	26	18	10
28	7	6.5	15	12	17	60	58	89	50	27	17	10
29	7	6.5	15	13	19	56	56	91	50	27	17	10
30	7	6.5	14	13		52	60	93	49	27	17	9
31	7		15	14		54		93		27	16	
	235.0	2135	692.5	392	501	1651	1843	2593	1971	1023	669	378
Mean	7.58	7.12	22.3	12.6	17.3	53.3	61.4	83.6	65.7	33.0	21.6	12.6
Acre-Feet	466.	423.	1,370.	778.	994.	3,270.	3,660.	5,140.	3,910.	2,030.	1,330.	750.

Remarks:

Year or Period: Mean 33.2; Acre-Feet 24,120.

STATION U6-R

ROGERS CREEK above Mouth of Canyon

LOCATION:

Water-stage recorder, lat. 34°09'55", long. 117°54'22", in NW¼NW¼ sec. 23, T. 1N., R. 10W., half a mile upstream from mouth and 2.5 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 1944.

AVERAGE DISCHARGE:

27 years, 3.49 second-feet.

EXTREMES:

1943-1944
Maximum discharge during year, 494 second-feet, February 22 (gage height, 6.48 feet), no flow for several days.
1917-1944
Maximum discharge, about 2,600 second-feet April 7, 1926; no flow for parts of each year.

REMARKS:

Records good below 60 second-feet and fair above. Entire flow diverted above station at times.

COOPERATION:

Records furnished by the United States Geological Survey with the exception of 24 discharge measurements furnished by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U6-R

DISCHARGE MEASUREMENTS OF ROGERS CREEK

at or near above Mouth of Canyon 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	Mean Sec. No.	G. Ht. Change Total	Meter No.
1188	10-8		U. S. G. S.	1.2	.28	.43	1.91	.12		.6	4	0	
1189	10-14	1100A / 1103A	Moon	1.2	.22	.41	1.90	.09		.6	2	0	FC22
1190	10-21	1215P / 1220P	"	5.0	1.2	.32	1.99	.38		.6	5		"
1191	10-22		U. S. G. S.	2.0	.48	.81	1.99	.39		.6	4	0	
1192	10-28	122P / 126P	Moon	4.0	.97	.35	1.96	.34		.6	4	0	FC22
1193	11-6		U. S. G. S.	2.0	.44	.70	1.96	.31		.6	4	0	
1194	11-12	1008A / 1012A	Moon	3.6	.72	.31	1.93	.22		.6	4		FC22
1195	11-18	145P / 151P	"	5.0	1.0	.64	2.02	.64		.6	6		"
1196	11-19		U. S. G. S.	2.0	.50	.94	2.02	.47		.6	4	0	
1197	11-26	1050A / 1056A	Moon	5.0	.89	.57	1.98	.51		.6	6		FC22
1198	11-27		U. S. G. S.	2.0	.48	.94	2.01	.45		.6	4	0	
1199	12-2	112P / 118P	Moon	5.0	.90	.56	2.00	.50		.6	6		FC22
1200	12-6		U. S. G. S.	2.5	.74	1.49	2.12	1.1		.6	5	0	
1201	12-9	250P / 256P	Moon	5.5	1.1	.55	2.02	.61		.6	6		FC22
1202	12-10		U. S. G. S.	14	4.5	.93	2.37	4.2		.6	14	+.01	
1203	12-11		"	16	8.5	1.34	2.55	11.4		.6	16	-.01	
1204	12-16	1226P / 1232P	Moon	5.5	1.3	.85	2.10	1.1		.6	6		FC22
1205	12-18		U. S. G. S.	14	4.4	.52	2.22	2.3		.6	14	0	
1206	12-19		"	18	11.4	2.10	2.96	24.0		.6	18	-.02	
1207	12-20		"	13	10.1	.86	2.65	8.7		.6	13	0	
1208	12-21		"	18.5	10.4	2.00	2.81	20.8		.6	18	-.02	
1209	12-22		U. S. G. S.	15	6.2	1.16	2.37	7.2		.6	15	0	
1210	12-23	207P / 215	Moon	8.0	3.6	1.08	2.25	3.9		.6	6	0	FC22
1211	12-29		U. S. G. S.	14	5.5	1.02	2.33	5.6		.6	14	-.01	

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U6-R

DISCHARGE MEASUREMENTS OF ROGERS CREEK

AT above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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. REC. NO.	G. HT. CHANGE TOTAL	METER NO.
1212	12-29	1213P	1223P	Moon & Stunden	8.0	4.2	1.19	2.29	5.0		.6	5	0	FC22
1213	12-29			U. S. G. S.	8.0	3.2	1.00	2.25	3.2		.6	8	0	
1214	12-31			"	8.0	3.4	1.07	2.23	3.6		.6	16	0	
1215	1-6	225P	235P	Moon	8.0	3.1	.87	1.88	2.7		.6	8		FC22
1216	1-7			U. S. G. S.	75	2.6	.92	1.82	2.4		.6	13	0	
1217	1-14			"	7.3	2.1	.71	1.68	1.5		.6	14	0	
1218	1-21			"	5.8	1.5	.67	1.89	1.0		.6	11	0	
1219	1-24			"	6.0	2.2	1.09	2.03	2.4		.6	12	0	
1220	1-27	1235P	1240P	Moon	5.6	1.8	.94	1.98	1.7		.6	5		FC22
1221	1-28			U. S. G. S.	5.2	1.6	1.00	1.96	1.6		.6	10	0	
1222	2-3	130P	135P	Moon	5.0	1.5	.93	1.97	1.4		.6	5		FC22
1223	2-4			U. S. G. S.	7.0	3.8	1.00	2.20	3.8		.6	14	-.01	
1224	2-9			"	8.0	4.0	.90	2.23	3.6		.6	15	0	
1225	2-10	1235P	1240P	Moon	5.2	2.4	1.46	2.12	3.5		.6	5		FC22
1226	2-11			U. S. G. S.	7.0	3.3	.82	2.10	2.7		.6	14	0	
1227	2-17	225P	230P	Moon	5.2	2.0	1.10	2.04	2.2		.6	5		FC22
1228	2-18			U. S. G. S.	7.2	3.2	.66	2.03	2.1		.6	14	0	
1229	2-20			"	20	13.1	2.34	3.11	30.7		.6	20	-.01	
1230	2-21			"	19	11.6	2.08	2.96	24.1		.6	19	-.01	
1231	2-21			"	20	14.9	2.50	3.25	37.4		.6	20	+.04	
1232	2-22			U. S. G. S.	28	45.8	9.17	6.15	420.	Sur. Vel. Est.	.6	11	+.10	
1233	2-22			"	29.5	53.7	8.72	6.30	468.		.6	12	-.17	
1234	2-23			"	24.5	23.4	4.15	4.08	97.		.6	10	-.01	
1235	2-25			"	14	11.6	2.81	3.26	32.6		.6	14	0	
1236	2-26			U. S. G. S.	14	9.0	2.64	3.17	23.8		.6	14	+.02	
1237	2-28			"	13.5	7.4	2.45	2.90	18.1		.6	18	0	
1238	2-29			"	12.4	7.6	2.03	2.84	15.4		.6	13	0	
1239	3-2			"	20	16.0	3.38	3.56	54		.6	20	-.01	
1240	3-6			"	14	11.5	2.44	3.16	28.1		.6	16	0	
1241	3-9			"	13.2	9.3	2.04	2.98	19.0		.6	15	0	
1242	3-10			U. S. G. S.	13	8.8	1.92	2.88	16.9		.6	14	0	
1243	3-17			"	13	8.4	1.31	2.72	11.0		.6	14	0	
1244	3-24			"	13	6.6	1.24	2.64	8.2		.6	14	0	
1245	3-31			"	12	5.4	1.00	2.58	5.4		.6	12	0	
1246	4-7			"	11.5	4.7	.87	2.54	4.1		.6	11	0	
1247	4-13	210P	218P	Moon	9.0	2.7	1.33	2.52	3.6		.6	8	0	FC22
1248	4-14			U. S. G. S.	9.0	4.3	.88	2.52	3.8		.6	9	0	
1249	4-21			"	9.0	3.6	.72	2.48	2.6		.6	9	0	
1250	4-28			"	9.0	4.3	.95	2.52	4.1		.6	9	0	
1251	5-4	125P	129P	Moon	4.0	3.1	1.29	2.47	4.0		.6	4	0	FC22
1252	5-5			U. S. G. S.	9.0	3.6	.69	2.46	2.5		.6	9	0	
1253	5-11	304P	314P	Moon	Two Channels			2.45	2.3		.6	9		FC22
1254	5-12			U. S. G. S.	9.0	3.4	.56	2.44	1.9		.6	9	0	
1255	5-19			"	9.0	3.3	0.54	2.43	1.8		.6	9	0	
1256	5-26			"	6.0	2.2	.68	2.40	1.5		.6	12	0	
1257	6-1	212P	218P	Moon	6.0	2.1	.86	2.41	1.8		.6	6		FC22
1258	6-2			U. S. G. S.	8.0	2.2	.77	2.42	1.7		.6	12	0	
1259	6-8	235P	240P	Moon	6.0	2.0	.78	2.40	1.6		.6	6	0	FC22
1260	6-9			U. S. G. S.	6.0	2.3	.74	2.43	1.7		.6	12	0	
1261	6-15	330P	340P	Moon	6.0	1.9	.72	2.39	1.4		.6	6	0	FC22
1262	6-16			U. S. G. S.	6.0	2.1	.62	2.39	1.3		.6	12	0	
1263	6-22	340P	345P	Haig	5.8	1.7	.58	2.35	1.0		.6	5	0	FC35
1264	6-23			U. S. G. S.	6.0	1.9	.38	2.37	.72		.6	12	0	
1265	6-30			"	2.0	.60	1.01	2.33	.61		.6	4	0	
1266	6-30			"	5.0	1.5	.31	2.33	.46		.6	10	0	
1267	7-6	148P	151P	Moon	2.0	.62	1.31	2.35	.81		.6	3	0	FC22
1268	7-14			U. S. G. S.	2.0	.64	1.11	2.37	.71		.6	4	0	
1269	7-21			"	2.0	.60	.98	2.34	.59		.6	4	0	
1270	7-28			"	2.0	.60	.91	2.32	.55		.6	4	0	
1271	8-10			"	2.0	.60	.43	2.28	.26		.6	4	0	
1272	8-18			"	1.0	.25	.48	2.23	.12		.6	2	0	
1273	8-26			"				2.04	.02	Est.			0	
1274	9-1			"				2.11	.06	"				
1275	9-15			"	1.0	.25	.60	2.12	.14		.6	2	0	
1276	9-23			"	1.0	.06	.05	2.07	.03		.6	2	0	

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U6-R

Daily discharge, in second-feet of ROGERS CREEK above Mouth of Canyon, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.3	0.4	2.7	1.8	27	4.9	3.8	1.7	0.6	0.6	0.1
2	0	0.3	0.5	2.4	1.5	61	4.9	3.8	1.7	0.6	0.6	0.2
3	0	0.2	0.5	2.1	1.7	43	4.9	3.5	1.6	0.6	0.4	0.3
4	0	0.2	0.3	2.0	6	36	4.6	3.2	1.3	0.7	0.4	0.3
5	0	0.2	0.4	1.8	2.4	32	4.6	3.0	1.3	0.6	0.2	0.3
6	0	0.3	0.9	5	2.1	28	4.3	2.8	1.3	0.7	0.2	0.1
7	0.1	0.2	0.7	2.1	1.8	24	4.0	2.6	1.3	0.7	0.1	0
8	0.1	0.2	0.7	1.8	3.9	21	4.0	2.6	1.4	0.6	0.1	0
9	0.2	0.2	0.7	1.8	3.7	18	4.0	2.6	1.7	0.7	0.2	0
10	0.2	0.2	3.3	1.8	3.2	16	3.8	2.4	1.7	0.7	0.3	0
11	0.1	0.2	8.5	1.8	2.8	15	3.8	2.2	1.7	0.7	0.1	0
12	0.1	0.2	3.1	1.7	2.2	15	3.5	2.2	1.7	0.7	0.1	0.1
13	0.1	0.2	2.0	1.6	2.1	16	3.5	2.1	1.6	0.7	0.1	0.1
14	0.1	0.2	1.6	1.5	2.0	14	3.5	1.9	1.6	0.6	0.1	0.1
15	0.1	0.3	1.3	1.6	3.5	12	3.2	1.9	1.4	0.6	0.1	0.1
16	0.1	0.4	1.1	1.5	2.2	12	3.0	1.9	1.3	0.6	0.2	0.1
17	0.1	0.5	1.0	1.5	2.1	11	3.0	1.9	1.3	0.6	0.2	0.2
18	0.9	0.6	2.0	1.4	2.1	11	3.0	1.9	1.2	0.5	0.1	0.2
19	0.9	0.6	1.9	1.1	2.2	10	3.0	1.9	1.0	0.4	0.2	0.2
20	0.4	0.6	1.7	1.1	1.7	10	3.0	1.9	1.0	0.4	0.2	0.2
21	0.4	0.7	2.5	1.0	4.2	9	2.8	1.7	0.9	0.4	0.1	0.1
22	0.4	0.6	6.5	1.3	260	8.5	2.6	1.7	0.9	0.4	0	0.1
23	0.4	0.6	3.9	1.5	97	8.5	2.4	1.7	0.9	0.4	0	0
24	0.4	0.5	2.5	4.6	44	8	2.4	1.6	0.9	0.5	0	0
25	0.4	0.4	1.5	2.1	31	8	2.4	1.6	0.9	0.5	0.1	0
26	0.4	0.4	0.7	1.7	22	7.5	2.4	1.6	0.9	0.5	0	0
27	0.2	0.4	0.2	1.7	19	7.5	8	1.6	0.9	0.6	0	0
28	0.3	0.4	0.4	1.6	18	7	4.6	1.4	0.9	0.6	0	0.1
29	0.3	0.4	2.8	1.5	16	6.5	4.0	1.4	0.8	0.6	0	0.1
30	0.3	0.4	2.6	1.6		6	4.0	1.6	0.7	0.6	0	0.1
31	0.3		4.0	1.6		5.5		1.7		0.6	0.1	
	7.4	10.9	115.1	58.5	615.3	514.0	112.1	67.7	37.5	18.0	4.8	3.1
MEAN	0.24	.36	3.71	1.89	21.2	16.6	3.74	2.18	1.25	.58	.15	.10
ACRE-FEET	15.	22.	228.	116.	1,220.	1,020.	222.	134.	74.	36.	9.5	6.1

Remarks:

YEAR OR PERIOD MEAN 4.27
ACRE-FEET 3,100.

STATION F 82C-R

RUBIO WASH at Glendon Way

LOCATION:

Water-stage recorder, lat. 34°04'27", long. 118°04'35", on the left (east) side of channel 10 feet south of the westerly extension of Glendon way, Rosemead. Elevation of zero gage height, 274.06 feet.

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, 1943 to September 30, 1944.

REGULATION:

Flow partially regulated by Los Flores and Rubio Debris Basins.

DIVERSIONS:

None.

RECORDS AVAILABLE:

November 6, 1936 to September 30, 1944. For previous records on Rubio Wash see Stations F82-R, F107-R, F82B-R, in previous reports.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,930 second-feet, February 22.
Minimum no flow part of year.
1930-1944 (Stations F82-R, F82B-R, F82C-R)
Maximum 2,780 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 Corps of Engineers, U.S. Army.

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

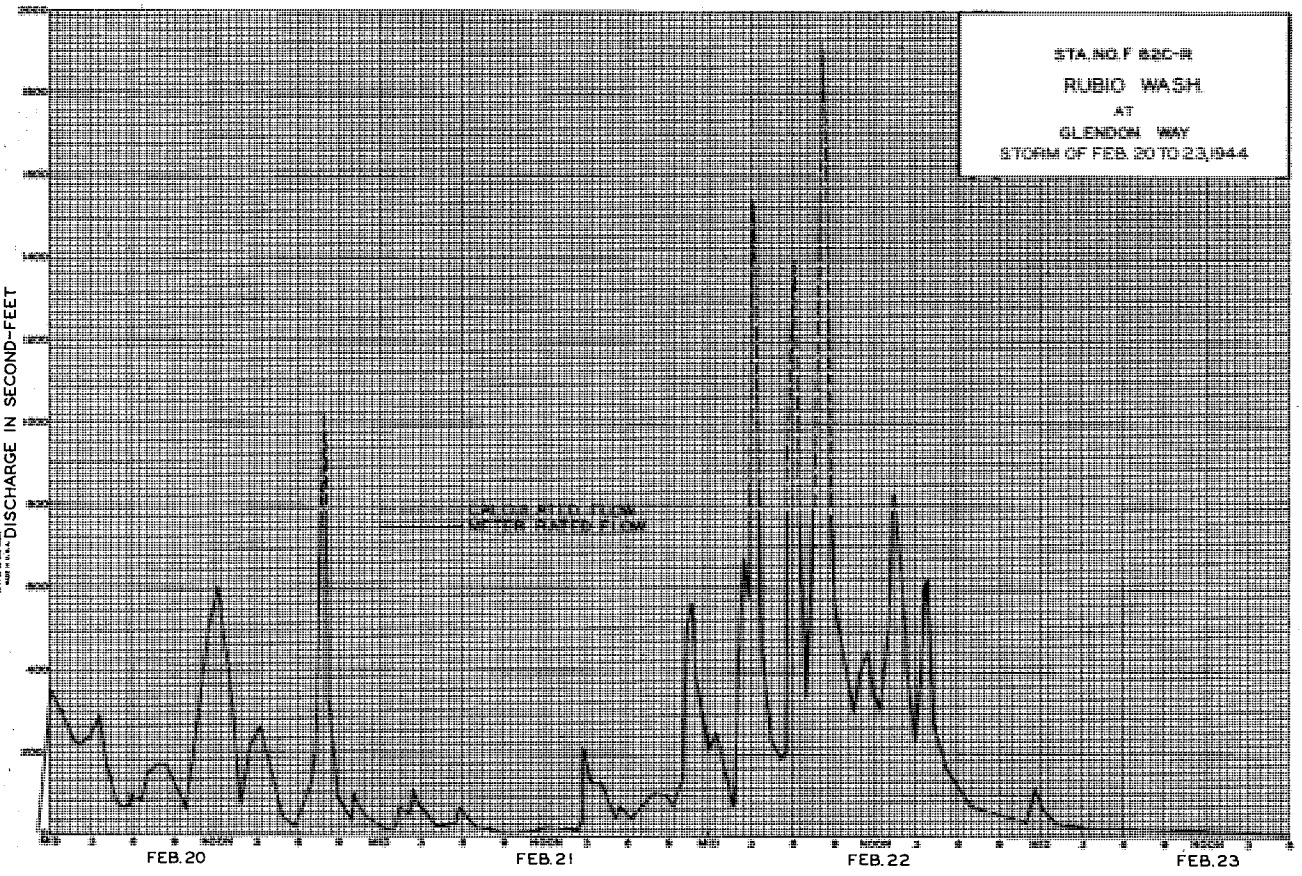
Sta. No. F82C-R

Daily discharge, in second-feet of RUBIO WASH at Glendon Way, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0	+	0.2	0.4	116	0.1	0.2	+	+	+	+
2	+	+	0	0.6	0.4	65	0.2	0.2	0.2	+	+	+
3	+	+	0	0.4	12	12	0.2	+	0.1	+	+	+
4	+	0	0	0.1	7.5	30	0.1	0.2	+	+	+	+
5	+	+	0.6	3.5	+	8	0.1	0.2	0.2	+	+	+
6	+	+	26	14	0	6	0.1	0.1	1.0	+	+	+
7	+	0	+	+	0	4.8	0.2	+	0.2	+	+	+
8	+	+	0	+	14	2.5	0.1	0	0.2	+	+	+
9	+	0	0	0	0.1	1.4	0.1	0	+	+	+	+
10	+	0	8.0	+	+	0.2	0.1	0	+	+	+	+
11	+	+	36	+	1.8	1.9	0.1	+	+	+	+	+
12	+	+	4.7	0	+	1.9	+	+	+	+	+	0
13	+	0	+	0	+	4.8	0	+	+	+	+	+
14	+	0	0	0	+	3.6	0	0.1	+	+	+	+
15	+	0	0	+	12	1.4	0	0.1	+	+	+	+
16	+	0	0	0.1	+	1.4	0	0.1	+	+	+	+
17	+	0.9	+	0.2	3.9	1.4	+	0.1	+	+	+	+
18	7.5	+	4.9	+	+	1.4	0.1	0.1	+	+	+	+
19	+	0	6.3	+	18	1.0	0.1	0.1	+	+	+	+
20	+	+	7.2	+	196	1.0	+	0.1	+	+	+	+
21	+	0	4.2	+	71	1.0	0.1	0.1	+	+	+	+
22	+	0	+	0.1	393	1.0	0.1	0.1	+	+	+	+
23	+	0	+	7.5	20	1.0	0.2	0.2	+	+	+	+
24	+	0	+	4.4	6	1.0	0.2	0.2	+	+	+	+
25	+	0	+	0.1	1.4	0.4	0.4	0.2	+	+	+	+
26	0.1	0	0	0.1	8	0.2	1.9	0.1	+	+	+	+
27	0.9	0	+	+	1.4	0.2	9.5	0.1	+	+	+	+
28	+	0	1.9	+	1.0	0.2	0.2	0.2	+	+	+	+
29	0.8	+	3.7	+	0.6	0.4	0.1	+	+	+	+	+
30	+	+	3.1	0.4		0.2	0.2	+	+	+	+	+
31	0		0.6	0.2		0.2		0.6		+	+	
	9.3	0.9	423.1	31.9	768.5	271.5	100.0	3.4	1.9	+	+	+
MEAN	0.33	0.03	13.6	1.03	26.5	8.76	3.33	0.11	0.06	+	+	+
ACRE-FEET	18.	1.8	839.	63.	1520.	539.	198.	6.7	3.8	+	+	+

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

YEAR OR PERIOD MEAN 4.40
ACRE FEET 3190.



STATION U15-R

SAN ANTONIO CREEK below Edison Company Power Plant

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 1944.

AVERAGE DISCHARGE:

27 years (1917-44), 11.8 second-feet. Average combined discharge of creek and conduit, 27 years (1917-44), 24.7 second-feet.

EXTREMES:

1943-1944
Maximum discharge during year, 120 second-feet, April 8, (gage height, 2.30 feet); minimum 1.2 second-feet September 26, 27.

1917-1944
Maximum discharge, 21,400 second-feet March 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, and is published in combination with U15-R.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U15-R

DISCHARGE MEASUREMENTS OF SAN ANTONIO CREEK

~~AT~~ below Edison Company Power Plant DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
923	10-8		U.S.G.S.	Three Channels			.96	1.5		.6	14	0	
924	10-21		"	6.0	3.0	.57	0.98	1.7		.6	12	0	
925	11-4		"	6.5	3.1	0.52	0.95	1.6		.6	13	0	
926	11-16		"	7.3	3.9	.49	0.98	1.9		.6	13	-.02	
927	11-18		"	5.9	2.8	.79	0.98	2.2		.6	12	0	
928	11-23		"	5.0	1.4	1.21	1.63	1.7		.6	9	0	
929	11-24		"	Two Channels			1.61	1.8		.6	11	0	
930	12-2		"	5.3	1.5	1.00	0.90	1.5		.6	9	0	
931	12-3		"	Two Channels			0.89	2.2		.6	10	0	
932	12-14		"	"	"		1.03	3.8		.6	14	0	
933	12-17		"	Three Channels			0.94	3.1		.6	15	0	
934	12-22		"	10.7	10.3	.59	1.23	6.1		.6	11	0	
935	1-1		"	Three Channels			1.08	4.1		.6	15	0	
936	1-6		"	"	"		1.05	3.8		.6	15	0	
937	1-13		"	"	"		0.98	3.5		.6	14	0	
938	1-19		"	"	"		0.97	3.2		.6	14	0	
939	1-27		"	"	"		0.98	3.6		.6	15	0	
940	2-3		"	"	"		0.98	3.4		.6	14	0	
941	2-9		"	5.8	3.0	1.23	1.06	3.7		.6	11	0	
942	2-16		"	Three Channels			1.06	4.3		.6	14	0	
943	3-1		"	15.	7.6	1.12	1.38	8.5		.6	13	0	
944	3-13		U.S.G.S.	18.7	14.9	1.84	1.90	27.4		.6	17	0	
945	3-25		"	Two Channels			2.04	46.7		.6	26	0	
946	3-30		"	19.6	21.8	2.66	2.06	58.		.6	16	0	
947	3-30		U.S.G.S.	Two Channels			2.06	59.		.6	25	0	
948	4-6		"	"	"		2.17	78.		.6	26	0	
949	4-13		"	"	"		2.11	67.		.6	26	0	
950	4-20		"	"	"		2.12	68.		.6	26	0	
951	4-27		"	"	"		2.09	66.		.6	26	0	
952	5-4		"	"	"		2.07	63.		.6	26	0	
953	5-11		"	"	"		2.16	70.		.6	28	0	
954	5-18		"	"	"		2.05	60.		.6	20	0	
955	5-25		"	"	"		2.05	49.7		.6	26	0	
956	6-1		"	"	"		2.04	45.8		.6	25	0	
957	6-8		"	"	"		1.96	38.0		.6	27	0	
958	6-15		"	"	"		1.87	29.2		.6	25	0	
959	6-22		"	"	"		1.80	19.6		.6	18	0	
960	6-29		"	"	"		1.62	14.1		.6	18	-.01	
961	7-13		"	"	"		1.31	7.5		.6	10	0	
962	7-20		"	"	"		1.14	4.3		.6	16	-.01	
963	7-27		"	"	"		1.00	2.9		.6	11	0	
964	8-11		"	"	"		.92	2.0		.6	12	0	
965	8-21		"	"	"		.92	1.8		.6	12	0	
966	9-1		"	"	"		.92	1.6		.6	12	0	
967	9-14		"	"	"		0.90	1.5		.6	12	0	
968	9-22		"	"	"		.90	1.4		.6	11	0	

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U15-R

Daily discharge, in second-feet of SAN ANTONIO CREEK below Edison Company Power Plant Diversion, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	1.8	1.8	4.0	3.4	9.5	64	62	46	14	2.2	1.6
2	1.4	1.8	1.8	3.7	3.4	12	67	62	45	14	2.1	1.6
3	1.4	1.7	1.7	3.7	3.4	13	70	62	44	13	2.1	1.6
4	1.5	1.7	1.7	3.7	4.0	13	75	62	42	13	2.1	1.5
5	1.5	1.8	1.9	3.7	3.4	14	82	66	40	12	2.1	1.5
6	1.5	2.7	1.9	4.0	3.3	14	82	70	40	12	2.1	1.5
7	1.6	2.0	1.9	3.9	3.1	14	82	72	38	11	2.0	1.5
8	1.5	1.9	1.7	3.9	4.7	14	85	75	38	11	2.0	1.5
9	1.5	1.8	2.0	3.9	3.9	14	82	75	38	10	2.0	1.5
10	1.6	1.8	9	3.9	4.0	17	74	77	38	10	2.0	1.5
11	1.5	1.9	18	3.9	3.9	24	70	74	36	9.5	2.0	1.5
12	1.4	1.8	9.5	3.9	3.7	26	69	74	33	9	2.0	1.5
13	1.4	1.9	6	3.7	3.4	29	69	70	32	8.5	2.0	1.5
14	1.3	2.1	4.0	3.4	3.6	31	66	69	32	8	2.0	1.5
15	1.3	1.8	4.3	3.4	4.2	31	64	67	30	7.5	2.0	1.5
16	1.3	1.8	3.3	3.5	4.3	30	64	66	29	7	2.0	1.5
17	1.3	2.2	3.1	3.1	4.5	30	66	61	28	6.5	2.0	1.5
18	1.9	2.2	3.4	3.1	4.5	31	66	59	26	6	2.0	1.5
19	1.7	2.4	6	3.1	4.5	32	67	58	24	5.5	1.9	1.5
20	1.7	2.4	9	3.1	5.5	34	69	56	23	5	1.8	1.5
21	1.7	2.1	9	3.3	7	36	67	55	22	4.7	1.8	1.5
22	1.7	2.0	6	3.3	32	37	64	53	21	4.5	1.8	1.5
23	1.6	1.8	4.5	3.4	26	38	62	52	20	4.3	1.8	1.9
24	1.6	1.8	3.6	3.9	14	40	62	52	19	4.0	1.7	1.6
25	1.6	1.8	3.4	3.9	11	44	62	51	19	3.7	1.7	1.3
26	1.6	1.8	3.6	3.7	9.5	52	62	48	17	3.6	1.7	1.2
27	1.6	1.9	3.1	3.7	8.5	55	66	47	17	3.6	1.6	1.2
28	1.7	1.9	7	3.6	8	55	62	46	16	3.6	1.6	1.3
29	1.7	1.7	3.9	3.6	7.5	66	62	46	17	3.1	1.6	1.3
30	1.7	1.7	4.2	3.6		59	62	46	14	2.6	1.7	1.3
31	1.7		4.2	3.4		61		46		2.4	1.6	
	47.9	58.0	144.5	111.8	202.2	975.5	2064	1879	884	232.6	59.0	44.4
MEAN	1.55	1.93	4.66	3.61	6.97	31.5	68.8	60.6	29.5	7.50	1.90	1.48
ACRE-FEET	95.	115.	287.	222.	401.	1,930.	4,090.	3,730.	1,750.	461.	117.	88.

Remarks:

YEAR OR PERIOD MEAN 18.3
ACRE-FEET 13,290.

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No.

Daily discharge, in second-feet of SAN ANTONIO CREEK and SOUTHERN CALIFORNIA EDISON CO. CONDUIT, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	13	12	20	15	26	86	84	70	38	25	20
2	13	13	11	20	15	29	89	84	69	38	25	20
3	13	13	11	20	15	30	92	84	68	37	25	20
4	14	13	11	20	16	30	97	84	66	37	24	20
5	14	13	11	20	15	31	104	88	64	36	24	20
6	14	14	11	19	15	31	104	92	64	36	24	20
7	14	13	11	19	15	31	104	94	62	35	24	18
8	14	13	11	19	18	33	107	97	62	35	24	18
9	14	13	12	18	17	34	104	97	62	34	24	18
10	14	13	19	18	16	37	96	99	62	34	24	18
11	14	13	32	18	16	44	92	96	60	34	24	18
12	13	12	22	18	16	46	91	96	57	33	24	18
13	13	12	18	18	15	49	91	92	56	32	23	18
14	13	12	15	17	15	51	88	91	56	32	23	18
15	13	13	14	16	17	51	86	89	54	32	23	18
16	12	12	14	16	17	51	86	88	53	31	23	18
17	12	12	14	16	18	52	88	83	52	30	22	16
18	14	12	14	16	18	53	88	81	50	30	22	16
19	14	12	17	16	18	54	89	80	48	30	22	16
20	14	12	20	15	18	56	91	78	47	29	22	16
21	14	12	22	15	20	58	89	77	46	29	22	16
22	14	12	19	15	38	59	86	75	45	28	21	16
23	13	12	18	15	33	60	84	74	44	28	21	16
24	13	12	17	16	29	62	84	74	43	28	21	16
25	13	12	17	16	27	66	84	74	43	28	21	15
26	13	12	18	16	26	74	84	72	41	28	21	15
27	13	12	18	16	26	77	88	71	41	28	21	15
28	13	12	22	16	25	77	84	70	40	28	20	15
29	13	12	20	15	24	77	84	70	39	27	21	15
30	13	12	21	14		81	84	70	38	27	20	15
31	13		20	14		83		70		26	20	
	414	373	512	527	573	1593	2724	2574	1602	978	700	518
MEAN	13.4	12.4	16.5	17.0	19.8	51.4	90.8	83.0	53.4	31.5	22.6	17.3
ACRE-FEET	821.	740.	1,020.	1,050.	1,140.	3,160.	5,400.	5,110.	3,180.	1,940.	1,390.	1,030.

Remarks:

YEAR OR PERIOD — MEAN 35.8 — ACRE-FEET 25,980.

STATION F151-R

SAN ANTONIO CREEK at Mouth of Canyon

LOCATION:

Water-stage recorder, lat. 34°09'20", long. 117°40'54", on the right (west) bank, upstream from all headgates of Pomona Valley Protective Association spreading grounds and about 4 miles northeast of Claremont. Elevation of zero gage height, 2079.57 feet.

DRAINAGE AREA:

26.5 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, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

There are diversions for irrigation and power development.

RECORDS AVAILABLE:

February 20, 1931 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 490 second-feet, February 22.
Minimum no flow for several months.
1930-1944
Maximum 23,400 second-feet, estimated, March 2, 1938.
Minimum no flow for several months each year.

ACCURACY:

Good.

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 Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
411	12-11	1258P / 110P	Brewster	20.0	12.3	2.69	8.96	33.1		.6	6	0	FC12
412	12-16	1225P / 1230P	"	3.0	0.76	0.70	8.45	0.53		.6	3	0	"
413	12-19	1230P / 1240P	"	10.0	4.72	1.67	8.72	7.9		.6	5	0	"
414	12-21	248P / 300P	"	18.0	6.54	1.62	8.61	10.6		.6	5	0	"
415	12-22	100P / 110P	"	10.0	4.08	1.40	8.51	5.7		.6	5	0	"
416	12-29	1202P / 1210P	"	8.0	2.24	0.85	8.38	1.9		.6	4	0	"
417	2-9	500P / 508P	Green	8.0	2.04	1.23	8.41	2.5		.6	8	0	FC42
418	2-20	413P / 425P	Brewster	18.0	6.86	1.88	8.62	12.9		.6	5	-.01	FC12
419	2-21	508P / 520P	"	18.0	8.60	2.78	8.74	23.9		.6	6	+.02	"
420	2-22	120A / 135A	Green & Smith	18.5	16.9	3.75	9.00	63.4		.6	10	-.02	FC42
421	2-22	1240P / 125 P	Brewster	Two Channels			9.49	401.	Float & .6		9	-.02	FC12
422	2-22	430P / 500P	"	"			9.36	397.	Float & .6		10	-.01	"
423	2-23	1245P / 100P	Brewster & Smith	22.0	2.09	4.17	8.85	87.2		.6	6	-.04	"
424	2-25	1055A / 1110A	"	18.0	7.72	2.46	8.34	19.0		.6	6	-.01	"
425	3-1	255P / 305P	Brewster	10.0	3.40	1.50	8.08	5.1		.6	5	0	FC12
426	3-2	225P / 240P	"	18.0	7.60	2.58	8.32	19.6		.6	6	0	"
427	3-8	153P / 205P	"	16.0	6.54	1.88	8.25	12.3		.6	5	+.02	"
428	3-15	130P / 145P	"	21.0	12.4	2.61	8.49	32.4		.6	8	-.02	"
429	3-22	135P / 145P	"	24.0	10.8	2.38	8.46	25.7		.6	6	0	"
430	3-29	155P / 210P	"	28.0	20.0	3.50	8.72	69.9		.6	7	0	"
431	4-5	150P / 205P	"	22.0	18.9	3.35	8.69	63.3		.6	7	0	"
432	4-12	225P / 240P	"	24.0	18.9	2.79	8.61	52.7		.6	7	0	"
433	4-19	155P / 210P	"	24.0	16.6	3.01	8.60	49.9		.6	7	-.01	"
434	4-26	145P / 200P	"	24.0	14.9	3.30	8.55	49.1		.6	7	0	"
435	5-3	155P / 209P	Brewster	23.0	15.2	3.21	8.52	48.8		.6	7	0	FC12
436	5-10	215P / 230P	"	24.0	16.1	3.47	8.64	55.9		.6	7	0	"
437	5-17	225P / 240P	"	24.0	16.0	3.01	8.57	48.1		.6	7	0	"
438	5-24	150P / 205P	"	24.0	13.6	3.08	8.49	41.9		.6	6	0	"
439	5-31	1052A / 1110A	"	24.0	13.1	2.82	8.47	37.0		.6	7	0	"
440	6-9	250P / 305P	Brewster & Bonadiman	20.0	10.3	2.56	8.36	26.4		.6	6	0	"
441	6-16	130P / 140P	Bonadiman	16.0	7.81	2.64	8.26	20.6		.6	8	0	FC19
442	6-23	102P / 110P	"	10.0	4.16	1.56	8.07	6.5		.6	5	0	"
443	6-28	307P / 315P	Brewster	6.0	1.77	0.96	7.88	1.7		.6	4	0	FC12

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

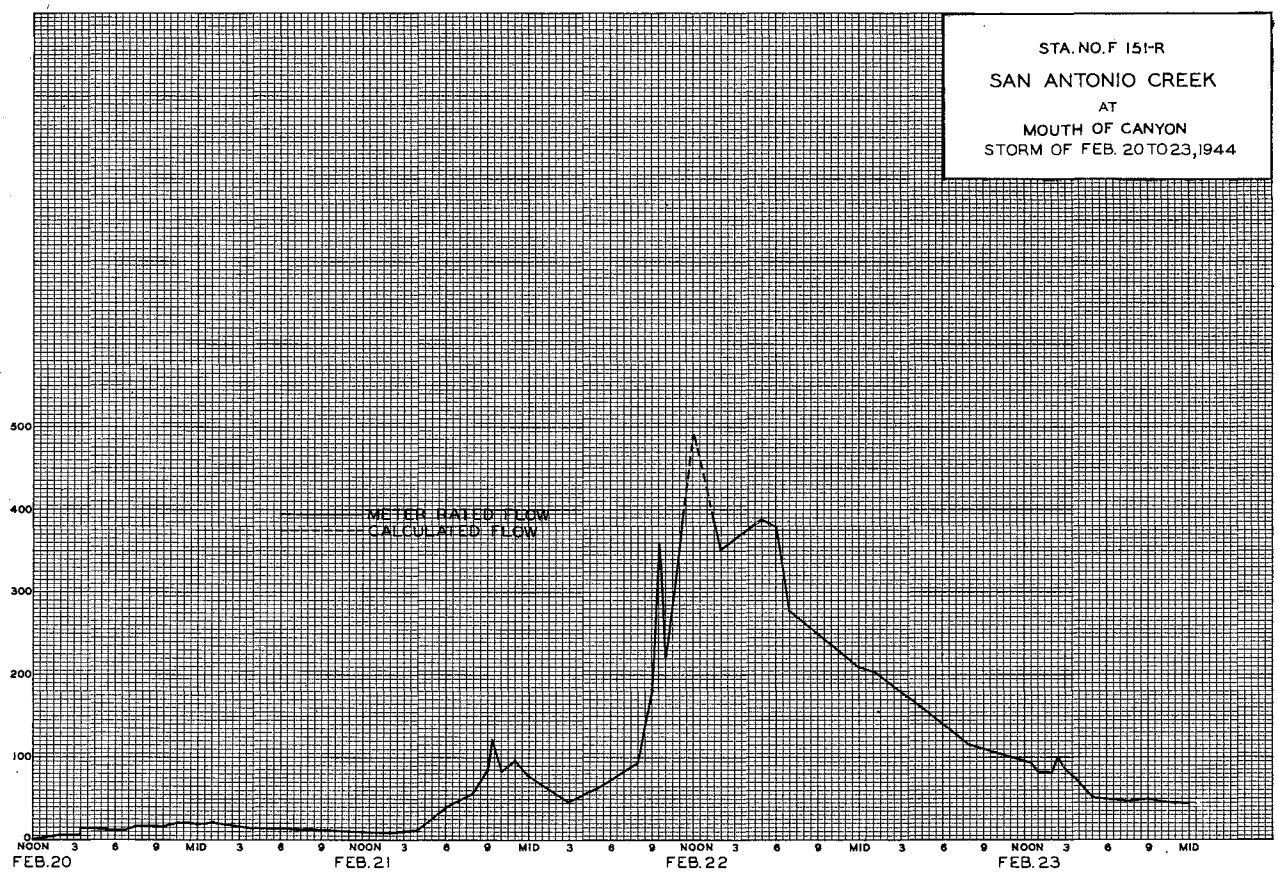
Sta. No. F151-R

Daily discharge, in second-feet of SAN ANTONIO CREEK at Mouth of Canyon, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.8	0	5	53	46	36	1.7	0	0
2	0	0	0	0.2	0	15	50	48	35	1.7	0	0
3	0	0	0	0.2	+	16	55	51	34	+	0	0
4	0	0	0	0.2	2.8	14	60	55	31	+	0	0
5	0	0	0	0.1	0.4	13	66	57	28	0	0	0
6	0	0	0	1.1	0	11	64	55	27	0	0	0
7	0	0	0	0.4	0	9	66	59	26	0	0	0
8	0	0	0	0.2	2.5	11	76	60	26	0	0	0
9	0	0	0	0.2	3.6	13	93	57	26	0	0	0
10	0	0	7.5	+	1.1	18	82	55	25	0	0	0
11	0	0	30	0	0	23	59	53	24	0	0	0
12	0	0	8	+	0	29	57	51	23	0	0	0
13	0	0	1.4	+	0	34	53	51	23	0	0	0
14	0	0	0.9	+	0	38	51	53	22	0	0	0
15	0	0	0.6	+	+	34	51	51	22	0	0	0
16	0	0	0.4	0	0	30	50	53	21	0	0	0
17	0	0	0.1	0	0	28	50	51	18	0	0	0
18	0	0	0.1	0	0	27	50	50	16	0	0	0
19	0	0	3.5	0	0	26	50	46	13	0	0	0
20	0	0	8.5	+	6	28	51	45	12	0	0	0
21	0	0	21	0	31	28	50	44	9.5	0	0	0
22	0	0	6	0	231	28	50	44	7.5	0	0	0
23	0	0	2.8	0.5	104	29	48	44	6.5	0	0	0
24	0	0	1.5	1.9	33	31	51	44	6.5	0	0	0
25	0	0	0.8	0.7	18	35	50	44	6	0	0	0
26	0	0	0.5	0.6	12	41	50	40	5.5	0	0	0
27	0	0	0.1	0	3.1	45	60	39	5	0	0	0
28	0	0	3.3	0	0	50	57	38	4.1	0	0	0
29	0	0	1.8	0	0	62	51	36	3.6	0	0	0
30	0	0	1.4	0		50	50	35	2.3	0	0	0
31	1.2		1.9	0		55		36		0	0	
	1.2	0	1021	7.1	4485	876	1704	1491	544.5	3.4	0	0
MEAN	0.39	0	3.29	0.23	15.5	28.3	56.8	48.1	18.2	0.11	0	0
ACRE-FEET	2.4	0	203.	14.	890.	1740.	3380.	2960.	1080.	6.7	0	0

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

YEAR OR PERIOD MEAN 14.1
ACRE-FEET 10280.



STATION U10-R

SAN DIMAS CREEK at Mouth of Canyon

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 1944.

AVERAGE DISCHARGE:

27 years (1917-44), 5.13 second-feet.

EXTREMES:

1943-1944
Maximum discharge during year, 749 second-feet Feb. 22, (gage height 3.39 feet); minimum daily discharge, 0.3 second-foot Dec. 15,16.

1916-1944
Maximum discharge, about 4,250 second-feet Mar. 2, 1938, from records of release at San Dimas Dam; no flow for several months during most years.

REMARKS:

Records good. Flow regulated by San Dimas Dam above station. San Dimas Water Co. diverts water just below gage for irrigation.

COOPERATION:

Records furnished by the United States Geological Survey, with the exception of 46 discharge measurements, furnished by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U10-R

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

AT Mouth of Canyon 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.	RATINGS	METHOD	MEAS. SEC. NO.	D. HT. CHANGE TOTAL	METER NO.
1529	10-7	1215P / 1230P	Brewster	12.0	6.1	.92	.44	5.6		.6	6	0	FC12
1530	10-8		U.S.G.S.	12.6	10.5	.50	.44	5.3		.6	13	0	
1531	10-14	1135A / 1151A	Brewster	11.5	5.9	.93	.47	5.5		.6	8	0	FC12
1532	10-21	1100A / 1114A	"	12.0	5.8	.97	.47	5.6		.6	6	0	"
1533	10-25		U.S.G.S.	13.	6.2	.90	.47	5.6		.6	13	0	
1534	10-28	918A / 932A	Brewster	12.0	5.7	.93	.44	5.3		.6	6	0	FC12
1535	11-4	838A / 850A	"	12.0	4.1	.49	.21	2.0		.6	6	0	"
1536	11-4		U.S.G.S.	11.0	3.8	.47	.24	1.8		.6	11	0	
1537	11-10	1130A / 1145A	Brewster	11.0	4.4	.48	.24	2.1		.6	6	0	FC12
1538	11-16		U.S.G.S.	12.0	4.3	.46	.25	2.0		.6	12	0	
1539	11-18	108P / 120P	Brewster	12.0	4.6	.50	.23	2.3		.6	6	0	FC12
1540	11-24	1023A / 1036A	"	12.0	4.5	.53	.24	2.4		.6	6	0	"
1541	11-24		U.S.G.S.	11.0	4.4	.50	.24	2.2		.6	11	0	
1542	11-25		"	10.2	4.7	.47	.24	2.2		.6	20	0	
1543	11-29		"	2.2	.74	2.43	.27	1.8		.6	5	0	
1544	12-2	952A / 1004A	Brewster	5.0	1.4	1.43	.28	2.0		.6	5	0	FC12
1545	12-3		U.S.G.S.	2.3	.79	2.53	.27	2.0		.6	5	0	
1546	12-8		"	2.3	.86	3.02	.38	2.6		.6	5	0	
1547	12-9	1115A / 1130A	Brewster	3.0	1.4	2.10	.37	2.9		.6	6	0	FC12
1548	12-11		U.S.G.S.	2.2	.42	1.60	.16	.67		.6	5	0	
1549	12-16	1149A / 1155A	Brewster	1.0	.26	1.08	.04	.28		.6	2	0	FC12
1550	12-17		U.S.G.S.	2.3	0.75	2.53	0.30	1.9		.6	5	0	
1551	12-19		"	2.3	.86	2.91	.36	2.5		.6	5	0	
1552	12-20		"	17.5	15.9	.97	1.00	15.4		.6	17	+.01	

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U10-R

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK

AT NEAR Mouth of Canyon 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.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1553	12-22		U.S.G.S.	18.	16.8	.95	.97	15.9		.6	18	0	
1554	12-23	350P / 403P	Brewster	6.5	4.2	2.36	.74	9.9		.6	7	0	FC12
1555	12-29	1005A / 1020A	"	6.0	2.5	1.64	.50	4.1		.6	7	+.02	"
1556	1-1		U.S.G.S.	2.5	1.1	4.00	.52	4.4		.6	5	0	
1557	1-5	1130A / 1145A	Brewster	6.5	2.7	1.70	.49	4.6		.6	7	0	FC12
1558	1-6		U.S.G.S.	2.4	1.0	4.00	.50	4.0		.6	5	0	
1559	1-12	140P / 156P	Brewster	6.5	3.8	1.89	.62	7.2		.6	7	0	FC12
1560	1-13		U.S.G.S.	2.6	1.4	4.50	.62	6.3		.6	5	0	
1561	1-20	132P / 140P	Haig	6.7	3.1	1.74	.56	5.4		.6	7	0	FC35
1562	1-27	1215P / 1226P	Green & Haig	6.9	3.0	1.43	.61	4.3		.6	8	0	"
1563	1-27		U.S.G.S.	2.5	1.3	3.23	.61	4.2		.6	5	0	
1564	2-3	212P / 219P	Green	6.5	2.9	1.52	.62	4.4		.6	7	0	FC42
1565	2-3		U.S.G.S.	2.6	1.4	3.14	.62	4.4		.6	5	0	
1566	2-9	212P / 220P	Green	6.6	3.8	1.66	.78	6.3		.6	7	0	FC42
1567	2-9		U.S.G.S.	2.8	1.8	3.61	.78	6.5		.6	5	0	
1568	2-16	1120P / 1135P	Brewster	6.5	3.9	1.79	.79	7.0		.6	7	0	FC12
1569	2-16		U.S.G.S.	2.7	1.9	3.26	.79	6.2		.6	5	0	
1570	2-20	1012A / 1030A	Brewster	6.5	4.0	1.78	.81	7.1		.6	7	0	FC12
1571	2-22	305A / 330A	van der Goot Smith	34.	41.2	2.91	2.13	120.		.6	8	0	FC42
1572	2-23	950A / 1016A	Brewster	36.	56.8	1.99	2.20	113.		.6	9	0	FC12
1573	2-25	935A / 955A	Brewster & Smith	34.	40.4	1.07	1.56	43.1		.6	9	0	"
1574	2-25		U.S.G.S.	33.	39.8	.97	1.57	38.6		.6 & 8	16	0	
1575	3-1	955A / 1055A	Brewster	34.0	37.8	.92	1.54	34.9		.6	9	0	FC12
1576	3-1		U.S.G.S.	31.	32.4	1.16	1.59	37.7		.6	16	0	
1577	3-3		U.S.G.S.	33.5	43.2	1.71	1.94	74.		.6	17	-.02	
1578	3-4	956A / 1017A	Brewster	37.0	38.3	1.05	1.60	40.1		.6	10	0	FC12
1579	3-8	1005A / 1030A	"	13.0	4.2	.64	.41	2.7		.6	7	0	"
1580	3-9		U.S.G.S.	27.	24.5	1.23	1.46	30.1		.6	16	0	
1581	3-15	945A / 1010A	Brewster	26.0	22.2	1.06	1.37	23.5		.6	13	0	FC12
1582	3-18		U.S.G.S.	2.3	.57	2.11	.21	1.2		.6	5	0	
1583	3-22	1010A / 1025A	Brewster	10.0	2.7	.56	.24	1.5		.6	5	0	FC12
1584	3-25		U.S.G.S.	2.3	.57	1.70	.25	.97		.6	5	0	
1585	3-29	1045A / 1100A	Brewster	9.0	2.3	.74	.25	1.7		.6	5	0	FC12
1586	3-30		U.S.G.S.	2.3	.60	1.50	.23	.90		.6	5	0	
1587	4-5	1020A / 1035A	Brewster	10.0	2.8	.57	.26	1.6		.6	5	0	FC12
1588	4-6		U.S.G.S.	2.3	.64	1.38	.26	.90		.6	4	0	
1589	4-12	1040A / 1055A	Brewster	10.0	3.0	.53	.27	1.6		.6	5	0	FC12
1590	4-13		U.S.G.S.	2.4	.88	2.27	.40	2.0		.6	5	0	
1591	4-19	945A / 1005A	Brewster	16.0	7.3	.64	.61	4.7		.6	8	0	FC12
1592	4-20		U.S.G.S.	2.6	1.3	3.85	.59	5.0		.6	5	0	
1593	4-26	1040A / 1100A	Brewster	17.0	8.6	.55	.57	4.7		.6	9	0	FC12
1594	4-27		U.S.G.S.	2.3	.68	1.91	.30	1.3		.6	5	0	
1595	5-3	957A / 1010A	Brewster	6.0	1.5	.53	.17	.80		.6	6	0	FC12
1596	5-4		U.S.G.S.	2.2	0.42	1.19	0.15	0.50		.6	5	0	
1597	5-10	1018A / 1032A	Brewster	10.0	2.6	.69	.25	1.8		.6	5	0	FC12
1598	5-11		U.S.G.S.	2.6	1.4	3.93	.58	5.5		.6	5	0	
1599	5-17	932A / 950A	Brewster	17.0	7.9	.52	.52	4.1		.6	9	0	FC12
1600	5-18		U.S.G.S.	2.6	1.4	4.00	.58	5.6		.6	5	0	
1601	5-24	1018A / 1037A	Brewster	16.0	8.2	.63	.60	5.2		.6	8	0	FC12
1602	5-25		U.S.G.S.	19.0	7.9	.75	.64	5.9		.6	19	+.01	
1603	5-31	355P / 417P	Brewster	17.0	7.6	.78	.68	5.9		.6	9	0	FC12
1604	6-1		U.S.G.S.	19.0	7.9	.59	.69	4.7		.6	19	0	
1605	6-8		"	19.0	8.0	.67	.68	5.4		.6	19	0	
1606	6-9	1205P / 1225P	Bonadiman	16.0	7.5	.76	.68	5.7		.6	8	0	FC12
1607	6-15		U.S.G.S.	19.0	8.1	.72	.71	5.8		.6	19	0	
1608	6-16	1035A / 1045A	Bonadiman	23.0	15.3	.41	.71	6.3		.6	6	0	FC19
1609	6-22		U.S.G.S.	19.0	8.1	.68	.70	5.5		.6	19	0	
1610	6-23	1003A / 1012A	Bonadiman	26.0	16.4	.37	.71	6.1		.6	7	0	FC19
1611	6-28	100P / 120P	Brewster	19.0	8.08	.78	.69	6.3		.6	10	0	FC12
1612	6-29		U.S.G.S.	19.0	8.2	.66	.69	5.4		.6	19	+.01	
1613	7-5	210P / 230P	Brewster	18.0	8.34	.74	.65	6.2		.6	9	0	FC12
1614	7-13	400P / 415P	"	19.0	8.6	.57	.62	4.8		.6	19	0	"
1615	7-20		U.S.G.S.	19.0	8.0	.68	.63	5.4		.6	19	0	
1616	7-27		"	19.0	8.4	.65	.63	5.5		.6	19	0	
1617	8-11		"	19.0	9.0	.75	.70	6.8		.6	19	0	
1618	8-18		"	19.0	8.9	.78	.68	6.9		.6	19	0	
1619	8-26		"	20.0	9.2	0.80	0.67	7.4		.6	20	+.01	
1620	9-1		"	19.0	8.5	.79	.66	6.7		.6	19	0	
1621	9-14		"	20.0	9.0	.72	.65	6.5		.6	20	0	
1622	9-22		"	19.0	8.7	.75	.60	6.5		.6	19	0	

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U10-R

Daily discharge, in second-feet of SAN DIMAS CREEK at Mouth of Canyon, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.5	2.2	2.0	4.4	4.1	37	1.5	0.7	6	6	5.5	6.5
2	5.5	2.1	2.0	4.4	4.2	57	1.5	0.7	6	6	5.5	6.5
3	5.5	2.0	2.1	4.4	4.4	74	1.5	0.7	5.5	6	5.5	6.5
4	5.5	2.0	2.9	4.2	4.9	50	1.5	0.7	5.5	6	5.5	6.5
5	5.5	2.2	3.4	4.1	4.6	40	1.6	0.6	5.5	6	5.5	6.5
6	5.5	2.2	3.5	4.5	4.5	29	1.6	0.6	5.5	6	5.5	6.5
7	5.5	2.2	3.3	6	4.5	2.8	1.7	0.6	5.5	6	5.5	6.5
8	5.5	2.2	2.8	7	5	2.7	1.8	0.6	5.5	5.5	5.5	6.5
9	5.5	2.2	2.7	7	6	15	1.7	1.1	5.5	5.5	6	6.5
10	5	2.1	1.7	7	6.5	28	1.6	2.3	5.5	5.5	7	6.5
11	5	2.1	0.7	7	6.5	75	1.6	4.4	5.5	5	7	6.5
12	5.5	2.1	0.5	7	6.5	89	1.6	5	6	4.9	7	6.5
13	5.5	2.2	0.4	7	6.5	70	1.8	3.0	6	4.8	7	6.5
14	5.5	2.2	0.4	7	6.5	21	1.9	3.4	6	5	7	6.5
15	5.5	2.2	0.3	6	6.5	24	2.3	4.0	6	5	7	6.5
16	5.5	2.2	0.3	5.5	6.5	23	2.6	4.2	6.5	5	7	6.5
17	5.5	2.1	1.0	5.5	6.5	10	3.4	4.9	6	5	7	6.5
18	6	2.1	1.9	5.5	6.5	1.4	4.0	5	6	5.5	7	6.5
19	5.5	2.1	2.3	5.5	6.5	1.4	4.6	5	6	5.5	7	6.5
20	5.5	2.1	7	5.5	12	1.4	4.6	5	6	5.5	7	6.5
21	5.5	2.2	17	5.5	33	1.5	4.6	5	5.5	5.5	7	6.5
22	5.5	2.3	16	5.5	372	1.5	4.6	5	5.5	5.5	7	6.5
23	5.5	2.3	13	5	259	1.5	4.6	5	5.5	5.5	7	6.5
24	5.5	2.3	7	5	61	1.6	4.6	5.5	5.5	5.5	7.5	6.5
25	5.5	2.2	4.1	4.8	42	1.6	4.6	5.5	5.5	5.5	7.5	6.5
26	5.5	2.1	3.9	4.5	39	1.6	3.8	5.5	5.5	5.5	7.5	6.5
27	5.5	2.0	3.6	4.2	38	1.6	1.7	5.5	5.5	5.5	7	6.5
28	5.5	2.0	3.7	4.2	37	1.7	0.7	6	6	5.5	7	6
29	5.5	1.9	4.2	4.1	35	1.6	0.7	6	5.5	5.5	7	6
30	3.5	1.9	4.5	4.1		1.6	0.7	6	6	5.5	7	6
31	1.9		4.5	4.1		1.6		6		5.5	7	
	164.4	64.0	122.7	165.5	1035.2	669.1	75.0	113.5	172.0	170.2	205.5	193.5
MEAN	5.30	2.13	3.96	5.34	35.7	21.6	2.50	3.66	5.73	5.49	6.63	6.45
ACRE-FEET	326.	127.	243.	328.	2,050.	1,330.	149.	225.	341.	338.	408.	384.

Remarks:

YEAR OR PERIOD MEAN 8.61 ACRE-FEET 6,250.

STATION F209-R

SAN GABRIEL RIVER-WEST FORK below San Gabriel Dam No. 2

LOCATION:

Water-stage recorder, lat. 34°14'45", long. 117°57'25", 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 0.5 mile downstream from San Gabriel Dam No. 2. Elevation of gage, about 2,080 feet (from topographic map).

DRAINAGE AREA:

41.0 square miles.

CHANNEL AND CONTROL:

Channel-sand, gravel and boulders.
Control-concrete about 35 feet below the station.

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. 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, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,210 second-feet, February 22.
Minimum 2.2 second-feet, December 28, 30.
1933-1944
Maximum 25,000 second-feet, estimated, March 2, 1938.
Minimum + at various times.

ACCURACY:

Good.

OPERATION:

Located, constructed, and operated by the Los Angeles County Flood Control District, for measuring outflow from San Gabriel Dam No. 2.

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

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 No.2 DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
1441	10-2	1146A / 1155A	De Vore	7.0	1.57	1.85		2.9		.6	4	+.06	F020
1442	10-7	950A / 958A	"	8.6	1.54	1.95		3.0		.6	5	+.01	F026
1443	10-14	1132A / 1141A	Brusstar & DeVore	7.0	1.6	2.29		3.7		.6	4		"
1444	10-21	951A / 1002A	"	8.8	2.44	1.89		4.6		.6	6	0	"
1445	10-28	1205P / 1218P	Godfrey	6.5	2.00	2.90		5.8	Float		6		
1446	11-4	1030A / 1050A	"	8.0	1.61	2.86		4.6	Float		8		
1447	11-11	1045A / 1059A	"	7.9	1.95	2.92		5.7	Float		9		
1448	11-18	1151A / 1202P	Godfrey & Brusstar	8.5	1.99	3.16		6.3	Float		9		
1449	11-27	1010A / 1025A	Godfrey	11.5	2.22	2.88		6.4	Float		12		
1450	12-3	1110A / 1114A	"	8.0	1.79	2.96		5.3	Float		9		
1451	12-10	1115A / 1125A	Godfrey & Brusstar	8.5	3.20	3.25		10.4		.6	9		F026
1452	12-12	1155A / 1200N	"	9.0	1.46	1.99		2.9		.6	4	0	"
1453	12-12	1250P / 105P	Godfrey	16.5	15.2	3.67		55.8		.6	9	0	"
1454	12-12	225P / 235P	Godfrey & Brusstar	14.5	9.08	3.61	3.78	32.8		.6	8	0	F026
1455	12-13	1050A / 1121A	"	14.5	8.67	3.07	3.60	26.6		.6	8	0	"
1456	12-14	235P / 245P	Godfrey	13.7	8.99	1.82	3.50	16.4		.6	7	0	"
1457	12-15	936A / 945A	"	13.5	9.14	1.48	3.46	13.5		.6	7	0	"
1458	12-15	1015A / 1027A	"	15.5	12.6	1.91	3.60	24.0		.6	8	0	"
1459	12-16	1050A / 1120A	Brusstar	14.0	7.70	1.37	3.35	10.6		.6	8	0	"
1460	12-17	1010A / 1020A	Godfrey & Brusstar	13.5	7.08	1.28	3.32	9.1		.6	7	0	"
1461	12-17	1125A / 1140A	"	15.0	13.6	1.55	3.54	21.1		.6	12	0	"
1462	12-18	1033A / 1053A	Godfrey	14.5	10.6	1.48	3.48	15.7		.6	12	0	"
1463	12-19	1055A / 1115A	"	14.5	10.9	1.58	3.48	17.2		.6	11	0	"
1464	12-20	1025A / 1110A	Brusstar & Godfrey	14.5	11.7	1.59	3.50	18.6		.6	11	0	F026
1465	12-20	238P / 250P	Godfrey	13.5	8.62	0.94	3.33	8.1		.6	7	-.02	"
1466	12-20	450P / 520P	"	47.0	75.8	2.12	4.77	162.		.6	9	0	"
1467	12-21	1135A / 1157A	"	51.0	82.6	2.57	5.02	212.		.6	10	0	"
1468	12-22	1104A / 1135A	DeVore	49.5	89.0	2.17	5.00	190.		.6	11	0	"
1469	12-23	1045A / 1106A	Godfrey	50.0	85.9	2.08	4.96	179.		.6	10	0	"
1470	12-23	443P / 459P	"	16.0	19.5	2.77	4.08	54.1		.6	12	+.02	"
1471	12-24	223P / 244P	"	17.0	19.7	2.34	4.00	46.1		.6	11	0	"
1472	12-26	111P / 137P	"	16.5	18.0	2.19	3.94	39.4		.6	12	0	F020
1473	12-31	903A / 914A	"	10.0	5.2	0.44	3.15	2.3		.6	5	0	F026
1474	12-31	935A / 948A	"	16.0	15.2	1.85	3.83	28.1		.6	8	+.05	"
1475	12-31	1046A / 1109A	"	16.5	17.6	1.92	3.87	33.8		.6	14	0	"
1476	1-2	258P / 316P	"	16.5	16.9	1.82	3.85	30.8		.6	14	0	"
1477	1-3	952A / 1011A	"	15.3	13.1	1.49	3.60	19.5		.6	11	0	"
1478	1-4	1000A / 1020A	"	15.5	13.1	1.33	3.59	17.4		.6	12	0	"
1479	1-6	1140A / 1200N	"	15.5	12.9	1.32	3.56	17.1		.6	13	0	"
1480	1-8	246P / 312P	"	15.5	13.0	1.37	3.55	17.8		.6	13	0	"
1481	1-10	1016A / 1035A	"	15.5	12.7	1.28	3.52	16.2		.6	13	0	"
1482	1-12	917A / 936A	DeVore	14.4	11.5	1.43	3.52	16.4		.6	13	0	"
1483	1-14	1105A / 1124A	Godfrey	15.0	12.5	1.25	3.52	15.6		.6	13	0	"
1484	1-18	1206P / 1221P	"	14.5	11.9	1.22	3.52	14.6		.6	11	0	"
1485	1-20	1229P / 1249P	"	14.7	12.4	1.25	3.51	15.5		.6	13	0	"
1486	1-23	139P / 159P	"	14.7	12.1	1.20	3.50	14.6		.6	13	0	"
1487	1-29	1020A / 1038A	Godfrey	11.0	5.49	0.44	3.13	2.4		.6	9	0	F026
1488	2-5	945A / 1002A	"	12.0	6.65	0.50	3.18	3.3		.6	11	0	"
1489	2-9	847A / 901A	DeVore	10.5	6.6	0.61	3.21	4.0		.6	10	0	"
1490	2-9	1025A / 1045A	"	15.7	17.8	2.22	3.96	39.6		.6	9	0	"
1491	2-10	242P / 304P	"	16.5	18.8	2.11	3.93	39.7		.6	9	0	"
1492	2-12	153P / 213P	"	16.5	18.4	2.26	3.91	41.6		.6	13	0	"
1493	2-14	1136A / 1215P	"	16.5	18.4	2.00	3.90	36.9		.6	13	0	"
1494	2-17	210P / 240P	"	17.5	18.3	1.88	3.88	34.3		.6	14	0	"
1495	2-19	258P / 321P	"	16.5	18.4	1.88	3.86	34.6		.6	15	0	"
1496	2-22	135A / 215A	Godfrey & DeVore	57.0	135.	4.30	5.77	580.		.6	11	0	"
1497	2-22	530P / 546P	"	59.0	191.	6.28	6.73	1200.		.6	11	0	"
1498	2-23	836A / 859A	Godfrey	61.0	179.	5.92	6.56	1060.		.6	12	0	"
1499	2-23	1054A / 1111A	"	58.0	149.	4.63	6.07	690.		.6	11	0	"
1500	2-24	900A / 920A	"	58.0	128.	3.52	5.63	451.		.6	11	0	"
1501	2-24	1237P / 104P	DeVore	54.0	105.	2.48	5.19	260.		.6	11	0	"
1502	2-27	137P / 155P	Godfrey	53.0	86.8	1.87	4.88	162.		.6	10 / 11	0	"
1503	2-29	930A / 955A	"	51.0	87.0	1.71	4.80	149.		.6	10	0	"
1504	3-2	839A / 909A	DeVore	56.5	140.	4.13	5.94	578.		.6	11	0	"
1505	3-3	1010A / 1033A	Godfrey	59.0	148.	4.16	5.90	615.		.6	12	0	"
1506	3-4	928A / 955A	"	57.0	152.	3.88	5.85	592.		.6	12	0	"
1507	3-5	922A / 943A	"	57.0	141.	3.90	5.80	550.		.6	12	0	"
1508	3-5	1058A / 1124A	"	52.0	105.	2.68	5.17	281.		.6	11	+.01	"
1509	3-7	837A / 911A	DeVore	55.0	102.	2.41	5.15	246.		.6	11	0	"
1510	3-7	438P / 459P	"	52.5	83.2	1.63	4.74	136.		.6	10	0	"

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

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 No.2 DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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. INS	METH OD	MEAS SEC. NO.	S. MT. CHANGE TOTAL	METER NO.
1511	3-9	1022A / 1042A	Godfrey	18.0	24.6	1.83	4.05	45.0		.6	13	0	FC26
1512	3-11	125P / 150P	"	57.0	111.	2.53	5.25	281.		.6	12	0	"
1513	3-14	210P / 241P	DeVore	53.0	92.3	1.96	4.96	181.		.6	11	0	"
1514	3-17	1047A / 1110A	Godfrey	18.0	26.3	2.06	4.19	54.1		.6	16	0	"
1515	3-25	1015A / 1032A	"	19.0	27.3	2.29	4.27	62.6		.6	17	0	"
1516	4-1	1025A / 1100A	"	20.0	30.0	2.65	4.38	79.5		.2 .8	13	0	"
1517	4-7	258P / 327P	"	20.0	30.0	2.84	4.40	85.1		.2 .8	12	0	"
1518	4-14	250P / 313P	"	20.0	31.1	2.78	4.44	86.4		.2 .8	11	0	"
1519	4-21	208P / 240P	"	20.0	30.8	2.69	4.42	82.8		.6	12	0	"
1520	4-28	152P / 219P	Godfrey & Middleton	20.0	30.2	2.64	4.40	79.9		.2 .8	12	0	"
1521	5-5	210P / 225P	Godfrey	20.0	30.1	2.36	4.36	70.9		.6	10	0	"
1522	5-12	309P / 342P	"	20.0	30.7	2.71	4.41	83.4		.2 .8	10	0	"
1523	5-19	212P / 239P	"	20.0	30.5	2.52	4.37	76.9		.2 .8	10	0	"
1524	5-26	140P / 210P	"	20.0	29.9	2.42	4.31	72.5		.2 .8	10	0	"
1525	6-2	150P / 225P	"	20.0	28.9	2.31	4.26	66.8		.2 .8	10	0	"
1526	6-9	220P / 250P	"	20.0	28.1	2.14	4.18	60.4		.6	10	0	"
1527	6-16	205P / 230P	"	20.0	27.4	2.10	4.11	57.8		.6	10	0	"
1528	6-23	220P / 252P	"	20.0	26.4	1.86	4.04	49.1		.2 .8	10	0	"
1529	6-30	1148A / 1214P	"	18.5	24.6	1.82	3.97	44.9		.2 .8	9	0	"
1530	7-7	1110A / 1140A	Godfrey & Middleton	18.0	23.1	1.60	3.88	36.9		.2 .8	9	0	"
1531	7-14	1105A / 1130A	Godfrey	18.0	22.2	1.48	3.81	32.9		.2 .8	9	0	"
1532	7-20	1020A / 1050A	"	18.0	21.5	1.40	3.74	30.0		.2 .8	9	0	"
1533	7-27	1140A / 1158A	DeVore	16.8	18.6	1.32	3.67	24.5		.6	12	0	FC26
1534	8-3	916A / 937A	"	17.6	18.6	1.14	3.64	21.2		.6	14	0	"
1535	8-10	1002A / 1022A	DeVore	17.0	17.7	1.07	3.59	19.0		.6	13	0	FC26
1536	8-17	1054A / 1110A	DeVore & Brusstar	16.7	17.0	1.10	3.57	18.4		.6	14	0	"
1537	8-24	1058A / 1120A	"	17.0	16.4	1.03	3.55	17.1		.6	14	0	"
1538	8-31	1129A / 1207P	"	16.0	16.5	0.93	3.51	15.3		.6	14	0	"
1539	9-2	1021A / 1035A	DeVore	18.4	20.2	1.54	3.81	31.1		.6	11	0	"
1540	9-2	1142A / 1157A	"	18.0	22.1	1.60	3.86	35.5		.6	11	0	"
1541	9-7	857A / 913A	"	18.2	19.2	1.18	3.69	22.6		.6	12	0	"
1542	9-7	1056A / 1110A	"	18.2	20.4	1.16	3.71	23.6		.6	10	0	"
1543	9-7	1236P / 1253P	"	18.4	20.5	1.43	3.79	29.3		.6	13	0	"
1544	9-7	300P / 400P	Brusstar	18.0	21.8	1.49	3.85	32.5		.6	18	0	"
1545	9-12	1050A / 1115A	DeVore & Farmer	17.6	21.4	1.50	3.80	32.1		.6	15	0	FC20
1546	9-13	859A / 936A	Farmer & DeVore	17.8	20.3	1.48	3.78	30.0		.6	15	0	FC26
1547	9-14	835A / 907A	"	18.8	25.8	2.03	4.13	52.2		.6	14	+.04	FC20
1548	9-14	1043A / 1111A	"	18.8	27.2	2.31	4.27	62.9		.6	14	+.01	"
1549	9-15	930A / 1005A	Farmer	18.8	26.2	2.26	4.22	59.2		.6	16	0	"
1550	9-19	308P / 350P	"	15.5	11.7	0.67	3.30	7.8		.6	12	0	"
1551	9-23	848A / 930A	"	16.8	19.7	1.98	3.93	39.1		.6	14	+.01	"
1552	9-24	627P / 651P	Stunden & DeVore	16.9	19.8	1.82	3.88	36.0		.6	13	0	"
1553	9-26	846A / 917A	Farmer	16.9	19.5	1.72	3.85	33.5		.6	15	0	"
1554	9-26	400P / 432P	"	17.8	24.9	2.40	4.24	59.9		.6	14	0	"
1555	9-26	545P / 605P	Farmer & Brusstar	17.6	22.6	2.13	4.08	48.2		.6	14	0	"
1556	9-27	710A / 734A	Farmer	17.2	21.5	1.98	3.97	42.7		.6	14	0	"
1557	9-29	915A / 934A	"	17.2	21.1	1.77	3.93	37.5		.6	13	0	"
1558	9-30	226P / 248P	Farmer & Brusstar	16.9	20.4	1.89	3.90	38.6		.6	14	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F209-R

Daily discharge, in second-feet of SAN GABRIEL RIVER-WEST FORK below San Gabriel Dam No. 2, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b 2.9	b 5.2	b 5.6	32	2.6	195	79	78	68	44	22	15.4
2	b 2.9	b 5.0	b 5.4	31	2.6	599	79	75	67	42	22	28
3	b 2.9	b 4.8	5.3	24	3.0	608	80	73	67	41	21	33
4	b 2.9	4.6	b 5.3	17.6	3.4	602	83	70	66	40	21	31
5	b 3.0	b 4.8	b 5.3	17.2	3.3	394	83	70	65	38	21	27
6	b 3.0	b 4.9	b 5.3	17.2	3.4	260	84	76	63	38	20	24
7	b 3.0	b 5.1	b 5.3	17.6	3.4	212	85	73	63	37	20	28
8	b 3.1	b 5.2	b 5.3	17.6	3.9	107	87	76	62	36	19.6	32
9	b 3.2	b 5.4	b 5.3	17.2	26	45	87	82	60	36	19.6	32
10	b 3.3	b 5.6	8.6	16.4	33	54	85	83	60	35	19.2	32
11	b 3.4	5.7	2.9	16.4	40	172	85	83	60	35	19.2	32
12	b 3.5	b 5.8	18	16.4	41	278	84	83	60	34	18.8	32
13	b 3.6	b 5.9	24	16	40	274	85	83	58	34	18.8	29
14	b 3.7	b 6.0	18	15.7	37	229	87	82	58	33	18.8	49
15	b 3.8	b 6.0	17.4	15.4	36	129	88	82	58	32	18.4	60
16	b 3.9	b 6.1	11.3	15	35	50	88	80	58	32	18.4	54
17	b 4.0	b 6.2	15.3	14.4	34	54	87	78	58	32	18.4	49
18	b 4.3	6.3	15.7	14.4	35	58	85	76	56	31	18.4	17.1
19	b 4.4	b 6.3	17.6	15	35	64	84	76	52	31	18.4	7.8
20	b 4.5	b 6.3	63	15	19.8	62	84	75	52	30	18	7.8
21	b 4.6	b 6.3	135	15	45	60	83	75	50	29	17.6	7.8
22	b 4.7	b 6.3	190	14.7	805	62	82	75	49	29	17.6	7.8
23	b 4.8	b 6.4	141	14.7	784	63	82	75	49	28	17.2	28
24	b 5.0	b 6.4	46	6.9	343	62	82	74	48	27	17.2	36
25	b 5.2	b 6.4	43	2.4	206	63	80	74	47	26	17.2	35
26	b 5.4	6.4	39	2.4	91	64	80	73	47	25	17.2	38
27	b 5.6	b 6.4	18.6	2.4	120	64	80	72	46	25	16.8	42
28	5.8	b 6.2	2.2	2.4	157	65	80	70	46	25	16	40
29	b 5.8	b 6.0	2.3	2.4	148	66	80	69	46	24	15.4	38
30	b 5.6	b 5.8	2.2	2.4		70	79	69	45	24	15.4	38
31	b 5.4		21	2.4		75		68		23	15.4	
	127.2	950.2		3136.4		2497		1684		574.0		
	173.8		429.6		5160		2348		997		930.7	
MEAN	4.10	5.79	30.7	13.9	108.	168.	83.2	75.8	56.1	32.2	18.5	31.0
ACRE-FEET	252.	345.	1880.	852.	6220.	10,230.	4950.	4660.	3340.	1980.	1140.	1850.

Remarks:

YEAR OR PERIOD MEAN 51.9
ACRE-FEET 37,700.

STATION P3-R

SAN GABRIEL RIVER-WEST FORK above Forks

LOCATION:

Water-stage recorder, lat. 34°14'30", long. 117°51'45", on the right (south) bank, 0.2 mile above Rincon Ranger Station, 2 miles above East Fork and about 13.5 miles north of Azusa. Elevation of gage, about 1450 feet.

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 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, 1943 to September 30, 1944.

REGULATION:

Flow partially regulated by San Gabriel Dam No. 2.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 3, 1930, to September 30, 1944. For records prior to December 3, 1930, at the Los Angeles County Flood Control District office filed with Station P1-R, San Gabriel River-West Fork 0.5 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:

1943-1944
Maximum 5,760 second-feet, February 22.
Minimum 19 second-feet, at various times.
1930-1944 (Stations P1-R, P3-R, P3B-R).
Maximum 34,000 second-feet, estimated, March 2, 1938.
Minimum 0.3 second-feet, October 17, 1931.

ACCURACY:

Good.

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 United States Geological Survey, Water Resources Branch.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P3-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER-WEST FORK

~~at~~ above Forks 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	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1381	10-1	423P / 443P	Middleton, G.H.	33.0	28.4	0.73	6.20	20.6		.6	13	0	FC18
1382	10-4	220P / 240P	"	32.8	27.0	0.71	6.20	19.1		.6	12	0	"
1383	10-8	1045A / 1105A	"	33.0	28.3	0.73	6.21	20.7		.6	12	0	"
1384	10-11	1130A / 1150A	"	33.0	28.7	0.75	6.21	21.6		.6	12	0	"
1385	10-15	1250P / 110P	"	33.0	28.6	0.72	6.21	20.6		.6	12	0	"
1386	10-18	1205P / 1225P	"	34.5	32.8	0.87	6.34	28.6		.6	12	0	"
1387	10-22	305P / 325P	"	34.0	31.1	0.80	6.29	24.8		.6	12	0	"
1388	10-25	210P / 230P	Smallin & Middleton	33.0	29.3	0.77	6.26	22.5		.6	12	0	"
1389	10-29	305P / 325P	Middleton	34.0	30.8	0.80	6.28	24.8		.6	12	0	"
1390	11-1	440P / 500P	"	22.0	23.2	0.95	6.26	22.0		.6	11	0	"
1391	11-5	405P / 425P	"	20.0	14.0	1.56		21.8		.6	11		"
1392	11-8	1010A / 1030A	"	19.0	13.5	1.55		20.9		.6	11		"
1393	11-12	1105A / 1125A	Middleton & Middleton, M.	19.5	12.4	1.68		20.9		.6	11		"
1394	11-15	1010A / 1030A	Middleton, G.H.	22.0	13.3	1.56		20.7		.6	12		"
1395	11-17	520P / 540P	Middleton, G.H.	23.0	13.2	1.75	6.25	23.1		.6	12	0	FC18
1396	11-19	320P / 340P	"	24.0	13.5	1.72	6.23	23.2		.6	13	0	"
1397	11-22	1040A / 1110A	"	23.0	13.2	1.74	6.26	22.9		.6	12	0	"
1398	11-26	1201P / 1220P	"	22.0	11.8	1.90		22.4		.6	11		"
1399	11-29	250P / 310P	"	25.0	11.6	1.85	6.24	21.5		.6	14	-.01	"
1400	12-3	250P / 310P	"	23.0	11.2	1.96	6.22	22.0		.6	12	0	"
1401	12-6	1030A / 1050A	"	29.2	13.6	2.18	6.37	29.7		.6	13	0	"
1402	12-10	1110A / 1130A	"	29.7	14.2	2.20	6.37	31.2		.6	13	+.01	"
1403	12-10	150P / 210P	"	31.0	14.3	2.63	6.42	37.6		.6	11	+.02	"
1404	12-10	250P / 308P	"	31.5	16.1	2.69	6.49	43.2		.6	11	+.02	"
1405	12-10	350P / 408P	Middleton, G.H.	32.0	18.4	2.88	6.54	53.0		.6	12	+.02	FC18
1406	12-10	540P / 555P	"	35.0	24.1	3.11	6.71	74.9		.6	12	+.02	"
1407	12-10	650P / 708P	"	39.0	33.4	3.19	6.97	107.		.6	12	0	"
1408	12-10	810P / 822P	Middleton & Putnam, H.	39.0	32.9	3.06	6.96	101.		.6	12	+.02	"
1409	12-10	912P / 928P	"	39.0	37.5	3.10	7.05	116.		.6	12	+.04	"
1410	12-10	1020P / 1036P	"	39.0	42.4	3.12	7.12	132.		.6	12	0	"
1411	12-10	1140P / 1156P	"	39.0	42.1	2.94	7.12	124.		.6	12	0	"
1412	12-11	1015A / 1030A	Middleton & Shippee, A.	46.0	84.1	3.49	7.80	293.		.6	10	-.01	FC11
1413	12-11	1130A / 1150A	"	49.0	87.0	3.04	7.75	264.		.6	10	0	"
1414	12-11	1255P / 115P	"	45.0	74.8	3.15	7.68	235.		.6	12	-.02	"
1415	12-11	220P / 240P	"	39.0	69.4	3.13	7.62	217.		.6	11	-.02	"
1416	12-12	1105A / 1125A	Middleton, G.H.	32.5	41.6	1.59	6.76	66.0		.6	13	0	FC18
1417	12-13	215P / 235P	"	32.0	41.1	1.58	6.78	64.8		.6	13	0	"
1418	12-17	1150A / 1210P	"	23.5	26.8	1.42	6.49	38.1		.6	12	0	"
1419	12-18	310P / 332P	"	32.5	27.1	2.45	6.72	66.4		.6	15	0	"
1420	12-19	820A / 840A	"	37.0	38.2	3.69	7.20	141.		.6	13	+.06	"
1421	12-19	1015A / 1045A	"	38.0	62.0	3.68	7.51	228.		.6	13	+.08	FC11
1422	12-19	1125A / 1145A	"	41.0	70.6	4.00	7.62	282.		.6	11	+.02	"
1423	12-19	1220P / 1240P	"	41.0	76.2	4.12	7.84	314.		.6	11	+.07	"
1424	12-19	200P / 217P	"	44.0	88.0	4.27	8.18	376.		.6	12	+.04	"
1425	12-19	345P / 358P	"	51.0	110	4.57	8.51	502.		.6	13	+.06	"
1426	12-19	440P / 458P	"	52.0	120	5.42	8.67	650.		.6	11	+.02	"
1427	12-20	1145A / 1205P	Middleton & Middleton, M.	40.0	68.3	3.22	7.64	220.		.6	13	0	"
1428	12-21	1130A / 1150A	"	46.0	98.0	4.20	8.33	411.		.6	12	-.02	"
1429	12-23	1255P / 115P	Middleton, G.H.	44.0	82.4	3.75	7.89	309.		.6	14	0	FC11
1430	12-27	1020A / 1040A	Middleton & Middleton, J.	35.0	54.0	1.70	6.99	91.9		.6	13	0	FC18
1431	12-28	1040A / 1100A	Middleton, G.H.	28.0	45.6	1.08	6.61	49.1		.6	11	0	FC11
1432	12-31	1205P / 1225P	"	31.5	45.2	1.26	6.70	57.0		.6	12	0	"
1433	1-3	220P / 240P	"	32.0	48.9	1.38	6.80	67.4		.6	13	-.02	"
1434	1-7	100P / 120P	"	32.0	44.6	1.35	6.71	60.1		.6	12	0	"
1435	1-10	220P / 240P	"	34.0	41.3	1.40	6.65	57.8		.6	13	0	"
1436	1-14	1030A / 1050A	"	31.5	43.5	1.18	6.62	51.2		.6	12	0	"
1437	1-17	910A / 930A	"	31.5	43.6	1.10	6.59	47.9		.6	12	0	"
1438	1-21	230P / 250P	"	30.5	41.2	1.06	6.55	43.5		.6	12	0	"
1439	1-24	1010A / 1030A	"	32.5	42.3	1.20	6.62	50.9		.6	13	0	"
1440	1-24	625P / 645P	"	30.5	37.1	1.02	6.48	37.9		.6	11	-.01	"
1441	1-28	1140A / 1120A	"	31.5	33.0	0.93	6.40	30.7		.6	12	0	FC18
1442	1-31	1130A / 1150A	"	32.0	36.6	0.98	6.46	35.9		.6	14	0	"
1443	2-4	955A / 1015A	"	34.6	44.9	1.52	6.77	68.0		.6	14	-.02	FC11
1444	2-7	1135A / 1155A	"	30.5	39.7	1.11	6.54	43.9		.6	14	0	FC18
1445	2-8	600P / 618P	"	35.0	47.5	1.55	6.84	73.4		.6	13	+.01	FC18
1446	2-9	1230P / 1250P	"	34.8	43.9	1.53	6.75	67.1		.6	13	0	"
1447	2-11	1120A / 1140A	"	35.5	48.0	1.87	6.98	89.8		.6	14	0	"
1448	2-14	1220P / 1240P	"	34.8	51.9	1.60	6.93	82.9		.6	13	0	"
1449	2-18	1220P / 1240P	"	34.0	51.6	1.49	6.90	77.1		.6	14	0	"
1450	2-20	915A / 935A	"	39.0	60.8	2.19	7.29	133.		.6	13	+.02	"
1451	2-20	1102A / 1120A	Middleton & Middleton, M.	39.5	67.5	2.46	7.48	166.		.6	11	+.01	"
1452	2-20	115P / 133P	"	43.0	74.8	2.73	7.59	204.		.6	11	+.06	FC11

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P3-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER-WEST FORK

~~XXX~~ above Forks DURING THE YEAR ENDING SEPTEMBER 30, 19~~44~~

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.
1453	2-20	240P / 255P	Middleton & Middleton, M.	45.0	80.0	2.98	7.73	238.		.6	12	0	FC11
1454	2-20	615P / 635P	Middleton, G.H.	41.0	68.4	2.73	7.54	187.		.6	11	-.01	"
1455	2-20	837P / 857P	"	42.0	73.0	2.80	7.62	204.		.6	11	+.04	"
1456	2-21	1100A / 1118A	"	39.0	65.0	2.22	7.37	144.		.6	13	-.01	FC18
1457	2-21	145P / 205P	"	41.0	71.1	2.63	7.52	187.		.6	11	0	FC11
1458	2-21	620P / 640P	Middleton & Robbins	49.0	97.4	3.18	8.21	310.		.6	11	+.08	"
1459	2-21	715P / 730P	"	54.0	120.	4.22	8.51	506.		.6	11	+.10	"
1460	2-21	900P / 920P	"	58.0	181.	5.93	9.64	1070.		.6	12	+.19	"
1461	2-21	935P / 955P	"	62.0	211.	6.50	9.87	1370.		.6	12	+.08	"
1462	2-21	1135P / 1155P	"	62.0	218.	6.83	9.92	1490.		.6	12	+.02	"
1463	2-22	140A / 205A	"	65.0	272.	9.20	10.65	2500.		.6	12	-.50	"
1464	2-22	315A / 345A	"	65.0	250.	9.76	10.55	2440.		.6	13	+.10	"
1465	2-22	805A / 835A	"	77.0	414.	11.1	12.45	4590.		.6	15	+.10	"
1466	2-22	1105A / 1125A	"	75.0	444.	12.1	12.49	5380.		.6	11	-.02	"
1467	2-22	230P / 250P	"	75.0	428.	11.6	12.33	4960.		.6	11	+.02	"
1468	2-22	605P / 625P	"	75.0	418.	11.6	12.15	4840.		.6	12	-.10	"
1469	2-22	850P / 915P	"	74.0	342.	10.2	11.87	3480.		.6	12	-.02	"
1470	2-23	300A / 325A	"	72.0	256.	9.80	11.40	2510.		.6	14	0	"
1471	2-23	715A / 740A	"	71.0	214.	9.25	11.15	1980.		.6	15	0	"
1472	2-23	1210P / 1230P	"	70.0	162.	7.96	10.55	1290.		.6	15	+.10	FC18
1473	2-23	305P / 325P	"	70.0	168.	7.80	10.54	1310.		.6	14	-.04	"
1474	2-25	1025A / 1045A	Middleton	54.0	104.	5.06	9.58	526.		.6	11	0	FC11
1475	2-26	1035A / 1055A	"	52.0	83.4	4.45	9.23	371.		.6	14	0	"
1476	2-28	1035A / 1100A	"	52.0	86.9	4.34	9.25	377.		.6	15	0	"
1477	3-1	640P / 700P	Middleton & Robbins	54.0	116.	5.43	9.62	630.		.6	13	0	FC11
1478	3-1	900P / 920P	"	55.0	119.	5.67	9.73	675.		.6	13	+.04	"
1479	3-1	1105P / 1125P	"	71.0	178.	6.91	10.50	1230.		.6	15	+.34	"
1480	3-2	100A / 130A	"	71.0	223.	7.98	10.76	1780.		.6	15	-.04	"
1481	3-2	410A / 440A	"	71.0	223.	7.37	10.60	1640.		.6	16	-.04	"
1482	3-2	720A / 745A	"	71.0	208.	7.36	10.56	1530.		.6	15	-.01	"
1483	3-3	1100A / 1130A	Middleton	60.0	179.	6.15	10.20	1100.		.6	17	-.02	"
1484	3-4	635P / 700P	"	60.0	171.	5.85	10.09	1000.		.6	13	0	"
1485	3-6	1035A / 1105A	"	60.0	140.	4.95	9.61	693.		.6	14	0	"
1486	3-8	612P / 630P	"	58.0	124.	4.03	9.38	500.		.6	15	0	"
1487	3-10	1010A / 1040A	"	58.0	114.	3.60	9.18	410.		.6	14	0	"
1488	3-11	300P / 325P	"	60.0	139.	4.92	9.64	684.		.6	13	+.02	FC18
1489	3-11	330P / 355P	"	60.0	139.	4.87	9.66	677.		.6	13	0	FC29
1490	3-13	1030A / 1100A	"	59.0	142.	4.71	9.62	669.		.6	13	0	FC18
1491	3-16	1025A / 1055A	"	58.0	92.0	3.50	8.93	322.		.6	15	0	"
1492	3-20	1040A / 1105A	"	58.0	92.6	3.66	8.96	339.		.6	15	0	"
1493	3-23	440P / 510P	"	58.5	78.8	3.54	8.85	279.		.6	15	0	FC29
1494	3-24	1000A / 1030A	"	57.0	87.4	3.72	8.89	325.		.6	16	-.01	"
1495	3-27	1020A / 1050A	"	58.0	84.3	3.52	8.90	297.		.6	16	0	"
1496	3-31	1010A / 1040A	"	58.0	81.2	3.36	8.85	273.		.6	17	0	"
1497	4-3	1100A / 1130A	"	57.0	82.3	3.50	8.87	288.		.6	17	0	"
1498	4-7	1105A / 1135A	"	57.0	81.7	3.26	8.84	266.		.6	17	0	"
1499	4-10	1020A / 1050A	"	55.3	76.2	3.28	8.78	250.		.6	19	0	"
1500	4-14	1005A / 1045A	"	55.0	74.3	3.15	8.75	234.		.6	22	0	"
1501	4-17	1035A / 1115A	Middleton	52.0	72.4	3.09	8.73	224.		.6	20	0	FC29
1502	4-22	940A / 1020A	"	52.5	68.2	3.11	8.68	212.		.6	19	0	"
1502A	4-24	255P / 335P	"	51.5	66.8	2.99	8.67	200.		.6	23	+.01	"
1503	4-27	1107A / 1137A	"	53.0	72.7	3.36	8.78	244.		.6	19	-.02	"
1504	5-1	1025A / 1105A	"	51.7	68.0	3.04	8.66	207.		.6	25	0	"
1505	5-5	940A / 1015A	"	51.7	65.7	3.00	8.64	197.		.6	20	-.01	"
1506	5-8	905A / 940A	"	52.5	65.6	2.97	8.63	195.		.6	19	0	"
1507	5-12	1105A / 1140A	"	52.5	65.3	2.89	8.60	189.		.6	19	0	"
1508	5-15	1020A / 1050A	"	51.7	63.1	2.88	8.59	182.		.6	18	0	"
1509	5-19	1020A / 1115A	"	51.8	62.2	2.77	8.55	172.		.6	20	0	"
1510	5-22	1100A / 1140A	"	51.7	59.3	2.78	8.54	165.		.6	20	0	"
1511	5-27	1105A / 1135A	"	51.5	58.4	2.67	8.50	156.		.6	19	0	"
1512	5-29	1040A / 1120A	"	51.5	56.2	2.63	8.49	148.		.6	21	0	"
1513	6-2	1015A / 1045A	"	51.0	56.6	2.60	8.47	147.		.6	17	0	"
1514	6-5	1030A / 1100A	"	50.5	48.9	2.62	8.44	128.		.6	19	-.01	"
1515	6-7	125P / 205P	"	50.8	51.8	2.47	8.42	128.		.6	21	0	"
1516	6-9	1015A / 1055A	"	51.0	53.1	2.50	8.42	133.		.6	22	0	"
1517	6-12	635P / 715P	"	50.5	50.9	2.46	8.38	125.		.6	20	0	"
1518	6-16	950A / 1030A	"	50.2	49.8	2.37	8.37	118.		.6	17	0	"
1519	6-19	1000A / 1035A	"	50.2	49.2	2.26	8.33	111.		.6	17	+.01	"
1520	6-23	950A / 1020A	"	49.5	47.0	2.26	8.31	106.		.6	18	+.0	"
1521	6-26	245P / 315P	"	50.0	47.6	2.14	8.28	102.		.6	18	0	"
1522	6-29	225P / 255P	"	49.5	45.2	2.10	8.25	95.0		.6	18	0	"
1523	7-3	455P / 530P	"	45.5	42.9	2.00	8.20	86.1		.6	18	0	"
1524	7-6	940A / 1020A	Middleton	45.5	44.2	1.95	8.20	86.4		.6	19	0	FC29
1525	7-10	220P / 300P	"	45.5	41.8	1.94	8.16	81.3		.6	18	0	"
1526	7-13	1000A / 1040A	"	45.8	41.2	1.86	8.14	76.5		.6	20	0	"
1527	7-17	1015A / 1045A	"	43.5	41.4	1.81	8.11	74.9		.6	19	0	"
1528	7-20	1020A / 1050A	"	41.8	40.4	1.70	8.07	68.8		.6	22	0	"
1529	7-24	1140A / 1220P	"	44.5	36.3	1.70	8.05	61.6		.6	20	-.01	"
1530	7-27	1140A / 1220P	"	44.0	36.1	1.62	8.03	58.6		.6	22	0	"
1531	7-31	1020A / 1100A	Godfrey	44.5	35.0	1.48	8.00	51.8		.6	22	0	"
1532	8-3	240P / 310P	"	41.5	36.6	1.32	7.98	48.3		.6	21	-.01	"
1533	8-7	200P / 230P	"	41.5	36.0	1.26	7.94	45.5		.6	22	0	"
1534	8-10	213P / 243P	"	41.0	35.0	1.26	7.93	44.1		.6	21	0	"
1535	8-14	1150A / 1220P	Middleton	40.5	34.6	1.33	7.92	45.9		.6	19	0	"
1536	8-17	120P / 200P	"	40.5	34.5	1.30	7.91	45.0		.6	21	0	"
1537	8-21	150P / 230P	"	40.5	34.7	1.20	7.88	41.7		.6	19	0	"
1538	8-24	215P / 245P	"	40.5	34.5	1.18	7.88	40.8		.6	19	0	"
1539	8-28	1120A / 1155A	"	41.5	38.1	1.01	7.86	38.6		.6	18	0	"
1540	8-31	1020A / 1055A	"	41.2	37.4	0.99	7.84	36.9		.6	17	0	"
1541	9-3	120P / 200P	"	45.0	35.3	1.59	8.02	56.0		.6	18	0	"
1542	9-5	1110A / 1140A	"	45.5	34.0	1.50	7.98	51.1		.6	18	0	"
1543	9-8	215P / 245P	"	43.5	35.2	1.59	8.00	56.0		.6	16	0	"
1544	9-11	335P / 405P	"	43.5	34.4	1.52	7.98	52.4		.6	16	0	"
1545	9-15	130P / 210P	"	46.0	42.6	2.01	8.19	85.7		.6	19	0	"
1546	9-18	1140A / 1210P	"	43.0	40.6	1.04	7.90	42.3		.6	19	-.02	"
1547	9-18	600P / 630P	Middleton & Middleton, J.	36.2	24.0	1.22	7.77	29.4		.6	15	0	"
1548	9-22	620P / 650P	Middleton	31.5	25.8	0.98	7.70	25.4		.6	15	0	FC29
1549	9-23	630P / 700P	"	44.1	34.8	1.66	8.01	57.6		.6	18	0	"
1550	9-26	920A / 950A	"	44.0	34.5	1.64	8.01	56.5		.6	18	0	"
1551	9-27	150P / 220P	"	44.5	36.5	1.75	8.06	64.0		.6	18	0	"
1552	9-29	140P / 210P	"	44.5	35.9	1.75	8.05	62.7		.6	14	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

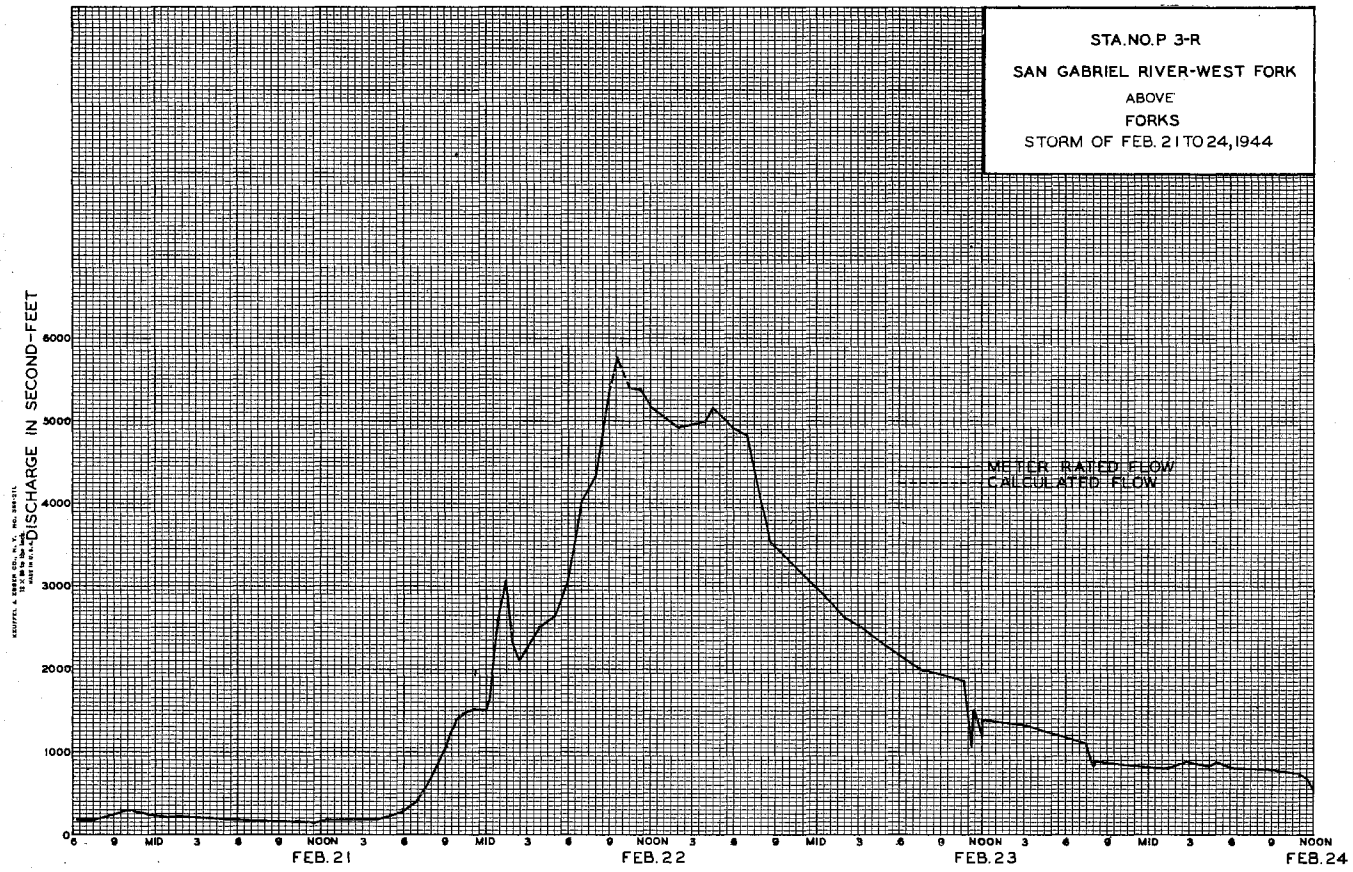
Sta. No. P3-R

Daily discharge, in second-feet of SAN GABRIEL RIVER-WEST FORK above Forks, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	21	22	b 22	85	36	558	275	204	147	88	51	36
2	21	22	b 22	81	34	1340	283	207	144	88	48	44
3	20	22	b 22	75	35	1090	283	207	142	88	47	55
4	19	b 22	b 22	64	69	1010	287	204	139	86	46	53
5	19	b 22	b 24	63	51	816	279	200	136	86	45	50
6	19	b 21	28	65	45	643	271	197	134	83	46	46
7	20	b 21	b 29	61	44	585	271	197	131	81	45	48
8	20	b 21	b 28	60	59	466	271	194	134	81	45	56
9	20	b 21	b 27	58	82	396	255	197	134	81	44	56
10	21	b 21	55	58	88	437	247	194	131	81	44	54
11	21	b 21	193	56	89	560	243	190	128	80	44	52
12	21	b 21	79	55	86	673	240	187	126	78	43	53
13	21	b 21	67	53	84	655	240	184	126	77	44	52
14	21	b 21	56	52	82	553	236	184	123	75	45	66
15	20	b 21	52	51	87	416	232	181	123	75	45	86
16	20	b 21	b 45	50	78	312	236	178	121	75	45	80
17	20	22	b 42	48	80	303	228	175	115	74	45	78
18	27	23	66	46	77	312	224	172	113	72	44	52
19	28	23	324	45	80	325	220	172	110	71	44	28
20	26	23	345	44	171	320	217	170	108	69	43	27
21	25	23	506	44	393	303	213	167	108	66	42	27
22	25	23	345	43	4000	295	210	164	105	65	42	26
23	24	b 23	283	45	1660	291	210	161	103	63	41	38
24	23	b 23	140	46	661	291	207	158	103	60	41	59
25	22	b 22	111	34	499	299	204	155	100	59	40	58
26	22	b 22	b 101	33	364	303	200	153	98	58	39	58
27	24	b 22	b 70	32	346	295	245	153	95	56	39	64
28	25	b 22	b 50	31	378	283	213	150	93	55	38	63
29	25	b 22	58	30	364	275	207	147	91	53	37	63
30	24	b 22	56	33		271	204	147	88	52	37	61
31	24		70	35		271		147		52	36	
	688	656	3338	1576	10122	14947	7151	5496	3546	2228	1335	1589
MEAN	22.2	21.9	108.	50.8	349.	482.	238.	177.	118.	71.9	43.1	53.0
ACRE-FEET	1360.	1300.	6620.	3130.	20080.	29650.	14180.	10900.	7030.	4420.	2650.	3150.

Remarks:

YEAR OR PERIOD — MEAN 144. — ACRE-FEET 104500.



STATION P4B-R

SAN GABRIEL RIVER-EAST FORK above Forks

LOCATION:

Water-stage recorder, lat. 34°14'12", long. 117°48'30", on the right (north) bank above the high water line of San Gabriel Dam No. 1, 2.5 miles above the West Fork, and 8 miles northeast of Glendora. Elevation of gage, about 1,500 feet, (from topographic map). Former station P4-R 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 P4-R. 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, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

Some water diverted for placer mining.

RECORDS AVAILABLE:

At Station P4-R and P4B-R. November 30, 1932 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 2,410 second-feet, February 22.
Minimum 19 second-feet, October 16.
1932-1944
Maximum 46,000 second-feet, March 2, 1938 (computed by Geological Survey).
Minimum 1.5 second-feet, October 1, 1934.

ACCURACY:

Fair.

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 United States Geological Survey. Water Resources Branch.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. P4B-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER-EAST FORK

above Forks 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	METH OD	MEAS SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
1053	10-1	205P / 225P	Middleton	23.0	19.4	1.42	7.43	27.7		.6	12	0	FC18
1054	10-4	1135A / 1155A	"	22.7	19.2	1.40	7.41	26.9		.6	12	0	FC29
1055	10-8	150P / 210P	"	22.7	18.9	1.33	7.40	25.2		.6	12	0	"
1056	10-11	915A / 935A	"	23.0	19.4	1.34	7.43	25.9		.6	12	0	"
1057	10-15	1050A / 1110A	"	23.0	19.4	1.25	7.41	24.2		.6	12	0	"
1058	10-18	1105A / 1125A	"	25.0	24.0	1.47	7.62	35.2		.6	13	+.02	"
1059	10-22	945A / 1000A	Middleton & Van der Goot	23.5	20.3	1.34	7.48	27.0		.6	12	0	"
1060	10-25	1130A / 1150A	Smallin & Middleton	23.0	19.6	1.26	7.45	24.8		.6	12	0	"
1061	10-29	1032A / 1052A	Middleton	23.5	20.5	1.27	7.47	26.1		.6	12	0	"
1062	11-1	1100A / 1120A	"	23.5	19.7	1.26	7.45	24.8		.6	12	0	"
1063	11-5	1135A / 1155A	Middleton	23.5	19.5	1.26	7.42	24.6		.6	12	0	FC29
1064	11-8	1120A / 1140A	"	23.5	19.7	1.20	7.43	23.6		.6	12	0	"
1065	11-12	500P / 520P	Middleton, G.& Middleton,M.	23.0	18.7	1.20	7.39	22.4		.6	12	0	"
1066	11-15	1125A / 1145A	Middleton	23.0	19.5	1.16	7.41	22.6		.6	12	0	"
1067	11-19	200P / 220P	"	23.5	19.8	1.32	7.46	26.2		.6	12	0	"
1068	11-22	930A / 950A	"	23.5	19.9	1.30	7.46	25.8		.6	12	0	"
1069	11-26	505P / 525P	"	23.4	19.7	1.10	7.43	21.6		.6	12	0	"
1070	11-29	440P / 500P	"	23.5	19.6	1.14	7.43	22.3		.6	12	0	"
1071	12-3	430P / 450P	"	23.7	19.5	1.09	7.42	21.3		.6	12	0	"
1072	12-6	1130A / 1150A	"	23.8	20.6	1.20	7.48	24.8		.6	12	0	"
1073	12-10	945A / 1005A	"	25.0	26.5	1.30	7.72	34.4		.6	12	+.01	"
1074	12-10	315P / 330P	Smallin & Robbins	25.0	29.8	1.53	7.88	45.6		.6	10	+.02	"
1075	12-10	600P / 612P	"	27.0	36.0	2.06	8.08	74.0		.6	9	+.02	FC36
1076	12-10	850P / 908P	"	28.0	39.4	2.79	8.18	110.		.6	7	0	"
1077	12-10	1050P / 1105P	Smallin & Robbins	27.0	37.0	3.19	8.20	118.		.6	8	0	FC36
1078	12-11	641A / 702A	"	27.0	37.8	4.58	8.28	173.		.6	6	-.01	FC29
1079	12-11	910A / 928A	"	27.0	38.3	4.70	8.32	180.		.6	6	0	"
1080	12-11	352P / 412P	"	28.0	38.0	3.84	8.25	146.		.6	6	-.03	"
1081	12-12	405P / 425P	Middleton,G.& Middleton,M.	24.5	26.8	2.31	7.76	62.0		.6	13	-.01	"
1082	12-13	1125A / 1145A	Middleton	24.5	23.6	2.03	7.62	47.8		.6	13	-.01	"
1083	12-17	430P / 450P	"	24.0	20.6	1.57	7.45	32.3		.6	13	0	"
1084	12-19	1235P / 1245P	Smallin & Robbins	25.0	34.3	3.21	8.09	110.		.6	8	+.03	FC36
1085	12-19	330P / 352P	"	27.0	41.9	4.10	8.29	172.		.6	7	+.01	"
1086	12-19	910P / 928P	"	30.0	47.8	5.70	8.46	272.		.6	5	+.01	FC29
1087	12-20	252A / 310A	"	28.0	42.4	5.54	8.35	235.		.6	7	-.02	"
1088	12-20	755A / 810A	"	27.0	40.0	4.62	8.21	185.		.6	6	0	"
1089	12-20	1150P / 1202A	"	30.0	49.1	5.60	8.45	275.		.6	6	0	"
1090	12-21	220A / 245A	"	30.0	51.8	5.87	8.44	304.		.6	7	-.02	"
1091	12-21	530A / 545A	"	29.0	44.3	5.44	8.34	241.		.6	7	0	"
1092	12-21	855A / 910A	"	28.0	37.5	5.57	8.26	209.		.6	6	-.02	"
1093	12-23	1120A / 1140A	Middleton	25.5	29.5	3.07	7.88	90.6		.6	13	0	"
1094	12-27	1120A / 1138A	Middleton,G.& Middleton,J.	26.0	23.6	2.77	7.70	65.4		.6	14	0	"
1095	12-31	1050A / 1110A	Middleton	26.0	23.6	2.57	7.69	60.6		.6	13	-.01	"
1096	1-3	1130A / 1150A	Middleton	26.0	22.5	2.34	7.62	52.7		.6	14	0	"
1097	1-7	220P / 240P	"	25.8	21.4	2.32	7.59	49.5		.6	14	0	"
1098	1-10	1130A / 1150A	"	25.6	20.8	2.26	7.56	47.0		.6	14	0	"
1099	1-14	1130A / 1150A	"	25.4	20.1	2.18	7.52	43.8		.6	14	0	"
1100	1-17	1110A / 1130A	"	25.4	19.1	2.32	7.50	44.2		.6	14	0	"
1101	1-21	335P / 355P	Middleton	25.2	19.0	2.28	7.48	43.4		.6	14	0	FC29
1102	1-24	1140A / 1159A	"	26.0	21.4	2.49	7.56	53.2		.6	14	0	"
1103	1-28	1010A / 1030A	"	25.4	19.4	2.29	7.50	44.5		.6	14	0	"
1104	1-31	1025A / 1045A	"	25.7	19.8	2.33	7.51	46.1		.6	14	0	"
1105	2-4	1120A / 1140A	"	26.0	23.8	2.64	7.63	62.9		.6	14	0	"
1106	2-7	1005A / 1025A	"	25.8	21.7	2.41	7.56	52.4		.6	14	0	"
1107	2-9	130P / 150P	"	26.5	25.8	2.89	7.73	74.5		.6	14	0	"
1108	2-11	1000A / 1020A	"	27.2	24.6	2.55	7.66	62.8		.6	14	0	"
1109	2-14	1110A / 1130A	"	26.3	23.0	2.54	7.62	58.5		.6	14	0	"
1110	2-18	1050A / 1110A	"	26.0	22.4	2.48	7.60	55.5		.6	14	0	"
1111	2-20	327A / 339A	Smallin & McNiel	25.0	23.6	2.89	7.73	68.3		.6	8	0	FC36
1112	2-20	537A / 547A	"	25.0	23.6	2.82	7.72	66.7		.6	8	0	"
1113	2-20	731A / 744A	"	25.0	23.9	2.90	7.72	67.8		.6	8	0	"

F. C. D. FORM 104 RM 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. PAR-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER-EAST FORK

~~XXX~~ above Forks 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1114	2-20	924A	935A	"	25.0	23.7	2.91	7.73	69.0		.6	9	+.01	"
1115	2-20	1126A	1142A	"	25.0	26.0	2.91	7.78	75.6		.6	9	+.01	"
1116	2-20	124P	137P	"	25.5	30.0	3.50	7.94	105.		.6	9	+.01	"
1117	2-20	334P	345P	"	25.5	28.6	3.98	7.93	114.		.6	9	0	"
1118	2-20	533P	545P	"	25.5	28.2	3.76	7.88	106.		.6	9	-.01	"
1119	2-20	708P	720P	"	25.5	29.8	3.76	7.90	112.		.6	9	+.01	"
1120	2-20	950P	1009P	"	28.0	30.0	4.07	7.97	122.	Surf.	6	+.02	FC29	"
1121	2-20	1140P	1158P	"	28.0	33.2	4.85	8.00	161.	Surf.	7	+.02	"	"
1122	2-21	155A	212A	"	27.0	31.9	5.52	8.05	176.	Surf.	7	0	"	"
1123	2-21	541A	558A	"	27.0	31.1	4.24	7.98	132.	Surf.	7	0	"	"
1124	2-21	713A	729A	Smallin & McNeil	27.0	32.7	3.88	7.98	127.	.6	9	-.01	FC36	"
1125	2-21	754A	809A	"	27.0	32.5	4.31	7.98	140.	Surf.	7	0	FC29	"
1126	2-21	1125A	1136A	"	26.5	31.0	3.39	7.91	105.	.6	9	+.02	FC36	"
1127	2-21	155P	211P	"	27.0	33.6	3.92	8.01	132.	.6	9	0	"	"
1128	2-21	335P	345P	"	27.0	37.3	4.05	8.08	151.	.6	8	+.04	"	"
1129	2-21	540P	553P	"	30.0	43.8	5.71	8.28	250.	Surf. & .6	6	+.04	FC29	"
1130	2-21	737P	754P	"	33.0	54.2	6.12	8.49	326.	.6	6	+.02	"	"
1131	2-21	937P	948P	"	46.0	70.9	7.30	8.74	517.	Surf. & .6	9	-.01	"	"
1132	2-22	117A	139A	"	44.0	69.8	7.48	8.68	522.	.6	9	-.08	FC29 FC36	"
1133	2-22	323A	343A	"	44.0	70.3	7.01	8.68	493.	.6	9	+.04	"	"
1134	2-22	650A	712A	"	47.0	87.1	9.83	9.19	857.	Surf. & .6	9	+.05	FC29	"
1135	2-22	915A	932A	"	90.0	165.	9.30	10.22	1530.	Surf.	12	+.24	"	"
1136	2-22	10594	1126A	"	142.	277.	8.70	10.88	2410	.6	11	-.06	"	"
1137	2-22	115P	137P	"	119.	190.	9.20	10.86	1760.	Surf. & .6	11	-.10	"	"
1138	2-22	310P	337P	"	130.	213.	8.08	10.54	1720.	Surf. & .6	11	-.35	"	"
1139	2-22	625P	650P	"	Two	Channels		10.22	1740.	.6	11	+.09	"	"
1140	2-22	1120P	1140P	"	"	"		10.35	1020.	Surf. & .6	10	-.12	"	"
1141	2-23	323A	340A	"	77.0	109.	6.49	9.76	707.	Surf. & .6	7	+.01	"	"
1142	2-23	718A	742A	"	72.0	93.7	5.80	9.63	544.	.6	11	-.02	FC29 FC36	"
1143	2-23	120P	146P	"	75.0	84.2	5.78	9.43	487.	.6	12	-.02	"	"
1144	2-23	401P	435P	"	76.0	74.0	6.45	9.37	477.	Surf. & .6	17	-.02	"	"
1145	2-25	300P	340P	Middleton	Two	Channels		9.27	271.	Surf. & .6	18	0	FC11	"
1146	2-26	628P	652P	Smallin & McNiel	"	"		9.18	208.	.6	15	-.01	FC36	"
1147	2-27	816A	832A	"	Two	Channels		9.15	201.	.6	17	0	"	"
1147A	2-27	835A	859A	Smallin & McNiel	Two	Channels		9.15	194.	.6	16	+.01	FC36	"
1148	2-28	220P	250P	Middleton	"	"		9.10	159.	.6	21	-.02	FC29	"
1149	3-1	1150P	1230A	Smallin & McNeil	75.0	69.1	7.26	9.51	503.	Surf.	16	-.03	"	"
1150	3-2	742A	815A	"	75.0	69.2	7.21	9.54	500.	Surf.	15	+.01	"	"
1151	3-2	1112A	1142A	"	75.0	66.8	7.30	9.53	488.	Surf.	15	+.01	"	"
1152	3-2	257P	329P	"	75.0	68.5	6.93	9.52	475.	Surf.	15	0	"	"
1153	3-2	638P	708P	"	75.0	68.5	7.07	9.60	484.	Surf.	15	+.03	"	"
1154	3-3	1202A	1242A	"	75.0	70.0	6.71	9.69	470.	Surf.	16	-.04	"	"
1155	3-3	732A	752A	"	Three	Channels		9.30	354.	Surf.	10	-.04	"	"
1156	3-4	1115P	1145P	"	"	"	"	8.38	332.	Surf.	10	-.01	"	"
1157	3-5	737A	759A	"	"	"	"	8.33	291.	Surf.	10	0	"	"
1158	3-6	225P	305P	Middleton	"	"	"	8.30	262.	Surf. & .6	17	0	"	"
1159	3-10	245P	320P	"	"	"	"	8.59	339.	.6	18	0	FC11	"
1160	3-13	215P	245P	"	"	"	"	8.82	403.	Surf. & .6	19	+.08	"	"
1161	3-16	200P	255P	"	"	"	"	8.23	281.	Surf. & .6	20	0	"	"
1162	3-20	315P	400P	"	"	"	"	8.31	314.	Surf. & .6	22	0	"	"
1163	3-24	140P	220P	"	"	"	"	8.21	283.	Surf. & .6	22	-.02	FC29	"
1164	3-27	200P	250P	Middleton	"	"	"	8.37	338.	.6 Surf.	22	-.04	FC29	"
1165	3-31	1245P	125P	"	"	"	"	8.22	294.	.6	26	0	"	"
1166	4-3	130P	220P	"	"	"	"	8.31	317.	.6	28	-.02	"	"
1167	4-7	215P	305P	"	"	"	"	8.24	298.	.6	39	-.01	"	"
1168	4-10	1250P	140P	"	"	"	"	8.09	254.	.6	31	0	"	"
1169	4-14	145P	235P	"	"	"	"	8.01	249.	.6	35	0	FC11	"
1170	4-17	205P	310P	"	"	"	"	8.03	253.	.6	34	0	FC29	"
1171	4-21	228P	318P	Middleton & Robbins	Three	Channels		8.38	234.	.6	27	-.01	FC29	"
1172	4-24	1015A	1115A	Middleton	"	"	"	8.34	222.	.6	34	0	"	"
1173	4-27	150P	230P	"	"	"	"	8.43	227.	.6	31	+.01	"	"
1174	5-2	1137A	1215P	Middleton & Wood	"	"	"	8.36	225.	.6	25	0	"	"
1175	5-5	1235P	125P	Middleton	"	"	"	8.41	225.	.6	33	-.01	"	"
1176	5-8	1130A	1220P	"	"	"	"	8.44	236.	.6	34	0	"	"
1177	5-12	245P	330P	"	"	"	"	8.33	203.	.6	30	-.01	"	"
1178	5-12	335P	435P	"	"	"	"	8.32	199.	.6	33	0	"	"
1179	5-15	210P	310P	"	"	"	"	8.31	194.	.6	33	0	"	"
1180	5-19	215P	305P	"	"	"	"	8.20	171.	.6	31	0	"	"
1181	5-22	230P	320P	"	"	"	"	8.20	168.	.6	31	0	"	"
1182	5-27	225P	305P	"	Two	Channels		8.15	155.	.6	25	0	"	"
1183	5-29	305P	345P	"	"	"	"	8.15	147.	.6	26	0	"	"
1184	6-2	215P	255P	"	"	"	"	8.12	140.	.6	25	0	"	"
1185	6-5	250P	330P	"	"	"	"	8.09	128.	.6	26	0	"	"
1186	6-9	315P	355P	"	"	"	"	8.09	127.	.6	25	0	"	"
1187	6-12	105P	145P	"	"	"	"	8.07	120.	.6	25	0	"	"
1188	6-16	1120A	1210P	"	"	"	"	8.05	114.	.6	26	0	"	"
1189	6-19	1120A	1205P	"	"	"	"	8.03	103.	.6	25	0	"	"
1190	6-23	1120A	1210P	"	"	"	"	8.02	97 .2	.6	25	0	"	"
1191	6-26	1110A	1155A	"	"	"	"	8.00	97.0	.6	25	0	"	"
1192	6-29	1130A	1210P	"	"	"	"	8.00	97.3	.6	25	0	"	"
1193	7-3	330P	400P	"	"	"	"	7.98	89.2	.6	18		"	
1194	7-6	1135A	1215P	"	"	"	"	8.76	82.9	.6	21	-.02	"	"
1195	7-10	1120A	1158A	Middleton	Two	Channels		8.73	80.1	.6	20	0	FC11	"
1196	7-13	1120A	1158A	"	"	"	"	8.70	73.9	.6	21	0	FC29	"
1197	7-17	1115A	1155A	"	"	"	"	8.66	66.7	.6	21	0	"	"
1198	7-20	1120A	1155A	"	"	"	"	8.65	63.0	.6	22	0	"	"
1199	7-24	950A	1040A	"	"	"	"	8.63	62.0	.6	20	0	"	"
1200	7-27	1010A	1050A	"	"	"	"	8.61	59.1	.6	22	0	"	"
1201	7-31	1153A	1243P	Godfrey	"	"	"	8.57	54.7	.6	20	0	"	"
1202	8-3	1043A	1129A	"	"	"	"	8.57	53.9	.6	21	-.01	"	"
1203	8-7	1100A	1140A	"	"	"	"	8.54	52.0	.6	20	0	"	"
1204	8-10	1100A	1130A	"	"	"	"	8.53	49.0	.6	20	0	"	"
1205	8-14	1020A	1100A	Middleton	"	"	"	8.51	49.8	.6	21	0	"	"
1206	8-17	930A	1010A	"	"	"	"	8.51	48.0	.6	25	0	"	"
1207	8-21	1040A	1120A	"	"	"	"	8.48	40.8	.6	25	0	"	"
1208	8-24	1255P	135P	"	"	"	"	8.46	40.7	.6	24	0	"	"
1209	8-28	1000A	1040A	"	"	"	"	8.44	37.6	.6	24	0	"	"
1210	8-31	1130A	1210P	"	"	"	"	8.43	36.2	.6	24	0	"	"
1211	9-5	920A	1000A	"	"	"	"	8.42	34.6	.6	24	0	"	"
1212	9-8	115P	155P	"	"	"	"	8.39	33.8	.6	24	0	"	"
1213	9-11	455P	535P	"	"	"	"	8.37	31.7	.6	22	0	"	"
1214	9-15	1120A	1155A	"	"	"	"	8.40	32.6	.6	22	0	"	"
1215	9-18	1020A	1100A	"	"	"	"	8.40	32.6	.6	22	0	"	"
1216	9-22	505P	545P	"	"	"	"	8.35	28.3	.6	21	0	"	"
1217	9-26	1035A	1115A	"	"	"	"	8.35	28.7	.6 & Est.	17	0	"	"
1218	9-29	1110A	1150A	"	"	"	"	8.36	28.9	.6	22	0	"	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

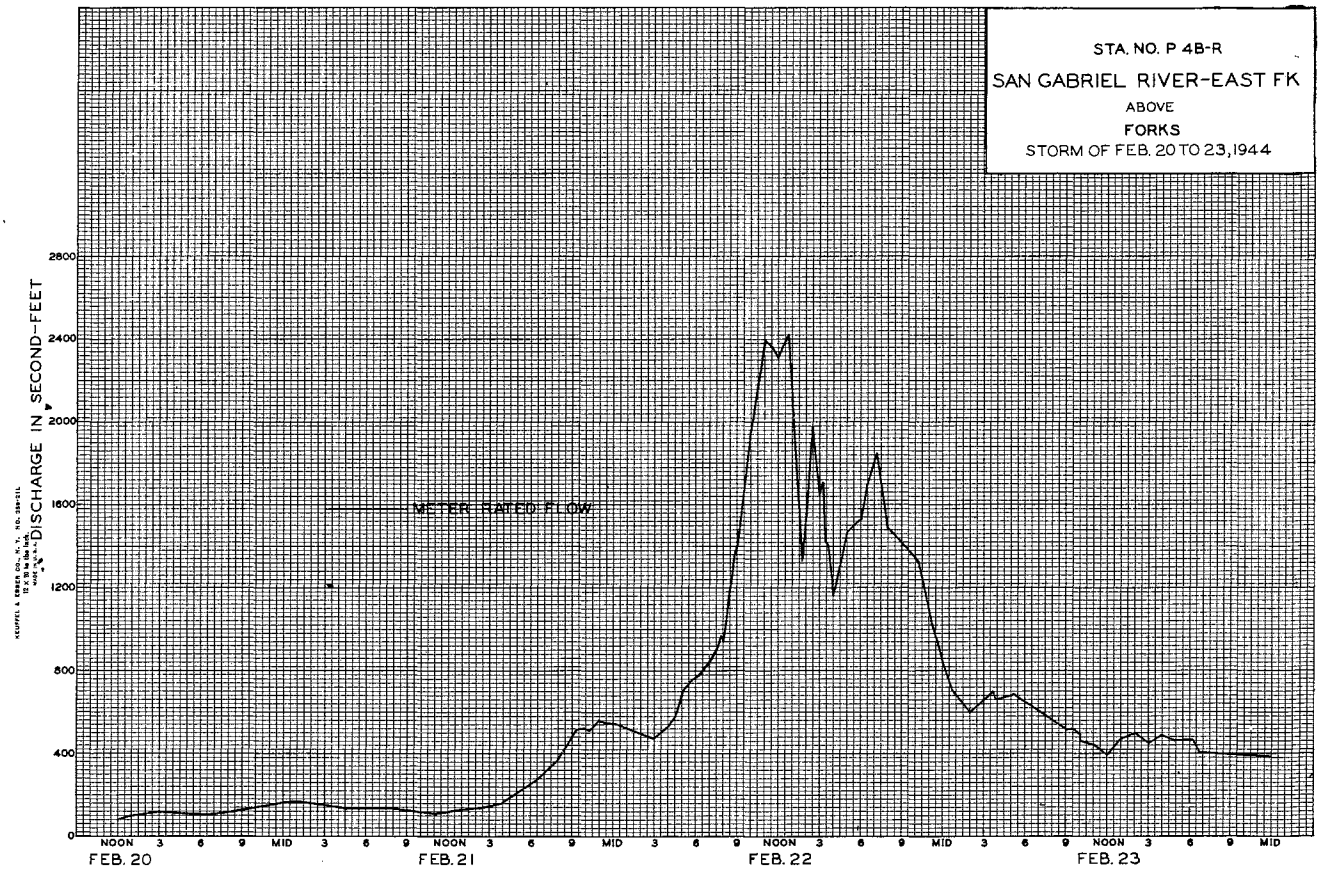
Sta. No. P4B-R

Daily discharge, in second-feet of SAN GABRIEL RIVER-EAST FORK above Forks, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	27	24	23	56	50	269	300	209	147	93	53	36
2	25	25	22	54	48	483	309	218	140	93	53	35
3	25	25	22	53	49	351	333	255	137	b 91	53	35
4	26	25	21	51	68	327	330	250	133	b 88	51	34
5	26	24	24	50	54	289	318	236	130	b 84	51	32
6	26	23	24	54	54	280	312	236	130	81	50	32
7	24	22	23	50	53	280	312	236	127	77	50	32
8	25	23	23	48	76	283	328	236	130	77	50	32
9	25	23	23	48	80	306	272	245	127	77	49	32
10	25	22	53	47	66	348	253	236	124	75	48	32
11	25	23	157	47	60	386	253	222	122	73	48	32
12	25	23	67	45	59	402	256	213	119	73	48	32
13	24	23	48	45	57	408	256	209	116	71	48	32
14	23	22	41	44	57	395	253	209	116	70	49	32
15	22	22	37	42	62	327	256	204	113	68	48	32
16	21	22	36	42	56	286	259	192	113	66	46	32
17	21	26	33	44	59	272	256	180	110	65	46	32
18	35	31	47	44	54	289	253	180	105	63	45	32
19	28	26	134	44	54	309	251	180	102	60	42	32
20	25	26	180	44	93	318	b 251	180	100	60	40	32
21	25	26	201	44	221	306	b 232	168	100	58	39	32
22	26	26	120	44	1290	292	227	172	98	58	39	31
23	25	25	94	45	516	283	218	168	98	58	39	29
24	25	24	80	56	320	295	218	164	98	58	39	28
25	24	22	74	47	272	341	213	164	98	57	38	28
26	23	23	68	47	228	356	209	161	98	57	38	28
27	23	23	64	45	192	348	251	157	98	55	37	28
28	24	23	62	44	166	345	192	154	98	54	37	28
29	24	23	66	44	154	318	184	150	98	54	37	28
30	24	23	64	45		303	188	147	95	54	36	28
31	25		64	47		298		150		54	36	
	771	718	1995	1460	4568	10093	7743	6081	3420	2122	1383	940
MEAN	24.9	23.9	64.4	47.1	158.	326.	258.	196.	114.	68.5	44.6	31.3
ACRE-FEET	1530.	1420.	3960.	2900.	9060.	20020.	15360.	12060.	6780.	4210.	2740.	1860.

Remarks:

YEAR OR PERIOD — MEAN 113. — ACRE-FEET 81,900.



STATION F250-R

SAN GABRIEL-AZUSA CONDUIT at Weir below San Gabriel Dam No. 1

LOCATION:

Water-stage recorder, lat. 34°12'15", long. 117°51'18", 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 F220-R.

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 F250-R gives a record of the head on the 25 foot weir: Station F220-R 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, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 165 second-feet, January 4.
Minimum no flow various times.
1935-1944
Maximum 165 second-feet, January 4, 1944.
Minimum no flow at times each year.

ACCURACY:

Excellent.

OPERATION:

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

REMARKS:

Station F250-R 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 F220-R).

F. C. Dist. Form 32 8-44

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 No.1, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	55	45	90	86	90	90	85	94	92	0	0
2	45	55	44	90	88	91	87	85	94	92	0	0
3	45	54	44	90	90	91	87	88	94	93	0	0
4	45	54	44	61	90	91	90	90	94	94	0	0
5	45	54	45	68	90	91	90	90	93	94	0	0
6	45	54	45	91	90	53	90	90	92	93	0	0
7	45	54	45	90	90	26	92	90	93	93	0	0
8	45	54	45	91	90	90	92	90	94	94	0	0
9	45	50	45	91	90	47	93	90	94	94	0	0
10	45	45	64	91	90	0.5	92	91	94	95	0	0
11	45	45	88	91	91	0.5	90	53	94	95	0	0
12	45	45	88	91	92	0.5	91	0	93	95	0	0
13	45	45	88	91	92	0.5	90	0	92	94	0	0
14	45	a45	30	92	92	0.5	90	0	92	94	0	0
15	45	45	36	92	92	0.5	90	0	93	94	0	0
16	45	45	90	92	90	0.5	91	0	94	93	0	0
17	45	45	90	92	90	8	91	0	93	92	0	0
18	45	45	90	92	90	92	92	61	92	92	0	0
19	45	45	90	92	91	91	91	92	92	27	0	0
20	45	45	93	92	91	91	90	89	94	0	0	0
21	45	45	92	92	91	92	90	92	93	0	0	0
22	52	49	90	92	97	91	92	90	93	0	0	0
23	55	52	90	91	96	91	91	90	94	0	0	0
24	55	52	90	91	91	30	90	92	93	0	0	0
25	55	52	90	91	91	58	90	90	92	0	0	0
26	55	52	92	91	91	92	90	95	93	0	0	0
27	55	52	91	90	91	93	90	95	92	0	0	0
28	55	52	90	90	91	91	30	93	93	0	0	0
29	55	52	90	88	90	90	0	92	92	0	0	0
30	55	50	90	a86		91	56	92	93	0	0	0
31	55		90	86		90		93		0	0	
	1492	1487	2244	2758	2634	1864.5	2528	2198	2793	1710	0	0
MEAN	48.1	49.6	72.4	89.0	90.8	60.1	84.3	70.9	93.1	55.2	0	0
ACRE-FEET	2960.	2950.	4450.	5470.	5220.	3700.	5010.	4360.	5540.	3390.	0	0

Remarks:

YEAR OR PERIOD MEAN 59.3
ACRE-FEET 43050.

STATION F220-R

SAN GABRIEL - AZUSA CONDUIT at Garcia Canyon

LOCATION:

Water-stage recorder, lat. 34°11'30", long. 117°51'25", 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 0.8 mile below San Gabriel Dam No. 1, and 2 miles above Morris Dam. Elevation of gage, about 1200 feet.

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 F250-R) may be spilled before reaching Station F220-R. Flow which reaches Station F220-R may not pass over, but may be by-passed around the 25 foot weir at Station F250-R.

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, 1943 to September 30, 1944.

RECORDS AVAILABLE:

February 26, 1933 to September 30, 1944.
(See "Recorder") (See "Remarks")

EXTREMES OF DISCHARGE:

1943-1944
Maximum 94 second-feet, July 14,15.
Minimum + at various times.
1933-1944
Maximum 100 second-feet, (approximate capacity), April 11, 1935.
Minimum + at various times.

ACCURACY:

Excellent.

OPERATION:

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

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 F220-R complete the records of the annual diversion through the conduit.

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

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, 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.
292	10-9	945A / 1005A	Middleton	4.6	11.3	3.98	2.48	45.0	2+ .85	10		0	FC11
293	10-16	950A / 1010A	"	4.6	11.3	3.93	2.50	44.4	2+ .85	10		0	"
294	10-22	147P / 205P	Middleton & van der Goot	4.6	13.4	4.10	2.95	54.9	2+ .85	10		0	"
295	11-12	920A / 940A	Middleton	4.6	11.5	3.89	2.52	44.7	2+ .85	10		0	FC18
296	11-19	1005A / 1025A	"	4.6	11.5	3.86	2.53	44.4	2+ .85	10		0	FC11
297	12-3	950A / 1010A	"	4.6	11.5	3.84	2.52	44.2	2+ .85	10		0	"
298	12-17	952A / 1012A	"	4.6	20.7	4.31	4.52	89.3	2+ .85	10		0	"
299	1-5	203P / 213P	"	4.6	7.33	3.75	1.61	27.5	.6	10		0	"
300	1-14	230P / 250P	"	4.6	21.1	4.32	4.61	91.1	2+ .85	10		0	"
301	1-21	1155A / 1215P	"	4.6	21.3	4.29	4.65	91.3	2+ .85	10		0	"
302	1-28	230P / 250P	"	4.6	21.3	4.30	4.64	91.6	2+ .85	10		0	FC18
303	2-3	945A / 1005A	"	4.6	21.0	4.28	4.59	89.9	2+ .85	10		0	FC11
304	2-11	220P / 240P	"	4.6	21.2	4.32	4.62	91.6	2+ .85	10		0	"
305	2-18	310P / 330P	"	4.6	21.0	4.28	4.58	89.9	2+ .85	10		0	"
306	3-3	315P / 335P	"	4.6	21.0	4.32	4.59	90.7	2+ .85	10		0	"
307	3-25	145P / 205P	"	4.6	20.7	4.26	4.52	88.1	2+ .85	10		0	FC29
308	4-1	1000A / 1020A	"	4.6	20.8	4.26	4.53	88.6	2+ .85	10		0	"
309	4-8	950A / 1015A	"	4.6	21.4	4.21	4.66	90.0	2+ .85	10		0	"
310	4-15	1036A / 1104A	"	4.6	21.1	4.20	4.60	88.7	2+ .85	10		0	"
311	4-19	1030A / 1100A	"	4.6	20.9	4.31	4.55	90.1	2+ .85	10		0	"
312	5-6	1038A / 1058A	"	4.6	21.1	4.27	4.60	90.1	2+ .85	10		0	"
313	5-19	440P / 500P	"	4.6	21.3	4.31	4.65	91.8	2+ .85	10		0	"
314	5-27	500P / 520P	"	4.6	21.0	4.35	4.58	91.4	2+ .85	10		0	"
315	6-3	950A / 1000A	Middleton	4.6	21.6	4.32	4.72	93.4	.2+ .83	10		0	FC 29
316	6-10	1010A / 1040A	"	4.6	21.7	4.30	4.73	93.2	.2+ .83	10		0	"
317	6-17	1055A / 1125A	"	4.6	21.5	4.34	4.68	93.4	2+ .83	10		0	"
318	6-24	955A / 1020A	"	4.6	21.7	4.24	4.73	92.1	2+ .83	10		0	"
319	6-29	355P / 415P	"	4.6	21.7	4.28	4.73	92.9	2+ .83	10		0	"
320	7-7	1015A / 1040A	"	4.6	21.3	4.35	4.66	92.7	2+ .83	10		0	"
321	7-14	950A / 1015A	"	4.6	21.9	4.29	4.77	93.9	2+ .85	10		0	"

F. C. Dist. Form 32 8-44

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, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	55	45	89	87	90	88	84	93	93	+	+
2	45	55	45	89	89	90	86	84	93	93	+	+
3	45	54	44	89	90	90	85	87	93	93	+	+
4	45	54	45	61	90	90	88	89	93	93	+	+
5	45	54	45	63	90	90	89	89	93	94	+	+
6	45	a 54	46	89	90	55	88	89	93	94	+	+
7	45	a 54	46	89	90	0.2	89	89	93	93	+	+
8	45	a 54	46	90	90	0.2	90	89	93	93	+	+
9	45	a 50	46	91	90	0.2	91	90	93	94	+	+
10	45	a 44	63	91	91	0.2	90	90	93	94	+	+
11	45	a 44	88	91	91	0.2	89	55	93	94	+	+
12	45	44	88	91	91	0.2	90	0.1	93	94	+	+
13	45	44	88	91	91	0.2	89	0.1	92	94	+	+
14	44	45	31	91	90	0.2	89	0.1	93	94	+	+
15	44	45	34	91	90	0.2	89	0.1	93	94	+	+
16	44	45	90	91	90	0.2	90	0.1	93	94	+	+
17	44	44	89	91	89	0.2	90	0.1	92	93	+	+
18	44	45	89	91	90	0.2	90	60	92	92	+	+
19	44	45	89	91	90	0.2	90	92	92	28	+	+
20	44	45	89	91	90	0.2	89	89	92	+	+	+
21	45	45	89	92	90	0.2	90	92	93	+	+	+
22	52	50	89	92	91	0.2	90	90	93	+	+	+
23	55	53	89	92	91	a 0.2	90	90	93	+	+	+
24	55	53	89	92	90	a 0.2	89	90	93	+	+	+
25	55	53	89	92	90	a 55	90	85	93	+	+	+
26	55	53	89	92	90	89	90	89	93	+	+	+
27	55	53	89	91	90	89	90	91	93	+	+	+
28	55	53	89	91	90	89	34	92	92	+	+	+
29	55	53	89	89	90	89	0.1	92	93	+	+	+
30	55	51	89	88		89	54	93	93	+	+	+
31	55		89	87		89		93		+	+	
	1485		2225		2611		2496.1		2784		+	
		1491		2749		1097.6		2173.6		1711		+
MEAN	47.9	49.7	71.8	88.7	90.0	35.4	83.2	70.1	92.8	55.2	+	+
ACRE-FEET	2950.	2960.	4410.	5450.	5180.	2180.	4950.	4310.	5520.	3390.	+	+

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

YEAR OR PERIOD MEAN 56.9
ACRE-FEET 41310.

STATION U8-R

SAN GABRIEL RIVER below Morris Dam

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 1944.

AVERAGE DISCHARGE:

1896-1944
48 years 120 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.
1895-1944
49 years 169 second-feet.

EXTREMES:

Maximum discharge during year, 5,170 second-feet, Feb. 22, (gage height, 5.70 feet).
Minimum daily, 3.6 second-feet November 23-28.
1894-1944
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.

REMARKS:

Records good above 700 second-feet and fair below. Flow regulated by San Gabriel flood control reservoirs 1 and 2, and by Morris Reservoir of Metropolitan Water District of Southern California. Azusa Canal (formerly power canal of Southern California Edison Co.,) diverts above high-water line of Morris Reservoir at point about 3 miles above station.

COOPERATION:

Records furnished by the United States Geological Survey, with the exception of 35 measurements furnished by the Los Angeles County Flood Control District in cooperation with the United States Geological Survey.

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	3175
November	2968
December	11871
January	6838
February	36490
March	51179
April	29607
May	22174
June	12076
July	7916
August	4886
September	3462
Water year 1943-1944	192,642

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U8-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

at Below Morris 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	METH OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1646	10-7	100P / 115P	Moon	21.5	23.0	.99	.66	22.7		.6	16	0	FC22
1647	10-8		U.S.G.S.	40.	28.7	.74	.66	21.3		.6	31	0	
1648	10-14	1130A / 1145A	Moon	21.	15.4	.41	.34	6.3		.6	12	0	FC22
1649	10-21	1128A / 1142A	"	21.	15.6	.41	.36	6.4		.6	13	0	FC22
1650	10-22		U.S.G.S.	4.5	3.0	1.53	.35	4.6		.6	9	0	
1651	10-28	1243P / 1255P	Moon	21.	15.7	.39	.36	6.2		.6	12	0	FC22
1652	11-4	950A / 1000A	"	21.	14.5	.41	.36	6.0		.6	12	0	"
1653	11-6		U.S.G.S.	4.5	3.0	1.43	.34	4.3		.6	9	0	
1654	11-12	933A / 944A	Moon	21.	15.1	.40	.35	6.1		.6	11	0	FC22
1655	11-18	100P / 115P	"	21.	15.2	.46	.34	6.6		.6	11	0	"
1656	11-19		U.S.G.S.	4.5	2.8	1.39	.34	3.9		.6	9	0	
1657	11-26	1010A / 1022A	Moon	21.	14.6	.38	.34	5.5		.6	11	0	FC22
1658	11-27		U.S.G.S.	4.5	2.8	1.29	.34	3.6		.6	9	0	
1659	12-2	1223P / 1238P	Moon	21.	15.4	.39	.34	6.0		.6	11	0	FC22
1660	12-6		U.S.G.S.	4.8	2.9	1.45	.36	4.2		.6	9	0	
1661	12-9	208P / 220P	Moon	21.	14.8	.43	.34	6.4		.6	11	0	FC22
1662	12-13		U.S.G.S.	5.5	4.4	2.77	.52	12.2		.6	11	0	
1663	12-16	1105A / 1120A	Moon	Two Channels			.62	20.8		.6	14	-.01	FC22
1664	12-18		U.S.G.S.	4.0	3.9	3.26	.56	12.7		.6	8	0	
1665	12-20		"	33.5	24.8	.64	.58	15.8		.6	33	0	
1666	12-22		"	33.	24.6	.60	.58	14.7		.6	33	0	
1667	12-23	1250P / 140P	Moon	Two Channels			0.59	19.6		.6	12		FC22
1668	12-29	1125A / 1135A	"	"	"		.66	24.7		.6	14	-.02	"
1669	12-29		U.S.G.S.	35.	27.9	0.67	.62	18.7		.6	35	-.01	
1670	1-6	138P / 150P	Moon	21.	18.4	.54	.48	10.0		.6	12	0	FC22
1671	1-7		U.S.G.S.	4.5	3.4	2.06	.47	7.0		.6	9	0	
1672	1-13	1242P / 1257P	Moon	Two Channels			.63	20.2		.6	12	+.01	FC22
1673	1-13		U.S.G.S.	35.5	28.8	.72	.64	20.6		.6	35	0	
1674	1-20	1252P / 105P	Moon	21.5	25.5	.95	.65	24.3		.6	12	0	FC22
1675	1-27	1144A / 1156A	"	22.5	19.2	.50	.48	9.7		.6	12	0	"
1676	1-28		U.S.G.S.	4.5	4.0	1.98	.48	7.9		.6	9	0	
1677	2-3	1255P / 110P	Moon	21.	17.2	.42	.48	7.2		.6	11	0	FC22
1678	2-10	1139A / 1152A	"	21.	17.9	.51	.49	9.2		.6	12	0	"
1679	2-11		U.S.G.S.	31.	24.3	.61	.60	14.8		.6	31	+.02	
1680	2-17	150P / 204P	Moon	21.	17.8	.39	.49	7.0		.6	12	0	FC22
1681	2-18		U.S.G.S.	4.5	3.8	1.92	.48	7.3		.6	9	0	
1682	2-23		"	112.	319.	6.61		2110.		.6 2-8	21	-2.3 +1.5	
1683	2-23		"	110.	322.	6.24	3.93	2010.		.6	11	0	
1684	2-26		"	92.	150.	3.57	2.27	536.		.6	18	0	
1685	2-29		"	92.	144.	3.90	2.13	561.		.6	18	0	
1686	3-3		"	110.	282.	5.57	3.62	1570.		.6	22	0	
1687	3-6		"	109.	276.	5.22	3.44	1440.		.6	22	-.01	
1688	3-10		"	135.	213.	1.98	2.12	421.		.6 2-8	27	-.01	
1689	3-15	1137A / 1210P	Haig & Middleton	109.	318	5.88	3.88	1870.		.6	13	0	FC29
1690	3-15	1210P / 117P	"	109.	316.	5.92	3.88	1870.		.6 2-8	14	0	"
1691	3-16		U.S.G.S.	110.	311.	6.30	4.00	1960.		.6	22	0	
1692	3-21	222P / 234P	Moon	19.5	19.9	.45	.45	9.0		.6	9	0	FC22
1693	3-24		U.S.G.S.	4.3	3.0	3.03	.45	9.1		.6	9	0	

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U8-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

~~AT~~ NEAR below Morris Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
1694	3-31		U.S.G.S.	4.3	3.2	2.88	.49	9.2		.6	8	0	
1695	4-1		Haig & Middleton	109.	316.	6.26	3.88	1980.		.6	21		FC35
1696	4-1	200P / 300P	"	109.	301.	6.18	3.88	1860.		.6 2-8	20		"
1697	4-1	330P / 400P	"	109.	320.	5.76	3.88	1850.		.6	13		"
1698	4-3	757A / 830A	Haig & Lindsay	108.	314.	5.80	3.88	1820.		.6	16		"
1699	4-7		U.S.G.S.	5.	6.2	1.65	.51	10.2		.6	10	0	
1700	4-13	130P / 138P	Moon	Two Channels			.53	9.8		.6	8		FC22
1701	4-14		U.S.G.S.	5.5	5.3	1.47	.53	7.8		.6	11	0	
1702	4-20	200P / 210P	Moon	Two Channels			.56	10.0		.6	8	0	FC22
1703	4-21		U.S.G.S.	5.0	4.9	1.65	.57	8.1		.6	10	0	
1704	4-27	147P / 155P	Moon	Two Channels			.60	11.6		.6	8	0	FC22
1705	4-28		U.S.G.S.	5.0	5.0	1.70	.59	8.5		.6	10	0	
1706	5-4	1250P / 1256P	Moon	6.0	5.7	1.49	.55	8.5		.6	6	0	FC22
1707	5-5		U.S.G.S.	5.5	5.2	1.65	.55	8.6		.6	11	0	
1708	5-11	224P / 230P	Moon	6.0	6.0	1.58	.55	9.5		.6	6	0	FC22
1709	5-12	100P / 135P	Moon & Dalton	Two Channels			2.37	607.		.6	19	0	
1710	5-17		U.S.G.S.	"	"		2.48	609.		Var	20	0	
1711	5-18	845A / 920A	Moon & Haig	137.	260.	2.88	2.60	748.		.6	18		FC35
1712	5-19		U.S.G.S.	Two Channels			2.60	705.		Var	21	0	
1713	5-26		"	"	"		2.61	752.		"	20	0	
1714	5-29	835A / 920A	Moon	134.8	258.	2.93	2.61	755.		.6	19		FC22
1715	6-1	140P / 146P	"	6.0	8.0	1.32	.54	10.6		.6	6	0	"
1716	6-2		U.S.G.S.	5.	5.8	1.48	.53	8.6		.6	10	0	
1717	6-9		"	95.	153.	3.92	2.36	547.		Var.	19	0	
1718	6-16		U.S.G.S.	145.	204.	2.40	2.23	490.		.6	29	0	
1719	6-23		"	95.	146.	3.45	2.23	504.		Var.	19	0	
1720	6-23		"	95.	148.	3.32	2.23	491.		.6	19	0	
1721	6-23		"	148.	203.	2.10	2.23	427.		.6	32	0	
1722	6-30		"	Two Channels			2.31	586.		.6	20	0	
1723	7-14		"	"	"		1.02	57.		.6	22	-.02	
1724	7-21		"	5.6	7.0	1.13	.52	7.9		.6	11	0	
1725	7-28		"	6.	7.6	1.07	.54	8.1		.6	12	0	
1726	8-10		"	5.5	7.4	1.08	.53	8.0		.6	11	0	
1727	8-19		"	5.5	7.1	1.18	.53	8.3		.6	11	0	
1728	8-25		"	6.0	7.1	1.03	.54	7.3		.6	12	0	
1729	8-31		"	6.0	6.6	1.0	.53	6.6		.6	12	0	
1730	9-15		"	5.8	6.6	.97	.52	6.4		.6	12	0	
1731	9-23		"	5.8	6.7	.92	.53	6.2		.6	12	0	

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U8-R

Daily discharge, in second-feet of SAN GABRIEL RIVER below Morris Dam, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	22	49	38	204	85	492	1130	9	9.5	245	8	6.5
2	22	49	41	89	8	1280	1900	8.5	9	245	8	6.5
3	21	49	41	13	8	1610	1900	8.5	9	245	8	6.5
4	21	49	41	10	8.5	1130	1900	8.5	9	245	8	6.5
5	21	49	41	10	8.5	1070	1900	9	9	245	8	6.5
6	21	46	43	7.5	8.5	1380	1310	9.5	9	446	8	6.5
7	21	46	41	7	8.5	590	11	10	9.5	513	8	6.5
8	21	46	38	7	8.5	496	10	9.5	10	551	8	6.5
9	15	46	38	6.5	8.5	500	10	9.5	384	551	8	6.5
10	43	46	6	6.5	8.5	434	9.5	9.5	532	253	8	6.5
11	43	46	7.5	6.5	13	417	9.5	9.5	494	76	8	6.5
12	43	46	9.5	6.5	23	423	9	365	494	70	8	6.5
13	43	43	13	14	24	440	8.5	585	494	70	8	6.5
14	43	43	20	21	20	716	9	614	494	65	8	6.5
15	43	43	18	21	8.5	1900	9	661	494	57	8	6.5
16	43	43	16	21	7.5	1920	9	661	494	55	8.5	6.5
17	43	41	12	21	7.5	1690	9	701	494	55	8.5	6.5
18	5	38	13	22	7	12	9	748	494	55	8.5	6.5
19	5	38	18	22	7.5	10	9	748	500	54	8.5	6.5
20	4.9	38	18	22	9	10	9	748	444	32	8	6.5
21	4.9	38	18	22	10	9	9	748	500	8.5	7.5	6
22	4.6	38	15	22	2070	9	9.5	748	500	8	7	6
23	4.6	36	15	22	2710	9	10	748	494	8	7	6
24	4.6	36	15	15	1610	9	10	748	506	8	7	6
25	4.9	36	15	8	830	9	9.5	748	525	8	7.5	6
26	4.9	36	15	8	678	9	9.5	755	538	8	7	6
27	4.9	36	15	8	671	9	11	755	545	8	7	6.5
28	4.9	36	96	8	666	9	10	755	545	8	6.5	6.5
29	4.9	38	86	8	440	9	9.5	755	545	8	6.5	6.5
30	4.9	38	17	8		9	9	579	444	8	6.5	6.5
31	4.9		101	8		9		10		8	6.5	
	2873		5952	9896.0		102675		11028.0		238.0		
	126.2			674.5	16619	13231				4216.5		192.0
MEAN	9.27	4.21	19.2	21.8	341.	536.	342.	428.	368.	136.	7.68	6.40
ACRE-FEET	570.	250.	1,180.	1,340.	19,630.	32,960.	20,370.	26,340.	21,870.	8,360.	472.	381.

Remarks:

YEAR OR PERIOD MEAN 184.
ACRE-FEET 133,700.

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily discharge, in second-feet of SAN GABRIEL-AZUSA CONDUIT DIVERSION from Storage at Morris Dam, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	88	81
2	0	0	0	0	0	0	0	0	0	0	88	79
3	0	0	0	0	0	0	0	0	0	0	88	79
4	0	0	0	0	0	0	0	0	0	0	88	78
5	0	0	0	0	0	0	0	0	0	0	88	78
6	0	0	0	0	0	33	0	0	0	0	88	78
7	0	0	0	0	0	88	0	0	0	0	88	78
8	0	0	0	0	0	88	0	0	0	0	88	78
9	0	0	0	0	0	88	0	0	0	0	88	76
10	0	0	0	0	0	88	0	0	0	0	88	78
11	0	0	0	0	0	88	0	57	0	0	88	75
12	0	0	0	0	0	89	0	89	0	0	88	73
13	0	0	0	0	0	89	0	89	0	0	88	73
14	0	0	0	0	0	89	0	89	0	0	88	73
15	0	0	0	0	0	86	0	89	0	0	88	72
16	0	0	0	0	0	89	0	89	0	0	88	70
17	0	0	0	0	0	88	0	89	0	0	88	70
18	0	0	0	0	0	89	0	32	0	0	88	70
19	0	0	0	0	0	89	0	0	0	58	88	70
20	0	0	0	0	0	89	0	0	0	87	88	70
21	0	0	0	0	0	89	0	0	0	88	88	70
22	0	0	0	0	0	89	0	0	0	88	88	70
23	0	0	0	0	0	89	0	0	0	88	88	70
24	0	0	0	0	0	89	0	0	0	88	88	70
25	0	0	0	0	0	35	0	0	0	88	81	70
26	0	0	0	0	0	0	0	0	0	88	83	70
27	0	0	0	0	0	0	58	0	0	88	83	70
28	0	0	0	0	0	0	89	0	0	88	83	70
29	0	0	0	0		0	86	0	0	88	83	70
30	0	0	0	0		0	29	0	0	88	83	70
31	0		0	0		0		0		88	83	
	0	0	0	0	0	1661	262	623	0	1113	2691	2214
MEAN	0	0	0	0	0	53.6	8.7	20.1	0	35.9	86.8	73.8
ACRE-FEET	0	0	0	0	0	3290	520	1240	0	2210	5340	4390

Remarks:

YEAR OR PERIOD — MEAN 23.5 — ACRE-FEET 16,990

STATION S100A-R

SAN GABRIEL RIVER - AZUSA DUARTE TUNNEL DIVERSION
at Mouth of Canyon

LOCATION:

Water-stage recorder, lat. 34°09'33", long., 117°54'27", 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. Elevation of gage, about 750 feet.

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 Peirce, Water Master of the San Gabriel River Water Committee. Published herewith are the records from October 1, 1943 to September 30, 1944. Records prior to October, 1939 were published with the records of Station F100-R which was abandoned November, 1940.

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F190-R

Daily discharge, in second-feet of SAN GABRIEL-AZUSA DUARTE TUNNEL DIVERSION at Mouth of Canyon, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	16.5	1.2	1.2	0	4.9	0	23.6	4.3	0	65.0	4.8	4.2
2	16.5	1.2	1.2	0	4.4	0	33.0	4.0	0	65.0	4.8	4.2
3	16.5	1.2	1.2	0	4.3	0	33.0	4.0	0	65.0	4.8	4.1
4	16.5	1.2	1.2	0	7.1	0	33.0	4.0	0	65.0	4.8	3.9
5	16.5	1.2	1.2	0	5.2	0	33.0	4.3	0	65.0	5.0	3.9
6	16.5	1.2	1.2	0	5.2	0	26.5	4.3	0	71.3	5.0	3.8
7	16.5	1.2	1.2	0	5.2	0	8.3	4.3	0	74.4	5.0	3.9
8	16.5	1.2	1.2	0	3.4	0	6.8	4.3	1.7	74.4	5.0	3.7
9	13.9	1.2	1.2	0	0	0	5.9	4.3	44.3	74.2	5.0	3.7
10	2.7	1.2	0.8	0	0	0	5.7	4.6	65.0	57.3	5.0	3.7
11	1.6	1.2	0	0	5.3	0	5.2	4.6	64.2	43.7	4.8	3.7
12	1.3	1.2	0	0	16.8	0	5.2	31.7	66.5	43.7	4.8	3.7
13	1.3	1.2	0	8.1	16.8	0	5.0	59.5	66.5	42.3	4.8	3.7
14	1.3	1.2	10.4	14.9	16.6	0	5.0	61.0	66.5	40.2	4.8	3.8
15	1.3	1.2	14.9	15.4	8.1	0	4.8	62.6	66.5	36.3	4.8	3.8
16	1.5	1.2	14.3	15.7	5.2	0	4.8	63.4	66.5	36.9	4.8	3.8
17	1.5	1.2	8.7	16.2	5.2	0	4.8	64.2	67.3	36.9	4.8	3.8
18	2.4	1.2	3.2	17.3	5.2	0	4.8	65.0	67.3	36.9	4.8	3.8
19	1.9	1.2	0	17.3	5.2	0	4.8	65.8	67.3	35.6	4.8	3.8
20	1.5	1.2	0	17.3	5.7	0	4.8	65.8	67.3	28.6	4.8	3.8
21	1.5	1.2	0	17.3	0	0	4.8	65.8	74.4	7.8	4.8	3.8
22	1.5	1.2	0	17.3	0	0	4.8	65.8	74.4	6.7	4.8	3.8
23	1.5	1.2	0	18.1	0	1.4	4.8	65.8	74.4	5.6	4.8	3.8
24	1.5	1.2	0	13.5	0	2.8	4.8	65.8	74.4	4.8	4.8	3.8
25	1.4	1.2	0	6.7	0	2.8	4.8	65.8	74.4	4.8	4.8	3.8
26	1.2	1.2	0	5.9	0	2.8	4.8	65.8	74.4	4.8	4.7	3.8
27	1.2	1.2	0	5.9	0	2.8	7.6	65.8	74.4	4.8	4.5	3.8
28	1.2	1.2	0	5.2	0	2.8	6.2	65.8	74.4	4.8	4.3	3.8
29	1.2	1.2	0	5.2	0	2.8	5.5	65.8	74.4	4.8	4.2	3.8
30	1.2	1.2	0	5.2		3.9	5.0	43.8	74.4	4.8	4.2	3.8
31	1.2		0	5.9		4.9		0		4.8	4.2	
	178.8	36.0	63.1	227.4	129.8	27.0	311.1	1222.0	1520.9	1116.2	147.3	114.8
MEAN	5.77	1.20	2.04	7.34	4.48	0.87	10.4	39.4	50.7	36.0	4.75	3.83
ACRE-FEET	355	71	125	451	257	53	617	2424	3017	2214	292	228

Remarks:

YEAR OR PERIOD MEAN 13.9
ACRE-FEET 10,100

STATION F190-R

SAN GABRIEL RIVER at Foothill Boulevard

LOCATION:

Water-stage recorder, lat. 34°08'13", long. 117°56'32", on the downstream side of Foothill Boulevard bridge 2 miles west of Azusa. Elevation of zero gage height, 558.81 feet.

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, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 4,840 second-feet, February 22.
Minimum no flow at various times.
1932-1944
Maximum 62,000 second-feet, estimated, March 2, 1938.
Minimum no flow at times each year.

ACCURACY:

Good.

OPERATION:

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

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F190-B

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

NEAR at Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
377	12-23	1150A / 1154A	Moon	4.0	1.55	0.84	6.54	1.3		.6	4	0	FC22
378	12-29	843A / 858A	" -Stunden	74.0	141	1.16	8.10	164		.6	10	0	"
379	1-2	910A / 922A	"	42.0	59.8	2.81	8.10	168		.6	9	0	"
380	1-6	1150A / 1155A	"	3.5	1.20	0.43	6.57	0.52		.6	4	0	"
381	1-13	1130A / 1140A	"	10.0	495	0.97	6.88	4.8		.6	8	0	"
382	1-20	1205P / 1215P	"	7.5	3.50	1.06	6.84	3.7		.6	8	0	"
383	1-27	1024A / 1030A	"	10.0	4.65	0.97	6.67	4.5		.6	6	0	"
384	2-3	1110A / 1120A	"	9.5	4.98	1.08	6.73	5.4		.6	9	0	"
385	2-10	1040A / 1050A	"	Two Channels			6.80	6.9		.6	9	0	"
386	2-17	1210P / 1220P	"	Two "			6.79	6.5		.6	10	0	"
387	2-21	140P / 150P	" -Stunden	40.0	33.8	1.62	7.37	55.0		.6	9	0	"
388	2-22	607A / 637A	Haig-Kasimoff	76.0	150	4.85	8.81	727		.6	10	+.02	FC35
389	2-22	205P / 225P	Moon-Stunden	92.0	407	11.8	10.35	4550		.6	9	+.15 -.05	FC22
390	2-23	500P / 522P	" "	85.0	264	8.30	8.40	2190		.6	9	0	"
391	2-25	1041A / 1058A	" "	82.0	140	4.89	7.16	685		.6	11	0	"
392	2-26	1105A / 1139A	"	80.0	144	5.74	7.13	826		.6	16	0	"
393	2-27	1100A / 1137A	"	80.0	115	4.83	6.63	556		.6	18	0	"
394	2-29	220P / 306P	"	76.0	100	4.26	6.44	426		.6	18	0	"
395	3-2	1230A / 110A	Moon-Stunden	80.0	170	5.94	7.58	1010		.6	16	+.03	"
396	3-5	1000P / 1040P	" "	82.0	209	7.18	7.91	1500		.6	17	0	"
397	3-13	835A / 855A	Moon & Vander Goot	93.0	156	2.72	6.43	425		.6	13	0	FC22
398	3-15	850A / 928A	Moon & Green	84.0	241	7.15	8.30	1790		.6	18	0	"
399	3-17	115P / 208P	"	85.0	246	7.28	8.33	1860		.6	18	0	"
400	3-21	1250P / 100P	"	19.0	12.8	1.37	4.69	17.5		.6	8	0	"
401	3-24	220P / 227P	Moon	12.0	8.20	1.17	4.36	9.6		.6	6	0	FC22
402	4-3	940A / 1040A	Lindsay & Haig	86.0	253.	7.35	8.30	1860.		.6	11	0	FC35
403	4-7	348P / 358P	Moon	Two Channels			4.42	17.8		.6	8	0	FC22
404	4-27	1230P / 1236P	"	7.0	4.40	0.84	4.10	3.7		.6	6	0	"
405	5-4	1017A / 1024A	"	6.0	3.55	0.73	4.04	2.6		.6	6	0	"
406	5-11	145P / 152P	"	6.0	3.40	0.59	3.95	2.0		.6	6	0	"
407	5-12	307P / 333P	"	85.0	181.	2.78	6.52	503.		.6	10	0	"
408	5-15	820A / 850A	"	75.0	122.	4.70	6.72	573.		.6	13	0	"
409	5-18	1020A / 1046A	Moon & Haig	81.0	141.	5.25	6.88	740.		.6	17		FC35
410	5-29	1035A / 1203A	Moon & Bollinger	83.0	149.	4.15	6.87	618.		.6	20	0	FC22
411	6-1	1253P / 1259P	Moon	6.0	3.44	0.64	4.08	2.2		.6	6	0	"
412	6-10	230P / 300P	Moon & Jordan	84.0	146.	2.53	6.33	370.		.6	18	0	"
413	6-12	1045A / 1115A	" "	84.0	145.	2.63	6.35	382.		.6	17	0	"
414	6-15	145P / 215P	Moon	81.0	151.	2.62	6.37	395.		.6	17	0	"
415	6-22	1214P / 1246P	Haig	90.0	134.	2.80	6.38	375.		.6	20	0	FC35
416	6-29	214P / 245P	Moon	75.5	152.	2.68	6.45	407.		.6	16	0	FC22
417	7-5	140P / 200P	"	67.0	90.3	1.63	5.60	147.		.6	14	0	"
418	7-6	855A / 924A	"	77.0	144.	2.51	6.31	361.		.6	16	+.06	"
419	7-12	947A / 955A	"	12.0	8.75	1.24	4.40	10.9		.6	7	0	"
420	7-27	1115A / 1120A	"	3.0	1.27	0.50	3.72	0.64		.6	4	0	"

F. C. Dist. Form 57 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

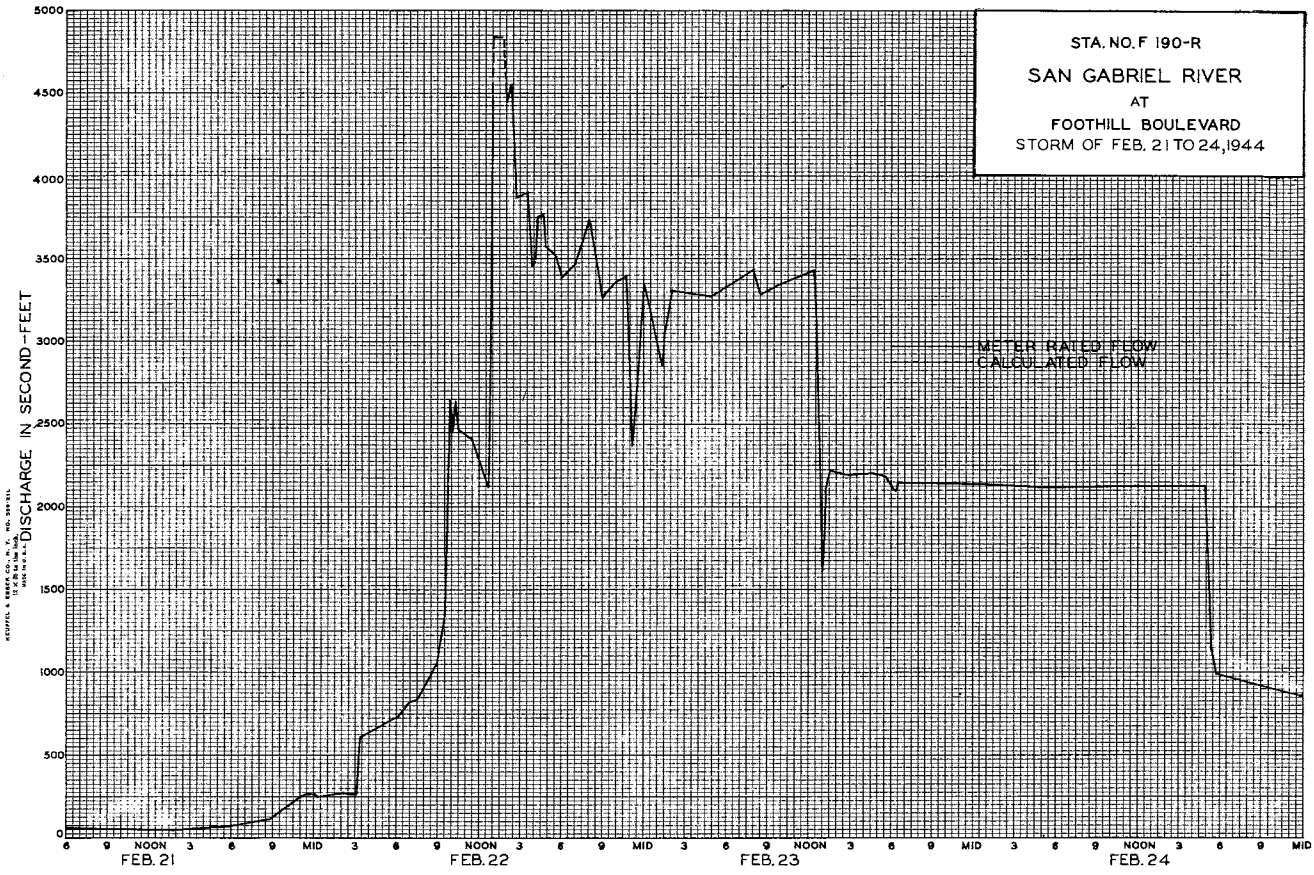
Sta. No. F190-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Foothill Boulevard for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	157	55	468	955	v 30	v 22	161	0	0
2	0	0	0	98	55	1260	1870	v 26	v 17	158	0	0
3	0	0	0	6	55	1670	1870	v 26	v 12	152	0	0
4	0	0	0	29	75	1230	1870	v 26	v 07	154	0	0
5	0	0	0	04	6	1080	1870	v 25	v 02	149	0	0
6	0	0	0	06	6	1470	1360	v 24	0	299	0	0
7	0	0	0	10	6	574	v 26	v 23	0	389	0	0
8	0	0	0	17	75	466	v 8	v 22	0	418	0	0
9	0	0	0	17	85	480	v 30	v 21	230	432	0	0
10	0	0	+	17	7	418	v 20	v 20	408	215	0	0
11	0	0	10	23	7	393	v +	v 20	381	v 13	0	0
12	0	0	0	45	7	405	0	260	385	v 11	0	0
13	0	0	0	47	7	423	0	490	385	v 9.5	0	0
14	0	0	0	55	7	628	0	522	393	v 8	0	0
15	0	0	0	55	7	1810	0	572	393	v 6.5	0	0
16	0	0	0	55	7	1850	0	577	397	v 5	0	0
17	0	0	0	5	6.5	1770	0	594	401	v 3.5	0	0
18	0	0	0	5	6.5	v 55	0	616	405	v 2.0	0	0
19	0	0	27	3.4	6.5	v 34	0	616	405	v 0.5	0	0
20	0	0	19	3.5	28	v 25	0	622	351	v 0	0	0
21	0	0	63	3.3	85	v 18	v 0.7	634	381	v 0	0	0
22	0	0	4.7	4.1	2260	v 14	v 1.2	628	381	v 0	0	0
23	0	0	1.2	7.5	2750	v 12	v 1.7	622	373	v 0	0	0
24	0	0	1.1	10	1790	v 9.5	v 2.2	622	385	v 0	0	0
25	0	0	1.0	6.5	844	v 7	v 2.7	616	401	0	0	0
26	0	0	0.9	5.5	722	v 4.6	v 3.2	616	405	0	0	0
27	0	0	0.9	4.5	676	v 3.1	v 3.7	616	405	v 0.6	0	0
28	0	0	44	4.7	684	v 2.0	v 3.2	616	405	v 0.4	0	0
29	0	0	105	5.5	432	v 0.4	v 2.7	616	405	v 0.2	0	0
30	0	0	23	6		0	v 2.2	531	351	0	0	0
31	0		45	5.5		0		v 1.5		0	0	
	0		336.8	103975		98575		84320		0		
		0	379.0		165796		110273		25872		0	
MEAN	0	0	10.9	12.2	359.	535.	329.	356.	281.	83.5	0	0
ACRE-FEET	0	0	668.	752.	20620.	32890.	19650.	21870.	16720.	5130.	0	0

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

YEAR OR PERIOD MEAN 163.
ACRE-FEET 118300.



STATION E281-R

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 1.5 miles north of Baldwin Park. Elevation of gage about 400 feet.

DRAINAGE AREA:

231 square miles. Indeterminate when reservoir water surface exceeds spillway elevation.

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 October 1, 1943 to September 30, 1944.

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.

DIVERSION:

There are diversions for irrigation, power development, and spreading. Discharges over the spillway of dam flow to the Rio Hondo , and are not recorded at this station.

RECORDS AVAILABLE:

Recorder records February 9, 1943, to September 30, 1944. For measurements prior to February 9, 1943, see Los Angeles County Flood Control District staff gage station F247-S at Arrow Highway.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 3,480 second-feet, February 22.
Minimum no flow most of year.
1942-1944
Maximum 6,700 second-feet January 24, 1943.
Minimum no flow most of each year.

ACCURACY:

Good.

COOPERATION:

Records furnished by Corps of Engineers, U.S. Army, and the United States Geological Survey, Water Resources Branch with the exception of 26 discharge measurements furnished by the Los Angeles County Flood Control District in co-operation with the Corps of Engineers, U. S. Army, and the United States Geological Survey.

REMARKS:

Records include 15,180 acre-feet diverted below Santa Fe Dam to the Rio Hondo during May, June, and July as published in this report with Station F280-R, Rio Hondo Diversion below Santa Fe Dam.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. E281-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

at below Santa Fe 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.	S. MT. CHANGE TOTAL	METER NO.
31	2-22		U.S.G.S.	194.8	433.	2.28	32.27	995.		.2 .8	20	+.44	
32	2-22	116P 225P	U.S.E.D.	230.0	462.	7.99	33.60	3690.		.6	25	+.73	35549
33	2-22	400P 510P	"	241.0	550.	7.98	33.90	4390.		.6	24	-.19	"
34	2-23	123P 218P	"	203.0	404.	5.55	33.10	2240.		.6	20	-.42	"
35	2-23	220P 330P	"	202.0	379.	5.52	32.80	2090.		.6	20	-.18	"
36	2-24	1112A 1218P	"	191.0	346.	5.35	32.74	1850.		.6	19	0	"
37	2-24	1225P 130P	"	191.0	339.	5.40	32.73	1830		.6	17	0	"
38	2-25	240P 309P	"	194.0	309.	2.85	31.71	881.		.6	21	0	35622
39	2-26		U. S. G. S.	193.8	318.	2.95	31.60	937.		.6	22	0	
40	2-26	245P 315P	U.S.E.D.	194.0	272.	2.47	31.53	673.		.6	21	-.06	35622
41	2-28	1047A 1118A	U.S.E.D.	194.0	316.	2.57	31.79	812.		.2 .8	21	0	"
42	2-28	1241P 1257P	"	194.0	274.	2.32	31.51	637.		.6	21	-.08	"
43	3-1	1010A 1036A	"	194.0	211.	1.63	31.15	344.		.6	21	0	35549
44	3-3		U.S.G.S.	193.8	426.	3.71	32.33	1580.		.6	22	0	
45	3-4		"		409.	3.88	32.31	1590		.2 .8			
46	3-9	1135A 1200N	U.S.E.D.	194.0	223.	1.84	31.21	412.		.6	21	0	35622
47	3-10		U.S.G.S.	193.8	191.	1.30	30.96	248.		.6	22	-.02	
48	3-11	140P 205P	U.S.E.D.	194.0	181.	1.31	31.00	238.		.6	21	0	35622
49	3-14	150P 220P	"	194.0	189.	1.39	31.04	263.		.6	21	0	"
50	3-15	1005A 1100A	"	194.0	439	4.36	32.53	1920.		.6	21	0	"
51	3-16		U.S.G.S.	193.8	464.	4.31	32.55	2000.		.2 .8	22	+.01	
52	3-16		U.S.G.S.	210.0	309.5	5.88	32.48	1820.		.6	25	-.07	
53	3-17		"		441.	4.03	32.45	1780.		.2 .8	21	0	
54	3-17	140P 255P	U.S.E.D.	194.0	446.	3.98	32.45	1780.		.2 .8	21	0	35622
55	4-4	1045A 1210P	U.S.E.D.	350.0	1120.	1.37	32.60	1540.		.6	20	0	35629
56	4-4	150P 258P	"	194.0	446.	3.83	32.60	1710.		.2 .8	12	0	3
57	4-4	155P 230P	"	350.0	1120.	1.39	32.60	1530.		.6	19	0	32629
58	4-4	150P 258P	"	194.0	446.	3.83	32.60	1710.		.2 .8	12	0	3
59	4-4	1135A 240P	"				32.60	1530.	Vert. Vel.			0	Pitot
60	5-13		U. S. G. S.	Two Channels			32.24	369.		.2 .8	56	0	
61	5-13		"	"	"		32.24	341.		.2 .8	43	0	
62	5-15	200P 230P	U.S.E.D.	194.0	174.	1.24	30.95	216.		.6	21	0	35629
63	5-17	125P 200P	"	194.0	173.	1.19	30.95	206.		.6	21	0	"
64	5-17		U. S. G. S.	240.0	338.	1.40	32.45	474.		.6 .8	50	+.08	
65	5-17		"				32.58	506.		.2 .8	40	+.02	
66	5-25	205P 220P	U.S.E.D.	194.0	173.	1.24	30.95	214.		.6	21	0	35629
67	5-26		U. S. G. S.	230.0	333.	1.46	32.45	486.		.6 .8	27	0	
68	6-10		"				32.08	281.		.2 .8	50	-.01	
69	6-14	125P 155P	U.S.E.D.	194.0	150.	1.01	30.83	152.		.6	21	0	
70	6-14		U. S. G. S.				32.06	270.		.2 .8	52	0	
71	6-16		"				32.05	270.		.2 .8	38	0	
72	6-21		"				32.04	261.		.2 .8	40	0	
73	6-23		"				32.03	261.		.2 .8	40	0	
74	6-28		"				32.08	268.		.2 .8	39	0	
75	6-30		"				32.11	272.		.2 .8	39	0	
76	7-3	140P 205P	U.S.E.D.	194.0	77.7	0.43	30.45	33.2		.6	21	0	35629
77	7-7		U. S. G. S.				32.00	222.		.2 .8	39	0	

F. C. Dis. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E281-R

Daily discharge, in second-feet of SAN GABRIEL RIVER below Santa Fe Dam, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	116	0	365	730	0	0	49	0	0
2	0	0	0	84	0	1260	1770	0	0	40	0	0
3	0	0	0	0	0	1590	1790	0	0	34	0	0
4	0	0	0	0	0	1150	1790	0	0	34	0	0
5	0	0	0	0	0	922	1780	0	0	30	0	0
6	0	0	0	0	0	1390	1400	0	0	132	0	0
7	0	0	0	0	0	548	31	0	0	221	0	0
8	0	0	0	0	0	342	0	0	0	252	0	0
9	0	0	0	0	0	353	0	0	92	261	0	0
10	0	0	0	0	0	265	0	0	307	144	0	0
11	0	0	0	0	0	232	0	0	279	0	0	0
12	0	0	0	0	0	239	0	46	279	0	0	0
13	0	0	0	0	0	267	0	363	279	0	0	0
14	0	0	0	0	0	420	0	400	279	0	0	0
15	0	0	0	0	0	1710	0	444	275	0	0	0
16	0	0	0	0	0	1750	0	444	275	0	0	0
17	0	0	0	0	0	1690	0	470	275	0	0	0
18	0	0	0	0	0	45	0	525	265	0	0	0
19	0	0	0	0	0	0	0	519	261	0	0	0
20	0	0	0	0	0	0	0	519	228	0	0	0
21	0	0	0	0	0	0	0	513	265	0	0	0
22	0	0	0	0	1970	0	0	513	265	0	0	0
23	0	0	0	0	2550	0	0	495	261	0	0	0
24	0	0	0	0	1710	0	0	495	265	0	0	0
25	0	0	0	0	851	0	0	490	275	0	0	0
26	0	0	0	0	710	0	0	490	275	0	0	0
27	0	0	0	0	566	0	0	484	279	0	0	0
28	0	0	0	0	557	0	0	484	279	0	0	0
29	0	0	9	0	335	0	0	484	270	0	0	0
30	0	0	0	0		0	0	441	239	0	0	0
31	0		1.6	0		0		3.0		0	0	
	0	0	106	200	9249	14538	92631	8622.0	5767	1197	0	0
MEAN	0	0	0.34	6.4	319.	469.	309.	278.	192.	38.6	0	0
ACRE-FEET	0	0	21.	397.	18,350.	28,840.	18,370.	17,100.	11,440.	2,370.	0	0

Remarks:

YEAR OR PERIOD — MEAN 133. — ACRE-FEET 96,890.

STATION F261B-R

SAN GABRIEL RIVER at Valley Boulevard

LOCATION:

Water-stage recorder, lat. 34°03'25", long. 118°00'25", on the right (west) abutment on the downstream side of Valley Boulevard bridge about 1.8 miles southeast of El Monte.

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, 1944.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2, Morris Dam, Big Dalton Dam, San Dimas Dam, Puddingstone Diversion Dam, Puddingstone Dam, and Live Oak Dam. There are no gates in Santa Fe Dam.

DIVERSIONS:

There are also several diversions for irrigation, spreading, and power development.

RECORDS AVAILABLE:

Station F261-R
March 11, 1937 to September 30, 1941.
Station F261B-R
October 1, 1941 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 5,950 second-feet, February 22.
Minimum no flow part of year.
1941-1944
Maximum 9,400, estimated, January 23, 1943.
Minimum no flow each year.

ACCURACY:

Fair. Mean daily flows compared with Santa Fe Dam outflows, and discharges of the San Gabriel River at Beverly Boulevard. Rating curve extropolated from measurements to 5,290 second-feet.

OPERATION:

Located, constructed, 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. Walnut Creek discharge is not included in this record except during the peak of the February 22 storm.

F.C.D. FORM 104 SM 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F261B-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Valley Boulevard 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	METH OD	MEAS SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
65	10-1	952A / 1000A	Brewster	8.0	1.72	0.64		1.1		.6	4		FC12
66	10-8	1002A / 1010A	"	6.0	1.35	0.63		0.85		.6	4		"
67	10-15	1026A / 1035A	"	8.0	1.52	0.66		0.66		.6	4		"
68	10-22	1014A / 1020A	"	8.0	1.68	0.51		0.85		.6	4		"
69	10-29	1000A / 1008A	"	8.0	1.72	0.58		1.0		.6	4		"
70	11-5	1015A / 1025A	"	8.0	1.76	0.52		0.92		.6	4		"
71	11-12	945A / 955A	"	8.0	1.56	0.56		0.88		.6	4		"
72	11-19	949A / 956A	"	8.0	1.52	0.42	0.67	0.64		.6	4	0	"
73	11-26	1025A / 1032A	"	8.0	1.40	0.53	0.65	0.74		.6	4	0	"
74	12-3	952A / 959A	"	6.0	1.41	0.48	0.64	0.67		.6	4	0	"
75	12-10	750A / 800A	Brewster	6.0	1.44	0.58	0.66	0.84		.6	4	0	FC12
76	12-17	942A / 950A	"	8.0	2.24	0.82	0.75	1.8		.6	4	0	"
77	12-24	1003A / 1015A	"	9.0	3.31	0.69	0.75	2.3		.6	5	0	"
78	12-31	1028A / 1040A	"	12.0	4.00	0.60	0.75	2.4		.6	6	0	"
79	1-7	1015A / 1027A	"	12.0	4.12	0.61	0.76	2.5		.6	6	0	"
80	1-14	1005A / 1019A	"	14.0	4.96	0.54	0.76	2.7		.6	7	0	"
81	1-21	1035A / 1045A	Haig	22.0	7.34	0.49	0.78	3.6		.6	7	0	FC35
82	1-28	1042A / 1055A	Green & Haig	14.0	4.70	0.49	0.77	2.3		.6	8	0	"
83	2-4	332P / 345P	" "	13.8	4.79	0.50	0.77	2.4		.6	8	0	"
84	2-10	1127A / 1143A	Green	15.0	4.57	0.59	0.75	2.7		.6	12	0	FC42
85	2-18	1016A / 1028A	Brewster	16.0	4.66	0.64	0.77	3.0		.6	5	0	FC12
86	2-22	300P / 345P	Haig & Kasimoff	335.0	705.	7.50	6.11	5290.		.6	20	+.03 -.05	FC35
87	2-23	330P / 345P	"	145.0	288.	6.35	4.36	1830.		.6	13	-.07	FC35
88	2-25	300P / 340P	Brewster & Smith	Two Channels			3.78	569.		.6	16	0	FC12
89	2-28	1120A / 1155A	Brewster	Two Channels			3.79	545.		.6	17	-.04	FC12
90	3-10	1100A / 1118A	Brewster & Green	53.0	37.6	2.46	3.42	92.6		.6	11	0	"
91	3-13	1030A / 1042A	Brewster & Bonadiman	48.0	23.9	1.95		46.7		.6	10		"
92	3-24	1000A / 1010A	Brewster	18.0	8.10	1.21	2.98	9.8		.6	5	0	"
93	3-31	1018A / 1030A	"	20.0	9.20	1.11	2.93	10.2		.6	5	0	"
94	4-6	1040A / 1120A	Haig & van der Goot	143.0	307.	4.98	4.32	1530.	Surf.	.6	17	0	FC35
95	4-7	1030A / 1045A	Brewster	34.0	12.5	1.54	3.29	19.3		.6	7	-.02	FC12
96	4-14	1029A / 1040A	"	18.0	9.60	1.50	2.86	14.4		.6	5	0	"
97	4-21	1038A / 1050A	"	14.0	7.72	1.35	2.86	10.4		.6	6	0	"
98	4-28	1043A / 1055A	"	17.0	8.20	1.51	2.84	12.4		.6	5	0	"
99	5-5	955A / 1007A	"	16.0	6.50	1.54	2.83	10.0		.6	5	0	"
100	5-12	220P / 230P	Wood & Brewster	12.0	5.40	1.28	2.78	6.9		.6	5	0	"
101	5-13	1233P / 1245P	Lindsay	16.5	6.80	2.34		15.9		.6	8		FC36
102	5-15	430P / 445P	Moon & Jordan	26.0	20.0	1.77		35.4		.6	10		FC22
103	5-16	910A / 923A	" "	31.0	23.3	2.13		49.7		.6	12		"
104	5-17	855A / 905A	Moon	31.0	23.0	2.05	3.02	47.2		.6	13	0	"
105	5-18	508P / 521P	Moon & Haig	35.0	41.0	2.08	3.17	85.1		.6	11	0	FC35
106	5-19	1110A / 1128A	Brewster	54.0	35.6	2.16	3.18	77.0		.6	7	0	FC12
107	5-22	915A / 930A	Moon	35.5	37.4	2.09	3.16	78.1		.6	13	0	FC22
108	5-25	155P / 215P	Brewster	56.0	34.7	1.86	3.12	64.4		.6	8	0	FC12
109	5-26	1027A / 1048A	"	58.0	33.0	2.12	3.10	70.0		.6	8	0	"
110	5-29	333P / 348P	Moon & Bollinger	36.0	33.4	2.03		67.7		.6	11		FC22
111	6-2	1030A / 1040A	Brewster	17.0	7.80	1.21	2.67	9.4		.6	5	0	FC12
112	6-8	950A / 1001A	Brewster & Bonadiman	16.0	7.90	1.02	2.53	8.0		.6	5	0	"
113	6-10	649P / 700P	Moon & Jordan	34.0	27.3	1.82		49.7		.6	11		FC22
114	6-11	1050A / 1105A	Jordan	36.0	34.2	2.12		72.4		.6	13		FC21
115	6-12	140P / 200P	Moon & Jordan	36.0	34.8	2.08		72.5		.6	11		FC22
116	6-15	935A / 950A	Moon	35.0	23.4	1.92		45.0		.6	12		"
117	6-22	904A / 922A	Haig	35.0	33.8	1.63	2.88	55.1		.6	12	0	FC35
118	6-22	950A / 1003A	Bonadiman	54.0	32.8	1.97	2.84	64.7		.6	11	0	FC19
119	6-29	1105A / 1125A	Brewster	Two Channels			2.88	48.4		.6	10	0	FC12
120	7-6	1043A / 1055A	"	16.0	9.20	0.99	2.63	9.1		.6	4	0	"
121	7-13	1018A / 1030A	"	14.0	8.00	0.99	2.68	7.9		.6	5	0	"
122	7-20	1020A / 1030A	"	15.0	8.45	0.84	2.62	7.1		.6	4	0	"
123	8-3	1015A / 1025A	"	16.0	9.20	0.82		7.5		.6	4		"
124	8-17	1000A / 1010A	"	14.0	7.60	0.64		4.9		.6	4		"
125	8-31	1025A / 1035A	"	14.0	7.60	0.36		2.7		.6	4		"
126	9-14	940A / 950A	"	12.0	6.90	0.35		2.4		.6	4		"
127	9-28	950A / 1000A	Stuhden & Brewster	14.0	3.88	0.41		1.6		.6	4		"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

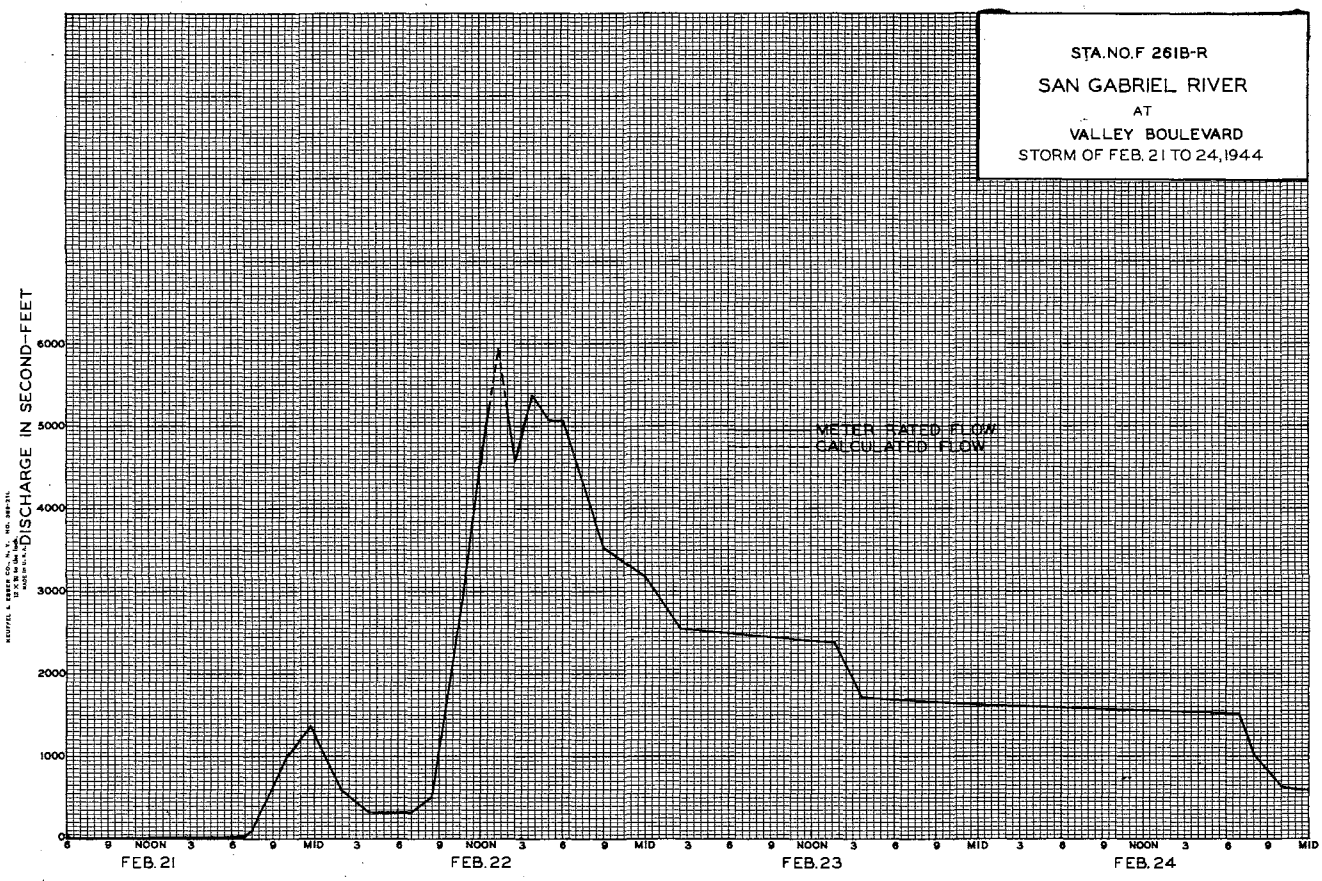
Sta. No. F261B-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Valley Boulevard, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	1.0	0.7	2.4	2.4	d 160	d 480	11	9.5	9.5	7.5	2.7
2	1.1	0.9	0.7	2.4	2.4	d 970	d1500	11	9.5	9.5	7.5	2.7
3	1.0	0.9	0.7	2.4	2.4	d1320	d1540	11	9.5	9.5	7.5	2.5
4	1.0	0.9	0.7	2.5	2.4	d 900	d1540	10	9	9	7.5	2.6
5	0.9	0.9	0.7	2.5	2.4	d 620	d1540	10	9	9	7	2.6
6	0.9	0.9	0.7	2.5	2.5	d1050	d1130	9.5	8.5	9	7	2.6
7	0.8	0.9	0.8	2.5	2.5	d 330	d 100	9	8	b 20	6.5	2.5
8	0.8	0.9	0.8	2.5	2.6	d 160	d 18	8.5	8	b 40	6.5	2.5
9	0.8	0.9	0.8	2.6	2.6	d 165	d 17	8	20	b 40	6.5	2.5
10	0.8	0.9	0.8	2.6	2.7	d 93	16	8	50	b 20	6	2.5
11	0.8	0.9	0.9	2.6	2.7	d 85	15	7.5	72	8	6	2.5
12	0.7	0.9	1.0	2.6	2.8	d 50	15	7	72	8	6	2.4
13	0.7	0.9	1.2	2.7	2.8	d 47	14	16	60	8	5.5	2.4
14	0.7	0.8	1.4	2.7	2.8	d 80	14	22	45	8	5.5	2.4
15	0.7	0.8	1.5	2.8	2.9	d1450	14	35	45	7.5	5.5	2.3
16	0.7	0.7	1.7	3.0	2.9	d1500	13	45	45	7.5	5	2.3
17	0.7	0.7	1.8	3.1	3.0	d1430	13	63	45	7.5	4.9	2.2
18	0.7	0.6	1.9	3.2	3.0	d 100	12	85	45	7.5	4.7	2.2
19	0.8	0.6	1.9	3.3	3.1	d 10	12	83	45	7	4.6	2.1
20	0.8	0.6	2.0	3.5	3.2	d 10	11	80	40	7	4.4	2.1
21	0.8	0.6	2.1	3.6	266	d 10	10	80	60	7	4.3	2.0
22	0.8	0.6	2.2	3.4	2720	d 10	11	78	60	7	4.1	1.9
23	0.8	0.7	2.2	3.2	2190	d 10	11	72	60	7	4.0	1.9
24	0.9	0.7	2.3	3.0	1420	d 10	11	68	58	7	3.8	1.8
25	0.9	0.7	2.3	2.9	562	d 10	11	64	56	7	3.6	1.8
26	0.9	0.7	2.3	2.7	d460	d 10	11	68	54	7.5	3.5	1.7
27	0.9	0.7	2.3	2.5	d350	d 10	12	68	52	7.5	3.3	1.6
28	1.0	0.7	2.4	2.3	d340	d 10	12	68	50	7.5	3.2	1.6
29	1.0	0.7	2.4	2.3	d150	d 10	12	68	48	7.5	3.0	1.6
30	1.0	0.7	2.4	2.3		d 10	12	60	40	7.5	2.8	1.6
31	1.0		2.4	2.3		d 10		9.5		7.5	2.7	
	26.5		48.0		8512.1		8127		1193		1599	
		23.4		84.9		10640		12430		331.5		66.2
Mean	0.85	0.78	1.55	2.74	294.	341.	271.	40.1	39.8	10.7	5.16	2.21
Acre-Feet	53.	46.	95.	168.	16880.	20990.	16120.	2460.	2370.	658.	317.	131.

Remarks:

Year or Period: Mean 83.0; Acre-Feet 60,290.



STATION F263-R

SAN GABRIEL RIVER at Beverly Boulevard

LOCATION:

Water-stage recorder, lat. 34°00'20", long. 118°04'05", on the downstream side of the Beverly Boulevard bridge, 0.5 mile east of Pico. Elevation of gage, about 180 feet.

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, 1943 to September 30, 1944.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2, Morris Dam, Big Dalton Dam, Puddingstone Diversion Dam, Puddingstone Dam, Live Oak Dam, and Thompson Creek Dam. There are no gates in Santa Fe Dam.

DIVERSIONS:

There are several diversions for irrigation, power development, and spreading.

RECORDS AVAILABLE:

February 4, 1937 to September 30, 1944. (For records prior to February 4, 1937 see Station F63-R, 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:

1943-1944
Maximum 14,000 second-feet, February 22.
Minimum no flow several days in October.
1936-1944
Maximum 22,700 second-feet, estimated, March 2, 1938.
Minimum no flow at various times. (For earlier years see Station F63-R.)

ACCURACY:

Fair.

OPERATION:

Located, constructed, and operated by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey, Water Resources Branch.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F263-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Beverly Boulevard NEAR

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.
377	10-15	1220P / 1230P	Brewster	8.0	1.52	0.79	4.42	1.2		.6	4	0	FC12
378	10-22	1205P / 1225P	"	41.0	12.0	1.07	4.57	12.8		.6	6	0	"
379	10-29	1142A / 1156A	"	22.0	5.82	1.34	4.51	7.8		.6	4	0	"
380	11-5	1201P / 1213P	"	18.0	7.20	1.53	4.52	11.0		.6	5	+.01	"
381	11-12	1147A / 1159A	"	21.0	5.71	0.96	4.56	5.5		.6	6	-.01	"
382	11-19	1203P / 1214P	"	22.0	7.52	1.36	4.56	10.2		.6	6	0	"
383	11-26	1204P / 1225P	"	24.0'	8.38	1.43	4.63	12.0		.6	7	0	"
384	12-3	1125A / 1140A	"	18.0	6.34	1.34	4.61	8.5		.6	5	0	"
385	12-10	1005A / 1030A	"	Two Channels			4.71	34.5		.6	11	0	"
386	12-17	1105A / 1135A	Brewster	"	"		4.70	61.1		.6	12	0	FC12
387	12-24	1145A / 1210P	"	"	"		4.65	69.4		.6	12	0	"
388	12-31	1205P / 1230P	"	"	"		4.69	75.6		.6	12	0	"
389	1-7	1130A / 1158A	"	"	"		4.57	79.2		.6	13	0	"
390	1-14	1125A / 1150A	"	"	"		4.55	80.2		.6	12	0	"
391	1-21	100P / 125P	Haig	"	"		4.45	77.1		.6	17	0	"
392	1-28	1253P / 125P	Green & Haig	89.0	51.2	1.64	4.48	84.3		.6	22	0	FC35
393	2-4	1144A / 1215P	" "	78.0	46.8	1.90	4.45	88.9		.6	25	0	"
394	2-10	309P / 345P	Green	79.0	42.7	1.68	4.38	71.9		.6	25	-.01	FC42
395	2-18	1128A / 1156A	Brewster	Two Channels			4.30	80.9		.6	10	0	FC12
396	2-22	815A / 910A	Green & Smith	"	"		5.15	1280.		.6	14	+.20	FC42
397	2-22	1243P / 150P	Haig & Kasimoff	355.0	1185.	9.28	8.35	11000.		.6 .2	16	+.40	FC35
398	2-23	1136A / 1220P	"	208.0	438.	7.63	5.67	3340.		.6	17	-.02	"
399	2-24	206P / 310P	"	220.0	295.6	5.10	5.37	1510.		.6	18	-.02	"
400	3-2	120A / 155A	Mellon & Kasimoff	207.0	175.0	5.35	4.80	937.		.6	12	+.02	FC28
401	3-4	945A / 1105A	Green	219.	361.	4.21	5.16	1520.		.6	24	+.01	FC42
402	3-10	100P / 140P	Brewster & Green	Two Channels			4.54	207.		.6	18	0	FC12
403	3-13	1140A / 1205P	Brewster & Bonadiman	"	"		4.46	156.		.6	18	0	"
404	3-17	110P / 150P	Brewster	221.	290.	5.79	5.50	1680.		.6	11	+.04	"
405	3-24	1120A / 1145A	"	Two Channels			4.55	109.		.6	14	0	"
406	3-31	1130A / 1157A	"	"	"		4.60	107.		.6	11	0	"
407	4-3	138P / 215P	Lindsay & Haig	223.	330.	5.06	5.66	1670.		.6	19	+.02	FC35
408	4-7	1202P / 1230P	Brewster	76.0	54.2	2.08	4.46	113.		.6	9	0	FC12
409	4-14	1140A / 1158A	"	92.0	47.0	1.93	4.46	90.6		.6	11	0	"
410	4-21	1211P / 1235P	"	88.0	40.1	1.78	4.53	71.6		.6	10	0	"
411	4-28	1213P / 1233P	"	86.0	41.3	1.86	4.60	76.9		.6	9	0	"
412	5-5	1115A / 1140A	"	96.0	39.2	1.67	4.57	65.6		.6	10	0	"
413	5-12	1045A / 1105A	Wood & Brewster	79.0	37.6	1.30	4.58	48.7		.6	9	0	"
414	5-15	1018A / 1040A	Brewster	79.0	41.8	1.78	4.70	74.2		.6	9	+.01	"
415	5-19	1230P / 1250P	"	89.0	58.7	1.93	4.77	113.		.6	10	0	"
416	5-26	1202P / 1223P	"	88.0	50.6	2.15	4.75	109.		.6	10	0	"
417	6-2	1230P / 1250P	"	28.0	11.9	1.76	4.29	20.9		.6	7	0	"
418	6-8	1141A / 1159A	Bonadiman & Brewster	35.0	28.0	1.88	4.43	52.6		.6	9	0	"
419	6-15	1138A / 1157A	Bonadiman	36.0	28.7	2.07	4.53	59.3		.6	11	0	FC19
420	6-22	1205P / 1223P	"	37.0	33.9	1.99	4.50	67.3		.6	14	0	"
421	6-29	1245P / 105P	Brewster	88.0	36.8	1.77	4.46	65.2		.6	10	0	FC12
422	7-6	1215P / 1230P	"	34.0	13.2	1.23	4.14	16.2		.6	5	0	"
423	7-13	1204P / 1220P	Brewster	41.0	14.2	1.11	4.17	15.8		.6	5	0	FC12
424	7-20	1203P / 1216P	"	39.0	14.1	1.42	4.14	20.0		.6	6	0	"
425	7-27	1130A / 1145A	"	52.0	15.3	1.14	4.12	17.4		.6	6	0	FC12
426	8-3	1131A / 1146A	"	38.0	12.6	1.22	4.09	15.4		.6	4	0	"
427	8-10	1050A / 1102A	"	32.0	9.20	1.12	4.00	10.3		.6	5	0	"
428	8-17	1125A / 1137A	"	38.0	10.9	1.07	3.96	11.6		.6	6	0	"
429	8-24	1054A / 1110A	"	34.0	9.58	1.02	3.86	9.8		.6	6	0	"
430	8-31	1145A / 1158A	"	24.0	8.96	1.00	3.85	9.0		.6	5	0	"
431	9-7	1050A / 1104A	"	26.0	9.20	1.07	3.85	9.8		.6	5	0	"
432	9-14	1105A / 1117A	"	21.0	7.95	1.48	3.90	11.8		.6	6	0	"
433	9-21	1055A / 1110A	"	22.0	8.28	1.17	3.85	9.7		.6	6	0	"
434	9-28	1117A / 1130A	"	24.0	8.40	1.33	3.83	11.2		.6	6	0	"

F. C. Dist. Form 57 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

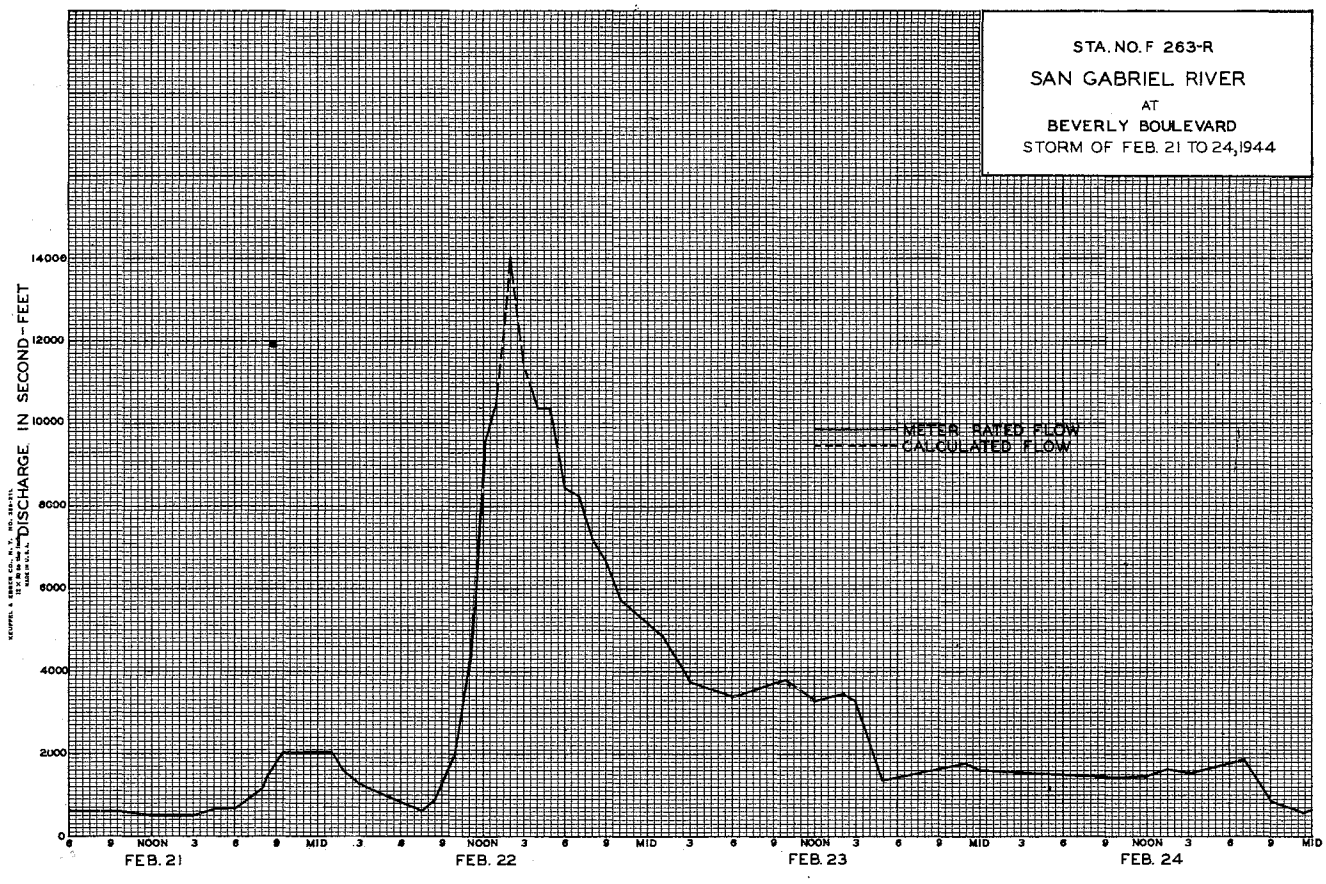
Sta. No. F263-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Beverly Boulevard, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	11	9	58	84	653	449	70	21	36	17	8.5
2	0	11	9	62	80	1630	1560	62	21	28	15	9.5
3	0	10	8	62	78	1880	1650	70	21	26	15	10
4	0	12	9	62	88	1380	1650	70	23	23	17	12
5	0.1	12	12	68	78	1100	1780	62	22	21	15	9.5
6	+	10	16	84	75	1500	1500	60	22	18	14	9.5
7	0	8	20	78	72	710	112	68	30	20	13	8.5
8	0	6.5	22	75	75	300	108	70	46	24	12	8
9	0	7	27	78	78	280	138	70	26	30	13	9.5
10	0.3	6.5	38	75	72	212	138	46	60	32	10	9.5
11	0.3	6.5	46	75	72	168	112	46	96	23	12	8.5
12	0	5.5	54	78	75	156	100	48	96	18	10	7.5
13	0	5.5	50	75	78	156	96	50	84	17	12	9
14	0	7.5	52	78	78	138	96	58	65	17	11	11
15	0.9	7.5	52	80	80	1340	88	70	54	17	12	11
16	1.1	7.5	54	84	75	1560	96	78	55	19	11	10
17	2.4	8.5	58	88	78	1680	88	72	55	17	12	14
18	5	10	65	75	80	228	84	126	54	17	9.5	14
19	6.5	10	108	78	84	126	92	112	50	19	9	9.5
20	8	10	92	80	376	162	80	104	49	20	9	9.5
21	10	10	116	75	846	144	70	112	62	20	9	9
22	12	11	78	72	5350	126	62	116	68	18	9.5	8
23	12	11	72	80	2980	116	68	116	62	19	9.5	8
24	12	11	70	75	1440	112	75	112	60	18	16	9.5
25	12	11	65	80	626	126	54	108	62	18	24	9
26	11	12	58	84	704	126	50	104	70	18	18	9.5
27	11	10	54	80	600	108	108	100	68	18	15	10
28	9.5	10	55	84	641	112	80	104	62	23	12	11
29	7.5	9.5	72	80	312	108	68	100	62	21	9.5	11
30	10	9.5	68	80		112	70	100	55	17	7.5	11
31	11		72	80		108		43		17	8	
	142.6	277.5	1581	2363	15355	16657	10722	2527	1581	649	386.5	294.5
MEAN	4.60	9.25	51.0	76.2	524.	537.	357.	81.5	52.7	20.9	12.5	9.82
ACRE-FEET	283.	550.	3,140.	4,690.	30460.	33040.	21,270.	5010.	3140.	1290.	767.	584.

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

YEAR OR PERIOD — MEAN 144. — ACRE-FEET 104,200.



STATION F262-R

SAN GABRIEL RIVER at Florence Avenue

LOCATION:

Water-stage recorder, lat. 33°56'20", long. 118°06'00", on the downstream side of the Florence Avenue (formerly Easy Street) bridge about 2 miles east of Downey. Elevation of zero gage height, 111.00 feet.

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 Florence Avenue 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, 1943 to September 30, 1944.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2, Morris Dam, Big Dalton, San Dimas Dam, Puddingstone Diversion Dam, Puddingstone Dam, Live Oak Dam, and Thompson Creek Dam. There are no gates in Santa Fe Dam.

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, 1944. Recorder record lost from August 19, 1938 to November 23, 1938 due to theft of recorder. For earlier records see Station F237-R, San Gabriel River at Telegraph Road.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 15,960 second-feet, February 22.
Minimum no flow at various times.
1937-1944
Maximum not determined.
Maximum discharge of record, 15,960 second-feet, February 22, 1944.
Minimum no flow at various times.

ACCURACY:

Fair. Occasionally 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 3M 7-44

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, 19 44

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.	D. HT. CHANGE TOTAL	METER NO.
293	12-21	900A / 905A	Bonadiman & Keith	Two Channels			3.58	126.		.6	17	-.03	FC19
294	12-22	1030A / 1040A	Bonadiman	28.0	11.4	1.10		12.6		.6	5		"
295	12-29	157P / 210P	Bonadiman & Keith	78.0	48.3	1.57	3.52	75.9		.6	9	0	"
296	12-30	348P / 400P	Bonadiman	28.0	19.2	1.73	3.50	33.2		.6	5	0	"
297	12-31	352P / 404P	"	40.0	21.4	1.78	3.55	38.2		.6	8	0	"
298	1-7	437P / 450P	"	Two Channels			3.52	11.6		.6	8	0	"
299	1-14	252P / 305P	"	24.0	11.2	1.15	3.52	12.9		.6	6	0	"
300	1-21	302P / 314P	"	44.0	19.5	0.60	3.45	11.7		.6	7	0	"
301	1-28	314P / 330P	"	Two Channels			3.48	16.0		.6	11	0	"
302	2-4	332P / 350P	"	"	"		3.53	34.0		.6	11	0	"
303	2-11	402P / 415P	"	33.0	22.4	1.14	3.54	25.0		.6	8	0	"
304	2-18	322P / 336P	"	Two Channels			3.43	19.1		.6	8	0	"
305	2-21	940A / 955A	Bonadiman & Keith	"	"		3.88	276.		.6	16	+.01	"
306	2-23	422P / 455P	"	"	"		4.72	2460.		.6	17	-.25	"
307	2-24	902A / 925A	Bonadiman	256.	332.	4.85	4.46	1610.		.6	17	-.02	"
308	2-26	840A / 906A	"	252.	228.	3.21	3.81	731.		.6	16	+.02	"
309	3-2	1029A / 1047A	Bonadiman & Keith	249.	323.	5.36	4.29	1730.		.6	17	-.05	"
310	3-3	853A / 914A	Bonadiman	261.	282.	4.79	4.29	1350.		.6	14	0	"
311	3-4	851A / 930A	"	261.	322.	4.60	4.27	1480.		.6	18	+.02	"
312	3-9	945A / 1012A	"	Two Channels			3.76	241.		.6	17	0	"
313	3-10	200P / 240P	"	"	"		3.72	185.		.6	25	0	"
314	3-13	1235P / 110P	Bonadiman & Brewster	"	"		3.67	110.		.6	21	0	FC12
315	3-17	921A / 950A	Bonadiman	261.	395.	4.58	4.40	1810.		.6	14	+.02	FC19
316	3-21	900A / 940A	"	Two Channels			3.50	99.0		.6	27	0	FC19
317	3-24	922A / 955A	"	"	"		3.48	86.5		.6	20	0	"
318	3-31	900A / 930A	"	Four Channels			3.39	65.4		.6	23	0	"
319	4-3	255P / 355P	Haig & Lindsey	284.6	329.	4.77	4.10	1570.		.6	26	-.13	FC35
320	4-7	932A / 1000A	Bonadiman	Two Channels			3.34	111.		.6	10	0	FC19
321	4-14	847A / 910A	"	67.0	38.1	1.53	3.23	58.4		.6	12	0	"
322	4-21	845A / 859A	"	61.0	32.0	1.40	3.19	44.9		.6	12	0	"
323	4-28	825A / 845A	"	80.0	47.6	1.27	3.20	60.3		.6	10	-.02	"
324	5-5	305P / 328P	Wood & Bonadiman	Two Channels			3.09	34.3		.6	15	0	"
325	5-12	853A / 918A	Bonadiman	"	"		3.10	24.6		.6	17	0	"
326	5-19	846A / 910A	"	106.	55.1	1.37	3.27	75.3		.6	19	0	"
327	5-26	910A / 938A	"	Two Channels			3.22	63.7		.6	16	0	"
328	6-2	844A / 900A	"	"	"		3.05	15.1		.6	11	0	"
329	6-14	835A / 853A	"	"	"		3.19	51.4		.6	14	0	"
330	6-21	847A / 904A	"	"	"		3.14	31.0		.6	14	0	"
331	6-29	916A / 928A	"	68.0	25.8	0.81	3.07	21.0		.6	10	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

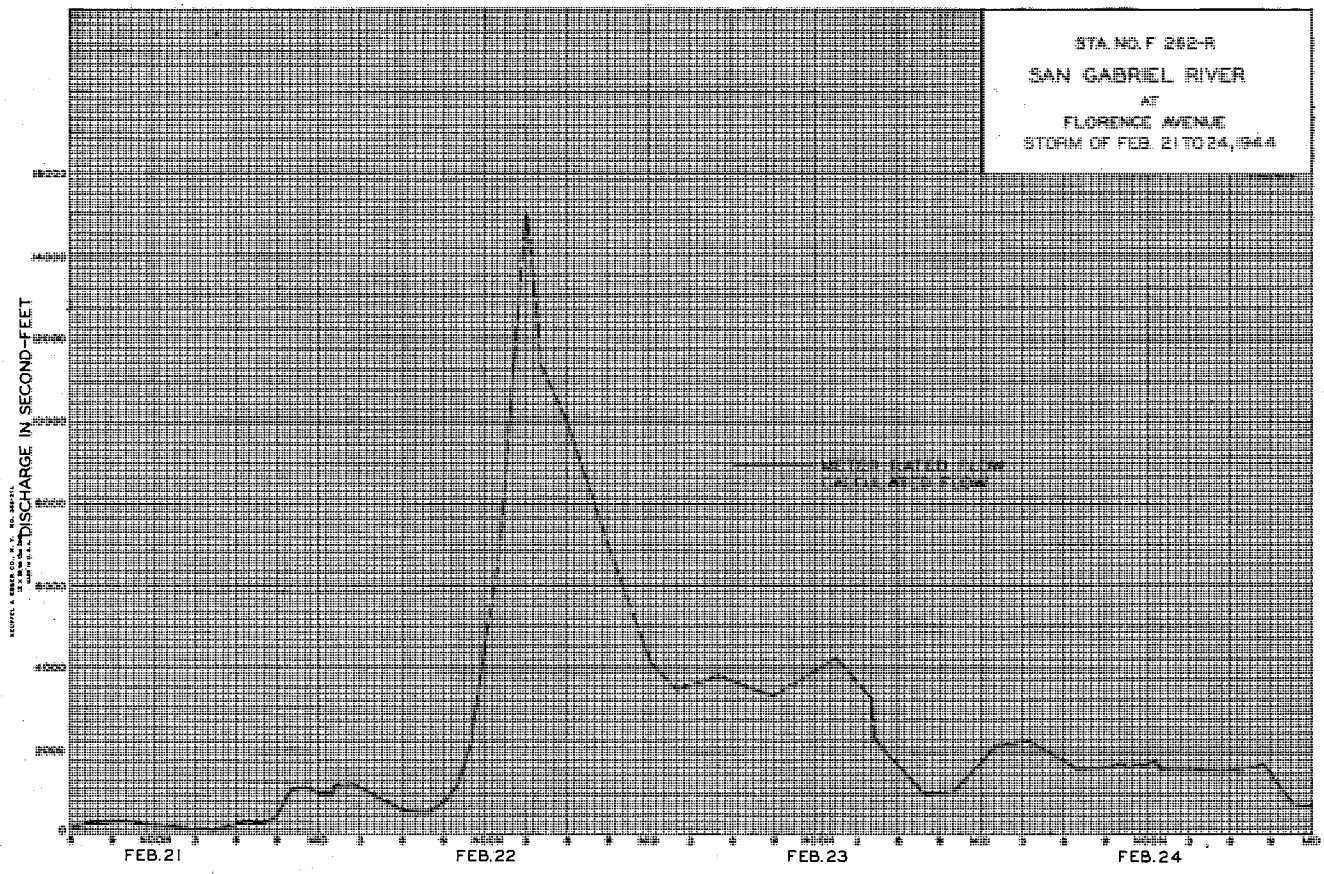
Sta. No. F262-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Florence Avenue, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	b 27	36	470	252	64	7	22	0	0
2	0	0	0	b 15	28	1380	1460	56	7	0.1	0	0
3	0	0	0	b 10	40	1410	1540	52	4.9	0	0	0
4	0	0	0	b 0	40	1250	1600	52	4.9	0	0	0
5	0	0	0	b 7	b 28	712	1740	48	1.4	0	0	0
6	0	0	0	b 11	b 20	1060	1470	40	b 1.4	0	0	0
7	0	0	0	b 12	b 22	652	141	56	b 0	0	0	0
8	0	0	0	7	24	346	149	52	b 1.4	0	0	0
9	0	0	0	7	44	281	107	44	b 1.1	16	0	0
10	0	0	0	4.9	40	173	119	28	b 2.5	40	0	0
11	0	0	0	2.2	24	119	94	22	64	12	0	0
12	0	0	0	2.2	36	88	88	20	56	0	0	0
13	0	0	0	7	40	119	76	18	48	0	0	0
14	0	0	0	11	40	119	52	20	28	0	0	0
15	0	0	0	13	60	1120	60	22	20	0	0	0
16	0	0	0	13	40	1520	70	40	13	0	0	0
17	0	0	0	11	44	1560	48	32	20	0	0	0
18	0	0	0	13	48	335	48	64	28	0	0	0
19	0	0	31	9	60	173	44	70	24	0	0	0
20	0	0	90	18	189	125	36	76	22	0	0	0
21	0	0	b126	16	297	101	24	101	32	0	0	0
22	0	0	b 13	16	4860	82	11	94	56	0	0	0
23	0	0	b 13	28	2970	82	16	82	36	0	0	0
24	0	0	b 12	40	1620	82	28	76	24	0	0	0
25	0	0	b 12	22	681	64	28	70	44	0	0	0
26	0	0	b 12	18	712	56	18	70	52	0	0	0
27	0	0	b 11	16	565	52	82	64	40	0	0	0
28	0	0	b 10	18	667	44	60	76	22	0	0	0
29	0	0	b 76	32	272	44	44	76	20	0	0	0
30	0	0	b 33	28		48	56	94	28	0	0	0
31	0		b 38	36		64		32		0	0	
	0	0	477	470.3	13547	13731	9561	1711	708.6	90.1	0	0
MEAN	0	0	15.4	15.2	467.	443.	319.	55.2	23.6	2.91	0	0
ACRE-FEET	0	0	946.	933.	26870.	27240.	18960.	3390.	1410.	179.	0	0

Remarks:

YEAR OR PERIOD — MEAN 110. — ACRE-FEET 79930.



STATION F42-R

SAN GABRIEL RIVER at Spring Street, Long Beach

LOCATION:

Water-stage recorder, lat. 33°48'38", long. 118°05'25", on downstream side of Spring Street bridge about 4 miles east of Signal Hill, near Long Beach. This station is near the location of the station operated in 1924 by the State Division of Water Rights. Elevation of zero gage height, 16.67 feet.

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 Spring Street bridge.

RECORDER:

Installed February 6, 1928 over a 21 inch diameter corrugated iron pipe stilling well.
An Au continuous recorder in service October 1, 1943 to September 30, 1944.

REGULATION:

Flow partially regulated by San Gabriel Dams No. 1 and No. 2, Morris Dam, Big Dalton Dam, San Dimas Dam, Puddingstone Diversion Dam, Puddingstone Dam, Live Oak Dam, and Thompson Creek Dam. There are no gates in Santa Fe Dam.

DIVERSION:

There are several diversions for irrigation, power development and spreading.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 15,000 second-feet, February 22.
Minimum no flow most of year.
1927-1944
Maximum 27,000 second-feet, estimated, March 2, 1938.
Minimum no flow most of each year.

RECORDS AVAILABLE:

February 6, 1928 to September 30, 1944. (For periods prior to February, 1928 see State Division of Water Rights Bulletins.)

ACCURACY:

Fair. Clock stopped or communication was obstructed and mean daily flows were estimated for several days.

OPERATION:

Operated by the Los Angeles County Flood Control District. Located by the State Division of Water Rights.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F42-R

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT Spring Street, Long Beach 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	MEAN SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
246	1-7	302P / 315P	Bonadiman	19.0	7.95	1.56	4.72	12.4		.6	5	0	FC19
247	1-21	202P / 210P	"	9.0	2.16	1.02	3.73	2.2		.6	3	0	"
248	1-28	202P / 212P	"	11.0	4.10	2.44	4.11	10.0		.6	5	0	"
249	2-4	232P / 241P	"	19.0	9.75	2.39	4.37	23.3		.6	6	0	"
250	2-11	317P / 328P	"	20.0	7.95	1.58	4.45	12.6		.6	7	0	"
251	2-18	200P / 210P	"	21.0	10.4	1.79	4.60	18.6		.6	6	0	"
252	2-20	1100A / 1109A	Bonadiman & Keith	57.0	37.2	3.12	4.83	116.		.6	5	0	"
253	2-21	1059A / 1109A	"	93.0	78.7	3.80	5.77	299.		.6	8	0	"
254	2-22	131P / 140P	"	120.	852.	10.8	11.10	9210.	Float		7	+.20	
255	2-22	330P / 345P	Bonadiman	203.	Est. 1162.	12.9	13.00	14320.	Floats		9	0	
256	2-23	203P / 225P	Bonadiman & Keith	122.	479.	7.27	9.50	3480.		.6	11	+.06	FC19
257	2-24	1055A / 1108A	Bonadiman	108.	331.	4.50	8.51	1490.		.6	8	0	"
258	2-25	102P / 115P	"	107.	263.	2.14	7.79	564.		.6	9	0	"
259	2-26	950A / 1012A	"	109.	212.	2.98	7.82	632.		.6	10	0	"
260	3-2	829A / 848A	Bonadiman & Keith	119.	366.	4.56	8.65	1670.		.6	12	+.10	"
261	3-3	1006A / 1026A	Bonadiman	109.	268.	4.48	8.30	1200.		.6	12	0	"
262	3-4	1012A / 1030A	"	105.	259.	4.71	8.24	1220.		.6	11	-.04	"
263	3-9	1130A / 1150A	"	110.	135.	1.87	7.48	253.		.6	10	0	"
264	3-10	417P / 444P	"	97.0	97.2	1.35	7.22	131.		.6	16	0	"
265	3-13	310P / 329P	Bonadiman & Brewster	112.	103.	1.28	7.13	132.		.6	11	0	"
266	3-17	217P / 247P	Bonadiman	112.	341.	4.73	8.55	1470.		.6	12	0	"
267	3-21	1132A / 1150A	"	50.0	51.0	1.61	7.02	82.1		.6	14	0	"
268	3-24	322P / 337P	Bonadiman	60.0	55.2	1.34	7.05	74.2		.6	12	0	FC19
269	3-31	214P / 230P	"	55.0	40.4	1.23	6.97	49.6		.6	10	0	"
270	4-3	438P / 500P	Lindsey & Haig	110.	294.	5.24	8.74	1540.		.6	10	0	FC35
271	4-7	302P / 322P	Bonadiman	78.0	121.	1.07	7.28	130.		.6	11	0	FC19
272	4-14	212P / 224P	"	44.0	39.0	1.46	6.99	57.1		.6	8	0	"
273	4-21	232P / 245P	"	51.0	35.6	0.92	6.91	32.8		.6	10	0	"
274	4-28	214P / 230P	"	Two Channels			7.07	73.5		.6	11	0	"
275	5-5	212P / 225P	Wood & Bonadiman	32.0	27.1	1.54	7.00	41.6		.6	8	0	"
276	5-12	302P / 312P	Bonadiman	18.0	18.0	1.09	6.84	19.7		.6	6	0	"
277	5-19	236P / 300P	"	57.0	52.5	1.36	7.13	71.5		.6	11	0	"
278	5-26	250P / 313P	"	55.0	48.2	1.25	7.16	60.1		.6	15	-.02	"
279	6-2	252P / 302P	"	26.0	10.8	0.97	6.69	10.5		.6	7	+.02	"
280	6-14	255P / 316P	"	Two Channels			7.03	44.9		.6	13	0	"
281	6-21	205P / 215P	"	22.0	14.4	0.87	6.71	12.5		.6	6	0	"
282	6-29	248P / 258P	"	26.0	17.5	1.07	6.80	18.8		.6	7	0	"

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

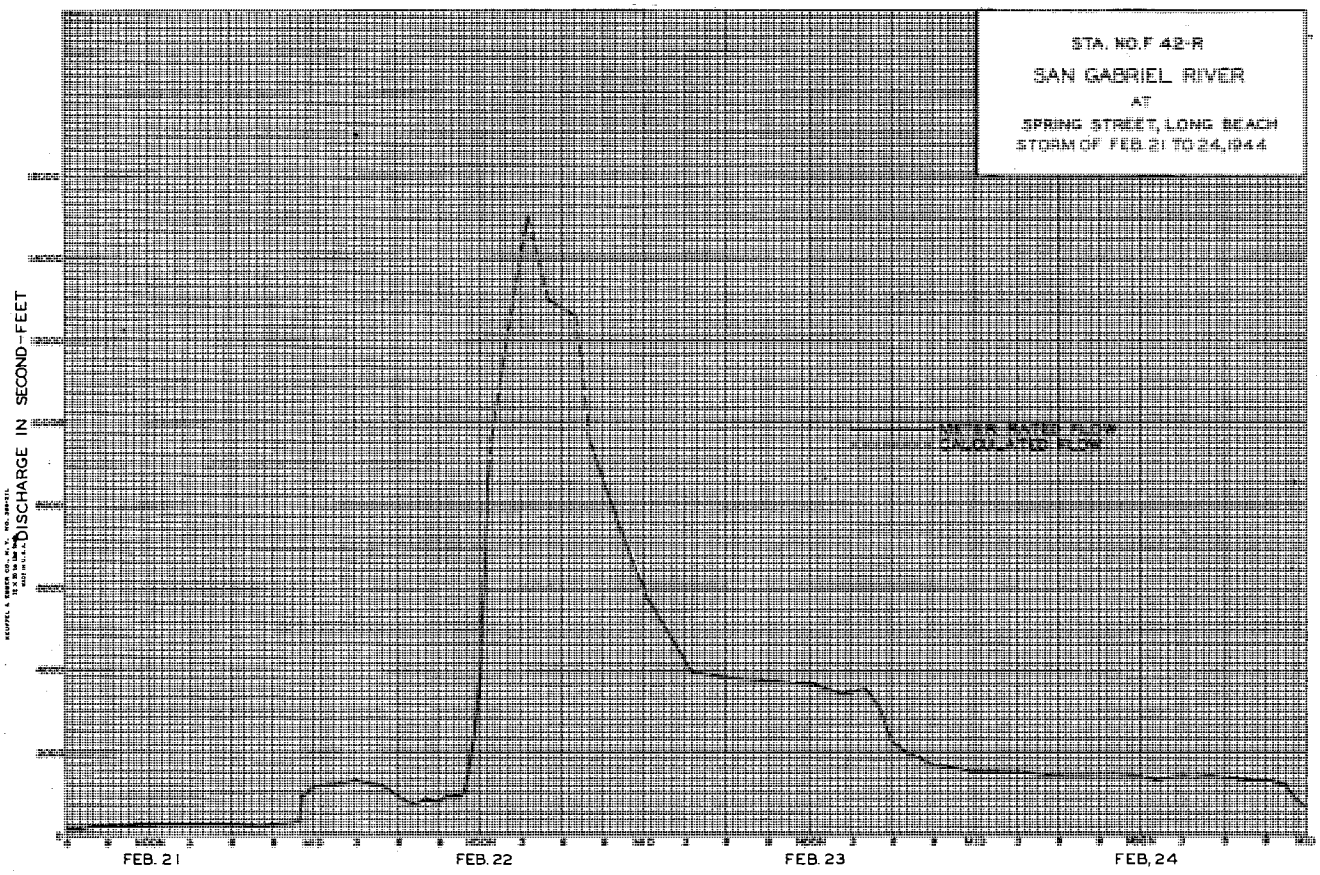
Sta. No. F42-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Spring Street, Long Beach, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	12	18	184	152	52	10	10	0	0
2	0	0	0	5.5	15	1160	1470	40	3.0	0	0	0
3	0	0	0	6.5	15	1180	1420	38	b 2.0	0	0	0
4	0	0	0	4.2	21	1230	1470	33	b 1.0	0	0	0
5	0	0	0	3.2	16	651	1540	31	b +	0	0	0
6	0	0	0	7.5	12	1050	1540	25	0	0	0	0
7	0	0	0	12	12	500	172	29	0	0	0	0
8	0	0	0	9	19	241	70	42	0	0	0	0
9	0	0	0	9.5	21	227	58	40	0	0	0	0
10	0	0	0	10	a 9	166	58	24	0	0	0	0
11	0	0	0	9	13	80	46	17	18	0	0	0
12	0	0	0	8.5	12	52	44	10	46	0	0	0
13	0	0	0	6	11	133	44	4.4	38	0	0	0
14	0	0	0	10	11	166	49	8	29	0	0	0
15	0	0	0	b 1.2	13	993	44	11	9.5	0	0	0
16	0	0	0	b 1.3	16	a1290	42	33	8	0	0	0
17	0	0	0	b 1.5	12	a1450	46	29	7.5	0	0	0
18	0	0	0	b 1.7	13	449	42	36	13	0	0	0
19	0	0	0	b 1.8	35	99	36	61	16	0	0	0
20	0	0	0	b 2.0	117	88	36	67	9.5	0	0	0
21	0	0	0	2.2	284	a 82	22	84	16	0	0	0
22	0	0	0	3.4	5570	a 79	11	92	52	0	0	0
23	0	0	0	4.6	3340	a 77	10	80	29	0	0	0
24	0	0	0	7	1400	a 74	13	67	17	0	0	0
25	0	0	0	10	593	a 64	17	67	27	0	0	0
26	0	0	0	11	682	55	7.5	55	49	0	0	0
27	0	0	0	12	b 520	52	40	49	40	0	0	0
28	0	0	0	11	615	44	70	49	18	0	0	0
29	0	0	0	12	f 160	42	42	67	11	0	0	0
30	0	0	0	12		42	40	80	9.5	0	0	0
31	0		30	19		44		70		0	0	
	0	0	30	217.6	13575	12044	8651.5	1390.4	479.0	10	0	0
MEAN	0	0	1.0	7.02	468.	386.	288.	44.9	16.0	0.32	0	0
ACRE-FEET	0	0	60.	432.	26930.	23890.	17,160.	2760.	950.	20.	0	0

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

YEAR OR PERIOD MEAN 99.4
ACRE-FEET 72200.



STATION F48-R

SAN JOSE CREEK at Workman Mill Road

LOCATION:

Water-stage recorder, lat. 34°01'24", long. 118°02'05", on the downstream side of Workman Mill Road bridge, about 3 miles north of Whittier. This Station is near the location of the station operated from 1923 to 1929 by the State Division of Water Rights. Elevation of gage, about 230 feet (from topographic map).

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, 1943 to September 30, 1944.

REGULATION:

Flow partially regulated by Thompson Creek Dam.

DIVERSIONS:

Small diversion for spreading. (See Station F276-R).

RECORDS AVAILABLE:

January 2, 1929 to September 30, 1944. (For records prior to January 2, 1929 see State Division of Water Rights Bulletins.)

EXTREMES OF DISCHARGE:

1943-1944
Maximum 6,000 second-feet, February 22.
Minimum 1.2 second-feet, August 7.
1928-1944
Maximum 13,100 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 United States Geological Survey, Water Resources Branch.

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

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, 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.
537	10-1	130P / 140P	Brewster	8.0	2.36	1.02	0.80	2.4		.6	4	0	FC12
538	10-8	130P / 140P	"	8.0	2.80	1.11	0.85	3.1		.6	4	0	"
539	10-15	150P / 202P	"	8.0	3.08	0.97	0.87	3.0		.6	4	0	"
540	10-22	130P / 142P	"	8.0	2.56	0.94	0.88	2.4		.6	4	0	"
541	10-29	120P / 130P	"	8.0	2.92	1.06	0.91	3.1		.6	4	0	"
542	11-5	130P / 141P	Brewster	8.0	3.12	1.03	0.86	3.2		.6	4	0	FC 12
543	11-12	118P / 130P	"	8.0	2.88	0.97	0.86	2.8		.6	4	0	"
544	11-19	115P / 126P	"	8.0	3.20	0.81	0.86	2.6		.6	4	0	"
545	11-26	140P / 149P	"	8.0	2.88	0.83	0.87	2.4		.6	4	0	"
546	12-3	1250P / 100P	"	8.0	3.20	0.97	0.92	3.1		.6	4	0	"
547	12-10	1122A / 1133A	"	8.0	4.40	1.09	1.04	4.8		.6	4	+.01	"
548	12-17	1225P / 1235P	"	8.0	3.12	1.38	0.88	4.3		.6	4	0	"
549	12-24	118P / 130P	"	12.0	5.60	1.30	0.82	7.3		.6	6	0	"
550	12-31	151P / 200P	"	17.0	9.65	1.34	0.98	12.9		.6	5	-.01	"
551	1-7	1258P / 110P	"	18.0	7.52	1.24	0.84	9.3		.6	5	0	"
552	1-14	1250P / 100P	"	20.0	8.08	1.16	0.82	9.4		.6	5	0	"
553	1-21	225P / 233P	Haig	16.0	7.21	1.11	0.81	8.0		.6	9	0	FC35
554	1-28	300P / 311P	Green & Haig	18.0	6.75	1.32	0.83	8.9		.6	10	0	"
555	2-4	205P / 223P	" "	19.5	11.2	1.75	1.02	19.6		.6	12	0	"
556	2-10	453P / 502P	Green	11.0	6.57	1.22	0.82	8.0		.6	7	0	FC42
557	2-18	1255P / 110P	Brewster	20.0	7.42	1.20	0.87	8.9		.6	6	0	FC12
558	2-20	842A / 850A	Haig & Kasimoff	15.5	12.5	2.14	1.10	26.8		.6	6	0	FC35
559	2-21	140P / 155P	Brewster	48.0	45.9	2.42	1.95	111.		.6	7	+.22	FC12
560	2-22	612A / 650A	Green	40.0	54.0	3.73	2.82	239.		.6	7	-.04	FC42
561	2-22	503P / 527P	Haig & Kasimoff	112.0	480.	7.93	6.62	3810.		.6	11	-.16	FC35
562	2-23	205P / 226P	"	52.0	37.7	2.21	1.62	83.4		.6	13	-.01	"
563	2-24	1035A / 1050A	Brewster & Smith	32.0	19.7	2.21	1.36	43.5		.6	6	0	FC12
564	3-2	244A / 300A	Mellen & Kasimoff	61.0	73.2	2.80	2.30	205.0		.6	9	+.01	FC26
565	3-3	1240P / 100P	Brewster	32.0	16.4	2.18	1.45	35.8		.6	8	0	FC12
566	3-10	255P / 310P	Brewster & Green	22.0	9.90	1.59	1.30	15.7		.6	6	0	"
567	3-17	235P / 250P	Brewster	26.0	9.10	1.37	1.17	12.5		.6	7	0	"
568	3-24	1255P / 110P	"	24.0	10.4	1.38	1.11	14.4		.6	7	0	"
569	3-31	1245P / 100P	"	22.0	9.3	1.39	1.10	12.9		.6	6	0	"
570	4-7	115P / 127P	"	21.0	10.2	1.37	1.11	14.0		.6	6	0	"
571	4-14	1255P / 107P	"	24.0	9.60	1.17	1.12	11.2		.6	6	0	"
572	4-21	150P / 200P	"	15.0	8.15	1.48	1.10	12.1		.6	5	0	"
573	4-28	200P / 215P	"	21.0	9.25	1.31	1.03	12.1		.6	6	0	"
574	5-5	1250P / 105P	"	16.0	8.10	1.44	1.06	11.7		.6	5	0	"
575	5-12	1240P / 100P	Wood & Brewster	22.0	7.88	1.22	1.07	9.6		.6	6	0	"
576	5-19	215P / 230P	Brewster	17.0	7.40	1.03	1.04	7.6		.6	5	0	"
577	5-26	135P / 150P	"	18.0	7.90	1.08	1.07	8.5		.6	5	0	"
578	6-2	200P / 210P	"	16.0	7.20	0.78	0.98	5.6		.6	4	0	"
579	6-8	135P / 145P	Brewster & Bonadiman	11.0	5.55	1.12	1.02	6.2		.6	6	0	"
580	6-15	125P / 132P	Bonadiman	10.0	4.70	1.00	1.10	4.7		.6	4	0	FC19
581	6-22	201P / 209P	"	12.0	5.77	0.81	1.19	4.7		.6	5	0	"
582	6-29	234P / 245P	Brewster	10.0	5.00	0.80	1.20	4.0		.6	5	0	FC12
583	7-6	205P / 220P	"	10.0	4.60	1.07	1.22	4.9		.6	5	0	"
584	7-13	135P / 150P	"	11.0	3.63	1.18	1.23	4.3		.6	6	0	"
585	7-27	150P / 200P	Brewster	8.0	3.40	0.94	1.17	3.2		.6	4	0	FC12
586	8-10	100P / 110P	"	10.0	4.00	0.80	1.10	3.2		.6	5	0	"
587	8-24	130P / 140P	"	8.0	2.80	0.89	1.00	2.5		.6	4	0	"
588	9-7	120P / 130P	"	8.0	3.20	0.94	1.01	3.0		.6	4	0	"
589	9-21	100P / 110P	"	9.0	3.00	0.83	0.96	2.5		.6	4	0	"

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

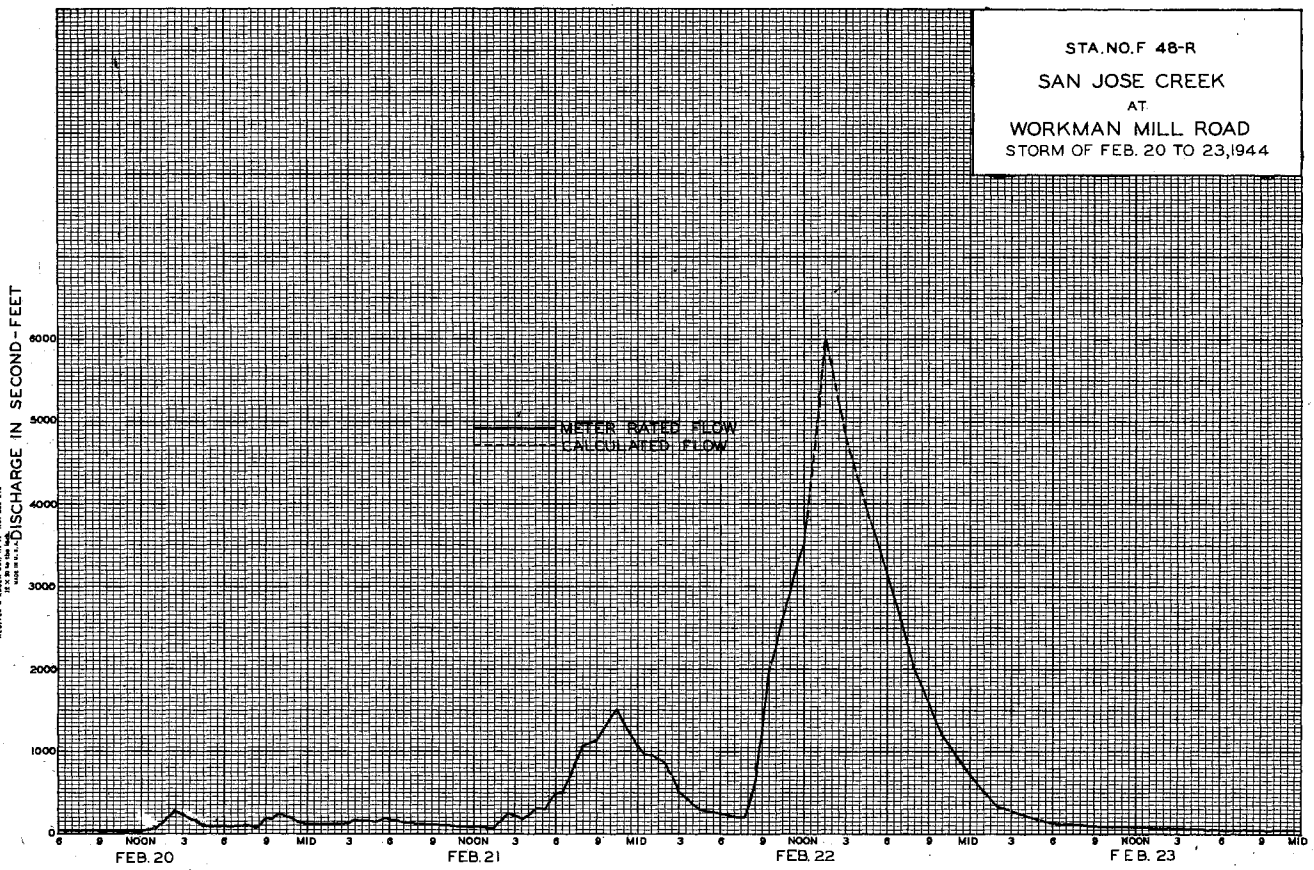
Sta. No. F48-R

Daily discharge, in second-feet of SAN JOSE CREEK at Workman Mill Road, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	2.2	3.1	8.5	10	116	13	12	6	4.0	3.5	4.2
2	2.4	2.7	3.1	8.5	11	296	13	12	6	4.0	3.5	4.0
3	2.4	2.9	3.1	8.5	11	b 37	13	12	6.5	4.0	2.2	3.3
4	2.0	2.7	3.1	8.5	15	43	14	12	6	4.5	2.2	2.9
5	2.4	2.9	3.1	9.5	11	135	13	12	6	5	2.2	4.0
6	2.4	2.9	3.8	13	10	26	14	12	9.5	5	2.9	3.5
7	2.4	2.7	3.5	9.5	9.5	19	14	11	8	5	1.4	3.5
8	3.1	2.4	3.8	8.5	10	18	14	11	5.5	4.7	2.4	3.5
9	3.1	2.2	3.8	9.5	11	17	13	12	5	4.5	2.4	3.8
10	2.9	2.7	10	9.5	8.5	16	12	11	4.7	4.5	2.2	4.5
11	3.1	3.1	23	9	8.5	16	12	10	6.5	3.3	2.4	4.0
12	2.9	2.9	13	9	8.5	16	12	9.5	6.5	3.5	2.7	5
13	2.9	3.1	7	9.5	8.5	16	11	9.5	6	3.3	3.3	6
14	2.7	3.3	6	9	8.5	15	11	8.5	5	4.0	2.2	6
15	3.5	3.3	6	9.5	12	14	11	8.5	4.7	3.3	3.1	5.5
16	3.5	2.9	6	9	9.5	14	11	8	4.7	3.1	2.9	4.5
17	3.1	2.9	4.2	8.5	8.5	13	11	8	4.2	3.3	3.3	5
18	3.1	2.7	7	8.5	8.5	13	12	8	4.0	3.8	2.7	4.2
19	3.1	2.7	4.1	8.5	8.5	12	13	7.5	3.8	3.5	2.9	4.5
20	2.9	2.9	2.9	8.5	8.1	12	12	7	5.5	4.5	2.9	4.2
21	2.7	2.4	3.7	8.5	388	13	12	7	4.7	4.7	2.9	2.7
22	2.4	2.2	16	8	2090	13	12	7	4.7	4.2	3.1	2.9
23	2.4	2.7	11	8.5	b 140	14	12	6	5	4.5	3.3	2.9
24	2.7	b 8	9		39	15	12	6	5	4.2	2.9	3.1
25	1.8	2.4	7	9.5	24	15	12	6.5	5	5	2.2	3.3
26	2.2	2.4	6.5	9.5	52	14	13	7	6	4.2	2.9	3.1
27	2.9	2.4	6.5	9.5	26	14	26	6	4.2	3.3	2.4	3.1
28	2.9	2.4	7.5	9.5	18	13	b 15	6.5	4.2	2.4	2.0	2.9
29	2.9	2.7	23	9.5	16	13	12	5	3.8	2.4	3.3	2.9
30	2.7	2.9	20	9.5		13	12	4.7	4.2	2.9	3.5	2.9
31	2.4		21	10		13		5		2.2	3.5	
	84.3	81.3	346.1	283.5	3062.0	1014	387	268.2	160.9	120.8	85.3	115.9
Mean	2.72	2.71	11.2	9.15	106.	32.7	12.9	8.65	5.36	3.90	2.75	3.86
Acre-Feet	167.	161.	686.	562.	6,070.	2,010.	768.	532.	319.	240.	169.	230.

Remarks:

Year or Period — Mean 16.4 — Acre-Feet 11,910.



STATION U4-R

SANTA ANITA CREEK above Santa Anita Dam

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 1944.

AVERAGE DISCHARGE:

28 years, 6.60 second-feet.

EXTREMES:

1943-1944
Maximum discharge during year, 740 second-feet, Feb. 22 (gage height, 6.00 feet); minimum daily 1.3 second-feet, July 19,20.
1916-1944
Maximum discharge, about 5,200 second-feet, Mar. 2, 1938, based on inflow to Big Santa Anita Reservoir; practically no flow Aug. 18 to Sept. 14, 1929.

REMARKS:

Records good. No diversions above station.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U4-R

DISCHARGE MEASUREMENTS OF SANTA ANITA CREEK

at above Santa Anita Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
890	10-2		U.S.G.S.	4.3	3.5	.57	.52	2.0		.6	9	0	
891	10-25		"	4.5	3.7	.62	.55	2.3		.6	9	0	
892	11-5		"	4.5	3.7	.59	.53	2.2		.6	9	0	
893	11-18		"	4.8	4.0	.55	.55	2.2		.6	9	0	
894	11-26		"	4.5	3.6	.61	.53	2.2		.6	9	0	
895	12-4		"	4.5	3 6	.56	.52	2.0		.6	9	0	
896	12-13		"	8.0	6.6	.59	.64	3.9		.6	16	0	
897	12-21		"	17.	17.6	1.26	1.21	22.2		.6	17	-.01	
898	12-30		"	12.	9.4	.78	.77	7.3		.6	12	0	
899	1-5		"	10.	7.9	.68	.71	5.4		.6	20	0	
900	1-12		"	9.5	7.5	.61	.67	4.6		.6	19	0	
901	1-20		"	9.0	6.6	.50	.62	3.3		.6	18	0	
902	1-24		U.S.G.S.	9.2	7.2	.60	.67	4.3		.6	18	0	
903	2-4		"	9.5	8.9	.83	.77	7.4		.6	19	0	
904	2-10		"	10.	8.2	.82	.75	6.7		.6	19	0	
905	2-17		"	9.5	7.5	.64	.68	4.8		.6	19	0	
906	2-21		"	21.	21.1	1.50	1.40	31.6		.6 2-8	20	0	
907	2-24		"	20.6	32.5	1.94	1.90	63.		.6 2-8	21	-.01	
908	2-28		"	16.3	30.9	.91	1.37	28.2		.6 2-8	17	0	
909	3-2		"	25.	45.7	2.82	2.51	129.		.6	10	-.01	
910	3-4		"	23.4	35.4	1.89	1.88	67.		.6 2-8	20	0	
911	3-8		"	16.5	36.4	1.38	1.65	50.		.6 2-8	17	0	
912	3-18		U.S.G.S.	15.8	29.6	0.80	1.31	23.6		.6 2-8	15	0	
913	3-23		"	15.	15.3	1.16	1.18	17.8		.6	16	0	
914	3-29		U.S.G.S.	14.	13.0	1.08	1.09	14.1		.6	15	0	
915	4-5		"	14.	12.4	.90	1.02	11.2		.6	15	0	
916	4-12		"	13.	11.0	1.01	.95	11.1		.6	14	0	
917	4-19		"	12.	9.9	.95	.89	9.4		.6	13	0	
918	4-26		"	12.	9.3	.86	.86	8.0		.6	13	0	
919	5-3		"	11.	8.8	.80	.84	7.0		.6	12	0	
920	5-10		"	10.8	8.6	.70	.82	6.0		.6	17	0	
921	5-19		"	10.	7.6	.68	.79	5.2		.6	12	0	
922	5-24		"	9.5	7.6	.64	.77	4.9		.6	11	0	
923	5-31		"	10.	7.5	.71	.75	5.3		.6	11	0	
924	6-7		"	9.5	6.9	.65	.72	4.5		.6	11	0	
925	6-14		"	9.0	6.9	.69	.73	4.8		.6	12	0	
926	6-21		"	9.0	6.5	.63	.69	4.1		.6	14	0	
927	6-28		"	9.0	6.2	.58	.68	3.6		.6	11	0	
928	7-12		"	8.0	5.1	.41	.64	2.1		.6	12	0	
929	7-19		"	7.0	4.7	.30	.60	1.4		.6	14	0	
930	7-26		"	7.0	4.7	.45	.60	2.1		.6	14	0	
931	8-9		"	7.0	4.1	.61	.56	2.5		.6	14	0	
932	8-19		"	6.9	4.1	.56	.54	2.3		.6	14	0	
933	8-26		"	6.9	3.8	.53	.51	2.0		.6	14	0	
934	8-31		"	7.0	3.8	.53	.50	2.0		.6	14	0	
935	9-13		"	7.0	4.0	.50	.50	2.0		.6	14	0	
936	9-23		"	6.8	3.7	.46	.49	1.7		.6	12	0	

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U4-R

Daily discharge, in second-feet of SANTA ANITA CREEK above Santa Anita Dam, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	2.4	2.0	7	3.9	59	13	8	5.5	2.7	2.2	2.3
2	1.9	2.3	2.2	7	3.9	128	12	7.5	5.5	2.6	2.2	2.4
3	1.8	2.3	2.0	6.5	4.1	85	12	7	5	2.6	2.0	2.4
4	1.8	2.2	2.0	5.5	9	73	11	7	4.6	2.4	2.0	2.2
5	1.7	2.2	2.2	5.5	5.5	69	11	6.5	4.3	2.4	2.0	1.9
6	1.8	2.2	3.4	7	5	60	11	6.5	4.3	2.4	2.0	1.8
7	1.9	2.2	2.6	5.5	4.8	54	11	6.5	4.5	2.3	2.2	1.7
8	2.0	2.0	2.3	5	9.5	49	12	6.5	4.6	2.3	2.2	1.7
9	2.2	1.9	2.3	5	8.5	45	11	6	5	2.2	2.3	1.7
10	2.0	1.9	8.5	4.8	7	42	11	6	4.8	2.2	2.3	1.7
11	2.0	1.9	11	4.6	6	40	11	6	4.8	2.0	2.3	1.9
12	2.0	1.8	5	4.6	5.5	37	11	5.5	4.8	2.0	2.2	1.9
13	1.9	1.8	3.9	4.5	5	38	11	5.5	4.8	1.9	2.2	1.9
14	1.9	1.8	3.6	4.3	5	34	11	5.5	4.8	1.8	2.2	2.0
15	1.8	1.7	3.2	4.1	6	30	10	5	4.6	1.7	2.2	2.0
16	1.8	1.7	2.9	3.9	5	27	10	5	4.6	1.6	2.2	2.0
17	1.9	1.8	2.7	3.7	4.8	25	10	5	4.5	1.5	2.2	2.0
18	3.5	2.0	5.5	3.6	4.6	24	9.5	5	4.1	1.4	2.2	2.2
19	2.9	2.0	21	3.4	5.5	23	9.5	5	3.9	1.3	2.0	2.2
20	2.6	2.2	25	3.4	33	21	9.5	4.8	3.9	1.3	1.9	2.0
21	2.6	2.3	33	3.4	53	20	9	5	3.9	1.4	1.9	1.9
22	2.6	2.3	12	3.2	454	19	8.5	5	3.9	1.6	1.9	1.9
23	2.4	2.2	8	3.6	115	18	8.5	5	3.7	1.6	1.9	1.5
24	2.3	2.2	7	4.6	63	18	8.5	4.8	3.7	1.8	1.9	1.4
25	2.2	2.2	6	3.6	45	17	8	4.8	3.7	1.9	1.9	1.4
26	2.2	2.0	5	3.6	38	16	8	4.6	3.7	2.0	1.8	1.5
27	2.3	2.0	4.6	3.7	32	16	18	4.6	3.6	2.0	1.7	1.6
28	2.6	2.0	5.5	3.7	28	15	11	4.6	3.4	2.0	1.6	1.7
29	2.6	2.0	8.5	3.7	26	14	9	4.8	3.2	2.0	1.6	1.8
30	2.7	2.0	8.5	3.9		14	8.5	5	2.9	2.2	1.7	1.9
31	2.7		9	4.1		13		5		2.2	1.9	
	68.6		220.4		995.6		314.5		128.6		62.8	
		61.5		140.0		1143		173.0		61.3		56.5
MEAN	2.21	2.05	7.11	4.52	34.3	36.9	10.5	5.58	4.29	1.98	2.03	1.88
ACRE-FEET	136	122	437	278	1970	2270	624	343	255	122	125	112

Remarks:

YEAR OR PERIOD MEAN 9.36
ACRE-FEET 6,790

STATION F260B-R

SANTA ANITA WASH at Foothill Boulevard

LOCATION:

Water-stage recorder, lat. 34°09'03", long. 118°01'37", on the downstream side on left (east) end of Foothill Boulevard bridge, about one mile north of Arcadia, and approximately 0.2 mile below the confluence of Santa Anita Creek and Little Santa Anita Creek.
The former Station F260-R was about 0.4 mile upstream, from Foothill Boulevard. Elevation of zero gage height, 519.60 feet.

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 Foothill Boulevard 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, 1943 to September 30, 1944.

REGULATION:

Flow partially regulated by Big Santa Anita Dam and Sierra Madre Dam.

DIVERSIONS:

About 2 second-feet diverted for irrigation at mouth of 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, 1944.
For records prior to April, 1938, see Stations F21-R, F119-R, and F260-R.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 747 second-feet, February 22.
Minimum no flow at various times.
1936-1944 (Stations F260-R and F260B-R)
Maximum not determined.
Maximum outflow from Santa Anita Dam, 5,070 second-feet, March 2, 1938.
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 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F260B-R

DISCHARGE MEASUREMENTS OF SANTA ANITA WASH

AT NEAR Foothill Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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	10-21	350P / 356P	Moon	6.0	0.91	2.31	6.93	2.1	.6	6	0		FC22
327	10-28	425P / 430P	"	4.5	0.75	2.13	6.63	1.6	.6	5	0		"
328	11-4	350P / 354P	"	3.5	0.55	1.33	7.33	0.73	.6	4	0		"
329	11-12	215P / 219P	"	3.7	0.40	1.15	7.07	0.46	.6	4	0		"
330	11-17	415P / 419P	"	3.5	0.59	2.54	6.76	1.5	.6	4	0		"
331	11-19	1045A / 1049A	"	3.5	0.74	1.03	6.78	0.76	.6	4	0		"
332	11-26	202P / 206P	"	3.6	0.50	1.12	6.54	0.56	.6	4	0		"
333	12-3	1045A / 1048A	"	3.2	0.64	2.19	6.20	1.4	.6	3	0		"
334	12-10	756A / 802A	"	6.0	0.76	1.30	6.20	1.0	.6	6	0		"
335	12-10	340P / 345P	Moon & Stunden	11.0	3.58	3.30	6.22	11.8	.6	6	0		"
336	12-11	150P / 155P	" "	2.5	0.31	1.29	6.06	0.40	.6	3	0		"
337	12-17	835A / 839A	Moon	3.4	0.48	1.19	6.08	0.57	.6	4	0		"
338	12-18	805A / 810A	"	5.0	0.84	1.31	5.99	1.1	.6	5	0		"
339	12-19	1007A / 1012A	"	5.0	0.87	2.18	6.03	1.9	.6	5	0		"
340	12-20	849A / 854A	Moon & Stunden	7.0	1.38	1.88	5.86	2.6	.6	6	+.02		FC22
341	12-21	858A / 910A	Moon	11.0	3.88	3.70	5.28	14.4	.6	7	+.02		"
342	12-21	340P / 347P	"	13.5	5.56	4.50	5.27	25.0	.6	7	0		"
343	12-22	430P / 438P	"	17.0	6.05	4.36	5.14	26.4	.6	8	0		"
344	12-28	418P / 423P	"	6.0	0.74	2.35	5.31	1.7	.6	5	0		"
345	12-29	408P / 413P	Moon & Stunden	6.0	0.75	2.13	5.32	1.6	.6	4	0		"
346	12-30	218P / 224P	Moon	10.0	1.87	2.56	5.42	4.8	.6	6	-.11		"
347	1-4	835A / 842A	"	11.5	3.72	3.17	5.20	11.8	.6	8	0		"
348	1-7	1105A / 1110A	"	5.0	1.06	1.60	4.16	1.8	.6	5	0		"
349	1-13	1020A / 1024A	Moon	3.5	0.74	1.49	3.40	1.1	.6	4	0		FC22
350	1-21	1240P / 1245P	"	3.5	1.20	2.00	3.11	2.4	.6	4	0		"
351	1-28	842A / 846A	"	3.7	1.06	1.98	2.65	2.1	.6	4	0		"
352	1-31	957A / 1001A	"	4.0	0.48	1.33	2.18	0.64	.6	4	0		"
353	2-4	852A / 857A	"	5.0	0.74	1.03	2.25	0.76	.6	5	0		"
354	2-9	817A / 823A	"	11.0	4.53	3.14	2.92	14.2	.6	6	0		"
355	2-10	418P / 423P	"	10.0	4.20	2.48	2.80	10.4	.6	5	0		"
356	2-17	820A / 822A	"	2.3	0.51	1.04	2.12	0.53	.6	2	0		"
357	2-20	135A / 142A	Moon & Stunden	9.5	3.78	2.33	2.81	8.8	.6	5	0		"
358	2-20	830P / 835P	" "	13.0	7.40	3.84	3.13	28.4	.6	6	-.06		"
359	2-21	1025A / 1031A	" "	14.0	10.3	4.03	3.25	41.5	.6	8	0		"
360	2-22	629A / 643A	" "	34.0	34.8	6.58	3.46	229.	.6	8	0		"
361	2-22	1002A / 1014A	" "	32.0	52.8	9.85	4.12	520.	.6	7	0		"
362	2-22	422P / 432P	" "	32.0	61.5	10.2	4.12	628.	.6	7	0		"
363	2-23	1000A / 1009A	" "	31.0	40.8	6.37	3.52	260.	.6	7	0		"
364	2-24	1057A / 1103A	" "	10.0	7.75	1.55	2.82	12.0	.6	6	0		"
365	2-25	1003A / 1009A	" "	10.0	7.70	1.04	2.63	8.0	.6	9	0		"
366	2-25	108P / 113P	Moon	12.0	10.4	1.65	2.93	17.2	.6	7	0		"
367	2-25	435P / 450P	Moon & Stunden	27.0	32.4	2.87	3.47	92.9	.6	16	0		"
368	2-25	603P / 625P	" "	31.0	32.0	3.81	3.61	122.	.6	15	0		"
369	2-26	836A / 854A	Moon	28.0	40.3	3.55	3.62	143.	.6	14	0		"
370	2-27	353P / 405P	"	13.0	17.6	2.41	3.19	42.4	.6	7	0		"
371	3-1	905A / 918A	"	30.0	34.8	2.62	3.45	91.2	.6	14	0		"
372	3-1	1154A / 1209A	"	32.0	47.7	3.71	3.69	177.	.6	8	-.02		"
373	3-1	112P / 133P	Moon	32.0	49.2	3.98	3.77	196.	.6	9	-.12		FC22
374	3-1	430P / 437P	"	11.0	17.4	1.78	3.10	31.0	.6	7	-.03		"
375	3-1	712P / 742P	"	9.0	11.3	0.90	2.73	10.2	.6	6	-.04		"
376	3-2	658A / 708A	Moon & Stunden	32.0	49.2	3.86	3.77	190.	.6	8	-.01		"
377	3-4	1038A / 1058A	Moon	26.0	34.3	2.64	3.44	90.4	.6	13	0		"
378	3-6	848A / 859A	Moon & Stunden	26.0	30.6	2.38	3.36	72.7	.6	13	0		"
379	3-9	509P / 515P	Moon	5.5	3.24	0.68	2.35	2.2	.6	6	0		"
380	3-10	510P / 545P	"	26.0	33.4	2.42	3.36	80.7	.6	13	+.01		"
381	3-13	227P / 242P	"	25.5	22.7	1.90	3.19	43.2	.6	13	0		"
382	3-15	355P / 405P	Moon & Green	11.0	17.2	1.79	3.09	30.8	.6	7	0		"
383	3-20	448P / 502P	Moon	27.0	31.9	2.29	3.36	72.9	.6	13	0		"
384	3-24	955A / 1002A	"	12.5	7.88	2.80	2.98	22.1	.6	7	0		"
385	3-28	1015A / 1023A	"	12.5	5.11	3.21	2.88	16.4	.6	7	0		"
386	4-1	813A / 818A	"	10.5	3.66	3.36	2.94	12.3	.6	5	0		"
387	4-6	820A / 823A	"	3.0	0.84	3.33	4.11	2.8	.6	3	0		"
388	4-8	120P / 126P	"	15.0	8.60	6.13	4.20	52.7	.6	6	0		"
389	4-11	1040A / 1045A	"	10.0	2.44	4.34	5.14	10.6	.6	5	0		"
390	4-14	940A / 946A	"	11.0	4.16	5.29	5.71	22.0	.6	6	0		"
391	4-18	945A / 950A	"	10.0	1.96	3.06	6.30	6.0	.6	5	0		"
392	4-21	1005A / 1012A	"	8.0	1.55	3.81	6.50	5.9	.6	6	0		"
393	4-25	950A / 955A	"	5.0	1.45	4.62	6.80	6.7	.6	5	0		"
394	4-27	818A / 826A	"	16.0	4.88	4.02	6.86	19.6	.6	8	0		"
395	5-2	940A / 945A	"	6.0	1.10	3.73	7.46	4.1	.6	5	0		"
396	5-5	1040A / 1045A	"	5.0	0.86	3.02	7.70	2.6	.6	5	0		"

F. C. Dist. Form 52 8-44

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 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	b 1.0	b 1.2	b 3.0	b 0.6	95	12	b 5	0	0	0	0
2	+	b 0.9	b 1.3	b 3.0	b 0.7	129	b 12	4.1	0	0	0	0
3	+	b 0.8	1.4	b 7.5	b 0.8	95	b 12	b 3.6	0	0	0	0
4	+	0.7	b 1.4	b 12	0.8	90	b 4.6	b 3.1	0	0	0	0
5	+	b 0.7	b 1.4	b 4.3	b 0.8	73	b 7	2.6	0	0	0	0
6	+	b 0.7	b 1.0	b 2.3	b 0.8	67	b 4.1	b 1.9	0	0	0	0
7	+	b 0.6	0	1.8	b 0.8	57	b 8.5	b 1.2	0	0	0	0
8	+	b 0.6	0	b 1.6	b 0.8	49	b 27	b 0.5	0	0	0	0
9	+	b 0.6	0	b 1.6	1.4	28	b 16	0	0	0	0	0
10	+	b 0.5	3.2	b 1.5	11	36	b 11	0	0	0	0	0
11	+	b 0.5	3.0	b 1.4	10	75	11	0	0	0	0	0
12	+	0.5	+	b 1.4	9	56	b 10	0	0	0	0	0
13	+	b 0.5	0	1.1	8.5	45	b 9	0	0	0	0	0
14	+	b 0.5	+	b 1.1	6	40	b 7	0	0	0	0	0
15	+	b 0.5	b 0.6	b 1.1	1.6	29	b 7	0	0	0	0	0
16	+	b 0.5	b 0.6	b 1.1	0.7	29	b 7	0	0	0	0	0
17	+	b 1.0	0.6	b 1.1	0.7	23	b 7	0	0	0	0	0
18	d 0.7	b 0.9	1.3	b 1.1	0.6	23	b 7	0	0	0	0	0
19	+	0.8	1.7	b 1.5	1.4	24	b 6	0	0	0	0	0
20	b 2.1	b 0.8	b 10	b 1.8	23	70	b 6	0	0	0	0	0
21	b 2.1	b 0.7	b 23	2.4	44	41	6	0	0	0	0	0
22	b 2.1	b 0.7	26	b 2.4	395	24	b 6	0	0	0	0	0
23	b 2.0	b 0.7	b 17	b 2.4	353	28	b 6	0	0	0	0	0
24	b 1.9	b 0.7	b 9	b 2.2	26	23	b 6	0	0	0	0	0
25	b 1.8	b 0.6	b 7	b 2.2	45	21	b 5.5	0	0	0	0	0
26	b 1.7	0.6	b 1.6	b 2.1	113	22	b 5.5	0	0	0	0	0
27	b 1.6	b 0.6	b 1.6	b 2.1	66	29	b 21	0	0	0	0	0
28	1.6	b 0.6	b 1.6	2.1	32	13	b 8	0	0	0	0	0
29	b 1.3	b 0.6	1.6	b 2.1	29	12	b 6	0	0	0	0	0
30	b 1.2	b 0.6	b 2.0	b 0.6		19	b 5.5	0	0	0	0	0
31	b 1.1		b 2.2	0.6		11		0		0	0	
	212	200	1213	725	1195.6	1376	266.7	22.0	0	0	0	0
MEAN	0.68	0.67	3.91	2.34	41.2	44.4	8.89	0.71	0	0	0	0
ACRE-FEET	42.	40.	241.	144.	2370.	2730.	529.	44.	0	0	0	0

Remarks: += 0.05 c.f.s. or less.
Flow at Station 267-R.

YEAR OR PERIOD — MEAN 8.46 — ACRE-FEET 6140.

STATION F92B-R

SANTA CLARA RIVER at Highway 99

LOCATION:

Water-stage recorder, lat. 34°25'35", long. 118°35'08", on the downstream side of the U.S. Highway 99 bridge about 3 miles west of Saugus. Elevation of gage, about 1,040 feet (from topographic map).
The former Station F92-R was about 1000 feet downstream.

DRAINAGE AREA:

355 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 U.S. Highway 99 bridge.

RECORDER:

Installed January 18, 1930 at Station F92-R.
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, 1943 to September 30, 1944.

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 F92-R
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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 22,200 second-feet, February 22.
Minimum 1.0 second-foot, October 5,6.
1930-1944 (Stations F92-R and F92B-R)
Maximum 24,000 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.

OPERATION:

Located and constructed by the Los Angeles County Flood Control District, in co-operation with the United States Geological Survey, Water Resources Branch.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F92B-R

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

at Highway No.99 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
257	10-1	130P / 140P	Luce & van der Goot	6.2	1.62	1.17	6.24	1.9		.6	6	0	FC39
258	10-8	1135A / 1140A	Luce	6.0	1.59	1.45	6.26	2.3		.6	6	0	"
259	10-14	1243P / 1251P	Blakely	6.4	1.62	1.30	6.25	2.1		.6	7	0	FC32
260	10-22	205P / 215P	Luce	6.8	1.67	1.44	6.26	2.4		.6	7	+.01	FC39
261	10-29	105P / 115P	"	6.7	1.68	1.44	6.26	2.4		.6	7	0	"
262	11-5	515P / 525P	"	6.0	2.24	1.29	6.28	3.1		.6	6	0	"
263	11-12	410P / 420P	"	6.3	2.33	1.63	6.31	3.8		.6	7	0	"
264	11-19	1125A / 1135A	"	7.5	2.22	1.62	6.30	3.6		.6	7	0	"
265	11-26	1210P / 1220P	"	6.0	1.94	1.70	6.30	3.3		.6	6	0	"
266	12-9	1155A / 1205P	"	5.0	1.70	1.88	6.30	3.2		.6	5	0	"
267	12-11	1030A / 1040A	"	11.5	3.51	2.16	6.52	7.6		.6	6	0	"
268	12-21	945A / 953A	"	30.5	9.68	2.66	6.77	25.8		.6	10	0	"
269	12-23	1105A / 1115A	"	Two Channels			6.72	4.9		.6	12	+.01	"
270	12-28	355P /	"	"	"		6.78	8.6		.6	11	0	"
271	1-15	225P / 235P	"	26.0	5.64	1.61	6.94	9.1		.6	8	0	"
272	2-4	145P / 155P	"	23.0	6.70	1.87	7.10	12.5		.6	13	0	"
273	2-10	1245P / 1255P	"	31.5	7.63	1.49	7.10	11.4		.6	12	0	"
274	2-21	345P / 405P	Luce & Hemphill	175.	214.9	6.19	8.00	1330.	Float		19	+.10	"
275	2-21	420P / 455P	" "	170.	170.2	6.77	7.92	1150.	" "	17		+.05	"
276	2-22	315P / 350P	" "	338.	848.1	10.18	8.74	8630.	" "	19		+.12	"
277	2-24	1040A / 1125A	Luce & Hemphill	Three Channels			6.38	613.		.6	29	-.05	FC39
278	2-25	150P / 232P	" "	" "			6.47	439.		.6	41	-.06	"
279	3-1	445P / 520P	Luce	Six Channels			6.65	228.		.6	31	+.05	"
280	3-2	340P / 430P	Luce & Hemphill	Three Channels			6.50	902.		.6	35	-.31	"
281	3-10	1200N / 1230P	Luce	Three Channels			6.72	206.		.6	21	+.03	FC39
282	3-17	1125A / 1155A	"	Two Channels			6.62	130.		.6	15	0	"
283	3-24	235P / 255P	"	68.0	29.8	3.46	6.62	103.		.6	14	0	"
284	4-7	325P / 350P	"	Three Channels			6.66	56.8		.6	23	+.01	"
285	4-14	445P / 508P	"	Two Channels			6.61	30.3		.6	12	0	"
286	4-28	505P / 528P	"	Three Channels			6.60	49.8		.6	14	0	"
287	5-5	450P / 502P	"	Two Channels			6.59	22.2		.6	12	0	"
288	5-12	435P / 447P	"	" "				16.4		.6	11		"
289	5-19	135P / 155P	"	Three Channels				12.0		.6	13		"
290	5-27	515P / 535P	"	18.0	5.53	2.04	6.69	11.3		.6	7	0	"
291	6-2	130P / 145P	"	16.0	5.70	2.40		13.7		.6	9	0	"
292	6-9	215P / 230P	Turner	Four Channels				11.1		.5	13		FC5
293	6-15	415P / 427P	Bollinger	19.5	4.69	2.07		9.7		.6	9	0	FC6
294	6-22	110P / 122P	Luce	Two Channels				8.4		.6	12		FC39
295	6-29	530P / 545P	"	Three Channels				7.8		.6	14		"
296	7-20	440P / 450P	"	14.5	3.94	1.50		5.9		.6	7	0	"
297	8-10	602P / 615P	"	11.5	3.35	1.31	5.76	4.4		.6	7	0	"
298	8-24	430P / 440P	"	8.0	2.91	1.34	5.74	3.9		.6	5	0	"
299	8-31	207P / 212P	"	6.0	2.91	1.45	5.73	4.2		.6	6	0	"
300	9-26	208P / 215P	Luce & Haig	6.3	3.06	1.56	5.77	4.8		.6	7	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

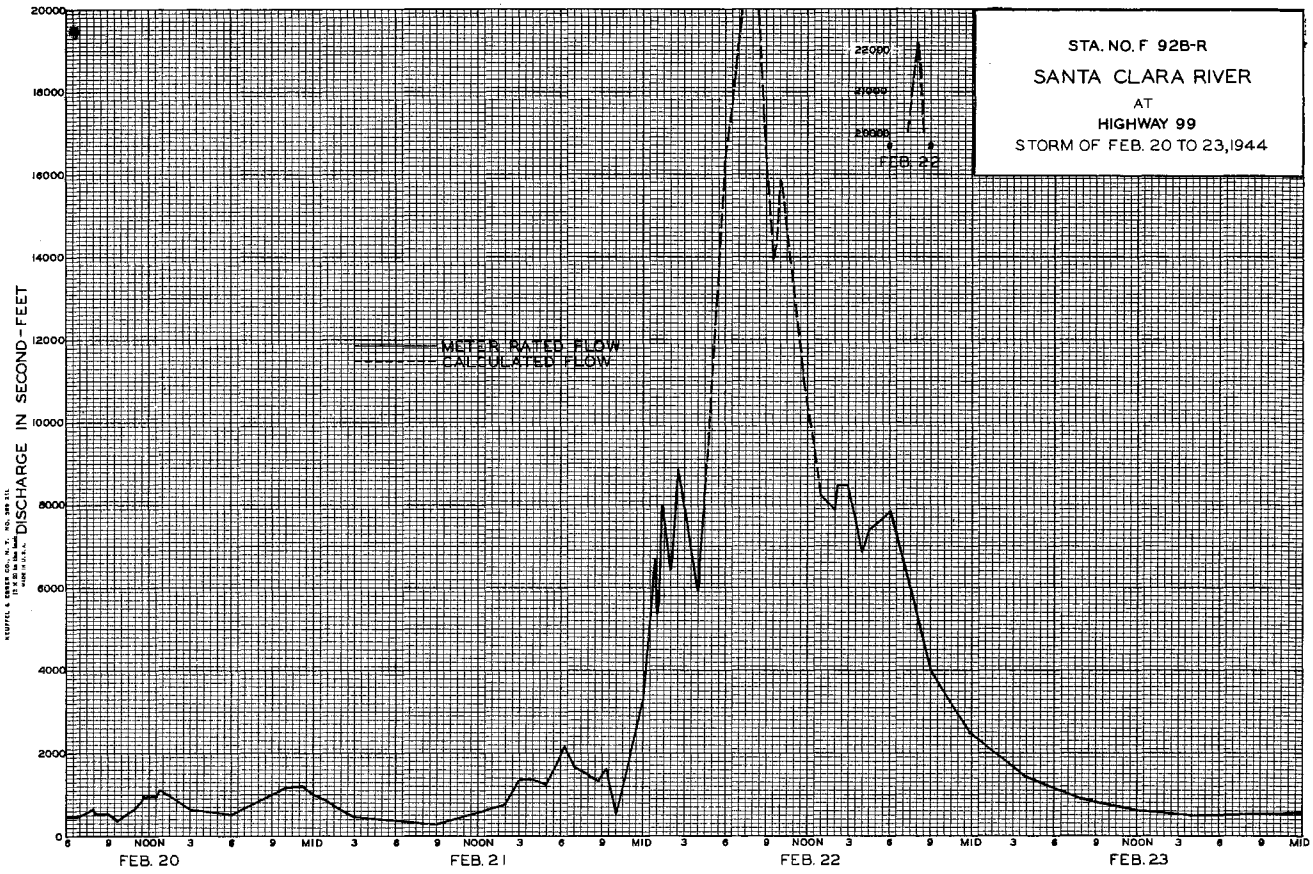
Sta. No. F92B-R

Daily discharge, in second-feet of SANTA CLARA RIVER at Highway 99, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	2.6	5	6	7	458	d 82	44	13	8	5	4.2
2	2.2	2.8	5	6	9.5	1800	d 77	b 30	14	7.5	5	4.2
3	2.0	3.0	4.5	6	14	452	d 74	b 26	14	7.5	5	4.3
4	2.0	3.4	5	6	12	394	d 70	b 24	13	7.5	5	4.3
5	2.0	3.4	6.5	6	10	317	d 66	b 22	13	7.5	5	4.3
6	2.0	3.0	6	8	10	257	d 61	b 22	12	7.5	5	4.3
7	2.2	2.8	3.8	6.5	8.5	329	d 57	b 21	12	7	4.9	4.4
8	2.2	3.4	3.4	6.5	8	281	d 53	b 20	11	7	4.7	4.4
9	2.2	3.0	3.0	6.5	10	207	d 48	b 19	11	7	4.5	4.4
10	2.4	3.4	11	8.5	12	200	d 43	b 18	11	7	4.4	4.4
11	2.4	3.4	9.5	6	10	188	d 38	b 17	10	7	4.4	4.5
12	2.6	4.2	8	7	d 10	175	d 35	b 16	10	6.5	4.3	4.5
13	2.4	a 4.2	5.5	6	d 10	162	d 32	16	10	6.5	4.3	4.5
14	2.4	4.2	5.5	8.5	d 10	152	d 30	b 15	9.5	6.5	4.3	4.5
15	2.0	4.6	5.5	8.5	d 9.5	144	d 29	b 14	9.5	6.5	4.2	4.5
16	2.0	4.6	4.6	8.5	d 9.5	136	b 29	b 14	9.5	6.5	4.2	4.6
17	2.2	4.6	4.6	9.5	9.5	130	b 28	b 13	9.5	6	4.2	4.6
18	2.6	3.8	4.2	12	8.5	123	b 28	b 12	9	6	4.1	4.6
19	2.2	3.4	3.0	10	15	d 118	b 27	b 12	9	6	4.1	4.6
20	2.4	3.8	21	9.5	649	d 113	b 27	b 12	9	6	4.0	4.7
21	2.4	3.8	33	13	922	d 100	b 26	b 12	8.5	6	4.0	4.7
22	2.4	3.8	6.5	13	9360	d 107	b 26	b 12	8.5	6	4.0	4.7
23	2.2	3.8	4.6	13	1270	d 105	b 26	b 12	8.5	6	3.9	4.7
24	2.2	3.8	6	10	814	d 103	b 26	b 11	8.5	5.5	3.9	4.8
25	2.2	3.4	7	11	510	d 100	b 25	b 11	8.5	5.5	3.9	4.8
26	2.2	3.4	8	7	269	d 98	b 25	b 11	8	5.5	4.0	4.8
27	2.4	3.8	6.5	6	226	d 96	58	b 11	8	5.5	4.0	d 4.9
28	2.4	5	7	11	207	d 93	58	b 11	8	5.5	4.1	d 5
29	2.4	5	9.5	6.5	198	d 90	58	b 12	8	5.5	4.1	d 5
30	2.4	5	8.5	8.5		d 88	48	b 12	8	5	4.2	d 5
31	2.4		8	9.5		d 85		b 13		5	4.2	
	70.0	112.4	229.3	260.0	14618	7201	1310	515	301.5	198.0	134.9	137.2
MEAN	2.26	3.75	7.40	8.39	504.	233.	43.7	16.6	10.1	6.39	4.35	4.57
ACRE-FEET	139.	223.	455.	516.	28990.	14300.	2600.	1,020.	598.	393.	268.	272.

Remarks:

YEAR OR PERIOD MEAN 68.6
ACRE-FEET 49770.



STATION F278-R

SAWPIT CREEK below Sawpit Dam

LOCATION:

Water-stage recorder, lat. 34°10'32", long. 117°59'16", on the right (north) side of the stream, about 500 feet downstream from Sawpit Dam, and about 2.5 miles north of Monrovia. Elevation of gage, about 1,225 feet.

DRAINAGE AREA:

3.3 square miles.

CHANNEL AND CONTROL:

Channel-sand and gravel.
A broad-crested weir forms the control.

DISCHARGE MEASUREMENTS:

Low flows measured by wading.
High flows measured from foot bridge at the station.

RECORDER:

Installed February 6, 1942. Removed August 31, and installed in the new location on September 4, 1943. An H.C.F. continuous recorder was in service from October 1, 1943 to September 30, 1944.

REGULATION:

Flow regulated by Sawpit Dam. Station F278-R measures outlet discharge, spillway discharge enters Sawpit Creek below the station.

DIVERSIONS:

City of Monrovia diverts flow above Sawpit Dam.

RECORDS AVAILABLE:

February 6, 1942 to September 30, 1944. Outflow records from Sawpit Dam are available commencing October 1, 1931.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 67 second-feet, February 22.
Minimum no flow most of year.
1942-1944
Maximum discharge not determined.
Maximum outlet discharge from Sawpit Dam, 284 second-feet, January 23, 1943.
Minimum no flow several days each year.

ACCURACY:

Fair.

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. F278-R

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

below Sawpit Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.	D. MT. CHANGE TOTAL	METER NO.
59	10-22	900A / 904A	Moon	3.0	0.80	1.38	0.20	1.1		6	4	0	FC22
60	10-29	910A / 915A	"	2.6	0.58	1.19	0.18	0.69		6	5	0	"
61	11-4	145P / 150P	"	2.5	0.56	1.13	0.16	0.63		6	5	0	"
62	11-12	116P / 119P	"	1.5	0.15	1.47	0.08	0.22		6	3	0	"
63	1-13	315P / 323P	"	1.6	0.96	6.57	0.73	6.3		6	3	0	"
64	1-13	350P / 356P	Moon & Van der Goot	16.5	6.50	1.72	1.40	11.2		6	9	0	"
65	1-20	302P / 306P	"	1.6	0.96	7.40	0.77	7.1		6	3	0	"
66	1-20	337P / 344P	Moon	8.0	3.46	1.59	0.78	5.5		6	7	0	"
67	1-20	356P / 402P	"	15.0	9.40	2.02	1.46	19.0		6	10	0	"
68	1-20	410P / 418P	"	15.0	12.9	2.29	1.72	29.5		6	9	0	"
69	2-4	922A / 927A	"	2.5	0.25	1.88	0.10	0.47		6	5	0	"
70	2-9	1040A / 1043A	"	1.2	0.23	2.70	0.12	0.62		6	3	0	"
71	2-18	926A / 927A	"	1.5	0.12	0.67	0.04	0.08		6	2	0	"
72	2-20	935A / 940A	Moon & Stunden	1.4	0.60	6.00	0.50	3.6		6	3	0	FC22
73	2-20	938P / 942P	" "	2.0	1.63	7.12	1.16	11.6		6	4	0	"
74	2-21	1100A / 1105A	" "	1.7	0.94	7.13	0.81	6.7		6	3	0	"
75	2-23	1103A / 1128A	" "	12.0	9.45	4.83	2.04	45.6		6	10	0	"
76	2-24	456P / 500P	Moon	2.0	1.52	7.37	1.09	11.2		6	4	0	"
77	2-24	515P / 520P	Moon & Stunden	8.5	5.60	1.95	1.09	10.9		6	8	0	"
78	3-1	254P / 300P	Moon	1.6	0.84	6.90	0.70	5.8		6	3	0	"
79	3-2	424A / 430A	Moon & Stunden	13.0	12.4	1.92	1.62	23.8		6	7	0	"
80	3-3	232P / 242P	Moon & Stunden	9.5	6.67	2.08	1.21	13.9		6	9	0	"
81	3-9	346P / 405P	Moon	1.7	0.80	6.62	0.67	5.3		6	3	0	"
82	3-16	332P / 337P	"	1.5	0.62	5.68	0.48	3.5		6	3	0	"
83	3-24	1225P / 1230P	Moon	3.0	0.95	1.05	0.22	1.0		6	4	0	FC22
84	4-1	1025A / 1029A	"	2.0	0.56	0.96	0.10	0.54		6	4	0	"
85	4-7	130P / 133P	"	1.4	0.31	1.00	0.06	0.31		6	3	0	"
86	4-13	343P / 346P	"	1.6	0.52	1.31	0.13	0.68		6	3	0	"
87	4-20	410P / 412P	"	1.0	0.15	0.93	0.04	0.14		6	2	0	"
88	4-28	1100A / 1105A	"	3.0	0.90	1.22	0.26	1.1		5	5	0	"
89	5-4	320P / 323P	"	1.5	0.16	0.81	0.05	0.13		6	3	0	"

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F278-R

Daily discharge, in second-feet of SAWPIT CREEK below Sawpit Dam, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	d 0.7	0	0	0	7.6	0.5	0.2	0	0	0	0
2	0	d 0.6	0	0	0	21.2	0.5	0.2	0	0	0	0
3	0	d 0.6	0	0	0	13.8	0.5	0.2	0	0	0	0
4	0	0.6	0	0	0.4	11.2	0.4	0.1	0	0	0	0
5	0	d 0.6	0	0	+	1.0	0.4	0.1	0	0	0	0
6	0	d 0.6	0	0	+	8.8	0.4	0.2	0	0	0	0
7	0	d 0.6	0	0	+	7.2	0.3	0.2	0	0	0	0
8	0	d 0.6	0	0	0.2	6.7	0.3	0.2	0	0	0	0
9	0	d 0.5	0	0	d 0.1	5.8	0.3	0.2	0	0	0	0
10	0	d 0.5	0	0	d 0.1	5.1	0.3	0.3	0	0	0	0
11	0	d 0.4	0	0	d 0.1	4.9	0.3	0.3	0	0	0	0
12	0	0.8	0	0	d 0.1	4.7	0.5	0.3	0	0	0	0
13	0	0	0	0.4	d 0.1	a 4.4	0.7	0.2	0	0	0	0
14	0	0	0	0	d 0.1	a 4.1	0.7	0.2	0	0	0	0
15	0	0	0	0	d 0.1	a 3.8	0.7	0.2	0	0	0	0
16	0	0	0	0	d 0.1	3.5	0.3	0.1	0	0	0	0
17	0	0	0	0	d 0.1	3.0	0.2	0.1	0	0	0	0
18	d 1.1	0	0	0	0.1	2.7	0.2	+	0	0	0	0
19	d 1.1	0	0	0	d 0.1	2.9	0.1	+	0	0	0	0
20	d 1.1	0	0	1.2	5.7	2.5	0.1	+	0	0	0	0
21	d 1.1	0	0	0	9	2.4	0.1	+	0	0	0	0
22	1.1	0	0	0	41.8	1.0	0.1	+	0	0	0	0
23	d 1.1	0	0	0	50	0.9	0.1	0	0	0	0	0
24	d 1.0	0	0	0	15.2	0.9	0	0	0	0	0	0
25	d 0.9	0	0	0	9	0.7	0	0	0	0	0	0
26	d 0.8	0	0	0	7.4	0.6	0	0	0	0	0	0
27	d 0.7	0	0	0	5.6	0.5	1.4	0	0	0	0	0
28	d 0.7	0	0	0	4.7	0.4	1.3	0	0	0	0	0
29	0.7	0	0	0	5.1	0.6	0.7	0	0	0	0	0
30	d 0.7	0	0	0		1.0	0.3	0	0	0	0	0
31	d 0.7		0	0		0.9		0		0	0	
	12.8	7.1	0	1.6	156.2	143.8	11.7	3.3	0	0	0	0
MEAN	0.41	0.24	0	+	5.39	4.64	0.39	0.11	0	0	0	0
ACRE-FEET	25.	14.	0	3.2	309.	285.	23.	6.5	0	0	0	0

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

YEAR OR PERIOD MEAN 0.92 ACRE-FEET 666.

STATION U5-R

SAWPIT CREEK below Monrovia Canyon

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 1944.

AVERAGE DISCHARGE:

27 years (1917-1944), 1.42 second-feet; including diversion by Monrovia pipe line, 27 years, 2.88 second-feet.

EXTREMES:

1943-1944
Maximum discharge during year, 124 second-feet, February 22 (gage height 2.22 feet); no flow during several periods.

1916-1944
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 fair. Regulation at Sawpit Dam above station and diversions by city of Monrovia.

COOPERATION:

Records furnished by the United States Geological Survey, with the exception of 25 measurements furnished by the Los Angeles County Flood Control District in cooperation with the United States Geological Survey.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. U5-R

DISCHARGE MEASUREMENTS OF SAWPIT CREEK

AT below Monrovia Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
705	10-22	957A / 1001A	Moon	4.0	2.20	0.73	0.26	1.6			4		FC22
706	10-25		U.S.G.S.	4.0	2.2	.59	0.26	1.3		.6	8	0	
707	10-29	942A / 946A	Moon	3.6	1.94	.67	.24	1.3		.6	4		FC22
708	11-4	240P / 244P	"	3.6	1.87	.53	.22	1.0		.6	4		"
709	11-6		U.S.G.S.	4.0	2.1	.48	.21	1.0		.6	8	0	
710	11-12	143P / 147P	Moon	3.8	1.84	.31	.13	.57		.6	4	0	FC22
711	12-10	950A / 954A	"	4.0	260	.65	.26	1.7		.6	4		"
712	12-11		U.S.G.S.	4.0	2.3	.52	.23	1.2		.6	8	-.05	
713	12-20		"	4.0	2.4	.83	.31	2.0		.6	8	0	
714	12-22		"	1.0	.15	1.13	.09	.17		.6	2	0	
715	12-22	305P / 307P	Moon	1.0	.12	2.17	.08	.24		.6	2		FC22
716	12-30		U.S.G.S.	.7	.20	.35	.03	.07		.6	1	0	
717	12-30		"	4.0	2.2	.77	.28	1.7		.6	8	0	
718	1-5		"	.5	.18	.44	.00	.08		.6	2	0	
719	1-7	1010A / 1011A	Moon	1.0	.06	1.33	.00	.08		.6	2		FC22
720	1-12		U.S.G.S.	.05	.18	.28	.00	.05		.6	1	0	
721	1-14	900A / 902A	Moon	1.0	.06	2.33	.00	.14		.6	2		FC22
722	1-20		U.S.G.S.	14.5	12.2	2.37	1.09	28.9		.6	13	+.02	
723	1-24		"	.5	.08	.62	.00	.05		.6	1	0	
724	1-27	350P / 351P	Moon	.8	.05	.80	.00	.04		.6	2		FC22
725	2-4	1000A / 1006A	"	5.0	1.3	1.23	.32	1.6		.6	6		"
726	2-9	1230P / 1236P	"	5.0	.98	.92	.19	.90		.6	6		"
727	2-10		U.S.G.S.	1.2	.20	1.15	.09	.23		.6	3	0	
728	2-17		"	1.0	0.25	0.84	0.07	0.21		.6	2	0	
729	2-18	950A / 951A	Moon	1.0	0.17	1.12	.05	.18		.6	2		FC22
730	2-22		U.S.G.S.	15.	14.4	8.01	1.72	117.		.6	6	-.04	
731	2-24		"	10.5	10.1	1.68	.93	17.0		.6	10	0	
732	3-2		"	15.4	11.0	2.88	1.22	31.7		.6	15	-.01	
733	3-4	204P / 212P	Moon & Stunden	7.0	2.8	4.68	.84	13.1		.6	8		FC22
734	3-6		U.S.G.S.	13.	6.8	1.63	.74	11.1		.6	13	0	
735	3-17		"	7.5	4.6	.65	.42	3.0		.6	15	+.02	
736	3-23		"	3.0	1.0	1.30	.26	1.3		.6	6	0	
737	3-24	103P / 106P	Moon	1.3	.41	3.17	.29	1.3		.6	3		FC22
738	3-29		U.S.G.S.	1.3	.34	.23	.22	.75		.6	3	0	
739	4-1	1055A / 1058A	Moon	1.2	.22	2.18	.17	.48		.6	3		FC22
740	4-5		U.S.G.S.	1.2	.22	1.41	.14	.31		.6	3	0	
741	4-7	155P / 158P	Moon	1.1	.19	1.37	.14	.26		.6	3		FC22
742	4-12		U.S.G.S.	2.5	.89	1.24	.19	1.1		.6	5	0	
743	4-13	405P / 409P	Moon	2.3	.70	1.31	.20	.92		.6	4		FC22
744	4-19		U.S.G.S.	2.0	.50	.88	.11	.44		.6	4	0	
745	4-20	430P / 432P	Moon	1.0	.14	1.43	.09	.20		.6	2		FC22
746	4-26		U.S.G.S.	1.5	.36	.64	.06	.23		.6	3	0	
747	4-28	1135A / 1138A	Moon	1.3	.37	3.24	.30	1.2		.6	3		FC22
748	5-3		U.S.G.S.	1.5	.60	.73	.12	.43		.6	3		
749	5-4	242P / 245P	Moon	1.1	.19	1.42	.10	.27		.6	3		FC22
750	5-10		U.S.G.S.	1.5	.45	.60	.09	.27		.6	3	0	
751	5-19		"	1.5	0.36	0.44	0.04	0.16		.6	3	0	
752	5-19	430P / 432P	Moon	1.4	.42	.45	.04	.19		.6	2		FC35
753	5-24		U.S.G.S.	1.0	.30	.17	.02	.05		.6	2	0	
754	5-26	1130A / 1132A	Moon	1.0	.20	.60	.02	.12		.6	2		FC22
755	5-31		U.S.G.S.	.8	.25	.24	.02	.06		.6	2	0	
756	6-2	1105A / 1107A	Moon	1.0	.24	.67	.02	.16		.6	2		FC22
757	6-7		U.S.G.S.	1.0	.20	.55	.02	.11		.6	4	0	
758	6-14		"	1.0	.20	.50	.02	.10		.6	2	0	
759	6-21		"	1.0	.20	.30	.01	.06		.6	2	0	
760	6-23	250P / 255P	Haig	1.0	.23	.26	.01	.06		.5	2	0	FC35
761	6-28		U.S.G.S.	1.0	.25	.48	.02	.12		.6	2	0	
762	7-12		"	.5	.09	.11	-.01	.01		.6	1	0	
763	7-16	1110A / 1112A	Moon	1.0	.25	.36	-.01	.09		.6	2	0	FC22

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F5-R

Daily discharge, in second-feet of SAWPIT CREEK below Monrovia Canyon, for the year ending September 30, 1944.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	2.5	0	0.1	0.2	15	0.5	0.4	0.1	0.1	0	0
2	0	1.1	0	0.1	0.2	37	0.4	0.4	0.1	0.1	0	0
3	0	1.1	0	0.1	0.5	21	0.4	0.4	0.1	0.1	0	0
4	0	1.0	0	0.1	1.6	17	0.3	0.4	0.1	0	0	0
5	0	1.0	0.6	0.1	0.4	18	0.3	0.3	0.1	0	0	0
6	0	1.0	0.6	0.1	0.3	13	0.3	0.3	0.1	0	0	0
7	0	0.9	0.2	0.1	0.5	10	0.2	0.3	0.1	0	0	0
8	0	0.8	0.2	0.1	1.4	9.5	0.3	0.3	0.1	0	0	0
9	0	0.8	0.5	0.1	1.2	8	0.3	0.3	0.1	0	0	0
10	0	0.7	1.3	0.1	0.3	6.5	0.4	0.3	0.1	0	0	0
11	0	0.7	1.2	0.1	0.2	6	0.6	0.3	0.1	0	0	0
12	0	0.8	0.9	0.1	0.2	6	0.8	0.2	0.1	0	0	0
13	0	0.2	0.5	0.4	0.2	8	0.9	0.2	0.1	0	0	0
14	0	0.1	0.2	0.2	0.2	6	0.9	0.2	0.1	0	0	0
15	0	0	0.2	0.2	0.2	4.7	0.8	0.2	0.1	0	0	0
16	0	0	0.2	0.2	0.2	4.3	0.6	0.2	0.1	0.1	0	0
17	0	0	0.4	0.2	0.4	3.4	0.5	0.2	0.1	0.1	0	0
18	1.1	0	1.1	0.2	0.4	3.0	0.4	0.2	0.1	0.1	0	0
19	1.7	0	2.7	0.1	0.2	3.0	0.4	0.2	0.1	0	0	0
20	1.4	0	3.1	0.8	8	2.8	0.3	0.2	0.1	0	0	0
21	1.4	0	3.1	0.1	11	2.5	0.2	0.2	0.1	0	0	0
22	1.4	0	0.6	0	72	1.5	0.2	0.1	0.1	0	0	0
23	1.4	0	0	0.3	64	1.4	0.2	0.1	0.1	0	0	0
24	1.4	0	0	0.4	23	1.3	0.2	0.1	0.1	0	0	0
25	1.4	0	0	0	1.3	1.1	0.2	0.1	0.1	0	0	0
26	1.3	0	0	0	10	1.0	0.2	0.1	0.1	0	0	0
27	1.3	0	0	0	7.5	0.9	2.2	0.1	0.1	0	0	0
28	1.3	0	0.4	0	5.5	0.7	1.6	0.1	0.2	0	0	0
29	1.3	0	0.9	0	7.5	0.7	0.8	0.1	0.1	0	0	0
30	1.3	0	0.8	0.1		1.0	0.4	0.1	0.1	0	0	0
31	1.3		0.5	0.2		1.0		0.1		0	0	
	19.0	12.7	20.2	4.6	230.3	215.3	15.8	6.7	3.1	0.6	0	0
MEAN	0.61	.42	.65	.15	7.94	6.95	.53	.22	.10	.02	0	0
ACRE-FEET	38.	25.	40.	9.1	457.	427.	31.	13.	6.1	1.2	0	0

Remarks:

YEAR OR PERIOD MEAN 1.44
ACRE-FEET 1,050.

STATION F185-R

SEPULVEDA CREEK at Charnock Road

LOCATION:

Water-stage recorder, lat. 34°00'48", long. 118°25'29", 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. Elevation of zero gage height, 79.23 feet.

DRAINAGE AREA:

25.7 square miles.

CHANNEL AND CONTROL:

Channel-sand and adobe.
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 due to 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 H.C.F. recorder was in operation from October 1, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 1,940 second-feet, February 22.
Minimum no flow at various times.
1932-1943
Maximum 3,100 second-feet, estimated 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 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F185-R

DISCHARGE MEASUREMENTS OF SEPULVEDA CREEK

at Charnock Road 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.
502	10-1	945A / 951A	Bollinger	4.5	1.63	0.36	4.37	0.58		.6	6	0	FO6
503	10-8	1005A / 1010A	"	4.7	1.58	0.31	4.38	0.49		.6	5	0	"
504	10-14	1000A / 1010A	"	25.6	13.5	0.21	4.78	2.8		.6	11	0	"
505	10-28	1017A / 1022A	"	4.5	1.46	0.46	4.37	0.66		.6	4	0	"
506	11-26	1047A / 1052A	"	4.8	1.15	0.38	4.35	0.44		.6	5	0	"
507	12-10	420P / 430P	Bollinger & Eckert	24.0	24.8	1.11	5.19	27.5		.6	12	-.02	"
508	12-17	1128A / 1133A	Bollinger	4.0	0.84	1.20	4.61	1.0		.6	5	0	"
509	12-18	1208P / 1214P	Bollinger & Eckert	9.5	4.77	1.01	4.76	4.8		.6	8	-.02	"
510	12-19	320P / 332P	Bollinger & Robinson	31.8	25.6	1.77	5.37	45.4		.6	14	-.16	"
511	1-6	1103A / 1110A	Bollinger	3.0	1.33	0.56	4.53	0.75		.6	5	0	"
512	1-14	1049A / 1054A	"	4.0	0.75	0.92	4.54	0.69		.6	3	0	"
513	2-4	1055A / 1101A	"	3.4	1.01	0.60	4.54	0.60		.6	4	0	"
514	2-10	1048A / 1051A	"	2.6	0.26	0.73	4.41	0.19		.6	3	0	"
515	2-18	1145A / 1153A	"	4.0	0.96	0.24	4.56	0.23		.6	5	0	"
516	2-20	413P / 428P	"	32.5	75.2	3.09	6.52	232		.6	9	-.16 +.71	"
517	2-21	950A / 955A	Bollinger & Eckert	18.0	14.6	1.88	5.08	27.4		.6	8	-.02	"
518	2-24	407P / 412P	Bollinger	3.5	0.67	1.00	4.32	0.67		.6	4	+.01	"
519	3-2	235P / 244P	Bollinger & Eckert	30.0	28.2	1.12	4.90	31.6		.6	10	-.01	FO6
520	3-4	1224P / 1230P	Bollinger	4.0	1.15	1.30	4.36	1.5		.6	4	0	"
521	3-17	1045A / 1053A	"	3.7	0.80	0.95	4.38	0.76		.6	4	0	"
522	3-24	1100A / 1107A	"	10.0	8.79	0.48	4.60	4.2		.6	8	-.01	"
523	4-7	1112A / 1118A	"	4.8	1.84	0.48	4.38	0.88		.6	5	-.01	"
524	4-14	1148A / 1054A	"	5.0	1.80	0.43	4.39	0.77		.6	5	0	"
525	4-21	1111A / 1116A	Bollinger	4.5	1.22	0.33	4.30	0.40		.6	4	-.01	FO6
526	4-28	100P / 106P	"	4.3	1.78	0.44	4.50	0.79		.6	5	0	"
527	5-12	1002A / 1007A	"	4.2	1.44	0.15	4.41	0.21		.6	4	0	"
528	5-19	1114A / 1130A	"	8.5	8.43	0.34	4.92	2.9		.6	6	-.11	"
529	5-26	1035A / 1041A	"	4.5	2.83	0.39	4.74	1.1		.6	5	-.03	"
530	6-2	1030A / 1035A	"	3.7	2.24	0.37	4.66	0.83		.6	4	0	"
531	6-9	1025A / 1030A	"	3.5	2.26	0.44	4.72	1.0		.6	4	0	"
532	6-17	1007A / 1012A	"	2.0	0.69	0.81	4.69	0.56		.6	3	0	"
533	6-23	1027A / 1033A	"	2.2	0.72	1.06	4.77	0.76		.6	4	0	"
534	6-30	944A / 949A	"	2.1	0.63	1.17	4.77	0.74		.6	3	-.04	"
535	7-7	1045A / 1049A	"	1.7	0.49	0.51	4.59	0.25		.6	3	0	"
536	7-19	1023A / 1027A	Moon	3.0	0.54	0.68	4.77	0.37		.6	4	0	FO22
537	8-3	1100A / 1105A	Bollinger	2.4	1.03	0.83	4.90	0.86		.6	3	-.01	FO6
538	8-31	1210P / 1215P	"	6.2	1.64	0.61	4.97	1.0		.6	5	0	"
539	9-14	1133A / 1140A	"	2.7	0.81	1.02	4.94	0.83		.6	4	0	"
540	9-28	112P / 118P	"	3.6	1.01	0.70	4.94	0.70		.6	5	0	"

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

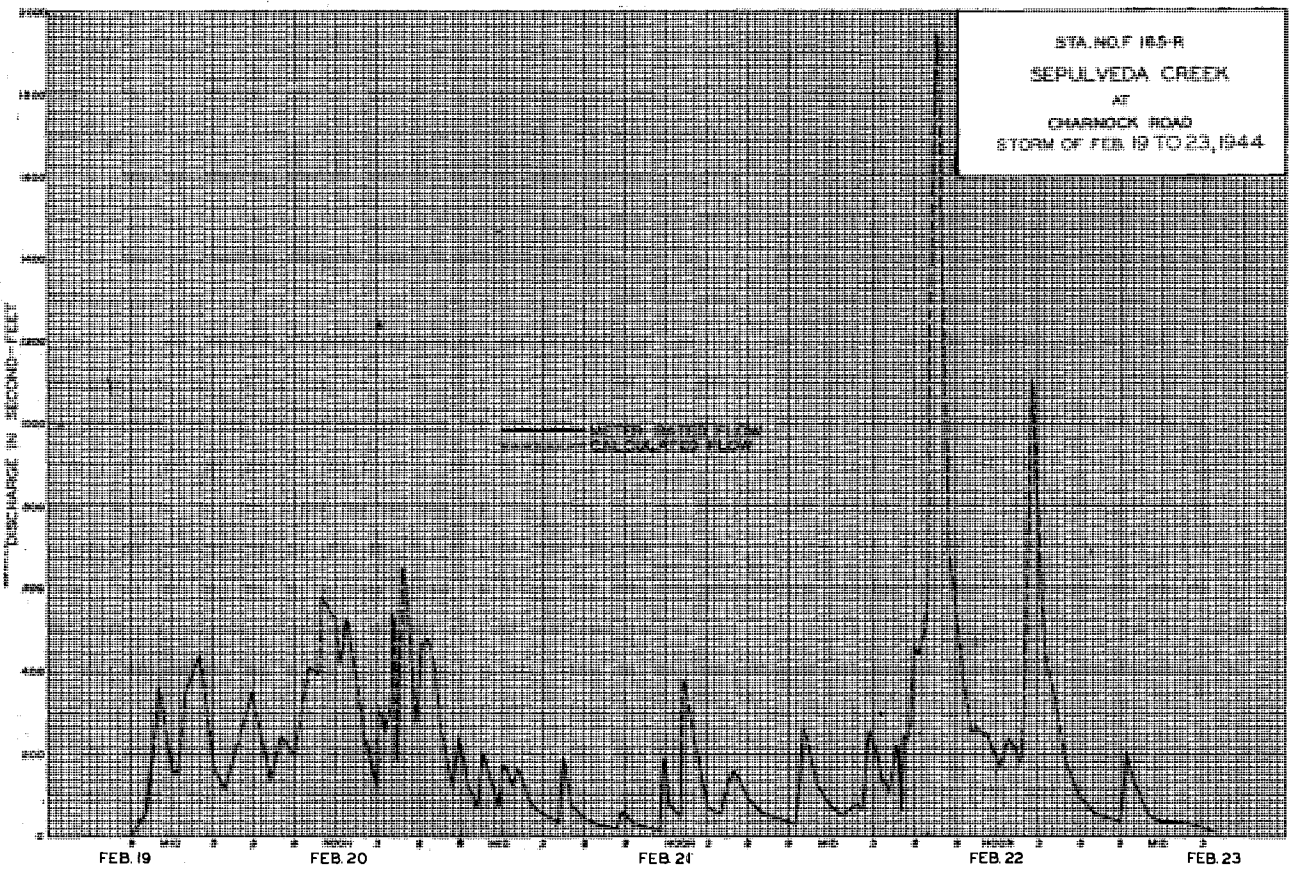
Sta. No. F185-R

Daily discharge, in second-feet of SEPULVEDA CREEK at Charnock Road, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	4.2	1.1	0.2	1.0	106	1.1	0.9	1.1	1.7	1.3	1.3
2	0.7	8	1.0	1.6	0.7	114	1.1	0.7	1.0	1.9	1.6	0.7
3	0.5	4.7	1.0	2.4	9	b 12	1.2	3.4	1.2	2.8	1.8	0.7
4	0.6	2.5	0.8	0.3	7.5	f 31	1.6	1.7	1.5	3.2	1.8	3.0
5	0.7	0.4	24	6	0.2	2.7	1.3	2.4	1.7	3.5	1.7	1.1
6	0.7	0.4	27	5	0.3	1.1	1.1	2.3	2.0	3.7	1.7	2.1
7	0.5	0.4	4.0	0.7	0.3	1.1	1.2	1.9	2.2	4.0	1.7	2.1
8	0.6	0.4	4.6	0.6	7	1.2	1.2	2.8	2.4	5.3	1.7	2.0
9	0.9	0.5	14	0.6	0.7	1.5	0.7	3.4	2.7	4.6	1.6	2.0
10	1.0	0.4	7.4	0.7	0.7	1.0	1.1	2.0	2.7	3.9	1.6	2.0
11	1.0	1.1	34	0.6	0.4	0.9	0.9	1.7	2.8	3.2	1.7	1.8
12	1.2	1.7	0.5	0.7	0.7	0.6	0.4	2.6	2.8	2.4	1.8	1.1
13	1.1	1.1	0.4	0.6	1.2	0.7	0.4	2.4	2.8	1.6	1.9	1.6
14	2.0	0.3	0.4	1.0	1.0	0.5	0.9	2.2	2.9	0.8	2.0	2.0
15	1.9	0.1	0.4	0.9	0.9	0.5	1.7	0.7	2.9	0.8	2.1	2.0
16	1.7	0.1	0.6	0.6	0.6	0.4	1.3	1.0	3.0	0.8	2.2	1.9
17	2.1	9	3.3	0.6	0.6	0.3	1.6	0.8	3.0	0.7	2.3	1.9
18	1.6	0.3	26	0.6	0.4	0.7	1.9	0.7	2.8	0.7	2.3	1.9
19	1.5	0.5	22	0.6	29	3.8	2.2	0.5	2.6	0.7	2.4	1.9
20	1.9	0.4	9.9	0.7	294	4.3	1.6	0.6	2.4	1.0	2.5	1.8
21	1.2	0.4	3.2	0.6	89	4.0	1.6	0.8	2.2	1.2	2.3	1.8
22	0.8	2.3	0.3	0.7	295	4.3	1.6	0.9	2.0	0.8	f 2.6	1.8
23	0.8	0.5	0.4	7.5	b 8.5	2.4	1.5	1.1	1.8	0.7	a 2.8	1.7
24	0.6	0.5	0.5	1.9	b 0.8	3.5	1.9	1.2	1.7	1.3	3.0	1.7
25	0.2	0.4	0.4	0.9	1.0	4.3	2.2	1.4	1.7	1.7	3.2	1.7
26	0.7	0.5	0.4	1.0	29	5.5	8	1.5	1.6	2.1	3.4	1.7
27	0.5	0.7	0.5	1.0	1.0	4.3	3.9	1.4	1.5	2.2	3.6	1.6
28	0.6	1.5	12	0.9	0.7	2.4	1.0	1.3	1.4	2.2	3.8	1.6
29	3.3	2.6	33	1.0	1.8	1.1	1.4	1.3	1.4	2.3	4.0	1.6
30	0.7	1.2	24	4.5		0.9	0.7	1.2	1.3	2.4	a 4.2	1.6
31	0.6		0.5	4.9		0.9		1.1		2.4	f 4.4	
	32.8	47.1	413.3	49.9	783.0	317.9	83.4	47.9	63.1	67.6	75.2	51.7
MEAN	1.06	1.57	13.3	1.61	27.0	10.3	2.78	1.54	2.10	2.18	2.43	1.72
ACRE-FEET	65.	93.	820.	99.	1,550.	631.	165.	95.	125.	134.	149.	103.

Remarks: Mean daily flows interpolated between certain days.

YEAR OR PERIOD MEAN 5.55 ACRE-FEET 4030.



STATION F43-R

SYCAMORE UPPER STORM DRAIN above Solway Street

LOCATION:

Water-stage recorder, lat. 34°09'24", long. 118°13'17", on the right (north) side of concrete drain, approximately 80 feet above Solway Street and about 3 miles northeast of Glendale. Elevation of gage, about 700 feet.

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 3.0 foot by 4.0 foot concrete house and stilling well combined.
Recorder reinstalled October 1, 1935.
Stevens type L recorder was in service from October 1, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 172 second-feet, February 22.
Minimum no flow at various times.
1928-1944
Maximum not determined.
Maximum discharge of record, 340 second-feet, February 22, 1944.
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 SM 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, 19 44

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.
35	2-25	1015A 1020A	Belt & Turner	6.0	0.64	4.69		3.0	Sur.	4	0		205
36	4-28	110P 115P	Turner	3.0	0.24	0.92		0.22	Float	2	0		

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

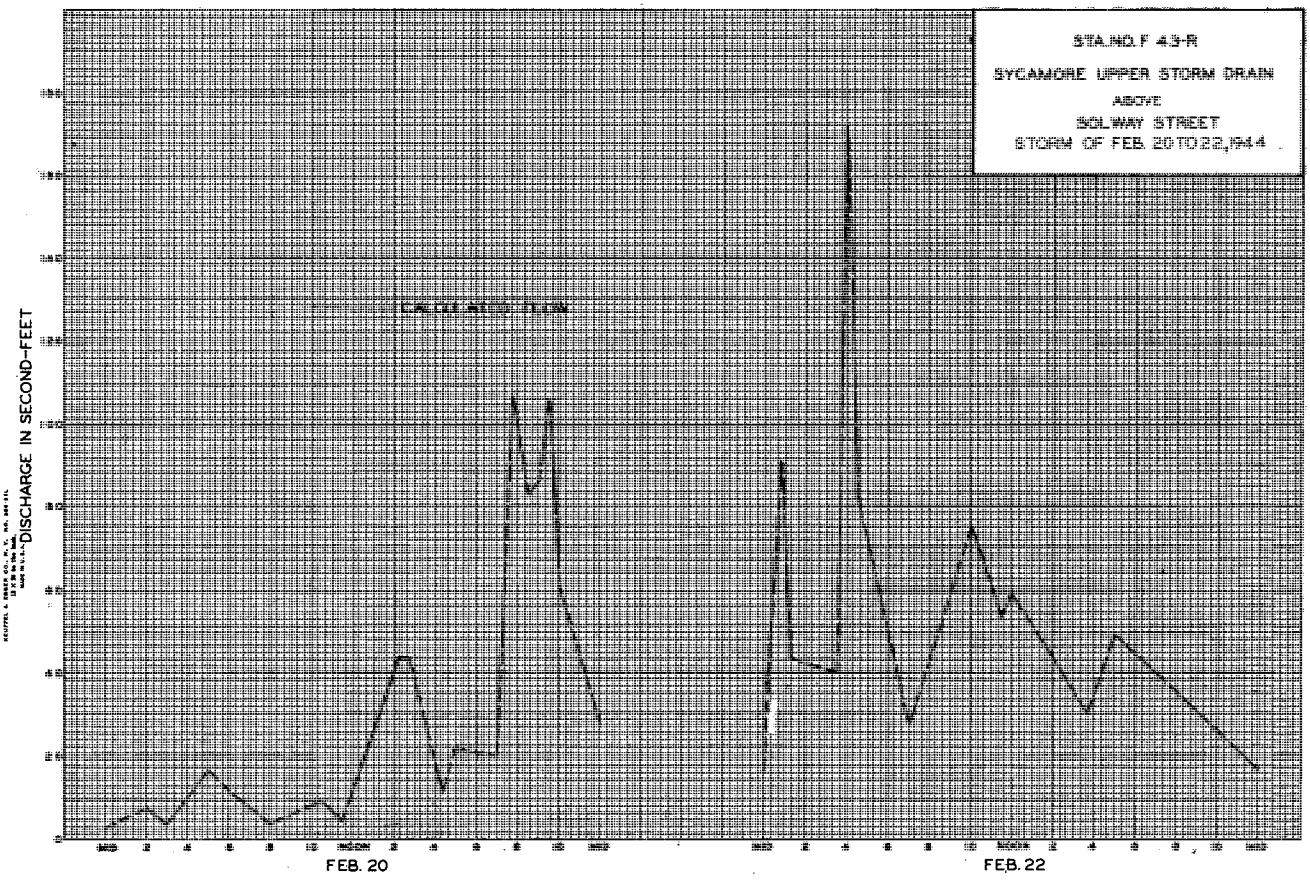
Sta. No. F43-R

Daily discharge, in second-feet of SYCAMORE UPPER STORM DRAIN above Solway Street, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	0.1	a 0.1	7	0.2	0.2	+	+	+	+
2	+	+	+	0.1	a 0.1	11	0.2	0.2	+	+	+	+
3	+	+	+	0.1	a 0.3	5.1	0.2	0.2	+	+	+	+
4	+	+	+	0.2	0.3	3.0	0.2	0.2	+	+	+	+
5	+	+	+	0.3	0.3	4.5	0.2	0.2	+	+	+	+
6	+	0	+	0.2	0.3	2.0	0.2	0.2	+	+	+	+
7	+	0	+	0.1	0.2	1.0	0.4	0.2	+	+	+	+
8	+	0	+	0.1	0.5	0.8	0.4	0.2	+	+	+	+
9	+	0	+	0.1	0.4	0.5	0.3	0.2	+	+	+	+
10	+	0	a 3.0	0.1	0.4	0.5	0.2	0.2	+	+	+	+
11	+	0	a 1.3	0.1	0.4	0.4	0.2	0.2	+	+	+	+
12	+	+	0.2	0.1	0.2	0.4	0.1	0.2	+	+	+	+
13	+	+	0.1	0.1	0.2	0.4	0.2	0.1	+	+	+	+
14	+	+	0.1	0.1	0.2	0.4	0.4	0.1	+	+	+	+
15	+	+	0.1	0.1	0.4	0.3	0.2	0.1	+	+	+	+
16	+	+	0.1	0.2	0.3	0.2	0.2	0.1	+	+	+	+
17	+	+	0.1	0.3	0.4	0.2	0.2	0.1	+	+	+	+
18	+	+	0.5	0.3	0.4	0.2	0.2	+	+	+	+	+
19	+	+	1.4	0.3	0.6	0.2	0.2	+	+	+	+	+
20	+	+	4.1	0.3	2.6	0.2	0.3	+	+	+	+	+
21	+	+	0.5	0.3	12.6	0.2	0.3	+	+	+	+	+
22	+	+	0.3	0.3	4.8	0.2	0.3	+	+	+	+	+
23	+	+	0.2	0.2	15.7	0.2	0.3	+	+	+	+	+
24	+	+	0.2	0.2	5.7	0.2	0.2	+	+	+	+	+
25	+	+	0.2	0.1	3.0	0.2	0.2	+	+	+	+	+
26	+	+	0.2	0.2	1.8	0.2	0.2	+	+	+	+	+
27	+	+	0.2	a 0.1	1.2	0.2	5.1	+	+	+	+	+
28	+	+	0.4	a 0.1	0.6	0.2	0.2	+	+	+	+	+
29	+	+	0.4	a 0.1	0.5	0.2	0.2	+	+	+	+	+
30	+	+	0.5	a 0.1		0.2	0.2	+	+	+	+	+
31	+		0.4	a 0.1		0.2		+		+	+	
	+		14.5	5.1	121.1	40.5	11.9	2.9	+	+	+	+
MEAN	+	+	.47	.16	4.18	1.31	.40	.09	+	+	+	+
ACRE-FEET	+	+	29.	10.	240.	80.	24.	5.8	+	+	+	+

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

YEAR OR PERIOD — MEAN .55 ACRE-FEET 389.



STATION F44-R

SYCAMORE LOWER STORM DRAIN at Adams Square

LOCATION:

Water-stage recorder, lat. 34°08'02", long. 118°14'30", 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 one mile southeast of Glendale. Elevation of gage, about 495 feet.

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, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

December 15, 1927 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 782 second-feet, February 22.
Minimum no flow at various times.
1927-1944
Maximum 2,800 second-feet, estimated, March 2, 1938.
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 7-44

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, 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
57	11-26	215P / 225P	Turner	9.0	2.51	0.96		2.4		.6	6	0	F05
58	12-11	1015A / 1025A	"	9.0	1.77	2.60		4.6		.6	5	0	"
59	12-29	1100A / 1110A	"	9.0	1.49	3.62	0.23	5.4		.6	5	0	"
60	1-7	105P / 110P	"	4.0	0.20	1.50	0.07	0.30	Float	4	0		
61	2-25	930A / 940A	"	9.0	1.42	2.11	0.44	3.0		.6	5	0	F05
62	3-10	125P / 130P	"	9.0	1.00	1.50	0.18	1.5		.6	5	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

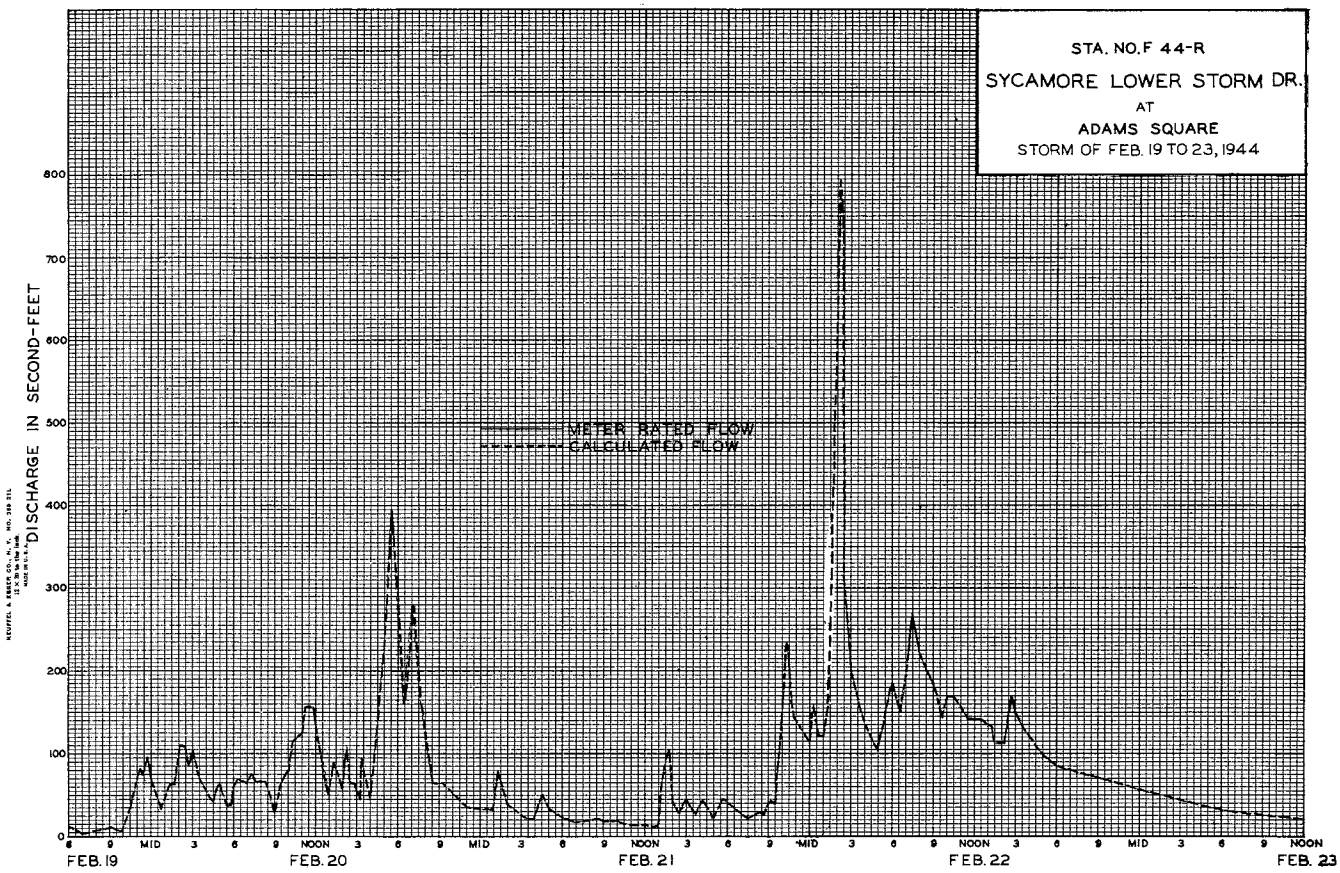
Sta. No. F44-R

Daily discharge, in second-feet of SYCAMORE LOWER STORM DRAIN at Adams Square, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0	+	0.6	d 0.5	32	d 0.5	a 0.3	+	+	+	+
2	+	0	+	0.5	d 0.5	39	d 0.5	a 0.3	+	+	+	+
3	+	+	+	0.6	3.0	10	d 0.5	a 0.3	+	+	+	+
4	+	+	+	0.5	1.1	13	d 0.4	a 0.3	+	+	+	+
5	+	+	+	4.2	d 0.5	6.5	d 0.4	a 0.3	+	+	+	+
6	+	+	+	2.5	d 0.5	4.0	d 0.4	a 0.3	+	+	+	+
7	+	+	+	0.3	d 0.5	3.1	d 0.4	a 0.3	+	+	+	+
8	+	+	+	0.3	6	1.9	d 0.4	a 0.3	+	+	+	+
9	+	+	+	0.3	d 1.0	1.9	d 0.4	a 0.3	+	+	+	+
10	+	+	a 3.0	0.3	d 0.6	1.5	d 0.4	a 0.3	+	+	+	+
11	+	+	a 1.5	0.3	0.9	2.3	d 0.4	a 0.3	+	+	+	+
12	+	+	0.6	0.3	d 0.5	1.9	d 0.4	a 0.3	+	+	+	+
13	+	+	1.1	0.3	d 0.5	1.9	d 0.4	a 0.3	+	+	+	+
14	+	+	d 0.2	0.3	0.8	1.5	d 0.4	a 0.3	+	+	+	+
15	+	+	d 0.2	0.3	1.2	1.5	d 0.4	a 0.3	+	+	+	+
16	+	+	d 0.2	0.3	d 0.5	a 1.2	d 0.3	a 0.3	+	+	+	+
17	+	+	1.3	0.3	0.9	d 1.0	d 0.3	a 0.3	+	+	+	+
18	3.2	+	1.6	0.3	d 0.5	d 1.0	d 0.3	a 0.3	+	+	+	+
19	+	+	1.2	0.3	9.5	d 1.0	d 0.3	a 0.3	+	+	+	+
20	+	+	2.2	0.3	9.4	d 0.9	d 0.3	a 0.2	+	+	+	+
21	+	+	3.1	0.3	4.2	d 0.8	d 0.3	a 0.2	+	+	+	+
22	+	+	1.5	0.3	1.52	d 0.7	a 0.3	a 0.2	+	+	+	+
23	+	+	1.1	2.8	2.4	d 0.6	a 0.3	a 0.2	+	+	+	+
24	+	+	1.5	0.9	6.5	d 0.5	a 0.3	a 0.2	+	+	+	+
25	+	+	1.1	0.5	5.5	d 0.5	a 0.3	a 0.1	+	+	+	+
26	+	+	1.1	0.5	10	d 0.5	a 0.3	a 0.1	+	+	+	+
27	+	+	0.8	0.5	6	d 0.5	a2.6	a 0.1	+	+	+	+
28	+	+	7	0.5	5	d 0.5	a 5	a 0.1	+	+	+	+
29	+	+	1.0	0.5	4.5	d 0.5	a 1.0	a 0.1	+	+	+	+
30	+	+	1.3	0.5		d 0.5	a 0.3	a 0.1	+	+	+	+
31	+		2.3	1.1		d 0.5		a +		+	+	
	3.2	+	141.1	21.5	379.0	133.2	41.9	7.3	+	+	+	+
MEAN	.10	+	4.55	.69	13.1	4.30	1.40	.24	+	+	+	+
ACRE-FEET	6.3	+	280.	43.	752.	264.	83.	14.	+	+	+	+

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

YEAR OR PERIOD MEAN 1.99 ACRE-FEET 1440.



STATION F276-R

THOMPSON CREEK SPREADING GROUNDS INTAKE
at Thompson Creek Dam

LOCATION:

Water-stage recorder, lat. 34°08'22", long. 117°42'37", on the left (east) side and at the downstream side of the 3 foot x 3 foot diversion outlet through Thompson Creek Dam. Elevation of gage, about 1,625 feet.

DRAINAGE AREA:

3.7 square miles.

CHANNEL AND CONTROL:

Channel-3 foot x 3 foot concrete, covered outlet with a transition into a 5 foot diameter semi-circular flume.
Control-transition into semi-circular flume.

DISCHARGE MEASUREMENTS:

All flows measured by wading.

RECORDER:

Installed January 14, 1941 over a 24 inch diameter corrugated iron pipe. A Horizontal Rational recorder was in service from October 1, 1943 to September 30, 1944.

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, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 3.8 second-feet, February 26.
Minimum no flow most of year.
1940-1944
Maximum 21. second-feet, February 24, 1943.
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 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F276-R

DISCHARGE MEASUREMENTS OF THOMPSON CREEK SPREADING GROUNDS INTAKE

AT ~~NEAR~~ Thompson Creek Dam DURING THE YEAR ENDING SEPTEMBER 30, 19~~44~~

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	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
49	2-24	422P / 430P	Brewster & Smith	4.0	1.88	1.70	0.60	3.2		.6	4	0	FG12
50	2-25	1037A / 1045A	"	4.0	1.59	1.32	0.51	2.1		.6	4	0	"
51	3-1	120P / 112P	Brewster	4.0	0.99	1.00	0. 36	0.99		.6	4	0	"
52	3-8	125P / 100P	"	1.5	0.74	0.57	0.30	0.42		.6	3	0	"

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F276-R

Daily discharge, in second-feet of THOMPSON CREEK SPREADING GROUNDS INTAKE at Thompson Creek Dam, for the year ending September 30, 19 44

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0.9	0	0	0	0	0	0
2	0	0	0	0	0	0.9	0	0	0	0	0	0
3	0	0	0	0	0	2.6	0	0	0	0	0	0
4	0	0	0	0	0	2.2	0	0	0	0	0	0
5	0	0	0	0	0	1.5	0	0	0	0	0	0
6	0	0	0	0	0	1.0	0	0	0	0	0	0
7	0	0	0	0	0	0.6	0	0	0	0	0	0
8	0	0	0	0	0	0.4	0	0	0	0	0	0
9	0	0	0	0	0	0.2	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	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	+	0	0	0	0	0	0	0
22	0	0	0	0	0.4	0	0	0	0	0	0	0
23	0	0	0	0	0.1	0	0	0	0	0	0	0
24	0	0	0	0	1.3	0	0	0	0	0	0	0
25	0	0	0	0	1.8	0	0	0	0	0	0	0
26	0	0	0	0	2.0	0	0	0	0	0	0	0
27	0	0	0	0	1.2	0	0	0	0	0	0	0
28	0	0	0	0	1.0	0	0	0	0	0	0	0
29	0	0	0	0	0.7	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	8.5	10.3	0	0	0	0	0	0
Mean	0	0	0	0	0.30	0.33	0	0	0	0	0	0
Acre-Feet	0	0	0	0	17	20	0	0	0	0	0	0

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

Year or Period: Mean 0.05 Acre-Feet 37

STATION F32-R

THOMPSON CREEK below Thompson Creek Dam

LOCATION:

Water-stage recorder, lat. 34°08'22", long. 117°42'32", on the left bank about 50 feet below Thompson Creek Dam tunnel outlet and about 2.5 miles north of Claremont. Elevation of gage, about 1,590 feet (from topographic map).

DRAINAGE AREA:

3.7 square miles.

CHANNEL AND CONTROL:

All flows measured by wading.

RECORDER:

Installed December 21, 1943 over an 18 inch corrugated iron pipe stilling well. A Horizontal Rational recorder was in service from December 21, 1943 to September 30, 1944.

REGULATION AND/OR DIVERSION:

Inflow to Thompson Creek Dam from Cobal and Palmer Canyons can be directed thru a 3 foot by 3 foot outlet tunnel to Thompson Creek Spreading Grounds. Flow thru the diversion tunnel can be controlled by two slide gates so that any flow in excess of the capacity of gate openings is passed over a spillway back to the reservoir. Flow thru the 24 inch outlet valve passes the station. Discharges over the spillway of the dam are not recorded at this station.

RECORDS AVAILABLE:

Recorder records December 21, 1943 to September 30, 1944. For measurements prior to December 21, 1943 see Station F32-S. From March 1928 see records based on dam outflow.

EXTREMES OF DISCHARGE:

1943-1944
No flow.

OPERATION:

Located, constructed, and operated by the Los Angeles County Flood Control District, for measuring outflow from Thompson Creek Dam.

STATION F54-R

TOPANGA CREEK above Mouth of Canyon

LOCATION:

Water-stage recorder, lat. 34°03'52", long. 118°35'12", on the right (west) downstream abutment of the concrete bridge 2 miles north of Topanga Beach and about 6 miles northwest of Santa Monica. Elevation of gage, about 260 feet (from topographic map).

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 F54-R. Removed June 4, 1940. Installed June 5, 1940 at Station F54B-R. Removed December 9, 1941. Reinstalled December 9, 1941 at the approximate former location in a concrete house and well constructed in the abutment of the concrete bridge.
An H.C.F. recorder was in service from October 1, 1943 to September 30, 1944.

REGULATION:

None.

DIVERSIONS:

None.

RECORDS AVAILABLE:

January 1, 1930 to September 30, 1944.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 5,070 second-feet, February 22.
Minimum 0.1 second-feet several days.
1930-1944
Maximum 9,300 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.

OPERATION:

Located, constructed, and operated by the Los Angeles County Flood Control District in co-operation with the United States Geological Survey, Water Resources Branch.

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F54-R

DISCHARGE MEASUREMENTS OF TOPANGA CREEK

above Mouth of Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
455	10-22	254P / 259P	Bollinger	1.6	0.32	0.47	2.42	0.15		.6	3	0	FC6
456	11-18	235P / 240P	"	1.7	0.30	0.57	2.39	0.17		.6	3	0	"
457	12-3	252P / 256P	"	1.7	0.26	0.46	2.40	0.12		.6	3	0	"
458	12-10	1223P / 1234P	Bollinger & Eckert	15.0	10.1	0.39	2.66	3.9		.6	6	0	"
459	12-11	1229P / 1238P	"	16.0	11.5	0.77	2.73	8.8		.6	8	0	"
460	12-18	843A / 846A	"	3.2	0.90	0.87	2.49	0.78		.6	3	0	"
461	12-19	200P / 210P	Bollinger & Robinson	8.9	3.61	0.47	2.54	1.7		.6	8	0	FC6
462	12-21	136A / 153A	Bollinger & Belt	17.0	15.3	2.84	3.11	43.5		.6	11	-.06	"
463	12-22	357P / 405P	Bollinger	13.4	5.74	0.26	2.48	1.5		.6	6	0	"
464	12-29	1012A / 1021A	"	18.5	12.7	0.91	2.80	11.5		.6	8	-.01	"
465	12-29	1026A / 1037A	"	17.5	11.8	0.95	2.79	11.2		.6	9	-.02	"
466	12-31	102P / 110P	"	12.8	7.46	0.62	2.66	4.6		.6	8	0	"
467	1-6	127P / 136P	"	3.7	1.89	0.69	2.54	1.3		.6	6	0	"
468	1-14	132P / 140P	"	3.8	1.18	0.63	2.48	0.74		.6	4	0	"
469	1-21	1252P / 1257P	"	2.7	0.83	0.61	2.45	0.51		.6	4	0	"
470	1-28	238P / 243P	"	2.5	0.78	0.62	2.47	0.48		.6	4	0	"
471	2-3	1042A / 1045A	"	2.7	0.76	0.72	2.36	0.55		.6	3	0	"
472	2-4	117P / 124P	"	12.3	6.57	0.43	2.59	2.8		.6	7	0	"
473	2-10	213P / 219P	"	3.0	0.85	0.89	2.43	0.76		.6	4	0	"
474	2-18	218P / 224P	"	2.6	0.71	0.82	2.37	0.58		.6	4		"
475	2-20	512A / 538A	Bollinger & Eckert	39.0	62.4	4.92	4.00	307.		.6	7	-.02 +.01	"
476	2-20	653A / 720A	"	45.0	84.6	5.49	4.42	464		.6	8	-.05	"
477	2-20	152P / 212P	"	43.0	101.0	7.06	4.48	713.		.6	9	-.06	"
478	2-21	805A / 817A	"	36.5	48.8	2.35	3.60	117.		.6	7	-.01	"
479	2-22	400A / 430A	Bollinger & Eckert	55.0	235.	10.0	6.70	2380.		.6	9	-.80	FC6
480	2-22	700A / 735A	"	58.0	295.	13.1	8.05	3870.		.6	11	-1.30	"
481	2-22	240P / 255P	"	56.0	156.	5.87	5.69	918.		.6	11	-.10	"
482	2-23	355P / 413P	Bollinger	46.5	48.8	2.0	3.47	96.0		.6	16	-.02	"
483	2-25	340P / 400P	"	26.0	27.6	0.85	2.98	23.4		.6	14	0	"
484	3-2	412A / 435A	Bollinger & Eckert	50.0	121.	4.95	5.32	599.		.6	10	-.07	"
485	3-2	552A / 615A	"	50.0	104.	4.05	5.02	421.		.6	10	-.03	"
486	3-2	707A / 724A	"	49.0	105.	4.17	4.90	438.		.6	10	-.07	"
487	3-2	1244P / 102P	"	45.0	70.1	3.14	4.15	220.		.6	9	-.04	"
488	3-3	415P / 432P	Bollinger	34.5	44.6	1.37	3.34	61.3		.6	14	-.01	"
489	3-5	926A / 938A	Bollinger & Eckert	35.0	33.8	1.15	3.19	39.0		.6	13	0	"
490	3-9	1047A / 1057A	Bollinger	21.8	18.3	0.95	2.90	17.3		.6	10	0	"
491	3-17	203P / 211P	"	16.6	9.17	0.79	2.75	7.2		.6	8	0	"
492	3-24	200P / 207P	"	8.5	11.2	0.48	2.67	5.4		.6	7	+.02	"
493	3-31	215P / 223P	"	7.7	6.92	0.51	2.66	3.5		.6	7	0	"
494	4-7	240P / 250P	"	10.7	7.07	0.40	2.68	2.8		.6	7	0	"
495	4-14	207P / 220P	"	9.6	6.98	0.34	2.66	2.4		.6	7	0	"
496	4-21	242P / 250P	"	7.0	2.45	0.94	2.62	2.3		.6	6	0	"
497	4-28	340P / 348P	"	7.0	2.59	0.93	2.79	2.4		.6	6	0	"
498	5-5	155P / 203P	"	5.2	1.91	0.73	2.73	1.4		.6	5	0	"
499	5-12	130P / 138P	"	5.2	2.03	0.69	2.68	1.4		.6	5	0	"
500	5-19	202P / 212P	"	4.5	1.30	0.62	2.63	0.80		.6	6	0	"
501	5-26	240P / 290P	"	4.7	1.24	0.61	2.62	0.76		.6	5	0	"
502	6-2	145P / 152P	"	5.5	1.67	0.78	2.58	1.2		.6	6	0	"
503	6-14	1130A / 1136A	Bollinger	5.0	1.41	0.45	2.64	0.64		.6	5	0	FC6
504	6-23	215P / 222P	"	5.2	1.27	0.34	2.62	0.43		.6	5	0	"
505	6-30	1212P / 1217P	"	2.7	0.60	0.40	2.60	0.24		.6	4	0	"
506	7-7	210P / 213P	"	2.7	0.58	0.36	2.60	0.21		.6	3	0	"
507	7-19	140P / 143P	Moon	1.7	0.48	0.50	2.54	0.24		.6	3		FC22

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

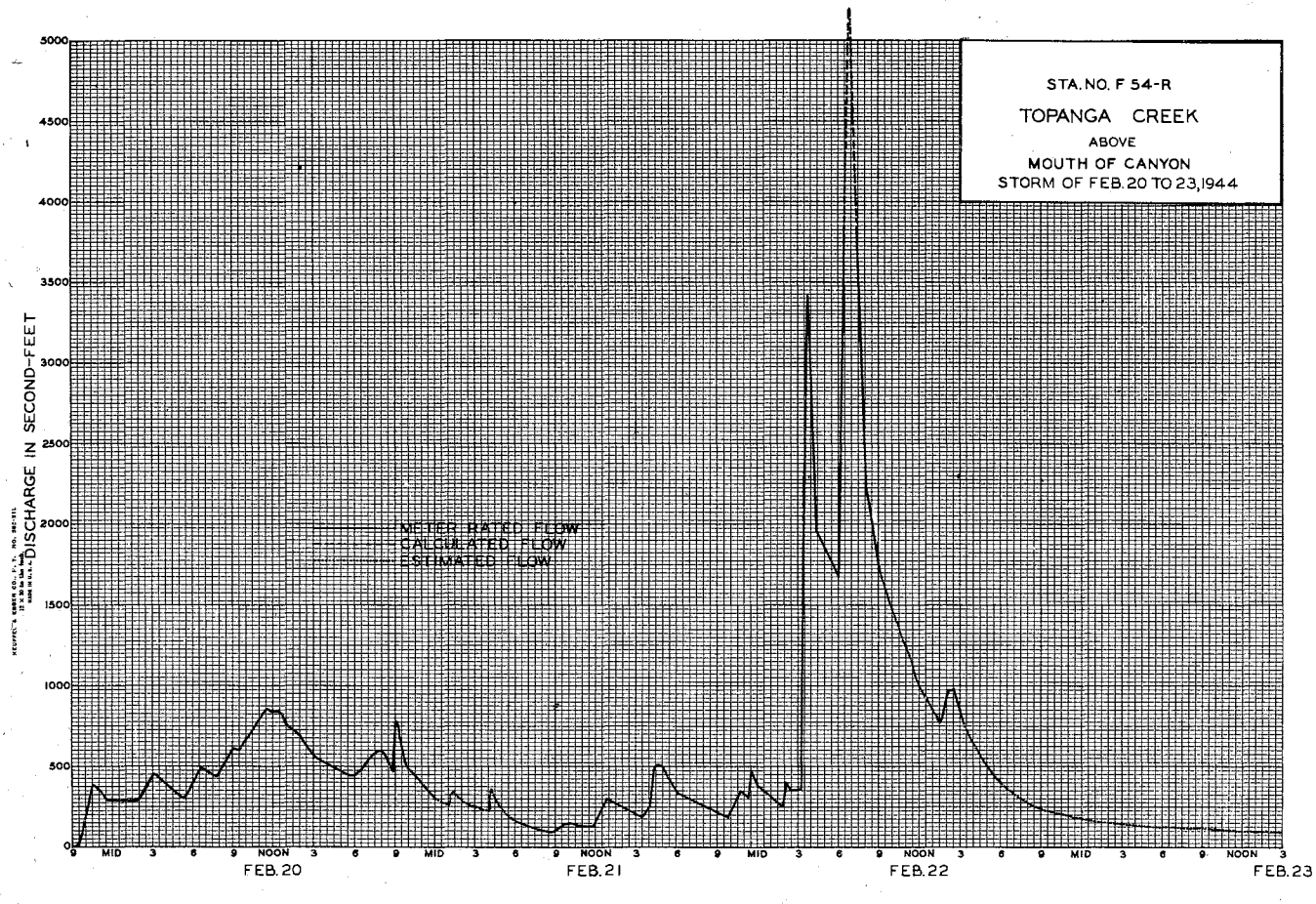
Sta. No. F54-R

Daily discharge, in second-feet of TOPANGA CREEK above Mouth of Canyon, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	a 0.1	a 0.1	0.2	2.4	b 0.9	162	b 3.4	1.7	b 1.2	b 0.2	b 0.2	b 0.1
2	0.1	a 0.1	0.1	1.9	b 0.6	309	b 3.3	1.7	b 1.2	b 0.2	b 0.1	b 0.1
3	0.1	a 0.1	0.1	1.7	0.6	b 72	b 3.2	1.7	b 1.2	b 0.2	b 0.1	b 0.1
4	0.1	0.1	0.1	1.5	5.5	49	b 3.1	1.7	b 1.1	b 0.2	b 0.1	b 0.1
5	0.1	0.1	0.2	1.3	1.3	38	b 3.0	1.5	b 1.1	b 0.2	b 0.1	b 0.1
6	0.1	0.1	0.6	1.3	0.9	28	b 2.9	b 1.4	b 1.0	b 0.2	b 0.1	b 0.1
7	0.1	0.1	b 0.2	1.1	0.6	23	b 2.8	b 1.4	b 0.9	b 0.2	b 0.1	b 0.1
8	0.1	0.1	b 0.2	0.9	1.7	19	b 2.8	b 1.4	b 0.9	b 0.2	b 0.1	b 0.1
9	0.1	0.1	3.7	0.6	1.9	18	b 2.7	b 1.4	b 0.7	b 0.2	b 0.1	b 0.1
10	0.1	0.1	4.4	0.9	1.1	15	b 2.6	b 1.4	b 0.8	b 0.2	b 0.1	b 0.1
11	0.1	0.1	6.5	0.9	0.5	14	b 2.5	b 1.4	b 0.7	b 0.2	b 0.1	b 0.1
12	0.1	0.1	b 0.9	0.6	0.5	13	b 2.5	b 1.4	b 0.7	b 0.2	b 0.1	b 0.1
13	0.1	0.1	b 0.5	0.9	0.4	15	b 2.4	b 1.3	b 0.6	b 0.2	b 0.1	b 0.1
14	0.1	0.1	b 0.5	0.6	0.5	9.5	b 2.4	b 1.2	b 0.6	b 0.2	b 0.1	b 0.1
15	0.1	0.1	b 0.3	0.6	0.5	9	b 2.4	b 1.1	b 0.6	b 0.2	b 0.1	b 0.1
16	a 0.2	0.1	b 0.2	0.5	0.4	7.5	b 2.4	b 1.1	b 0.6	b 0.2	b 0.1	b 0.1
17	a 0.2	0.2	0.2	0.4	0.5	7	b 2.4	b 1.0	b 0.5	b 0.2	b 0.1	b 0.1
18	a 0.2	0.2	2.4	0.5	0.5	7	b 2.4	b 0.9	b 0.5	b 0.2	b 0.1	b 0.1
19	a 0.2	0.2	2.8	0.5	30	8	b 2.3	b 0.8	b 0.5	b 0.2	b 0.1	b 0.1
20	a 0.2	0.2	54	0.4	521	7	b 2.3	b 0.8	b 0.5	b 0.2	b 0.1	b 0.1
21	a 0.2	0.2	b 13	0.5	1 248	6	b 2.3	b 0.8	b 0.4	b 0.2	b 0.1	b 0.1
22	a 0.2	0.2	b 1.7	0.5	1110	5	b 2.3	b 0.8	b 0.4	b 0.2	b 0.1	b 0.1
23	a 0.2	0.2	1.1	0.5	b 114	5	b 2.3	b 0.8	b 0.4	b 0.2	b 0.1	b 0.1
24	a 0.2	0.2	0.5	0.6	b 40	b 5.5	b 2.3	b 0.8	b 0.4	b 0.2	b 0.1	b 0.1
25	a 0.2	0.2	0.4	0.6	b 24	b 5.5	b 2.3	b 0.8	b 0.3	b 0.2	b 0.1	b 0.1
26	a 0.2	0.1	b 0.2	0.4	27	b 5	b 2.3	b 0.8	b 0.3	b 0.2	b 0.1	b 0.1
27	a 0.2	0.1	b 0.2	0.4	16	b 4.8	f 24	b 0.9	b 0.3	b 0.2	b 0.1	b 0.1
28	a 0.2	0.1	2.3	0.4	12	b 4.5	b 2.8	b 0.9	b 0.3	b 0.2	b 0.1	b 0.1
29	a 0.1	0.1	141	0.6	13	b 4.2	b 2.4	b 1.0	b 0.2	b 0.2	b 0.1	b 0.1
30	a 0.1	0.2	9.5	b 2.1		b 3.9	b 1.9	b 1.0	b 0.2	b 0.2	b 0.1	b 0.1
31	a 0.1		7	b 2.2		b 3.6		b 1.1		b 0.2	b 0.1	
	4.4		2550		21739		98.7		191		3.2	
		4.0		283		883.0		36.0		6.2		3.0
MEAN	0.14	0.13	8.23	0.91	75.0	28.5	3.29	1.16	0.64	0.20	0.10	0.10
ACRE-FEET	8.7	7.9	506.	56.	4310.	1750.	196.	71.	38.	12.	6.3	6.0

Remarks:

YEAR OR PERIOD — MEAN 9.60 — ACRE-FEET 6970.



STATION F252-R

VERDUGO CHANNEL at Estelle Avenue

LOCATION:

Water-stage recorder, lat. 34°09'23", long. 118°16'23", on the right (north) side of channel at Estelle Avenue, 800 feet east of San Fernando Road, and about 2 miles northwest of Glendale. Elevation of zero gage height, 464.78 feet.

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, 1943 to September 30, 1944.

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, 1944. For earlier records see Stations F9-R, Verdugo at Glen Oaks Boulevard, and F244-R, Verdugo at Don Carlos Street.

EXTREMES OF DISCHARGE:

1943-1944
Maximum 3,160 second-feet, February 22.
Minimum 0.1 second-feet, several days during year.
1935-1944
Maximum 4,400 second-feet, estimated, March 2, 1938.
Minimum no flow at various times.

ACCURACY:

Fair.

OPERATION:

Located, and constructed by Corps of Engineers, U.S. Army, and operated by Los Angeles County Flood Control District in co-operation with Corps of Engineers, U.S. Army.

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F252-R

DISCHARGE MEASUREMENTS OF VERDUGO CHANNEL

AT ~~MIK~~ Estelle Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19~~44~~

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.
54	11-5	155P / 200P	Bollinger	5.3	0.46	2.83	0.12	1.3	Floats		4	-.01	
55	12-6	915A / 920A	Turner	8.0	0.68	2.65	0.18	1.8	Floats		4	0	
56	12-11	905A / 910A	Turner & Smith	14.0	1.76	5.17	0.31	9.1	"		5	+.01	
57	12-18	935A / 945A	" "	15.0	2.66	6.54	0.30	17.4		.6	6	0	FC5
58	12-29	1218P / 1224P	Turner	14.0	2.18	6.70	0.31	14.6		.6	6	0	"
59	1 -7	1235P / 1240P	"	5.0	0.30	2.57	0.17	0.77	Float		5	0	
60	1-14	1215P / 1220P	"	4.0	0.38	2.32	0.14	0.88	"		4	0	
61	2-4	345P / 350P	"	5.0	0.39	3.08	0.18	1.2	"		4	0	
62	2-10	1220P / 1225P	"	5.0	0.42	3.33	0.18	1.4	"		3	0	
63	2-18	930A / 935A	"	5.0	0.48	3.75	0.18	1.8	"		3	0	
64	2-25	1120A / 1130A	Turner & Belt	16.0	1.88	5.85	0.36	11.0		.6	5	0	FC5
65	3-10	1220P / 1225P	Turner	14.0	1.36	4.78	0.26	6.5	Surf.		4	0	"
66	3-24	1220P / 1225P	"	6.0	0.50	2.80	0.23	1.4	Float		4	0	
67	4-7	1225P / 1230P	"	6.0	0.44	2.50	0.22	1.1	"		4	0	
68	4-28	1145A / 1150A	"	8.0	0.82	3.17	0.22	2.6	"		5	0	
69	6-1	850A / 855A	"	5.0	0.34	2.47	0.23	0.84	Float		4	0	
70	6-16	313P / 318P	Bollinger	5.5	0.45	3.56	0.18	1.6	"		4	0	
71	6-28	335P / 340P	"	5.3	0.35	3.42	0.19	1.2	"		3	0	
72	7-6	211P / 217P	"	4.7	0.38	2.63		1.0	"		4	0	
73	7-20	115P / 118P	Turner	6.0	0.36	2.78		1.0	"		2	0	
74	8-24	900A / 905A	"	6.0	0.42	2.33		1.0	"		4	0	

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

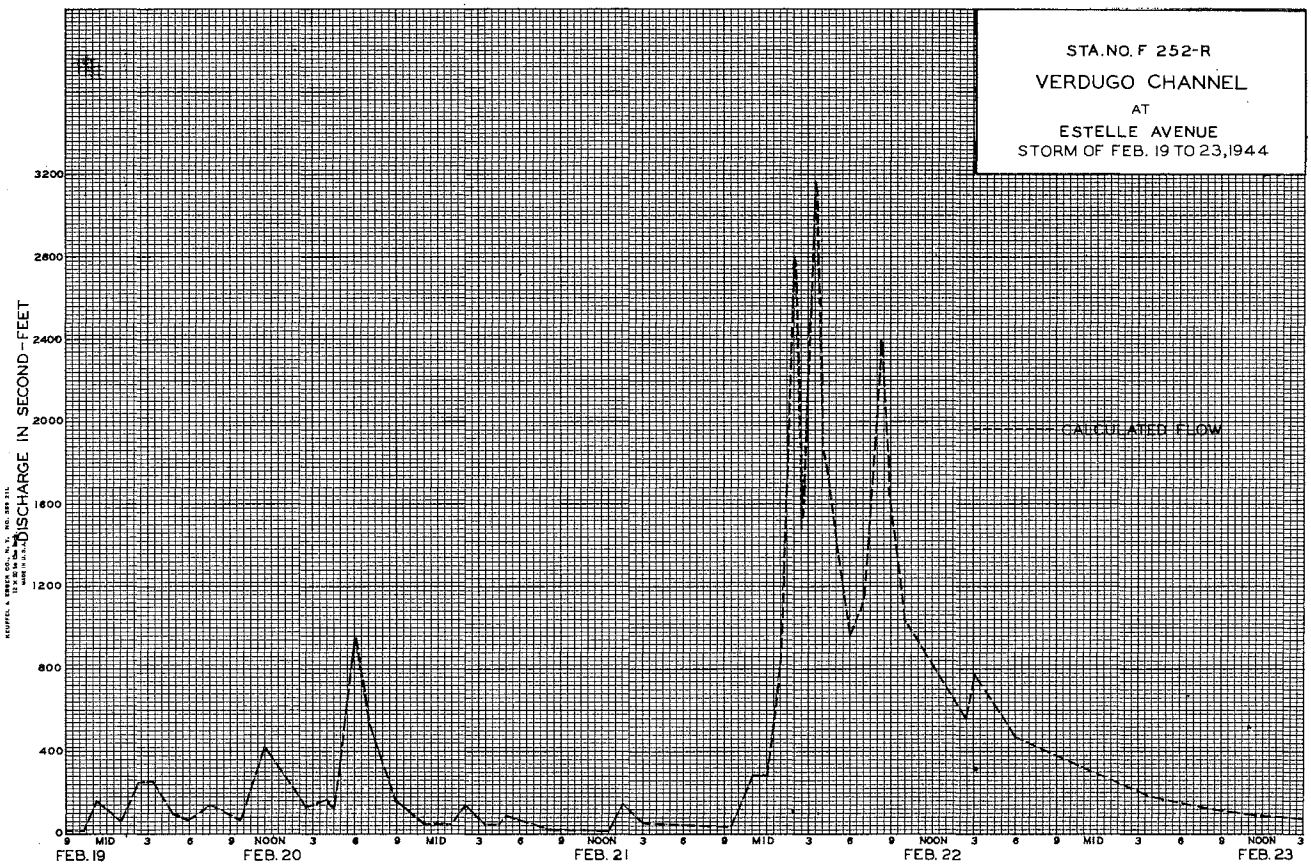
Sta. No. F252-R

Daily discharge, in second-feet of VERDUGO CHANNEL at Estelle Avenue, for the year ending September 30, 19~~44~~

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	0.8	1.7	0.6	0.2	109	2.1	1.1	0.8	b 1.0	a 1.0	a 1.0
2	1.4	0.8	1.4	0.8	0.2	114	1.7	1.1	0.8	b 1.0	a 1.0	a 1.0
3	1.4	1.1	1.1	0.8	4.5	28	1.4	0.8	0.8	b 1.0	a 1.0	a 1.0
4	1.1	1.1	1.1	0.8	3.5	36	1.4	0.4	0.4	b 1.0	a 1.0	a 1.0
5	0.8	1.4	4.0	1.1	0.8	25	1.4	0.4	0.4	b 1.0	a 1.0	a 1.0
6	1.4	1.4	7.5	3.6	0.6	17	1.1	0.4	0.4	b 1.0	a 1.0	a 1.0
7	1.4	1.1	0.8	0.8	0.6	16	1.1	0.4	0.8	b 1.0	a 1.0	a 1.0
8	1.1	0.8	0.6	1.1	10	10	1.1	0.6	1.1	b 1.0	a 1.0	a 1.0
9	1.1	0.8	1.2	1.1	4.9	7.5	0.8	0.6	1.7	b 1.0	a 1.0	a 1.0
10	0.8	1.1	31	1.4	1.7	6.5	0.8	0.6	1.1	b 1.0	a 1.0	a 1.0
11	1.4	1.1	13	1.4	1.1	7.5	0.8	0.6	1.1	b 1.0	a 1.0	a 1.0
12	1.1	1.1	1.1	0.8	0.6	6.5	0.8	0.4	1.1	b 1.0	a 1.0	a 1.0
13	1.1	1.4	1.1	0.8	0.3	6.5	0.8	0.4	1.4	b 1.0	a 1.0	a 1.0
14	1.4	1.1	1.4	0.8	0.6	7.5	0.8	0.4	1.7	b 1.0	a 1.0	a 1.0
15	1.4	0.6	1.4	1.1	1.7	4.9	0.8	0.4	1.7	b 1.0	a 1.0	a 1.0
16	1.1	0.6	1.1	0.8	0.8	3.0	0.6	0.2	1.7	b 1.0	a 1.0	a 0.9
17	1.1	0.8	1.1	1.1	0.4	2.5	0.6	0.2	1.7	b 1.0	a 1.0	a 0.9
18	3.4	0.4	20	1.1	1.4	3.0	1.1	0.3	1.7	b 1.0	a 1.0	a 0.9
19	1.7	0.4	10	1.1	15	2.5	1.4	0.3	1.4	b 1.0	a 1.0	a 0.9
20	1.1	0.8	44	1.1	225	2.1	1.1	0.2	1.1	b 1.0	a 1.0	a 0.9
21	1.4	0.8	20	1.4	65	1.4	0.6	0.4	0.8	a 1.0	a 1.0	a 0.9
22	1.7	0.8	3.0	1.1	998	1.4	0.6	0.8	0.6	a 1.0	a 1.0	a 0.9
23	1.1	1.1	1.7	3.4	128	1.4	0.6	0.4	0.4	a 1.0	a 1.0	a 0.9
24	0.6	1.1	1.7	3.6	b 60	1.4	0.6	0.3	0.4	a 1.0	a 1.0	a 0.9
25	0.8	1.4	1.7	2.1	b 12	1.4	0.6	0.3	0.6	a 1.0	a 1.0	a 0.9
26	0.8	1.4	1.7	0.8	39	1.4	3.7	0.2	0.6	a 1.0	a 1.0	a 0.9
27	1.1	1.1	1.7	0.6	10	1.1	27	0.6	1.1	a 1.0	a 1.0	a 0.9
28	1.7	1.4	8	0.4	5.5	0.8	3.0	0.6	1.1	a 1.0	a 1.0	a 0.9
29	1.7	1.4	13	0.4	4.2	0.8	2.1	0.8	b 1.1	a 1.0	a 1.0	a 0.9
30	0.4	1.4	14	0.6		1.1	1.7	0.8	b 1.1	a 1.0	a 1.0	a 0.9
31	0.4		1.5	2.0		1.4		0.8		a 1.0	a 1.0	
	38.4	30.6	212.6	38.6	1595.6	428.6	62.2	15.8	30.7	31.0	31.0	28.5
MEAN	1.24	1.02	6.86	1.25	55.0	13.8	2.07	.51	1.02	1.00	1.00	.95
ACRE-FEET	76.	61.	422.	77.	3160.	850.	123.	31.	61.	61.	61.	57.

Remarks:

YEAR OR PERIOD MEAN 6.95 ACRE-FEET 5040.



STATION F47-R

WALNUT CREEK at Covina Boulevard

LOCATION:

Water-stage recorder, lat. 34°03'58", long. 117°59'00", on the downstream side of Covina Boulevard bridge, about 2 miles southwest of Baldwin Park. Elevation of gage, about 312 feet. This station is 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 Covina Boulevard.

RECORDER:

Installed December 15, 1928 over an 18 inch diameter corrugated iron pipe stilling well.
An H.C.F. continuous recorder was in service from October 1, 1943 to September 30, 1944.

REGULATION:

Flow partially regulated by Big Dalton Dam, San Dimas Dam, Puddingstone 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 Dalton Wash, and Big Dalton Wash, San Dimas Wash, and Walnut Creek.

DIVERSIONS:

Some water diverted for irrigation.

RECORDS AVAILABLE:

December 15, 1928 to September 30, 1944. (For records prior to December 15, 1928, see State Division of Water Rights Bulletins.)

EXTREMES OF DISCHARGE:

1943-1944
Maximum 4,220 second-feet, February 22.
Minimum no flow most of year.
1928-1944
Maximum 8,060 second-feet, January 1, 1934.
Minimum no flow most of each year.

ACCURACY:

Fair.

OPERATION:

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F47-R

DISCHARGE MEASUREMENTS OF WALNUT CREEK

AT ~~NEAR~~ Covina Boulevard 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. BED. NO.	G. HT. CHANGE TOTAL	METER NO.
212	12-11	1033A / 1045A	Brewster	18.0	4.42	1.15	2.91	5.1		.6	5	-.02	FC12
213	1-14	215P / 227P	"	14.0	2.88	1.01	2.85	2.9		.6	4	0	"
214	2-20	910A / 915A	Haig & Kasimoff	8.0	1.70	0.94	2.86	1.6		.6	4	0	FC35
215	2-21	1250P / 100P	Brewster	6.0	1.17	0.74	2.84	0.86		.6	4	-.01	FC12
216	2-21	254P / 306P	"	66.0	52.3	3.69	3.77	193.		.6	7	0	"
217	2-22	826A / 836A	Haig & Kasimoff	35.5	39.7	4.11	3.58	163.		.6	10	+.18	"
218	2-22	1040A / 1100A	Green & Smith	99.0	342.	10.6	6.05	3620.	Float		10	+.12	
219	2-23	337P / 345P	Brewster & Smith	16.0	4.32	0.88	2.72	3.8		.6	5	0	FC12
220	2-24	900A / 910A	"	10.0	4.40	0.77	2.70	3.4		.6	5	0	"
221	3-2	825A / 835A	Mellen & Kasimoff	48.0	49.7	3.74	3.58	186.		.6	8	-.10	FC28
222	3-3	1115A / 1130A	Brewster	32.0	18.1	1.47	3.05	26.6		.6	6	0	FC12

F. C. Dist. Form 52 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

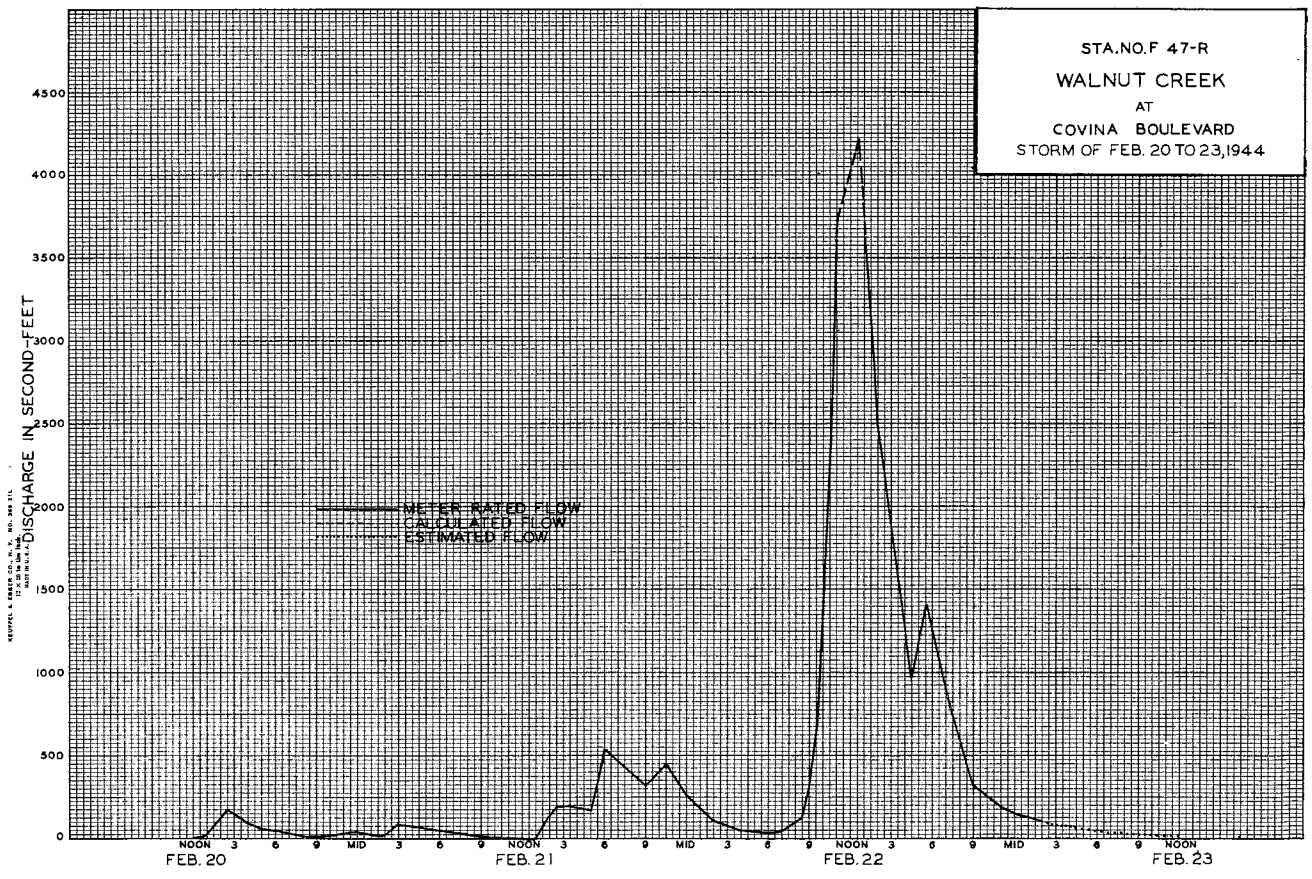
Sta. No. F47-R

Daily discharge, in second-feet of WALNUT CREEK at Covina Boulevard, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	6.5	0	0	0	0	0	0
2	0	0	0	0	0	66	0	0	0	0	0	0
3	0	0	0	0	+	21	0	0	0	0	0	0
4	0	0	0	0	6.5	18	0	0	0	0	0	0
5	0	0	0	0	0	29	0	0	0	0	0	0
6	0	0	0	0	0	3.8	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	3.1	0	0	0	0	0	0	0
9	0	0	0	0	+	0	0	0	0	0	0	0
10	0	0	.5	0	0	0	0	0	0	0	0	0
11	0	0	2.6	+	0	0	0	0	0	0	0	0
12	0	0	+	0.4	0	0	0	0	0	0	0	0
13	0	0	0	0.8	0	0	0	0	0	0	0	0
14	0	0	0	3.0	0	0	0	0	0	0	0	0
15	0	0	0	2.8	0	0	0	0	0	0	0	0
16	0	0	0	1.6	0	0	0	0	0	0	0	0
17	0	0	0	1.6	0	0	0	0	0	0	0	0
18	0	0	0	0.8	0	0	0	0	0	0	0	0
19	0	0	4.2	0.7	0	0	0	0	0	0	0	0
20	0	0	0	1.1	3.0	0	0	0	0	0	0	0
21	0	0	18	2.8	154	0	0	0	0	0	0	0
22	0	0	0	2.5	1010	0	0	0	0	0	0	0
23	0	0	0	2.2	b32	0	0	0	0	0	0	0
24	0	0	0	2.2	1.9	0	0	0	0	0	0	0
25	0	0	0	0.7	0	0	0	0	0	0	0	0
26	0	0	0	0.5	0.3	0	0	0	0	0	0	0
27	0	0	0	+	0	0	2.4	0	0	0	0	0
28	0	0	0	0.1	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		1.3	0		0		0		0	0	
	0	0	68.9	23.8	1237.8	144.3	2.4	0	0	0	0	0
MEAN	0	0	2.22	0.77	42.7	4.66	0.80	0	0	0	0	0
ACRE-FEET	0	0	137.	47.	2456.	286.	4.8	0	0	0	0	0

Remarks: += 0.05 C.F.S. or less.

YEAR OR PERIOD — MEAN 4.26 — ACRE-FEET 2930.



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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F116-S

DISCHARGE MEASUREMENTS OF ARROYO DITCH

AT below Headgate 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.
375	10-1	100P / 112P	Brewster	7.0	13.6	1.57		21.4		.6	4		FC12
376	10-8	1255P / 104P	"	7.0	12.9	1.50		19.4		.6	4		"
377	10-15	120P / 130P	"	7.0	13.6	1.51		20.6		.6	4		"
378	10-22	100P / 111P	"	7.0	10.7	1.58		16.9		.6	4		"
379	10-29	1245P / 1257P	"	7.0	12.1	1.64		19.8		.6	4		"
380	11-5	1252P / 105P	"	7.0	12.6	1.69		21.3		.6	4		"
381	11-12	1245P / 1257P	"	7.0	12.6	1.70		21.4		.6	4		"
382	11-19	1245P / 1257P	"	7.0	11.4	1.56		17.8		.6	4		"
383	11-26	115P / 125P	"	7.0	11.8	1.61		19.0		.6	4		"
384	12-3	1215P / 1226P	"	7.0	12.0	1.48		17.7		.6	4		"
385	12-10	1100A / 1109A	"	7.0	6.35	0.60		3.8		.6	4		"
386	12-17	1210P	"					0					
387	12-24	1246P	"					0					
388	12-31	120P	"					0					
389	1-7	1230P	"					0					
390	1-14	1230P	"					0					
391	1-21	205P	"					0					
392	1-28	240P	"					0					
393	2-10	420P	"					0					
394	2-18	1240P	"					0					
395	3-10	220P	"					0					
396	3-24	1230P	"					0					
397	3-31	1230P	"					0					
398	4-7	100P	"					0					
399	4-14	1235P	Brewster					0					
400	4-21	120P	"					0					
401	4-28	115P	"					0					
402	5-5	1235P	"					0					
403	5-12	1135A / 1145A	Brewster & Wood	7.5	8.30	1.94		16.1		.6	4		FC12
404	5-19	130P / 140P	Brewster	7.0	13.2	1.89		25.0		.6	4		"
405	5-26	110P / 120P	"	7.0	14.9	1.74		26.0		.6	4		"
406	6-2	130P / 140P	"	7.0	10.0	1.38		13.8		.6	4		"
407	6-8	110P / 116P	Brewster & Bonadiman	7.0	13.4	1.82		24.4		.6	4		"
408	6-15	1250P / 1256P	Bonadiman	8.0	14.2	1.39		19.8		.6	4		FC19
409	6-22	120P / 130P	"	7.6	14.8	1.70		25.2		.6	6		"
410	6-29	150P / 200P	Brewster	7.0	13.7	1.61		22.1		.6	4		FC12
411	7-6	135P / 145P	"	7.0	14.6	1.68		24.6		.6	4		"
412	7-13	110P / 120P	"	7.0	12.6	1.79		22.6		.6	4		"
413	7-20	130P / 140P	"	7.0	10.5	1.81		19.0		.6	4		"
414	7-27	1240P / 1250P	"	7.0	11.9	1.92		22.8		.6	4		"
415	8-3	100P / 110P	"	7.0	14.7	1.84		27.0		.6	4		"
416	8-10	1145A / 1157A	"	7.0	12.8	1.87		24.0		.6	4		"
417	8-17	1228P / 1239P	"	7.0	15.4	1.68		25.9		.6	4		"
418	8-24	1146A / 1158A	"	7.0	16.1	1.64		26.4		.6	4		"
419	8-31	1245P / 1257P	"	7.0	16.8	1.23		20.6		.6	4		"
420	9-7	1140A / 1150A	"	7.0	16.8	1.30		21.9		.6	4		"
421	9-14	1155A / 1205P	"	7.0	18.2	1.23		22.4		.6	4		"
422	9-21	1145A / 1155A	Brewster	7.0	18.2	1.26		23.0		.6	4		FC12
423	9-28	1220P / 1230P	"	7.0	16.8	1.33		22.3		.6	4		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F58-S

DISCHARGE MEASUREMENTS OF ARROYO SECO

AT Avenue 26. 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.
86	10-7	320P / 327P	Bollinger	6.0	1.90	1.31		2.5		.6	5		FC6
87	10-15	207P / 215P	"	4.1	1.09	1.19		1.3		.6	6		"
88	10-21	330P / 335P	"	6.0	0.80	1.15		0.92		.6	5		"
89	11-5	412P / 417P	"	5.3	0.80	1.01		0.81		.6	4		"
90	11-12	330P / 335P	"	4.7	0.68	1.47		1.0		.6	4		"
91	11-19	340P / 346P	"	5.7	0.87	1.49		1.3		.6	4		"
92	11-26	140P / 145P	Turner	4.0	0.78	1.04		0.81		.6	4		FC5
93	12-18	1110A / 1115A	Turner & Smith	13.0	2.45	4.24		10.4		.6	5		"
94	12-29	915A / 920A	Turner	60.0	7.45	2.07		15.4		.6	5		"
95	1-14	1245P / 1250P	"	4.0	0.88	1.67		1.5		.6	4		"
96	2-18	1143A / 1148A	"	5.0	1.05	1.52		1.6		.6	4		"
97	3-10	230P / 245P	"	64.0	23.0	5.30		122.		.6	8		"
98	3-17	125P / 130P	"	8.0	1.64	2.32		3.8		.6	4		"
99	4-7	315P / 320P	"	7.0	1.87	1.49		2.8		.6	4		"
100	5-5	235P / 245P	"	9.0	2.55	1.49		3.8		.6	5		"
101	6-16	440P / 448P	Bollinger	8.0	2.01	1.49		3.0		.6	5		FC6
102	6-29	330P / 336P	"	7.0	1.95	1.33		2.6		.6	5		"
103	7-6	333P / 342P	"	5.5	1.27	1.65		2.1		.6	7		"
104	7-13	305P / 310P	Turner	13.0	3.28	3.32		10.9		.5	5		FC5

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F157-S

DISCHARGE MEASUREMENTS OF ARROYO SEQUIT

AT Roosevelt Highway 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.
36	3-9	120P / 133P	Bollinger	14.0	10.2	2.59		26.4		.6	11		FC6

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F87-S

DISCHARGE MEASUREMENTS OF BANTA DITCH

AT Head of Pipe Line 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.
349	10-1	1230P / 1240P	Brewster	4.5	7.30	3.21		23.4		.6	4		FC12
350	10-8	1222P / 1233P	"	4.5	7.78	3.37		26.2		.6	4		"
351	10-15	1250P / 100P	"	4.5	8.35	3.14		26.2		.6	4		"
352	10-22	1235P / 1245P	"	4.5	6.10	3.41		20.8		.6	4		"
353	10-29	1220P / 1230P	"	4.5	6.19	3.65		22.6		.6	4		"
354	11-5	1228P / 1237P	"	4.5	7.10	3.13		22.2		.6	4		"
355	11-12	1220P / 1230P	"	4.5	6.22	3.46		21.5		.6	4		"
356	11-19	1225P / 1235P	"	4.5	7.90	2.99		23.6		.6	4		"
357	11-26	1250P / 100P	"	4.5	6.10	3.66		22.3		.6	4		"
358	12-3	1155A / 1205A	"	4.5	7.78	3.08		24.0		.6	4		"
359	12-10	1045A / 1052A	"	4.5	8.35	3.72		31.1		.6	4		"
360	12-17	1150A / 1158A	"	4.5	1.71	1.58		2.7		.6	4		"
361	12-24	1222P / 1231P	"	4.5	1.25	0.88		1.1		.6	4		"
362	12-31	1250P / 1257P	"	4.5	1.24	0.60		0.75		.6	4		"
363	1-7	1215P	"					0					
364	1-14	1210P	"					0					
365	1-21	150P / 155P	Haig	8.8	10.5	0.44		4.6		.6	6		FC35
366	1-28	140P / 146P	Green & Haig	4.3	9.72	0.69		6.7		.6	5		"
367	2-4	1235P / 1245P	" "	11.0	13.7	0.55		7.6		.6	7		"
368	2-10	407P / 413P	Green	10.8	12.0	0.46		5.5		.6	7		FC42
369	2-18	1215P / 1225P	Brewster	4.5	2.74	1.10		3.0		.6	4		FC12
370	3-10	200P	"					0					
371	3-24	1210P	"					0					
372	3-31	1215P	"					0					
373	4-7	1245P	Brewster					0					
374	4-14	1215P / 1223P	"	4.5	4.75	2.95		14.0		.6	4		FC12
375	4-21	1250P / 105P	"	4.5	5.65	2.96		16.7		.6	4		"
376	4-28	1250P / 100P	"	4.5	5.71	2.59		14.8		.6	4		"
377	5-5	1210P / 1220P	"	4.5	5.65	2.60		14.7		.6	4		"
378	5-12	1115A / 1125A	Brewster & Wood	4.5	5.95	2.96		17.6		.6	4		"
379	5-19	110P / 120P	Brewster	4.5	7.45	3.48		25.9		.6	4		"
380	5-26	1240P / 1250P	"	4.5	8.35	2.66		22.2		.6	4		"
381	6-2	105P / 115P	"	4.5	7.46	2.53		18.9		.6	4		"
382	6-8	1240P	"					0					
383	6-15	1220P / 1227P	Bonadiman	4.0	11.8	2.30		27.1		.6	4		FC19
384	6-22	1255P / 104P	"	4.2	12.6	2.40		30.2		.6	6		"
385	6-29	125P / 135P	Brewster	4.5	6.55	3.80		24.9		.6	4		FC12
386	7-6	110P / 120P	"	4.5	6.55	3.73		24.4		.6	4		"
387	7-13	1240P / 1250P	"	4.5	6.15	4.21		25.9		.6	4		"
388	7-20	1230P / 1240P	"	4.5	6.15	4.07		25.0		.6	4		"
389	7-27	1210P / 1220P	"	4.5	6.55	3.83		25.1		.6	4		"
390	8-3	1230P / 1240P	"	4.5	7.90	3.16		25.0		.6	4		"
391	8-10	1120A / 1130A	"	4.5	6.25	3.88		24.2		.6	4		"
392	8-17	1202P / 1215P	"	4.5	6.55	3.64		23.8		.6	4		"
393	8-24	1125A / 1135A	"	4.5	7.00	4.16		29.1		.6	4		"
394	8-31	1220P / 1230P	"	4.5	8.35	3.07		25.6		.6	4		"
395	9-7	1115A / 1125A	"	4.5	5.80	4.07		23.6		.6	4		"
396	9-14	1130A / 1140A	Brewster	4.5	6.10	4.08		24.9		.6	4		FC12
397	9-21	1125A / 1135A	"	4.5	6.55	4.15		27.2		.6	4		"
398	9-28	1145A / 1155A	Brewster & Stunden	4.5	6.10	3.92		23.9		.6	4		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F202-S

DISCHARGE MEASUREMENTS OF BIG DALTON CREEK

AT NEAR above Sierra Madre Avenue 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.
82	1-30	1115A	Brewster					No Flow					
83	2-25	920A / 926A	Brewster & Smith	8.0	2.60	0.88		2.3		.6	4		FC12
84	3-2	1205P / 1212P	Brewster	12.0	5.10	1.27		6.5		.6	4		"
85	3-4	906A / 917A	"	11.0	6.70	1.87		12.5		.6	5		"
86	3-9	1020A / 1028A	"	6.0	2.05	0.73		1.5		.6	4		"
87	3-23	840A	"					No Flow					
88	4-6	1000A	"					"					
89	4-13	1045A	"					"					
90	4-20	930A	"					"					
91	4-27	845A	"					"					
92	5-4	1215P	"					"					
93	5-11	1100A	"					"					
94	5-18	1105A	"					"					
95	5-25	1030A	"					"					
96	6-1	1000A	"					"					

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F143-S

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK

AT NEAR above Pallette Creek 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.
76	10-23	1130A / 1145A	Luce	17.0	11.2	0.96		10.8		.6	9		FC39
77	12-1	315P / 325P	"	16.0	11.7	0.88		10.3		.6	9		"
78	1-1	340P / 350P	"	14.0	5.80	1.41		8.2		.6	7		"
79	3-18	225P / 240P	"	26.0	20.9	3.39		70.8		.6	10		"
80	5-17	425P / 435P	"	18.5	21.0	3.69		77.5		.6	6		"
81	6-30	320P / 335P	"	15.5	14.0	2.56		35.9		.6	8		"
82	7-14	340P / 355P	"	16.5	11.4	2.49		28.4		.6	9		"
83	8-15	240P / 245P	Luce & Haig	14.5	9.94	2.04		20.3		.6	8		"

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F183-S

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK

AT Palmdale-Victorville Road 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.
24	12-1	140P / 150P	Luce	4.5	1.60	1.38		2.2		.6	6		FC39
25	5-17	135P / 150P	"	24.0	21.3	4.18		89.1		.6	9		"
26	7-14	215P / 225P	"	15.0	10.8	1.60		17.3		.6	9		"
27	8-15	330P	Luce & Haig	12.0	5.42	0.92		5.0		.6	7		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F141-S

DISCHARGE MEASUREMENTS OF ELIZABETH LAKE CREEK

AT NEAR above Dry Gulch 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
53	10-29	130P / 135P	Luce	3.5	0.46	0.50		0.23		.6	4		FC39
54	2-10	200P / 210P	"	8.3	2.76	2.32		6.4		.6	7		"
55	4-28	300P / 310P	"	16.2	9.27	2.90		26.9		.6	8		"
56	6-29		"	9.5	3.94	1.37		5.4		.6	6		"
57	8-10	240P / 245P	"	4.5	2.01	0.57		1.2		.6	5		"
58	9-21	200P / 207P	"	7.5	2.21	0.88		1.9		.6	5		"

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, 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
61	2-20	940A / 946A	Brewster	6.0	2.12	0.75	0.28	1.6		.6	4	0	FC12
62	3-2	1224P / 1230P	"	8.0	3.12	2.10	0.37	6.5		.6	4	0	"
63	3-4	927A / 936A	"	7.0	2.14	1.34	0.30	2.9		.6	4	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F100-S

DISCHARGE MEASUREMENTS OF MAIN SPREADING CANAL

AT NEAR mouth of San Gabriel Canyon 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
108	2-17	1250P / 100P	Moon	13.3	20.3	2.27	2.16	46.0		.6	9	0	FC22
109	7-20	1125A / 1135A	"	12.5	12.9	1.35	1.58	17.4		.6	8	-.10	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F112-S

DISCHARGE MEASUREMENTS OF MILL CREEK

AT NEAR above Big Tujunga Creek 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
87	10-1	100P / 105P	Blakely	2.5	0.78	1.80		1.4		.6	5		FC32
88	10-15	111P / 121P	"	8.5	1.71	0.82		1.4		.6	7		"
89	11-19	1030A / 1035A	Mellen	4.0	0.81	1.36		1.1		.6	4		FC28
90	11-27	1007A / 1015A	"	7.0	1.95	0.87		1.7		.6	5		"
91	12-10	1200N / 1217P	Blakely	10.0	3.64	1.15		4.2		.6	6		FC32
92	1-14	925A / 931A	"	4.8	1.67	1.86		3.1		.6	5		"
93	2-4	1035A / 1041A	"	10.0	2.54	1.50		3.8		.6	8		"
94	4-14	1035A / 1044A	"	11.5	7.25	1.89		13.7		.6	8		"
95	4-27	152P / 200P	"	15.5	7.94	2.13		16.9	.5	.6	8		"
96	5-11	1125A / 1135A	Turner	13.0	5.53	1.52		8.4		.6	8		FC5
97	5-17	100P / 110P	"	13.0	5.45	1.47		8.0		.6	7		"
98	6-2	1015A / 1021A	Blakely	11.5	4.98	1.55		7.7	& .5	.6	7		FC32
99	6-13	1227P / 1237P	Bollinger	11.0	8.30	0.70		5.8		.6	9		FC6
100	6-17	1015A / 1020A	Blakely	11.5	4.72	1.57		7.4	.6 & .5	.6	6		FC32
101	6-29	1054A / 1105A	Mellen	10.0	2.93	1.40		4.1		.6	8		FC28
102	7-6	953A / 1007A	"	11.0	3.96	0.83		3.3		.6	8		"
103	7-12	157P / 203P	Blakely	9.4	2.74	1.12		3.1	.5 & .6	.6	8		FC32
104	7-20	938A / 946A	"	9.8	2.89	1.11		3.2		.5	9		"
105	7-28	943A / 951A	"	9.8	3.06	1.01		3.1		.5	9		"
106	8-3	145P / 151P	"	9.0	2.52	0.87		2.2		.5	6		"
107	8-11	1140A / 1148A	"	9.5	2.69	0.91		2.5		.5	9		"
108	8-17	420P / 424P	"	9.0	2.27	0.82		1.9		.5	4		"
109	8-26	936A / 942A	Blakely	9.5	2.58	0.93		2.4		.5	9		FC32
110	8-31	133P / 139P	"	9.0	2.26	0.80		1.8		.5	8		"
111	9-7	1235P / 1240P	"	9.1	2.39	0.79		1.9		.5	7		"
112	9-14	1010A / 1028A	Gillespie & Blakely	9.5	2.34	0.77		1.8		.5	8		"
113	9-21	122P / 128P	Blakely	9.2	2.45	0.86		2.1		.5	8		"
114	9-28	1230P / 1238P	"	9.0	2.22	0.70		1.6		.5	8		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F196-S

DISCHARGE MEASUREMENTS OF PACOIMA CREEK

AT NEAR Maclay Avenue 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
23	12-17	1210P	Luce	30.0	37.5	2.60		97.5	Float & X Sec.	.5			

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F197-S

DISCHARGE MEASUREMENTS OF PACOIMA CREEK

AT NEAR Arleta Street, above Spreading Grounds 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
43	12-27	420P / 435P	Luce	26.5	15.4	3.17		48.8		.6	12		FC39
44	1-6	200P	Koch	12.5	6.92	1.75	4.00	12.1		.6	8		FC34
45	1-7	210P / 224P	"	15.0	11.45	2.65	4.01	30.3		.6	8	-.10	"
46	2-29	925A / 935A	Luce	30.0	38.5	3.22		124.		.6	10		FC39

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F18-S

DISCHARGE MEASUREMENTS OF PACOIMA WASH

AT NEAR Foothill Boulevard 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	12-17	1250P	Jordan & Luce	20.0	14.0	2.03		28.4	Sec. & Float		7		
2	12-27	205P	Luce	26.0	28.9	2.24		64.7		.6	13		FC39

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, 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
61	10-23	1210P / 1220P	Luce	4.5	1.12	1.16		1.3		.6	4		FC39
62	5-7	505P / 510P	"	Two Channels				13.2		.6	11		"
63	8-15	300P / 305P	Luce & Haig	6.5	3.29	1.15		3.8		.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, 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	METH OD	MEAS SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
72	10-23	1100A / 1105A	Luce	2.5	0.55	1.58		0.87		.6	5		FC39
73	12-1	250P / 300P	"	3.1	0.65	1.45		0.94		.6	5		"
74	1-1	405P / 410P	"	3.2	0.77	1.30		1.0		.6	4		"
75	5-17	445P / 450P	"	8.5	4.87	2.59		12.6		.6	5		"
76	6-30	400P / 405P	"	6.5	2.06	1.94		4.0		.6	5		"
77	7-14	310P / 315P	"	7.0	2.14	1.96		4.2		.6	7		"
78	8-15	230P / 236P	"	8.5	2.30	0.91		2.1		.6	8		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F248-S

DISCHARGE MEASUREMENTS OF RIO HONDO

AT NEAR Arrow Highway 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.
1	5-15	230P / 250P	Moon & Jordan	27.0	40.8	5.12		209.		.6	9		FC22
2	5-18	310P / 325P	Moon & Haig	52.0	57.5	4.00		230.		.6	12		FC35

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F218-S

DISCHARGE MEASUREMENTS OF SAN DIMAS WASH

AT NEAR below Puddingstone Diversion 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.
11	12-23	250P / 300P	Brewster	8.0	3.93	1.65	0.59	6.5		.6	5	0	FC12
12	1-10	500P / 512P	"	8.0	2.12	0.80	0.22	1.7		.6	8	0	"
13	1-20	1205P / 1210P	Haig	7.3	1.51	0.73	0.19	1.1		.6	8		FC35
14	1-27	1133A / 1144A	Haig & Green	7.3	1.42	0.64	0.18	0.91		.6	9	0	"
15	2-3	130P / 135P	Green	7.0	1.27	0.60	0.15	0.76		.6	6		FC42
16	2-9	113P / 118P	"	7.0	1.49	0.74	0.15	1.1		.6	8		"
17	2-16	1020A / 1031A	Brewster	6.0	2.54	0.43	0.15	1.1		.6	6	0	FC12
18	2-21	1015A / 1025A	"	9.5	5.39	2.10	0.92	11.3		.6	9	0	"
19	2-21	1040A / 1055A	"	10.0	5.98	2.40	1.10	14.4		.6	10	0	"
20	3-1	410P / 425P	"	14.0	11.2	2.18	1.46	24.4		.6	9	0	"
21	3-16	905A / 920A	"	10.0	8.57	1.94	1.14	16.6		.6	6	0	"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F93-S

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER

AT NEAR above Lang R.R. Station 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.
32	10-1	1245P / 1250P	Luce & van der Goot	7.8	1.99	1.31		2.6		.6	8		FC39
33	10-29	1040A / 1050A	Luce	8.0	2.02	1.34		2.7		.6	8		"
34	4-28	1215P / 1225P	"	24.5	11.0	3.62		39.8		.6	9		"
35	6-29	230P / 240P	"	10.5	5.85	2.87		16.8		.6	7		"
36	8-10	125P / 130P	"	5.5	3.73	2.66		9.9		.6	6		"
37	9-21	1250P / 100P	"	6.5	3.47	1.77		6.1		.6	5		"

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 Castaic Junction 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.
29	10-1	250P / 300P	Luce & van der Goot	17.5	8.55	1.45		12.4		.6	11		FC39
30	10-29	225P / 235P	Luce	18.5	9.44	1.42		13.4		.6	11		"
31	2-10	125P / 147P	"	19.0	13.8	3.01		41.6		.6	10		"
32	6-29		"	40.0	12.7	1.76		22.4		.6	11		"

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, 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.
4	1-2	950A / 1000A	Moon	24.0	51.4	1.61		82.8		.6	8		FC22
5	3-13	925A / 945A	Moon & van der Goot	Two Channels				204.		.6	16		"
6	5-13	300P / 320P	Lindsay	39.0	53.4	1.84		98.4		.6	14		FC36
7	5-13	315P / 337P	Moon & Jordan	39.0	61.5	1.76		108.		.6	13		FC22
8	5-15	155P / 215P	Moon	42.0	80.2	2.33		187.		.6	14		"
9	5-18	230P / 247P	Moon & Haig	42.0	84.3	2.84		239.		.6	14		FC35
10	5-29	250P / 300P	Moon & Bollinger	41.0	76.5	2.33		178.		.6	11		FC22
11	6-12	410P / 430P	Moon	34.0	38.4	4.17		152.		.6	12		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F191-S

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT NEAR Ramona Boulevard 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.
1	3-10	120P / 135P	Moon	35.0	24.0	2.89		69.3		.6	13		FC22
2	5-13	1000A / 1010A	Brewster & Bonadiman	28.0	22.0	2.32		51.0		.6	7		FC12
3	5-25	105P / 130P	Brewster	40.0	37.0	1.48		54.7		.6	8		"
4	6-10	940A / 1000A	Moon	39.0	49.3	1.53		75.3		.6	11		FC22
5	6-15	940A / 952A	Bonadiman	38.0	33.9	1.04		35.4		.6	9		FC19
6	6-22	925A / 936A	"	42.0	42.5	1.21		51.4		.6	9		"
7	6-25	1130A / 1155A	Jordan	38.0	38.4	1.21		46.5		.6	14		FC21
8	6-27	945A / 1000A	"	39.0	39.3	1.14		44.8		.6	13		"
9	7-5	1140A / 1146A	Moon	10.0	2.78	1.33		3.7		.6	6		FC22
10	7-7	844A / 900A	Moon & Jordan	Two Channels				15.1		.6	8		"

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, 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.
162	10-1	1115A / 1120A	Bollinger	5.7	1.38	0.94		1.3		.6	7		FC6
163	10-8	127P / 133P	"	5.6	1.40	0.93		1.3		.6	7		"
164	10-14	100P / 106P	"	4.8	1.37	0.88		1.2		.6	6		"
165	10-22	353P / 400P	"	5.0	1.18	0.93		1.1		.6	8		"
166	10-28	107P / 114P	"	4.8	1.05	0.85		0.89		.6	7		"
167	11-4	335P / 343P	"	4.1	1.01	0.94		0.95		.6	7		"
168	11-10	500P / 509P	"	4.9	0.97	1.12		1.1		.6	7		"
169	11-18	325P / 332P	"	3.5	0.90	1.33		1.2		.6	4		"
170	11-26	1247P / 1252P	"	2.6	0.61	1.38		0.84		.6	4		"
171	12-3	142P / 148P	"	2.8	0.60	1.13		0.68		.6	5		"
172	12-17	320P / 326P	"	3.4	0.94	0.89		0.84		.6	4		"
173	12-23	1237P / 1243P	"	5.2	1.07	1.21		1.3		.6	5		"

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 above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.	D. HT. CHANGE TOTAL	METER NO.
174	12-31	155P / 200P	Bollinger	9.6	1.48	0.62		0.92		.6	5		FC6
175	1-6	232P / 238P	Bollinger	4.8	0.33	3.33		1.1	Float	s	3		
176	1-14	1134A / 1139A	"	5.0	0.40	3.75		1.5	"		4		
177	1-21	142P / 150P	"	5.0	0.32	3.12		1.0	"		4		
178	1-28	107P / 112P	"	5.0	0.30	2.70		0.81	"		4		
179	2-3	158P / 205P	"	4.3	0.25	3.40		0.85	"		4		
180	2-10	253P / 300P	"	4.1	0.33	3.64		1.2	"		4		
181	2-18	258P / 305P	"	4.2	0.31	3.00		0.93	"		4		
182	3-9	333P / 340P	"	7.5	0.67	4.33		2.9	"		4		
183	3-17	435P / 442P	"	6.3	0.49	4.09		2.0	"		4		
184	3-24	427P / 436P	"	7.2	0.71	4.79		3.4	"		4		
185	3-31	1122A / 1130A	"	7.0	0.58	4.48		2.6	"		5		
186	4-7	130P / 136P	Bollinger	7.0	0.59	4.41		2.6	Float	s	4		
187	4-14	1140A / 1147A	"	6.5	0.67	4.78		3.2	"		4		
188	4-21	113P / 120P	"	6.5	0.69	4.06		2.8	"		4		
189	4-28	216P / 224P	"	7.5	0.66	4.85		3.2	"		5		
190	5-5	1128A / 1134A	"	7.2	0.65	4.62		3.0	"		4		
191	5-12	1050A / 1057A	"	7.0	0.70	3.71		2.6	"		5		
192	5-19	312P / 318P	"	8.2	0.88	3.64		3.2	"		5		
193	5-26	1133A / 1142A	"	7.2	0.80	4.62		3.7	"		6		
194	6-2	1122A / 1132A	"	8.0	0.74	3.78		2.8	"		6		
195	6-9	1125A / 1133A	"	6.0	0.62	3.71		2.3	"		5		
196	6-14	947A / 956A	"	6.5	0.66	3.64		2.4	"		5		
197	6-23	1128A / 1136A	"	5.8	0.57	4.04		2.3	"		5		
198	6-30	1033A / 1040A	"	7.0	0.80	3.38		2.7	"		4		
199	7-7	1220P / 1226P	"	6.5	0.77	3.12		2.4	"		5		
200	7-19	1200P / 1205P	Moon	6.0	0.66	3.03		2.0	"		4		
201	7-26	230P / 234P	"	6.0	0.58	3.10		1.8	"		4		
202	8-3	108P / 115P	Bollinger	6.5	0.62	3.00		1.9	"		4		
227	11-4	347P / 353P	Bollinger	4.7	1.04	1.06		1.1		.6	7		FC6
228	11-10	513P / 518P	"	4.5	1.23	1.22		1.5		.6	8		"
229	11-18	335P / 340P	"	3.3	1.18	1.10		1.3		.6	4		"
230	11-26	1255P / 103P	"	3.7	1.04	1.04		1.1		.6	6		"
231	12-3	152P / 200P	"	4.1	1.01	1.15		1.2		.6	7		"
232	12-17	327P / 332P	"	4.2	1.03	1.21		1.2		.6	5		"
233	12-23	1244P / 1250P	"	3.2	1.26	1.75		2.2		.6	5		"
234	12-31	205P / 212P	"	8.0	2.06	1.44		3.0		.6	6		"
235	1-6	245P / 252P	"	6.1	1.53	1.35		2.1		.6	6		"
236	1-14	1144A / 1150A	"	5.9	1.20	1.66		2.0		.6	6		"
237	1-21	155P / 201P	"	4.8	1.23	1.33		1.6		.6	6		"
238	1-28	115P / 126P	"	3.5	0.95	1.66		1.6		.6	6		"
239	2-3	210P / 217P	"	3.0	0.90	1.91		1.7		.6	5		"
240	2-10	304P / 311P	"	4.2	1.17	1.54		1.8		.6	6		"
241	2-18	310P / 315P	"	5.2	1.10	1.06		1.2		.6	5		"
242	3-9	349P / 357P	"	Two Channels				12.0	Float	s	6		
243	3-4	438P / 446P	"	6.2	2.47	2.70		6.7		.6	6		FC6
244	3-17	445P / 452P	"	6.0	2.51	2.39		6.0		.6	6		"
245	3-31	1133A / 1142A	Bollinger	5.9	2.38	2.28		5.4		.6	6		FC6
246	4-7	140P / 152P	"	6.0	2.16	1.90		4.1		.6	6		"
247	4-14	1152A / 1202P	"	5.8	2.08	1.96		4.1		.6	6		"
248	4-21	125P / 133P	"	5.5	2.72	1.69		4.6		.6	6		"
249	4-28	228P / 236P	"	5.3	2.00	2.65		5.3		.6	5		"
250	5-5	1138A / 1148A	"	7.0	1.86	2.04		3.8		.6	7		"
251	5-12	1104A / 1113A	"	7.1	2.13	1.83		3.9		.6	7		"
252	5-19	323P / 333P	"	5.0	1.76	2.04		3.6		.6	6		"
253	5-26	1145A / 1153A	"	5.5	1.75	2.00		3.5		.6	6		"
254	6-2	1140A / 1149A	"	5.5	1.70	1.94		3.3		.6	6		"
255	6-14	1004A / 1012A	"	7.5	2.03	2.17		4.4		.6	6		"
256	6-23	1140A / 1148A	"	3.8	1.36	2.06		2.8		.6	5		"
257	6-30	1045A / 1055A	"	4.0	1.47	1.97		2.9		.6	7		"
258	7-7	1230P / 1237P	"	5.2	1.63	2.09		3.4		.6	5		"
259	7-19	1130A / 1138A	Moon	6.0	1.52	1.71		2.6		.6	7		FC22
260	7-26	210P / 215P	"	5.5	1.46	1.54		2.2		.6	5		"
261	8-3	118P / 126P	Bollinger	4.7	1.24	1.76		2.2		.6	5		FC6

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 below Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.	D. HT. CHANGE TOTAL	METER NO.
222	10-1	1126A / 1134A	Bollinger	5.4	1.74	0.98		1.7		.6	9		FC6
223	10-8	137P / 145P	"	5.4	1.62	0.93		1.5		.6	9		"
224	10-14	113P / 120P	"	4.7	1.38	1.08		1.5		.6	8		"
225	10-22	406P / 413P	"	4.6	1.00	1.60		1.6		.6	7		"
226	10-28	120P / 127P	"	4.5	0.92	1.20		1.1		.6	7		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F125-S

DISCHARGE MEASUREMENTS OF SANTIAGO CREEK

at above Little Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.	D. HT. CHANGE TOTAL	METER NO.
40	1-1	130P / 140P	Luce	5.0	1.19	0.66		0.78		.6	5		F039
41	2-24	505P / 512P	Luce & Hemphill	Two Channels				21.4		.6	11		"
42	3-18	600P / 610P	Luce	17.0	9.63	2.51		24.2		.6	7		"
43	6-30	1230P / 1235P	"	4.5	1.53	0.72		1.10		.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, Cate Ditch below sluice gate.

M = the measured, or estimated, discharge from the Cate 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 3M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F66B-8

FACTOR "E"
DISCHARGE MEASUREMENTS OF TRI-CITY OUTFALL SEWER
above Rio Hondo
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.	RATINGS	METH OD	MEAS SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
272	10-1	750A / 802A	Brewster	11.0	4.84	1.49		7.2		.6	6		FC12
273	10-8	747A / 758A	"	11.0	4.68	1.56		7.3		.6	6		"
274	10-15	802A / 811A	"	10.0	5.20	1.44		7.5		.6	5		"
275	10-22	803A / 816A	"	9.0	5.55	1.57		8.7		.6	5		"
276	10-29	750A / 802A	"	10.0	5.80	1.59		9.2		.6	5		"
277	11-5	808A / 822A	"	10.0	6.00	1.58		9.5		.6	5		"
278	11-12	750A / 800A	"	10.0	5.40	1.63		8.8		.6	5		"
279	11-19	750A / 802A	"	9.0	4.90	1.54		7.6		.6	5		"
280	11-26	758A / 810A	"	10.0	5.40	1.54		8.3		.6	5		"
281	12-3	846A / 851A	"	10.0	5.12	1.75		9.0		.6	5		"
282	12-10	430A / 442A	"	10.0	5.68	1.68		9.6		.6	5		"
283	12-17	803A / 815A	"	10.0	6.55	1.43		9.4		.6	6		"
284	12-24	805A / 817A	"	12.0	8.40	1.24		10.4		.6	6		"
285	12-31	755A / 807A	"	11.0	8.38	1.71		14.3		.6	6		"
286	1-7	755A / 807A	"	12.0	8.84	1.57		13.0		.6	6		"
287	1-14	807A / 819A	"	10.0	5.52	1.50		8.3		.6	5		"
288	1-21	803A / 808A	Haig	10.5	6.77	1.19		8.0		.6	8		FC35
289	1-28	810A / 820A	"	10.5	8.07	1.39		11.2		.6	9		"
290	2-4	810A / 820A	Green & Haig	10.0	7.04	1.27		8.9		.6	9		"
291	2-10	815A / 821A	Green	11.0	7.70	1.27		9.8		.6	7		FC42
292	2-18	750A / 802A	Brewster	11.0	5.92	1.74		10.3		.6	6		FC12
293	3-10	812A / 820A	Brewster & Green	12.0	9.40	1.12		10.5		.6	6		FC12
294	3-24	750A / 800A	Brewster	9.0	5.75	1.69		9.7		.6	5		"
295	3-31	813A / 825A	"	12.0	8.00	1.11		8.9		.6	6		"
296	4-7	810A / 822A	Brewster	11.0	6.18	1.30		8.0		.6	6		FC12
297	4-14	802A / 814A	"	10.0	5.80	1.26		7.3		.6	5		"
298	4-21	800A / 812A	"	10.0	6.80	1.20		8.2		.6	5		"
299	4-28	754A / 806A	"	11.0	7.15	1.17		8.4		.6	6		"
300	5-5	748A / 800A	"	11.0	5.88	1.17		6.9		.6	6		"
301	5-12	803A / 815A	"	11.0	6.95	1.06		7.4		.6	6		"
302	5-19	808A / 820A	"	11.0	6.75	1.38		9.3		.6	6		"
303	5-26	720A / 730A	"	11.0	6.05	1.44		8.7		.6	6		"
304	6-2	749A / 800A	"	11.0	6.30	1.16		7.3		.6	5		"
305	6-8	757A / 804A	Brewster & Bonadiman	10.0	4.20	1.26		5.3		.6	5		"
306	6-15	745A / 752A	Bonadiman	5.5	2.37	1.81		4.3		.6	4		FC19
307	6-22	745A / 751A	"	7.0	2.68	1.72		4.6		.6	5		"
308	6-22	758A / 804A	"	5.5	2.35	1.79		4.2		.6	4		"
309	6-29	740A / 750A	Brewster	8.0	3.60	1.39		5.0		.6	5		FC12
310	7-6	755A / 805A	"	10.0	4.40	1.41		6.2		.6	5		"
311	7-13	730A / 742A	"	10.0	3.80	1.39		5.3		.6	5		"
312	7-20	740A / 750A	"	10.0	4.60	1.22		5.6		.6	5		"
313	7-27	745A / 753A	"	10.0	3.24	1.42		4.6		.6	5		"
314	8-3	754A / 804A	"	10.0	5.80	1.14		6.6		.6	5		"
315	8-10	756A / 808A	"	10.0	5.20	1.14		5.9		.6	5		"
316	8-17	751A / 802A	"	10.0	5.80	1.18		6.8		.6	5		"
317	8-24	745A / 755A	"	10.0	6.00	1.19		7.1		.6	5		"
318	8-31	758A / 807A	"	10.0	5.20	1.28		6.7		.6	5		"
319	9-7	720A / 730A	Brewster	9.0	4.35	1.31		5.7		.6	5		FC12
320	9-14	717A / 726A	"	10.0	4.40	1.24		5.5		.6	5		"
321	9-21	802A / 811A	"	9.0	5.75	1.13		6.5		.6	5		"
322	9-28	742A / 751A	"	10.0	4.80	1.35		6.5		.6	5		"

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

NEAR Junction with Rio Hondo DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
229	10-1	815A / 821A	Brewster	3.0	0.76	1.00		0.76		.6	3		FC12
230	10-8	819A / 826A	"	4.0	0.70	1.14		0.80		.6	4		"
231	10-15	820A / 827A	"	3.0	0.76	0.97		0.74		.6	3		"
232	10-22	827A / 834A	"	4.0	0.88	0.90		0.79		.6	4		"
233	10-29	815A / 821A	"	3.0	0.66	1.20		0.79		.6	3		"
234	11-5	833A / 839A	"	3.0	0.56	1.16		0.65		.6	3		"
235	11-12	809A / 815A	"	3.0	0.62	1.16		0.72		.6	3		"
236	11-19	824A / 830A	"	3.0	0.68	0.97		0.66		.6	3		"
237	11-26	832A / 840A	"	3.0	0.56	1.21		0.68		.6	3		"
238	12-3	811A / 818A	"	4.0	0.92	0.85		0.78		.6	4		"
239	12-10	456A / 502A	"	3.0	0.64	0.94		0.60		.6	3		"
240	12-17	745A / 751A	"	4.0	0.90	0.67		0.60		.6	4		"
241	12-24	827A / 835A	"	4.0	0.84	1.12		0.94		.6	4		"
242	12-31	813A / 820A	"	4.0	0.82	1.15		0.94		.6	4		"
243	1-7	818A / 827A	"	4.0	1.00	1.20		1.2		.6	4		"
244	1-14	750A / 756A	"	3.0	0.84	0.96		0.81		.6	3		"
245	1-21	821A / 825A	Haig	3.3	1.14	1.14		1.3		.6	5		FC35
246	1-28	750A / 756A	"	4.0	1.36	1.03		1.4		.6	6		FC35
247	2-4	753A / 802A	Green & Haig	6.0	0.90	0.84		0.76		.6	8		"
248	2-10	744A / 747A	Green	6.0	1.16	0.84		0.98		.6	6		FC42
249	2-18	814A / 820A	Brewster	4.0	0.76	1.03		0.78		.6	4		FC12
250	3-10	827A / 832A	Brewster & Green	4.0	1.30	1.15		1.5		.6	4		"
251	3-24	748A / 800A	Brewster	3.0	0.64	1.17		0.75		.6	3		"
252	3-31	756A / 802A	"	3.0	0.78	1.17		0.91		.6	3		"
253	4-7	834A / 840A	Brewster	3.0	0.76	1.09		0.83		.6	3		FC12
254	4-14	822A / 830A	"	4.0	0.92	0.88		0.81		.6	4		"
255	4-21	821A / 827A	"	3.0	0.72	0.81		0.58		.6	3		"
255A	4-28	837A / 845A	"	4.0	1.06	1.13		1.2		.6	4		"
256	5-5	812A / 818A	"	3.0	0.72	1.24		0.89		.6	3		"
256A	5-12	740A / 746A	"	3.0	0.64	1.22		0.78		.6	3		"
257	5-19	839A / 845A	"	3.0	0.68	1.10		0.75		.6	3		"
258	5-26	739A / 745A	"	3.0	0.56	1.12		0.63		.6	3		"
259	6-2	732A / 740A	"	4.0	0.70	0.89		0.62		.6	4		FC12
259A	6-8	820A / 826A	Brewster & Bonadiman	4.0	0.76	1.13		0.86		.6	4		FC12
260	6-15	758A / 802A	Bonadiman	3.0	0.60	1.00		0.60		.6	3		FC19
261	6-22	802A / 807A	"	4.0	0.68	0.68		0.46		.6	3		"
262	6-29	800A / 808A	Brewster	3.0	0.72	0.79		0.57		.6	3		FC12
263	7-6	820A / 830A	"	4.0	0.80	0.98		0.78		.6	4		"
264	7-13	752A / 758A	"	3.0	0.76	0.83		0.63		.6	3		"
265	7-20	805A / 812A	"	4.0	1.00	0.73		0.73		.6	4		"
266	7-27	817A / 825A	"	4.0	0.78	0.97		0.76		.6	4		"
267	8-3	736A / 742A	"	3.0	0.76	0.83		0.63		.6	3		"
268	8-10	738A / 744A	"	4.0	0.82	0.88		0.72		.6	4		"
269	8-17	732A / 740A	"	3.0	0.88	1.10		0.97		.6	3		"
270	8-24	810A / 816A	"	3.0	0.80	1.16		0.93		.6	3		"
271	8-31	822A / 830A	"	4.0	0.82	1.22		1.0		.6	4		"
272	9-7	744A / 750A	"	3.0	0.58	1.10		0.64		.6	3		"
273	9-14	739A / 744A	Brewster	4.0	0.86	1.03		0.89		.6	4		FC12
274	9-21	744A / 750A	"	4.0	0.88	1.14		1.0		.6	4		"
275	9-28	732A / 738A	"	3.0	0.84	1.18		0.99		.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

NEAR above Head of Pipe Line DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
230	10-1	245P / 255P	Brewster	4.0	2.04	1.27		2.6		.6	4		FC12
231	10-8	250P	"					0					
232	10-15	310P	"					0					
233	10-22	242P	"					0					
234	10-29	235P	"					0					
235	11-5	245P	"					0					
236	11-12	229P / 240P	"	5.0	2.76	1.01		2.8		.6	5		FC12
237	11-19	220P	"					0					
238	11-26	245P	"					0					
239	12-3	150P	"					0					
240	12-10	1159A	"					0					
241	12-17	130P	"					0					
242	12-24	220P	"					0					
243	12-31	240P	"					0					
244	1-7	145P	"					0					
245	1-14	140P	"					0					
246	1-21	305P / 310P	Haig	10.0	14.5	0.56		8.1		.6	7		FC35
247	1-28	330P / 340P	Green & Haig	10.5	10.0	0.94		9.4		.6	8		"
248	2-4	242P / 255P	" "	9.5	8.40	0.94		7.9		.6	7		"
249	2-10	520P / 525P	Green	9.0	5.30	1.43		7.6		.6	7		FC42
250	2-18	150P	Brewster					0					
251	3-10	340P	"					0					
252	3-24	140P	"					0					
253	3-31	135P	Brewster					0					
254	4-7	205P	"					0					
255	4-14	145P	"					0					
256	4-21	220P	"					0					
257	4-28	250P	"					0					
258	5-5	147P	"					0					
259	5-12	115P	"					0					
260	7-6	310P / 322P	"	6.0	10.6	0.60		6.4		.6	3		FC12
261	7-20	230P / 238P	"	4.0	4.85	0.70		3.4		.6	4		"
262	7-27	255P / 305P	"	4.0	4.80	1.48		7.1		.6	4		"
263	8-10	200P / 210P	"	4.0	3.92	1.38		5.4		.6	4		"
264	8-17	140P / 150P	"	5.0	3.95	1.49		5.9		.6	5		"
265	8-31	210P / 218P	"	4.0	4.15	1.47		6.1		.6	4		"
266	9-7	220P / 230P	"	5.0	5.05	1.25		6.3		.6	5		"
267	9-21	155P / 204P	"	4.0	3.10	1.39		4.3		.6	4		"
268	9-28	153P / 201P	Stunden & Brewster	5.0	3.50	1.22		4.3		.6	5		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. _____

FACTOR "J"
DISCHARGE MEASUREMENTS OF RINCON DITCH

~~AT~~ NEAR above Head of Pipe Line DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
231	10-1	220P	230P	Brewster	8.0	10.6	0.50		5.3		.6	4		FC12
232	10-8	200P	211P	"	8.0	10.8	0.56		6.1		.6	4		"
233	10-15	215P	225P	"	8.0	11.0	0.62		6.8		.6	4		"
234	10-22	210P	222P	"	7.0	9.30	0.45		4.2		.6	4		"
235	10-29	200P	211P	"	8.0	12.0	0.51		6.1		.6	4		"
236	11-5	205P	217P	"	8.0	11.0	0.53		5.8		.6	4		"
237	11-12	200P	212P	"	8.0	11.0	0.66		7.3		.6	4		"
238	11-19	150P	201P	"	8.0	11.2	0.51		5.7		.6	4		"
239	11-26	215P	227P	"	8.0	11.4	0.58		6.6		.6	4		"
240	12-3	120P	130P	"	8.0	11.4	0.61		6.9		.6	4		"
241	12-10	1144A	1152A	Brewster	8.0	13.0	0.45		5.8		.6	4		FC12
242	12-17	110P		"					0					
243	12-24	155P		"					0					
244	12-31	220P		"					0					
245	1-7	125P		"					0					
246	1-14	120P		"					0					
247	1-21	250P		Haig					0					
248	1-28	320P		Green & Haig					0					
249	2-4	320P		" "					0					
250	2-18	125P		Brewster					0					
251	3-10	325P		"					0					
252	3-24	125P		"					0					
253	3-31	115P		"					0					
254	4-7	145P	151P	"	4.0	1.02	1.27		1.3		.6	4		FC12
255	4-14	122P	130P	Brewster	4.0	0.82	0.70		0.57		.6	4		FC12
256	4-21	240P	252P	"	8.0	9.00	0.57		5.1		.6	4		"
256A	4-28	230P	240P	"	8.0	10.0	0.57		5.7		.6	4		"
257	5-5	120P	132P	"	8.0	12.0	0.44		5.3		.6	4		"
258	5-12	125P	135P	Wood & Brewster	8.0	9.60	0.41		3.9		.6	4		"
259	5-19	245P	255P	Brewster	8.0	13.6	0.47		6.4		.6	4		"
260	5-26	230P	242P	"	8.0	12.0	0.30		3.6		.6	4		"
260A	6-2	225P	235P	"	8.0	9.00	0.61		5.5		.6	4		"
261	6-8	200P	206P	Brewster & Bonadiman	6.0	4.35	1.20		5.2		.6	4		"
262	6-15	210P	220P	Bonadiman	8.0	6.90	0.61		4.2		.6	6		FC19
263	6-22	215P	231P	"	11.0	15.4	0.51		7.8		.6	6		"
264	6-29	300P	310P	Brewster	8.0	10.2	0.33		3.4		.6	4		FC12
265	7-6	240P	250P	"	8.0	11.0	0.38		4.2		.6	4		"
266	7-13	200P	212P	"	8.0	11.4	0.54		6.1		.6	4		"
267	7-20	200P	210P	"	8.0	12.4	0.36		4.5		.6	4		"
268	7-27	215P	225P	"	8.0	9.40	0.40		3.8		.6	4		"
269	8-3	130P	142P	"	8.0	9.20	0.63		5.8		.6	4		"
270	8-10	130P	140P	"	8.0	6.20	0.68		4.2		.6	4		"
271	8-17	115P	125P	"	8.0	11.4	0.43		4.9		.6	4		"
272	8-24	200P	210P	"	8.0	9.00	0.68		6.1		.6	4		"
273	8-31	130P	142P	"	8.0	9.60	0.44		4.2		.6	4		"
274	9-7	155P	205P	"	8.0	11.4	0.45		5.1		.6	4		"
275	9-14	100P	110P	"	8.0	10.4	0.40		4.2		.6	4		"
276	9-21	120P	132P	Brewster	7.0	8.00	0.42		3.4		.6	4		FC12
277	9-28	123P	132P	Stunden & Brewster	8.0	10.2	0.34		3.5		.6	4		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F84-8

FACTOR "L"
DISCHARGE MEASUREMENTS OF GATE DITCH

~~AT~~ NEAR below Sluice Gate DURING THE YEAR ENDING SEPTEMBER 30, 19 44

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.
343	10-1	1015A	1027A	Brewster	10.0	11.6	1.28		14.8		.6	5		FC12
344	10-8	1029A	1041A	"	10.0	11.4	1.19		13.6		.6	5		"
345	10-12	1025A	1037A	"	10.0	12.4	1.16		14.4		.6	5		"
346	10-15	1052A	1104A	"	10.0	12.0	1.17		14.0		.6	5		"
347	10-22	1035A	1047A	"	10.0	8.00	1.32		10.6		.6	5		"
348	10-29	1025A	1037A	"	10.0	8.40	1.23		10.3		.6	5		"
349	11-5	1051A	1102A	"	10.0	11.8	1.14		13.5		.6	5		"
350	11-12	1025A		"					14.4		.6			
351	11-19	1030A	1042A	"	10.0	12.2	1.02		12.4		.6	5		"
352	11-26	1050A	1102A	"	10.0	12.4	1.10		13.7		.6	5		"
353	12-3	1015A	1025A	"	10.0	12.6	1.17		14.8		.6	5		"
354	12-10	830A	840A	"	10.0	5.40	0.85		4.6		.6	5		"
355	12-17	1007A	1016A	"	8.0	3.20	0.74		2.4		.6	4		"
356	12-24	1036A	1047A	"	10.0	4.12	0.73		3.0		.6	5		"
357	12-31	950A	1000A	"	9.0	4.26	0.70		3.0		.6	5		"
358	1-7	945A	955A	"	10.0	5.00	0.76		3.8		.6	5		"
359	1-14	926A	938A	"	10.0	3.68	0.71		2.6		.6	5		"
360	1-21	1125A	1130A	Haig	7.5	2.92	0.88		2.6		.6	6		FC35
361	1-28	1120A	1130A	Green & Haig	10.0	3.36	0.83		2.8		.6	7		FC35
362	2-4	1002A	1012A	" "	10.0	3.61	0.83		3.0		.6	9		"
363	2-10	1245P	1252P	Green	6.4	3.14	0.96		3.0		.6	7		FC42
364	2-18	940A	950A	Brewster	10.0	3.48	0.75		2.6		.6	5		FC12
365	3-10	948A		"					0					
366	3-24	1030A		"					0					
367	3-31	940A	950A	Brewster	9.0	2.94	0.82		2.4		.6	5		FC12
368	4-7	955A	1005A	"	9.0	3.60	0.94		3.4		.6	5		"
369	4-14	950A	1000A	"	6.0	2.91	1.00		2.9		.6	4		"
370	4-21	1000A	1010A	"	10.0	11.8	1.42		16.8		.6	5		"
371	4-28	1000A	1010A	"	9.0	6.45	1.02		6.6		.6	5		"
372	5-5	925A	935A	"	8.0	4.60	1.11		5.1		.6	4		"
373	5-12	930A	942A	"	10.0	11.2	1.30		14.6		.6	5		"
374	5-19	1007A	1019A	"	10.0	12.6	1.17		14.8		.6	5		"
375	5-26	905A	917A	"	10.0	12.6	1.09		13.7		.6	5		"
376	6-2	930A	942A	"	10.0	12.8	1.13		14.5		.6	5		"
377	6-8	1027A	1035A	Brewster & Bonadiman	10.0	14.2	1.08		15.3		.6	5		FC22
378	6-15	1030A	1037A	Bonadiman	10.0	9.84	1.03		10.1		.6	5		FC19
379	6-22	1030A	1040A	Bonadiman	11.0	14.2	1.01		14.3		.6	8		"
380	6-29	945A	957A	Brewster	10.0	15.4	1.04		16.0		.6	5		FC12
381	7-6	955A	1007A	"	10.0	14.0	1.10		15.4		.6	5		"
382	7-13	925A	937A	"	10.0	15.8	1.11		17.6		.6	5		"
383	7-20	920A	932A	"	10.0	13.6	1.24		16.8		.6	5		"
384	7-27	945A	958A	"	10.0	11.4	1.25		14.2		.6	5		"
385	8-3	920A	932A	"	11.0	15.8	1.20		18.9		.6	6		"
386	8-10	920A	934A	"	11.0	15.7	1.14		17.9		.6	6		"
387	8-17	917A	929A	"	12.0	13.8	1.25		17.2		.6	6		"
388	8-24	940A	950A	"	12.0	14.0	0.99		13.8		.6	4		"
389	8-31	940A	954A	"	12.0	17.2	0.90		15.4		.6	6		"
390	9-7	925A	935A	"	12.0	17.0	0.73		12.4		.6	4		"
391	9-14	855A	905A	Brewster	12.0	17.0	0.84		14.3		.6	4		FC12
392	9-21	932A	941A	"	12.0	15.3	0.91		13.9		.6	4		"
393	9-28	905A	916A	Stunden & Brewster	12.0	15.3	0.94		14.4		.6	4		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F85-S

FACTOR "O"
DISCHARGE MEASUREMENTS OF STANDIFER DITCH

AT NEAR below headgate 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.
349	10-1	1040A / 1055A	Brewster	4.8	7.42	3.09		22.9		.6	5		FC12
350	10-8	1059A / 1110A	"	4.8	7.02	2.82		19.8		.6	5		"
351	10-15	1116A / 1127A	"	4.6	6.46	2.84		18.2		.6	5		"
352	10-22	1102A / 1112A	"	4.6	5.86	2.66		15.6		.6	5		"
353	10-29	1057A / 1108A	"	4.8	7.42	2.96		22.0		.6	5		"
354	11-5	1113A / 1124A	"	4.6	6.08	2.65		16.1		.6	5		"
355	11-12	1100A / 1111A	"	4.6	6.08	2.76		16.8		.6	5		"
356	11-19	1102A / 1113A	"	4.6	6.08	2.73		16.6		.6	5		"
357	11-26	1117A / 1128A	"	4.6	6.30	2.75		17.3		.6	5		"
358	12-3	1040A / 1050A	"	4.6	6.24	2.69		16.8		.6	5		"
359	12-10	900A / 906A	"	3.0	0.93	0.28		0.26		.6	3		"
360	12-17	1025A / 1035A	"	3.8	3.06	1.73		5.3		.6	5		"
361	12-24	1108A	"					0					
362	12-31	1105A	"					0					
363	1-7	1048A / 1055A	"	3.8	1.36	1.03		1.4		.6	5		FC12
364	1-14	1040A / 1046A	"	3.0	1.38	0.94		1.3		.6	3		"
365	1-21	1150A / 1155A	Haig	3.4	1.33	0.83		1.1		.6	5		"
366	1-28	1149A / 1157A	Green & Haig	3.1	1.13	0.63		0.71		.6	5		FC35
367	2-4	1028A / 1040A	" "	3.2	10.9	0.56		0.61		.6	8		"
368	2-18	1045A / 1051A	Brewster	3.0	0.72	0.29		0.21		.6	3		FC12
369	3-10	1140A	Brewster & Green					0					
370	3-24	1045A	Brewster					0					
371	3-31	1050A	"					0					
372	4-7	1100A	"					0					
373	4-14	1055A / 1101A	Brewster	6.0	1.56	0.96		1.5		.6	4		FC12
374	4-21	1110A	"					0					
375	4-28	1115A / 1125A	"	3.8	3.06	2.39		7.3		.6	5		"
376	5-5	1022A / 1034A	"	4.4	5.04	3.21		16.2		.6	5		"
377	5-12	955A / 1005A	"	4.6	5.70	3.25		18.5		.6	5		"
378	5-19	1142A / 1151A	"	4.2	4.32	2.94		12.7		.6	5		"
379	5-26	1105A / 1116A	"	4.2	3.96	2.47		9.8		.6	5		"
380	6-2	1100A / 1110A	"	4.8	6.86	3.66		25.1		.6	5		"
381	6-8	1052A / 1100A	"	4.7	6.54	3.49		22.8		.6	5		"
382	6-17	522P / 530P	Bonadiman	4.2	4.90	2.82		13.8		.6	5		FC19
383	6-22	1140A / 1148A	"	4.5	6.13	3.78		23.2		.6	6		"
384	6-29	1145A / 1158A	Brewster	4.4	5.18	3.38		17.5		.6	5		FC12
385	7-6	1128A / 1140A	"	4.8	7.02	3.53		24.8		.6	5		"
386	7-13	1100A / 1112A	"	4.8	6.94	3.40		23.6		.6	5		"
387	7-20	1055A / 1107A	"	4.7	6.54	3.18		20.8		.6	5		"
388	7-27	1030A / 1044A	"	4.7	6.54	3.12		20.4		.6	5		"
389	8-3	1040A / 1050A	"	4.7	6.54	3.20		20.8		.6	5		"
390	8-10	1000A / 1010A	"	4.8	7.02	3.20		22.5		.6	5		"
391	8-17	1025A / 1037A	"	4.6	6.46	3.10		20.0		.6	5		"
392	8-24	1000A / 1012A	"	4.6	6.46	3.22		20.8		.6	5		"
393	8-31	1050A / 1102A	"	4.8	7.02	2.96		20.8		.6	5		"
394	9-7	950A / 1002A	"	4.8	7.02	3.02		21.2		.6	5		"
395	9-14	1005A / 1017A	"	4.8	6.86	3.12		21.4		.6	5		"
396	9-21	952A / 1004A	Brewster	4.6	6.46	3.20		20.7		.6	5		FC12
397	9-28	1025A / 1037A	Stunden & Brewster	5.0	8.00	2.51		20.1		.6	5		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO. F86-S

FACTOR "P"
DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER

AT NEAR below Standifer Ditch 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.
342	10-1	1103A / 1121A	Brewster	15.0	16.2	1.85		30.0		.6	8		FC12
343	10-8	1120A / 1138A	"	15.0	19.2	1.83		35.2		.6	8		"
344	10-15	1133A / 1148A	"	15.0	20.5	1.75		35.9		.6	8		"
345	10-22	1120A / 1135A	Brewster	19.0	25.6	1.75		44.9		.6	6		"
346	10-29	1116A / 1131A	"	18.0	21.2	1.76		37.4		.6	6		"
347	11-5	1131A / 1145A	"	24.0	27.6	1.46		40.4		.6	6		"
348	11-12	1120A / 1135A	"	22.0	19.7	1.73		34.2		.6	6		"
349	11-19	1121A / 1135A	"	26.0	24.5	1.67		41.0		.6	7		"
350	11-26	1135A / 1153A	"	21.0	21.4	1.99		42.5		.6	6		"
351	12-3	1055A / 1113A	"	24.0	23.2	1.72		40.0		.6	6		"
352	12-10	920A / 945A	"	33.0	39.1	1.84		72.1		.6	7		"
353	12-17	1040A / 1055A	"	29.0	34.4	2.07		71.1		.6	6		"
354	12-24	1115A / 1133A	"	30.0	48.7	1.59		77.3		.6	6		"
355	12-31	1110A / 1128A	"	38.0	40.5	2.06		83.5		.6	6		"
356	1-7	1105A / 1120A	"	37.0	30.6	2.81		86.0		.6	6		"
357	1-14	1055A / 1110A	"	42.0	35.0	2.51		87.7		.6	6		"
358	1-21	1205P / 1220P	Haig	46.0	32.4	2.73		88.4		.6	12		FC35
359	1-28	1205P / 1223P	Green & Haig	42.0	35.1	2.49		87.5		.6	12		"
360	2-4	1050A / 1110A	" "	44.0	33.9	2.92		99.0		.6	14		"
361	2-10	130P / 153P	Green	44.0	37.4	2.29		85.7		.6	20		FC42
362	2-18	1105A / 1120A	Brewster	35.0	31.8	2.84		90.4		.6	6		FC12
363	3-10	1145A / 1205P	Brewster & Green	102.0	83.4	2.48		207.		.6	12		"
364	3-13	1100A / 1120A	Brewster & Bonadiman	102.0	74.1	2.19		162.		.6	13		"
365	3-24	1052A / 1110A	Brewster	72.0	51.2	2.29		117.		.6	8		"
366	3-31	1100A / 1120A	Brewster	84.0	60.7	1.88		114.		.6	9		FC12
367	4-7	1110A / 1130A	"	74.0	51.2	2.29		117.		.6	9		"
368	4-14	1110A / 1130A	"	87.0	50.4	2.26		114.		.6	10		"
369	4-21	1115A / 1145A	"	Two Channels				95.4		.6	12		"
370	4-28	1134A / 1157A	"	90.0	60.4	1.62		97.9		.6	10		"
371	5-5	1040A / 1058A	"	87.0	49.8	1.74		86.5		.6	9		"
372	5-12	1010A / 1030A	Wood & Brewster	78.0	44.6	1.62		72.5		.6	9		"
373	5-19	1158A / 1220P	Brewster	Two Channels				147.		.6	13		"
374	5-26	1125A / 1147A	Brewster	97.0	69.6	2.04		142.		.6	11		"
375	6-2	1115A / 1140A	"	Two Channels				59.9		.6	12		"
376	6-8	1105A / 1130A	Bonadiman & Brewster	"	"			58.2		.6	14		"
377	6-15	1055A / 1105A	Bonadiman	"	"			86.8		.6	17		FC19
378	6-22	1105A / 1130A	"	"	"			102.		.6	18		"
379	6-29	1205P / 1235P	Brewster	"	"			100.		.6	12		FC12
380	7-6	1145A / 1205P	"	"	"			47.2		.6	11		"
381	7-13	1120A / 1145A	"	"	"			49.4		.6	12		"
382	7-20	1120A / 1145A	"	"	"			51.8		.6	11		"
383	7-27	1050A / 1115A	"	"	"			49.8		.6	13		"
384	8-3	1055A / 1120A	"	"	"			46.8		.6	12		"
385	8-10	1015A / 1040A	"	"	"			43.2		.6	12		"
386	8-17	1042A / 1113A	"	"	"			43.8		.6	13		"
387	8-24	1017A / 1044A	"	"	"			48.4		.6	12		"
388	8-31	1110A / 1135A	"	"	"			43.5		.6	10		"
389	9-7	1010A / 1034A	"	"	"			42.7		.6	11		"
390	9-14	1025A / 1050A	Brewster	Two	Channels			44.5		.6	10		FC12
391	9-21	1010A / 1034A	"	"	"			45.0		.6	9		"
392	9-28	1042A / 1102A	Stunden & Brewster	"	"			43.8		.6	9		"

F. C. Dist. Form 32 8-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

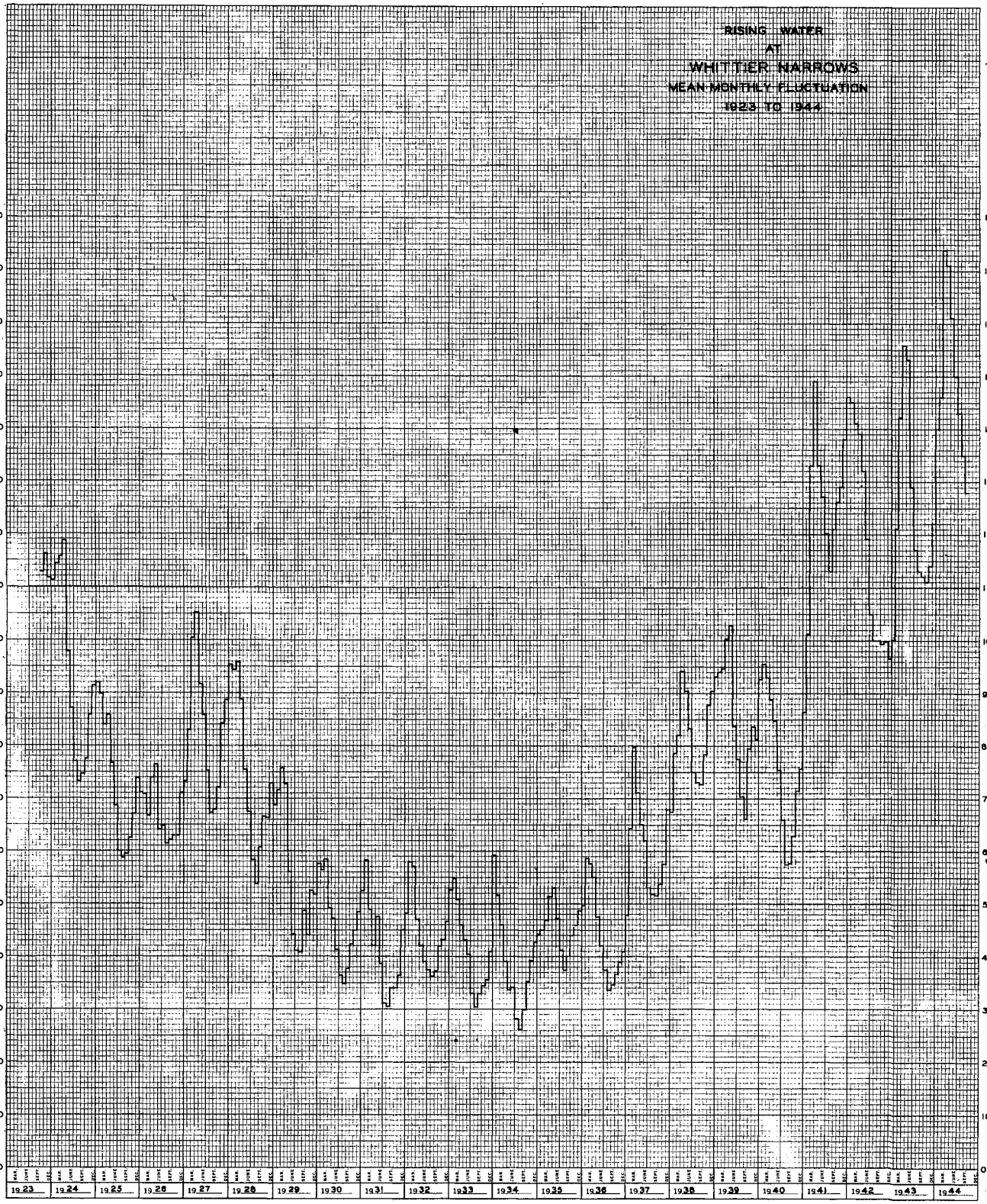
Sta. No.

Daily discharge, in second-feet of RISING WATER at Whittier Narrows, for the year ending September 30, 1944

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	110	113	115	139	141	163	173	167	158	145	139	131
2	110	113	115	140	141	164	173	166	157	145	138	130
3	110	113	115	140	142	166	174	165	157	144	138	130
4	110	113	115	140	142	168	175	164	156	144	138	129
5	110	113	116	140	142	169	176	163	156	144	136	129
6	110	113	116	141	142	171	176	162	155	144	136	128
7	110	113	117	141	142	173	177	161	155	144	136	128
8	110	113	117	141	142	174	176	160	154	144	136	128
9	110	113	118	140	142	175	175	160	153	144	137	128
10	110	113	118	140	142	177	174	159	153	145	137	128
11	110	113	118	140	142	177	173	158	152	145	137	127
12	111	113	119	140	142	177	172	157	152	145	136	127
13	111	113	119	139	143	177	171	157	151	145	136	127
14	111	113	119	139	143	177	170	158	151	145	135	127
15	111	113	119	139	143	177	170	158	150	144	135	127
16	111	114	120	139	143	177	169	159	149	144	134	128
17	111	114	120	139	143	177	169	159	149	144	134	128
18	111	114	121	139	143	176	169	160	148	144	134	128
19	112	114	121	139	144	176	169	160	148	143	134	128
20	112	114	122	139	146	176	168	160	147	143	134	129
21	112	114	123	139	148	176	168	161	147	143	133	129
22	112	114	124	139	149	176	168	161	146	142	133	129
23	112	115	124	140	151	176	169	161	146	142	133	129
24	112	115	125	140	153	176	169	161	146	142	133	129
25	112	115	127	140	154	175	169	162	146	142	133	128
26	113	115	129	140	156	175	169	162	145	141	132	128
27	113	115	131	141	158	174	170	161	145	141	132	128
28	113	115	133	141	159	174	170	161	145	141	131	128
29	113	115	135	141	161	173	169	160	145	140	131	128
30	113	115	137	141		173	168	159	145	140	131	128
31	113		139	141		172		158		139	131	
	3449	3413	3787	4337	4239	5387	5138	4980	4507	4438	4175	3849
MEAN	111	114	122	140	146	174	171	161	150	143	135	128
ACRE-FEET	6840	6770	7510	8600	8410	10680	10190	9880	8940	8800	8280	7630

Remarks:

YEAR OR PERIOD MEAN 141
ACRE-FEET 102500


RISING WATER
AT
WHITTIER NARROWS
MEAN MONTHLY FLUCTUATION
1923 TO 1944
DISCHARGE IN SECOND-FEET
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MISCELLANEOUS STATIONS

F. C. D. FORM 104 SM 7-44

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, 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.	RAT-ING	METH-OD	MEAN SEC. NO.	S. MT. CHANGE TOTAL	METER NO.
			BALLONA CREEK, at Jackson Avenue.										
84	10-1	805A / 813A	Bollinger	10.3	6.24	0.87		5.4		.6	8		FC6
85	10-8	820A / 828A	"	11.2	7.38	0.84		6.2		.6	8		"
86	10-14	750A / 800A	"	9.6	6.81	0.95		6.5		.6	9		"
87	10-22	820A / 830A	"	13.1	8.24	0.79		6.5		.6	8		"
88	10-28	845A / 855A	"	13.1	7.84	0.71		5.6		.6	9		"
89	11-4	855A / 905A	"	13.1	9.06	0.66		6.0		.6	8		"
90	11-10	1230P / 1241P	"	12.7	10.6	0.72		7.7		.6	10		"
91	11-26	845A / 853A	"	12.7	9.60	0.59		5.7		.6	8		"
92	12-3	900A / 910A	"	13.0	9.71	0.64		6.2		.6	9		"
93	12-17	927A / 936A	"	14.0	9.97	0.63		6.3		.6	9		"
94	1-7	845A / 855A	"	13.5	8.05	0.82		6.6		.6	9		"
95	1-14	850A / 900A	"	10.3	7.50	0.77		5.8		.6	8		"
96	1-21	405P / 414P	"	8.8	10.7	0.89		9.5		.6	9		"
97	1-28	913A / 922A	"	8.8	9.08	0.73		6.6		.6	6		"
98	2-10	850A / 900A	"	9.0	8.17	0.78		6.4		.6	8		"
99	2-18	915A / 928A	"	19.2	18.3	0.64		11.8		.6	11		"
100	3-10	825A / 835A	"	13.5	14.5	0.88		12.7		.6	10		"
101	3-17	823A / 833A	"	13.5	13.4	0.75		10.0		.6	9		"
102	3-24	851A / 900A	"	12.0	14.0	0.78		11.0		.6	10		"
103	3-31	826A / 837A	"	13.0	13.6	0.71		9.7		.6	10		"
104	4-7	850A / 905A	"	11.5	12.2	0.84		10.3		.6	11		"
105	4-14	842A / 855A	Bollinger	12.8	11.2	0.79		8.8		.6	10		FC6
106	4-21	851A / 906A	"	11.2	11.8	0.80		9.5		.6	9		"
107	5-5	820A / 834A	"	13.6	10.8	0.80		8.6		.6	10		"
108	5-12	800A / 814A	"	14.0	9.55	0.81		7.7		.6	9		"
109	5-19	847A / 900A	"	14.0	10.5	0.79		8.3		.6	10		"
110	5-26	825A / 840A	"	13.7	9.35	0.81		7.6		.6	11		"
111	6-2	827A / 842A	"	13.2	9.48	0.86		8.2		.6	10		"
112	6-9	827A / 837A	"	15.0	10.6	0.85		9.0		.6	10		"
113	6-17	830A / 838A	"	11.7	9.54	0.74		7.1		.6	7		"
114	6-23	807A / 817A	"	12.2	7.79	1.00		7.8		.6	10		"
115	6-30	753A / 804A	"	11.0	7.52	1.05		7.9		.6	8		"
116	7-7	826A / 837A	"	12.5	9.20	0.91		8.4		.6	10		"
117	7-13	845A / 855A	"	11.6	7.74	0.96		7.4		.6	8		"
118	7-19	830A / 838A	Moon	11.5	8.40	1.07		9.0		.6	6		FC22
119	7-26	825A / 835A	"	11.5	7.95	0.96		7.6		.6	8		"
120	8-3	845A / 855A	Bollinger	11.8	7.10	0.95		6.7		.6	9		FC6
121	8-10	836A / 846A	"	14.0	7.65	0.89		6.8		.6	8		"
122	8-17	900A / 906A	Bollinger & Haig	12.0	7.54	0.95		7.2		.6	7		"
123	8-24	830A / 838A	Bollinger	11.0	7.51	1.05		7.9		.6	7		"
124	8-31	843A / 852A	"	10.8	7.94	0.97		7.7		.6	8		"
125	9-7	823A / 833A	"	11.2	6.54	1.04		6.8		.6	9		"
126	9-14	858A / 908A	"	11.5	7.44	1.12		8.3		.6	9		"
127	9-21	838A / 847A	"	11.7	6.95	1.06		7.4		.6	9		"
128	9-28	825A / 835A	"	12.9	7.66	1.03		7.9		.6	10		"

F. C. D. FORM 104 SM 7-44

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, 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.	RAT-ING	METH-OD	MEAN SEC. NO.	S. MT. CHANGE TOTAL	METER NO.
			LOS ANGELES RIVER, below Sepulveda Dam.										
1	8-17	1000A / 1015A	Turner	14.0	7.85	1.27		10.0		.5 & .6	9		FC5
			PACOIMA CREEK, above Dam. (Inflow)										
1	2-28	1210P / 1225P	Luce	41.5	26.0	4.85		126.		.6	13		FC39
2	3-21	925A / 950A	"	24.5	24.0	2.88		69.0		.6	13		"
3	3-25	915A / 930A	"	24.5	21.9	2.70		59.1		.6	12		"
4	3-29	930A / 945A	"	24.5	20.4	2.47		50.4		.6	13		"
5	4-1	1035A / 1048A	"	23.0	17.7	2.23		39.5		.6	8		"
6	4-3	1203P / 1220P	Bollinger	19.1	20.5	1.58		32.5		.6	15		FC6
7	4-6	925A / 935A	Luce	21.0	16.1	1.92		31.0		.6	11		FC39
8	4-6	945A / 1005A	"	17.0	12.9	2.37		30.6		.6	9		"
9	4-8	945A / 1000A	"	15.0	11.2	2.67		29.9		.6	8		"
10	4-12	1005A / 1020A	"	22.5	14.6	2.09		30.5		.6	11		"
11	4-15	945A / 1000A	"	20.5	13.7	1.72		23.6		.6	10		"
12	4-19	950A / 1005A	"	20.5	12.3	1.67		20.5		.6	10		"
13	4-22	940A / 955A	Luce	21.5	13.0	1.51		19.6		.6	9		"
14	4-26	955A / 1010A	Turner	15.0	10.6	1.59		16.9		.6	15		FC5
15	4-29	932A / 945A	Luce	18.0	14.3	1.54		22.0		.6	9		FC39
16	5-3	955A / 1010A	Turner	17.2	11.7	1.49		17.4		.6	11		FC5
17	5-6	855A / 905A	Luce	17.0	9.02	1.53		13.8		.6	10		FC39
18	5-13	940A / 950A	"	14.5	9.54	1.29		12.3		.6	8		"
19	5-20	1120A / 1130A	Luce	17.0	8.41	1.24		10.4		.6	8		FC39
20	6-15	1050A / 1105A	Bollinger	12.2	4.97	1.15		5.7		.6	11		FC6
			PACOIMA CREEK, below Dam; near Caretaker's house.										
1	5-20	1030A / 1040A	Luce	13.0	10.9	1.84		20.1		.6	7		FC39
2	5-23	935A / 955A	"	Two Channels				87.0		.6	19		"
			PACOIMA WASH MAIN CHANNEL, below Headworks.										
8	12-29	115P /	Koch	31.0	16.0	2.62		42.0		.6	9		FC34
9	1-12	120P / 137P	"	14.5	6.74	1.57	4.01	10.6		.6	8	-.02	"
10	1-12	142P / 155P	"	17.0	8.96	2.42	3.92	21.7		.6	9	-.04	"
11	1-12	220P / 234P	"	17.2	11.6	2.80	4.03	32.5		.6	9	+.02	"
12	1-12	252P / 305P	"	17.0	10.8	2.40	4.25	17.0		.6	9		"
13	1-26	515P / 520P	Koch & Back	16.0	7.28	1.25	4.06	9.1		.6	9	0	"
14	1-26	538P / 550P	" "	17.0	9.80	1.91	3.96	18.7		.6	9	-.11	"
15	1-26	600P / 610P	" "	19.2	11.6	2.41	3.94	28.0		.6	10	-.08	"
16	2-20	605P / 626P	Koch & Jordan	39.0	36.3	4.02	2.08	146.		.6	15	-1.52	"
17	2-25	1100A / 1125A	Koch & Carroll	27.0	27.3	2.86	4.02	78.2		.6	15	+.01	FC34
18	2-25	1135A / 1154A	" "	27.0	25.9	3.06	4.03	79.4		.6	14	+.02	"
19	2-26	415P / 425P	Koch	14.5	9.25	1.09	4.05	10.1		.6	8	+.04	"
20	2-26	552P / 618P	"	26.5	24.3	2.74	4.06	64.1		.6	13	+.04	"
21	3-3	940A / 1005A	Koch & Carroll	60.5	57.0	4.40	3.92	251.		.6	18	-.05	"

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

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, 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.	D. HT. CHANGE TOTAL	METER NO.
22	3-7	1050A / 1105A	Koch & Van Buren	8.5	5.85	1.38	4.01	8.1		.6	8	0	FC21
23	3-14	1115A / 1120A	Koch & Back	9.5	5.41	1.85		10.0		.6	6		FC34
			PACOIMA WASH-EAST CANAL, Spreading Grounds (Outlet)										
7	3-14	100P / 115P	Koch	12.0	7.70	1.53	2.50	11.8		.6	10	-.01	FC34
8	3-11	550P / 602P	"	11.2	5.41	1.07		5.8		.6	7	+.01	"
9	3-14	510P / 525P	"	12.4	7.69	1.64	2.73	12.6		.6	8		"
			BIG TUJUNGA CREEK, below White Horse. (Inflow to Reservoir)										
200	11-12	152P / 200P	Blakely	7.3	3.15	2.00		6.3		.6	8		FC32
201	12-14	240P / 258P	"	16.0	8.48	1.82		15.4		.6	10		"
202	4-13	1045A / 1100A	"	58.0	20.9	4.93		103.		.6	11		"
203	4-15	1154A / 1208P	"	41.0	15.9	5.37		85.4		.6	13		"
204	6-17	125P / 137P	"	13.0	8.90	3.26		29.0		.6 & .5	9		"
205	6-23	1058A / 1110A	"	13.5	8.84	2.79		24.7		.6 & .5	13		"
206	6-29	1235P / 1245P	Mellen	12.0	6.50	2.48		16.1		.6	6		FC28
207	7-6	205P / 215P	"	12.0	7.45	1.60		11.9		.6	5		"
208	7-13	1158A / 1209P	Blakely	9.1	5.88	2.62		15.4		.6	10		FC32
209	7-28	1239P / 1251P	"	13.0	7.09	1.40		9.9		.5 & .6	12		"
210	8-10	1050A / 1100A	"	13.5	6.60	1.15		7.6		.5 & .6	12		"
211	8-24	1118A / 1126A	"	9.0	4.45	1.44		6.4		.5 & .6	9		"
212	8-31	1140A / 1146A	Blakely	9.0	3.84	1.57		6.0		.5 & .6	9		FC32
213	9-21	1115A / 1122A	"	8.1	3.19	1.57		5.0		.5 & .6	10		"
			LOS ANGELES RIVER, LAWD Main Spreading Canal.										
143	10-7	135P / 147P	Bollinger	Two Channels			2.75	34.8		.6	8	0	FC06
144	10-15	1005A / 1020A	"	"	"		2.76	33.8		.6	8	0	"
145	10-21	1255P / 108P	"	"	"		2.70	33.2		.6	8	0	"
146	10-29	125P / 135P	"	"	"		2.74	34.4		.6	8	0	"
147	11-5	1125A / 1140A	"	"	"		2.54	32.2		.6	8	0	"
148	11-12	1135A / 1150A	"	"	"		2.50	32.1		.6	8	0	"
149	11-19	125P / 138P	"	"	"		2.43	36.6		.6	8	0	"
150	11-26	1050A / 1110A	Turner	"	"		2.45	35.1		.6	12	0	FC05
151	12-4	1135A / 1155A	"	"	"		2.33	31.8		.6	12	0	"
151A	4-21	340P / 400P	"	10.0	22.0	2.53	2.25	55.6		.6	12	0	"
152	5-5	1045A / 1105A	"	10.0	25.0	1.95	2.58	48.7		.6	12	0	"
153	5-12	1120A / 1140A	"	10.0	26.6	1.83	2.70	48.6		.6	12	0	"
154	5-19	1025A / 1100A	"	10.0	25.2	1.77	2.59	44.6		.2 & .8	12	+.01	"
155	5-19	1100A / 1115A	"	10.0	25.3	1.81	2.60	45.9		.6	12	+.01	"
156	5-25	1120A / 1140A	"	Two Channels			2.96	43.4		.6	12	0	"
157	6-1	120P / 140P	"	"	"		3.47	49.4		.6	12	0	"
158	6-8	140P / 205P	"	"	"		2.54	40.0		.2 & .8	12	0	"
159	6-16	106P / 135P	Bollinger	"	"		3.15	72.8		.2 & .8	8	0	FC06

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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, 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.	D. HT. CHANGE TOTAL	METER NO.
160	6-23	1205P / 1235P	Turner	Two Channels			3.34	51.7		.2 & .8	12	0	FC05
161	6-29	1000A / 1025A	Bollinger & Odskirk	"	"		3.23	53.4		.6	10	0	FC06
162	7-6	1004A / 1024A	"	"	"		3.22	49.6		.2 & .8	10	0	"
163	7-13	1130A / 1145A	Turner	"	"		3.20	32.2		.6	8	0	FC05
164	7-20	1055A / 1115A	"	"	"		3.13	46.4		.6	12	0	"
165	7-27	1100A / 1115A	"	"	"		3.15	46.9		.6	8	0	"
166	8-3	1115A / 1140A	"	"	"		3.03	43.2		.2 & .8	8	0	"
167	8-3	1140A / 1155A	"	"	"		3.03	43.0		.6	8	0	"
168	8-10	150P / 205P	"	"	"		3.21	47.4		.6	8	0	"
169	8-17	1230P / 1245P	"	"	"		3.26	46.9		.6	8	0	"
170	8-24	125P / 140P	"	"	"		3.28	46.4		.6	8	0	"
171	8-31	1220P / 1235P	"	"	"		3.26	45.5		.6	8	0	"
172	9-7	1050A / 1115A	"	"	"		3.26	44.2		.2 & .8	8	0	"
173	9-14	1115A / 1130A	"	"	"		3.28	45.9		.6	8		FC05
174	9-21	205P / 230P	Gillespie & Turner	"	"		3.28	43.8		.2 & .8	8		"
175	9-28	200P / 215P	Turner	"	"		3.32	45.2		.6	8		"
			ARROYO SECO, below Millard Creek										
25	12-22	1025A / 1035A	Moon	19.0	18.4	1.43		26.4		.6	10		FC22
26	3-9	1134A / 1149A	"	31.0	36.4	2.29		83.4		.6	15		"
27	3-17	1044A / 1100A	"	26.0	26.2	1.97		51.7		.6	14		"
28	3-23	1012A / 1028A	"	26.0	20.1	1.46		29.2		.6	13		"
29	3-31	1110A / 1120A	Moon	19.5	11.5	1.03		11.7		.6	10		FC22
30	4-6	1110A / 1120A	"	14.5	8.25	0.85		7.0		.6	9		"
31	4-14	145P / 149P	"	2.8	0.87	0.91		0.79		.6	4		"
32	4-28	315P / 320P	"	2.5	1.24	0.69		0.85		.6	5		"
			ARROYO SECO, below Devil's Gate Dam.										
107	6-23	940A / 945A	Haig	3.3	0.75	0.91		0.68		.5	6		FC35

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, 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.	D. HT. CHANGE TOTAL	METER NO.
			RIO HONDO above Peck Road										
1	5-13	330P / 350P	Lindsay	Two Channels				117.		.6	20		FC36
2	5-15	310P / 322P	Moon	29.5	48.1	3.35		161.		.6	11		FC22
3	5-18	400P / 414P	Moon & Haig	37.0	58.3	2.93		171.		.6	11		FC35
4	5-25	940A / 955A	Moon	40.0	58.2	3.04		177.		.6	12		FC22
5	6-12	225P / 235P	"	33.0	26.4	2.02		53.2		.6	9		"
6	6-29	943A / 955A	"	34.0	34.0	2.39		81.4		.6	10		"

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STATION NO.

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT NEAR miscellaneous points 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.
			RIO HONDO below Peck Road										
1	6-5	450P / 500P	Moon & Jordan	8.5	2.39	1.59		3.8		.6	6		FC22
			EATON CREEK above Eaton Dam (Inflow)										
38	2-21	930A / 935A	Moon & Stunden	10.5	3.20	3.72		11.9		.6	5		FC22
39	2-24	1228P / 1235P	"	15.0	9.75	3.38		33.0		.6	11		"
40	2-25	325P / 335P	"	11.0	7.95	2.43		19.3		.6	11		"
41	2-29	800A / 810A	Moon	9.5	4.85	1.88		9.1		.6	8		"
42	3-9	750A / 755A	"	11.0	10.8	2.38		25.7		.6	5		"
43	3-13	343P / 353P	"	15.0	12.9	1.81		23.4		.6	10		"
44	3-17	815A / 825A	"	8.0	8.20	2.08		17.1		.6	8		"
45	3-23	120P / 130P	"	12.0	7.00	1.20		8.4		.6	8		"
46	3-31	1015A / 1020A	"	4.8	1.87	2.51		4.7		.6	5		"
47	4-6	950A / 954A	"	4.2	1.13	2.24		2.5		.6	4		"
48	4-14	1220P / 1224P	"	2.0	0.64	1.12		0.72		.6	4		"
49	4-28	1205P / 1210P	"	5.0	1.90	1.16		2.2		.6	5		"
			EATON WASH above Rio Hondo										
1	3-10	758A / 805A	Brewster & Green	30.0	11.8	2.00		23.6		.6	6		FC12
			EATON CREEK above Eaton Dam. (Inflow)										
34	12-21	1110A / 1116A	Moon	10.0	2.55	3.17		8.1		.6	6		FC22
35	12-22	1225P / 1230P	"	6.0	0.73	1.64		1.2		.6	5		"
36	2-18	430P / 434P	"	4.0	1.10	1.27		1.4		.6	4		"
37	2-20	227A / 230A	Moon & Stunden	6.0	1.80	2.78		5.0		.6	4		"
			RIO HONDO above Eaton Wash.										
1	5-18	100P / 125P	Brewster	47.0	49.0	3.06		150.		.6	10		FC12
2	5-19	728A / 750A	"	53.0	51.5	3.03		156.		.6	10		"
			SOTOW DRAIN INFLOW at Rush Street										
1	1-10	1255P	Jordon & Koch	2.6	0.78	0.91		0.71		.6	5		FC21
			SOTOW DRAIN INFLOW near Fawcett and Merced Avenues.										
1	1-10	125P	Jordan & Koch	2.3	0.78	0.76		0.59		.6	5		FC21
			SOTOW DRAIN Inflow above outlet at Potrero Avenue.										
1	1-10	145P	Jordan & Koch	2.2	0.90	0.62		0.56		.6	4		FC21
			SOTOW DRAIN OUTFLOW below Potrero Avenue.										
9	1-10	200P	Jordan & Koch	8.5	6.23	0.74		4.6		.6	6		FC21
			SANTA ANITA CREEK above Clamshell Canyon										
103	3-23	430P / 434P	Moon & Haig	13.0	5.70	5.82		33.2		.6	4		FC22

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FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT NEAR miscellaneous points 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.
			CLAMSHELL CANYON above Santa Anita Creek.										
8	1-4	815A / 817A	Moon	2.0	0.34	2.06		0.70		.6	2		FC22
9	3-24	902A / 904A	"	1.5	0.38	1.18		0.45		.6	2		"
			LITTLE SANTA ANITA CREEK, Outflow from F.C. Dam.										
2	12-19	210P / 212P	Moon	1.5	0.22	3.09		0.68		.6	2		FC22
3	12-20	810A / 813A	Moon & Stunden	Two Channels				0.30		.6	3		"
			SANTA ANITA CREEK near Arrow Highway.										
22	4-8	235P / 242P	Moon	26.0	8.97	3.70		33.2		.6	7		FC22
			RIO HONDO at Tyler Avenue.										
1	5-18	1215P / 1240P	Brewster	30.0	4.22	3.74		158.		.6	8		FC12
2	5-26	647A / 705A	"	32.0	41.6	3.63		151.		.6	8		"
3	6-15	705A / 718A	Bonadiman	27.0	19.9	2.93		58.4		.6	10		FC19
4	6-22	705A / 718A	"	38.5	26.0	2.42		62.8		.6	9		"
5	6-29	700A / 720A	Brewster	32.0	26.9	2.65		71.3		.6	9		FC12
			SANTA ANITA CREEK, above Santa Anita Dam (Inflow)										
37	10-29	100P / 105P	Moon	Two Channels				3.0		.6	4		FC22
38	2-28	355P / 410P	"	20.0	21.4	1.34		28.7		.6	12		"
39	3-1	1020A / 1034A	"	19.0	24.0	1.64		39.4		.6	12		"
40	3-12	1030A / 1042A	"	22.0	26.0	1.66		43.1		.6	12		"
41	3-15	155P / 205P	"	22.0	23.5	1.41		33.2		.6	11		"
42	3-18	805A / 817A	"	21.0	22.0	1.23		27.0		.6	11		"
43	3-20	230P / 242P	"	21.0	21.2	1.19		25.2		.6	12		"
44	3-23	310P / 322P	"	21.0	19.6	1.11		21.8		.6	11		"
45	3-28	847A / 857A	"	14.0	13.3	1.41		18.7		.6	9		"
46	3-31	845A / 855A	"	13.5	12.0	1.29		15.5		.6	9		"
47	4-4	320P / 328P	Haig	12.5	9.85	1.22		12.0		.6	7		FC35
48	4-7	830A / 842A	Moon	13.5	10.6	1.17		12.4		.6	10		FC22
49	4-11	835A / 845A	"	13.0	9.98	1.13		11.3		.6	10		"
50	4-14	815A / 825A	"	13.0	9.61	1.12		10.8		.6	10		"
51	4-18	820A / 830A	"	13.0	9.55	1.11		10.6		.6	9		"
52	4-21	820A / 830A	"	13.0	9.93	1.04		10.3		.6	8		"
53	4-25	820A / 830A	"	11.8	8.44	1.14		9.6		.6	10		"
54	4-28	815A / 825A	"	11.9	9.20	1.29		9.2		.6	10		"
55	5-2	820A / 830A	"	11.6	8.17	1.13		9.2		.6	10		"
56	5-5	830A / 842A	"	10.8	6.72	1.28		8.6		.6	11		"
57	5-9	820A / 830A	"	10.8	6.80	1.24		8.4		.6	10		"
58	5-11	815A / 830A	Moon	10.8	6.65	1.20		8.0		.6	10		FC22
59	5-16	1045A / 1100A	Moon & Jordan	10.5	6.30	1.13		7.1		.6	9		"
60	5-19	1025A / 1035A	Moon	9.5	5.73	1.20		6.9		.6	9		FC35
61	5-23	815A / 825A	"	9.5	5.64	1.20		6.8		.6	10		FC22
62	5-26	825A / 835A	"	9.5	5.64	1.17		6.6		.6	10		"
63	6-2	820A / 830A	"	9.5	5.69	1.21		6.9		.6	10		"
64	6-9	835A / 847A	"	9.5	5.48	1.17		6.4		.6	10		"
65	6-16	920A / 929A	"	9.2	5.14	1.03		5.3		.6	9		"
66	8-3	930A / 935A	"	5.0	2.83	0.95		2.7		.6	5		"
67	8-17	900A / 910A	Moon & Gillespie	4.2	2.27	0.91		2.1		.6	7		"
68	8-31	905A / 915A	Moon	3.0	1.40	0.93		1.3		.6	6		"
69	9-14	910A / 920A	Stunden & Moon	3.0	1.42	1.06		1.5		.6	6		"

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FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT miscellaneous points 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.
			SANTA ANITA CREEK, below Santa Anita Dam. (Outflow)										
194	10-1	1008A / 1014A	Moon	6.0	2.30	1.35		3.1		.6	6		FC22
195	10-8	1102A / 1108A	"	6.0	2.18	1.19		2.6		.6	6		"
196	10-15	940A / 946A	"	6.0	2.20	1.27		2.8		.6	6		"
197	10-22	1110A / 1116A	"	6.0	2.55	1.49		3.8		.6	6		"
198	10-29	1103A / 1109A	"	6.0	2.50	1.40		3.5		.6	6		"
199	11-5	1030A / 1036A	"	6.0	2.40	1.33		3.2		.6	6		"
200	11-12	305P / 311P	"	6.0	2.41	1.24		3.0		.6	6		"
201	11-19	1112A / 1118A	"	6.0	2.08	1.20		2.5		.6	6		"
202	11-26	235P / 241P	Moon	6.0	2.18	1.15		2.5		.6	6		FC22
203	12-3	1000A / 1006A	"	6.0	2.28	1.18		2.7		.6	6		"
204	12-17	940A / 946A	"	5.5	1.15	1.22		1.4		.6	6		"
205	12-21	945A / 954A	"	Two Channels				15.0		.6	9		"
206	12-21	245P / 255P	"	14.5	7.35	4.86		35.7		.6	9		"
207	12-30	410P / 416P	"	8.5	2.62	1.30		3.4		.6	6		"
208	1-2	1100A / 1107A	"	7.5	3.79	1.95		7.4		.6	6		"
209	1-4	754A / 805A	"	8.0	5.35	3.64		19.5		.6	7		"
210	1-7	1228P / 1238P	"	8.2	3.38	1.51		8.2		.6	9		"
211	1-14	1215P / 1222P	"	7.0	2.60	1.62		4.2		.6	7		"
212	1-21	1047A / 1057A	"	11.0	3.16	1.55		4.9		.6	9		"
213	1-28	925A / 935A	"	10.0	2.88	1.42		4.1		.6	10		"
214	1-28	1240P / 1251P	"	9.5	4.87	2.26		11.0		.6	10		"
215	2-4	1119A / 1125A	"	6.0	1.68	1.25		2.1		.6	6		"
216	2-9	850A / 901A	"	10.0	5.50	3.25		17.9		.6	9		"
217	2-18	1118A / 1124A	"	5.0	2.95	0.78		2.3		.6	6		"
218	2-20	824A / 830A	Moon & Stunden	12.5	5.70	3.44		19.6		.6	6		"
219	2-20	1100A / 1113A	" "	16.0	10.8	4.55		49.1		.6	8		"
220	2-28	520P / 530P	Moon	9.0	16.2	2.28		37.0		.6	9		"
221	3-2	100P / 115P	Moon & Stunden	Two Channels				132.		.6	13		"
222	3-15	312P / 322P	Moon & Green	16.0				36.8		.6	9		"
223	3-20	343P / 400P	Moon	Two Channels				80.6		.6	16		"
224	3-20	715P / 730P	" " "					50.8		.6	13		"
225	4-7	1055A / 1100A	"	4.0	1.94	2.06		4.0		.6	5		"
226	4-8	1155A / 1200N	Moon & Stunden	15.0	11.8	4.47		52.8	Floats		5		
227	5-9	1020A / 1024A	Moon	2.0	0.69	1.30		0.90		.6	4		FC22
228	5-12	1030A / 1040A	"	6.0	1.90	1.47		2.8		.6	7		"
229	5-16	1210P / 1217P	Moon & Jordan	5.0	1.97	1.73		3.4		.6	5		"
230	5-19	300P / 305P	Moon	5.0	1.92	1.67		3.2		.5	5		FC35
231	5-23	950A / 955A	"	5.0	2.00	1.55		3.1		.6	5		FC22
232	5-26	950A / 955A	"	5.0	1.92	1.56		3.0		.6	5		"
233	6-2	930A / 935A	"	5.0	2.04	1.62		3.3		.6	5		"
234	6-9	1015A / 1020A	"	5.0	1.72	2.15		3.7		.6	5		"
235	6-16	800A / 810A	Moon	5.0	2.41	1.66		4.0		.6	6		"
236	6-23	100P / 114P	Haig	6.0	2.57	1.75		4.5		.5	7		FC35
237	6-29	800A / 807A	Moon	5.3	1.81	1.99		3.6		.6	6		FC22
238	7-7	1100A / 1110A	"	5.2	1.69	1.42		2.4		.6	6		"
239	7-13	830A / 835A	"	5.2	1.08	0.85		0.92		.5	5		"

F.C.D. FORM 104 3M 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, 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.
			SANTA ANITA CREEK, below Santa Anita Dam. (Outflow)										
240	7-13	852A / 900A	"	5.2	1.91	1.68		3.2		.5	5		"
241	7-20	736A / 744A	"	5.2	2.60	2.19		5.7		.6	6		"
242	7-27	740A / 745A	"	5.2	2.60	2.38		6.2		.6	5		"
243	8-3	740A / 750A	"	5.2	2.50	2.56		6.4		.6	6		"
244	8-10	745A / 751A	"	5.3	2.50	2.49		6.2		.6	5		"
245	8-17	745A / 755A	"	5.2	2.20	1.72		3.8		.6	5		"
246	8-24	735A / 742A	"	5.3	2.15	2.04		4.4		.6	5		"
247	8-31	742A / 748A	"	5.3	2.08	1.63		3.4		.6	5		"
248	9-7	737A / 743A	Moon	5.3	2.04	1.57		3.2		.6	5		FC22
249	9-14	750A / 756A	Stunden & Moon	5.3	2.05	1.37		2.8		.6	5		"
250	9-21	745A / 752A	Moon	5.3	1.97	1.27		2.5		.6	5		"
251	9-28	745A / 752A	"	5.3	1.98	1.21		2.4		.6	6		"
			SANTA ANITA CREEK - Three Cities Farms Diversion.										
13	10-22	1135A / 1140A	Moon	Two Channels				0.96		.6	4		FC22
14	10-29	1130A / 1130A	"					0					
15	11-5	1000A / 1005A	"	Two Channels				1.3			3		FC22
16	11-12	245P / 250P	"	"	"			1.0			3		"
17	11-19	1130A / 1134A	"	"	"			0.68		.6	4		"
18	11-26	300P / 306P	"	"	"			0.74		.6	4		"
19	12-17	1015A / 1020A	"	"	"			0.42			3		"
20	1-14	1130A / 1135A	"	"	"			0.40		.6	4		
21	2-9	920A / 921A	"	2.0	0.30	1.20		0.36		.6	2		FC22
22	4-7	1133A / 1137A	"	3.0	0.54	2.20		1.2		.6	4		"
23	4-7	1230P / 1235P	"	Two Channels				1.2		.6	4		"
24	4-21	935A / 940A	"	"	"			1.5		.6	4		"
25	5-5	1015A / 1020A	"	"	"			0.46		.6	4		"
26	5-12	1055A / 1100A	"	"	"			0.86		.6	4		"
27	5-16	1233P / 1240P	Moon & Jordan	"	"			1.0		.6	2		"
28	5-26	1020A / 1022A	Moon	2.0	0.32	1.25		0.40		.6	2		"
29	6-23	130P / 135P	Haig	Two Channels				0.51	Weir	.5	2		"
30	6-29	825A / 830A	Moon	"	"			0.75	Weir	.5	2		"
31	7-7	1120A / 1125A	"	"	"			0.48		.6	4		"
32	7-13	920A / 925A	"	"	"			0.70		.6	4		"
33	7-20	900A / 905A	Moon	Two Channels				0.28		.6	4		FC22
34	7-27	820A / 825A	"	"	"			1.1		.6	4		"
35	8-3	800A / 812A	"	"	"			0.68		.6	4		"
36	8-10	810A / 814A	"	"	"			0.90		.6	4		"
37	8-17	815A / 820A	Moon & Gillespie	"	"			1.4		.6	4		"
38	8-24	900A / 906A	Moon	"	"			0.66		.6	4		"
39	8-31	825A / 830A	"	"	"			0.79		.6	4		"
40	9-7	815A / 817A	"	"	"			0.52		.6	4		"
41	9-14	820A / 825A	Moon & Stunden	"	"			0.96		.6	4		"
42	9-21	815A / 820A	Moon	"	"			0.78		.6	4		"
43	9-28	825A / 830A	"	"	"			0.88		.6	4		"

F.C.D. FORM 124 2M 7-44

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT NEAR miscellaneous points 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.
			SAN GABRIEL RIVER-WEST FORK, Inflow to Dam No. 2.										
1	3-13	218P / 242P	Godfrey & DeVore	26.1	34.3	3.53		121.		.6	12		FC20
2	9-28	108P / 125P	Farmer & DeVore	4.4	0.81	1.51		1.2		.6	7		FC26
			SAN GABRIEL RIVER-WEST FORK, at Mouth of Outlet Tunnel Dam No. 2										
1	1-29	944A / 948A	Godfrey	1.9	0.06	1.33		0.08	Floats.		4		
2	2-21	1105A / 1110A	"	2.0	0.07	1.43		0.10		"	4		
3	2-26	330P / 335P	"	2.8	0.25	3.52		0.88		"	6		
4	3-16	1002A / 1010A	"	2.8	0.24	3.00		0.72		"	6		
5	3-23	1130A / 1135A	"	2.7	0.24	3.12		0.75		"	6		
6	4-4	1002A / 1008A	"	2.7	0.24	2.92		0.70		"	6		
7	4-18	1155A / 1200N	"	2.8	0.22	3.18		0.71		"	6		
8	5-9	930A / 935A	"	2.8	0.22	3.00		0.66		"	6		
9	5-19	1040A / 1045A	"	2.8	0.22	2.72		0.60		"	6		
10	6-6	1055A / 1100A	"	2.6	0.20	2.65		0.53		"	5		
11	6-20	1100A / 1105A	"	2.6	0.21	2.71		0.59		"	6		
12	7-10	255P / 300P	Godfrey & Middleton	2.5	0.18	2.66		0.48		"	5		
13	8-7	1107A / 1118A	DeVore	2.4	0.14	2.70		0.38		"	8		
14	8-21	1050A / 1058A	"	2.4	0.14	2.86		0.40		"	8		
15	9-19	1052A / 1104A	DeVore & Farmer	2.5	0.14	2.28		0.32		"	10		
			SAN GABRIEL RIVER-WEST FORK SIDE CANYON ABOVE FLUME below Dam No. 2										
1	12-11	1053A / 1102A	Godfrey	4.2	0.84	0.26		0.22		.6	5		FC26
2	12-21	1037A / 1042A	"	4.5	0.85	0.25		0.21		.6	4		FC20
			SAN GABRIEL RIVER-WEST FORK Side Canyon above Flume below Dam No. 2										
3	2-21	1050A / 1055A	Godfrey	4.0	0.64	0.42		0.27		.6	4		FC26
4	2-22	926A / 936A	Godfrey & DeVore	17.0	14.9	4.05		60.4		.6	7		FC20
5	2-23	120P / 130P	Godfrey	10.0	4.06	4.06		5.4		.6	7		"
6	2-24	1105A / 1118A	"	8.5	3.02	0.93		2.8		.6	7		"
7	3-2	1125A / 1135A	"	8.5	3.21	0.93		3.0		.6	7		"
8	3-3	920A / 927A	Godfrey & DeVore	7.5	2.40	0.88		2.1		.6	6		"
9	3-10	217P / 222P	Godfrey	3.5	0.72	0.62		0.45		.6	6		"
10	3-16	938P / 943P	"	3.5	0.54	0.44		0.24		.6	5		"
			BEAR CREEK above Junction with San Gabriel River										
11	3-23	240P / 310P	Middleton	41.0	55.7	2.71		151		.6	14		FC29
			SAN GABRIEL RIVER-NORTH FORK above Junction with West Fork										
12	3-14	130P / 150P	Middleton	21.0	14.5	3.87		56.1		.6	11		FC29
13	3-23	400P / 420P	"	23.5	14.9	2.93		43.6		.6	12		"
14	6-12	600P / 620P	"	13.5	9.70	2.93		28.4		.6	13		"
			SAN GABRIEL RIVER-WEST FORK below Camp Rincon										
1	7-13	430P / 500P	Middleton	30.5	27.2	2.31		62.7		.6	16		FC29
2	7-17	345P / 415P	"	Two Channels				67.9		.6 & Est.	14		"

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LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT NEAR miscellaneous points 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.
			CATTLE CANYON above Junction with San Gabriel River-East Fork.										
2	3-24	1230P / 1250P	Middleton	16.5	17.3	3.88		67.2		.6	12		FC29
			SAN GABRIEL RIVER-EAST FORK above Forks.										
6	7-13	400P / 425P	Middleton	34.0	35.4	2.05		72.6		.6	17		FC29
7	7-17	300P / 330P	"	26.5	20.6	3.12		64.2		.6	13		"
			SAN GABRIEL RIVER below San Gabriel Dam No. 1										
	2-16	950A / 1020A	Middleton	11.7	8.72	2.88		25.1		.6	23		FC11
			BROWN'S GULCH & other tributaries below San Gabriel Dam No. 1 and above Morris Dam.										
	3-8,9		Middleton					14.1		.6 & Est.			FC11
	8-24	930A / 1130A	"					0.16		.6 & Est.			"
	9-20	100P / 330P	"					0.09		Float & Est.			
			ROGERS CREEK above Junction with San Gabriel River.										
1	2-20	623A / 627A	Moon & Stunden	10.0	10.0	1.07		10.7		.6	5		FC22
2	3-13	800A / 810A	Moon	12.0	7.24	1.93		14.0		.6	7		"
3	3-21	305P / 312P	"	11.0	5.76	1.37		7.9		.6	6		"
4	3-24	320P / 326P	"	11.0	5.23	1.30		6.8		.6	6		"
			SAN GABRIEL RIVER below Roger's Canyon										
6	3-13	735A / 755A	Moon & Van der Goot	101.0	184.	2.33		429.		.6	13		FC22
			FISH CREEK at Mouth of Canyon										
1	2-20	542A / 547A	Moon & Stunden	9.5	6.60	2.11		13.9		.6	6		FC22
2	3-13	1140A / 1150A	Moon & Van der Goot	12.5	8.38	1.67		14.0		.6	9		"
3	3-21	800A / 807A	Moon	9.0	5.20	1.56		8.1		.6	5		"
4	3-24	140P / 145P	"	8.0	4.25	1.50		6.4		.6	5		"
			FISH CREEK above Junction with San Gabriel River										
44	3-21	930A / 936A	Moon	7.0	3.15	1.36		4.3		.6	5		FC22
			BIG DALTON-KERIL CREEK near F.C. Dam.										
1	3-23	1015A / 1020A	Green	2.3	0.51	2.35		1.2		.6	5		FC42
			BIG DALTON CREEK inflow to Spreading Grounds										
22	3-4	848A / 900A	Brewster	21.0	11.7	2.35		27.5		.6	6		FC12

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, 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.
			SAN DIMAS CREEK below San Dimas Dam (Outflow)										
60	12-20	420P / 440P	Brewster	12.0	16.8	0.88		14.7		.6	6		FC12
61	2-21	900A / 915A	"	16.5	25.0	0.67		16.7		.6	5		"
62	2-21	955A / 1003A	Brewster & van der Goot	20.0	31.5	0.92		28.8		.6	6		"
63	2-24	245P / 257P	Brewster & Smith	21.0	33.5	1.02		34.3		.6	6		"
			SAN DIMAS CREEK below Lodi Canyon										
1	2-2	510P / 525P	Brewster & Smith	30.0	31.0	2.50		77.5		.6	6		FC12
			LIVE OAK CREEK below Live Oak Dam										
68	1-20	320P / 323P	Haig	2.0	0.32	0.22		0.07		.6	4		FC35
69	2-23	1103A / 1115A	Brewster & Smith	7.0	4.10	2.12		8.7		.6	7		FC12
70	2-24	330P / 342P	"	5.0	3.10	2.00		6.2		.6	5		"
71	2-24	1040P / 1050P	Green	3.7	1.69	1.15		2.0		.6	4		FC42
72	3-1	1210P / 1216P	Brewster	3.0	1.75	1.20		2.1		.6	3		FC12
73	3-2	100P / 110P	"	4.0	2.71	2.18		5.9		.6	4		"
74	3-7	345P / 355P	"	4.0	1.93	1.14		2.2		.6	4		"
74A	3-15	1130A / 1136A	"	4.0	1.45	0.76		1.1		.6	4		"
75	5-6	800A / 808A	"	3.0	1.27	1.02		1.3		.6	3		FC12
76	5-10	1151A / 1157A	"	3.0	1.24	0.81		1.0		.6	3		"
77	5-17	1120A / 1126A	"	3.0	1.21	0.74		0.90		.6	3		"
78	5-24	1152A / 1158A	"	3.0	1.11	0.90		1.0		.6	3		"
79	5-31	250P / 253P	"	0.5	0.15	0.40		0.06		.6	1		"
			PADUA CREEK above Diversion to Thompson Creek Dam										
28	2-23	214P / 220P	Brewster	6.0	1.44	1.18		1.7		.6	4		FC12
			SAN GABRIEL RIVER at Artesia Avenue.										
	3-13	158P / 230P	Bonadiman & Brewster	Two Channels				115.		.6	22		FC12
			SAN GABRIEL RIVER at Head of El Monte Island										
1	5-13	615P / 630P	Lindsay & Jordan	41.0	40.1	1.04		41.7		.6	13		FC36
			SAN GABRIEL RIVER above Valley Boulevard										
1	5-19	1040A / 1100A	Brewster	44.0	37.2	1.96		73.0		.6	6		FC12
2	5-26	955A / 1015A	"	35.0	30.9	1.97		60.8		.6	6		"
3	6-29	1025A / 1045A	"	21.0	16.7	2.49		41.6		.6	6		"
			SAN GABRIEL RIVER at Garvey Avenue										
1	7-5	1205P / 1215P	Moon	19.0	7.90	1.11		8.8		.6	10		FC22
			SAN GABRIEL RIVER above Santa Fe Diversion (Inflow)										
9	12-29	940A / 950A	Moon & Stunden	35.0	48.8	2.25		110.		.6	13		FC22
10	5-15	1230P / 1255P	Moon & Jordan	73.0	132.	3.64		481.		.6	15		"
11	6-9	228P / 248P	" "	47.0	81.7	3.44		281.		.6	11		"
12	6-12	1150A / 1205A	" "	47.0	79.0	3.48		275.		.6	11		"
13	6-15	1130A / 1200N	Moon	67.5	127.	3.07		390.		.6	14		"
14	6-29	1240P / 100P	"	67.0	124.	3.26		404.		.6	15		"

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

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

STATION NO.

DISCHARGE MEASUREMENTS OF SAN ANTONIO CANYON DRAINAGE AREA

AT NEAR miscellaneous points 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.
			SAN ANTONIO CREEK below Main Diversion of Spreading Grounds.										
92	12-11	115P / 123P	Brewster	6.0	3.40	2.03		6.9		.6	4		FC12
93	12-19	1250P / 1258P	"	6.0	3.05	1.08		3.3		.6	4		"
94	12-21	310P / 318P	"	6.0	2.70	0.96		2.6		.6	4		"
95	12-22	120P / 128P	"	6.0	2.35	1.06		2.5		.6	4		"
96	12-29	1215P / 1220P	"	3.0	0.56	1.12		0.63		.6	3		"
97	2-20	445P / 453P	"	6.0	2.20	1.09		2.4		.6	4		"
98	2-25	1120A / 1130A	Brewster & Smith	8.0	4.20	2.33		9.8		.6	4		"
99	3-29	220P / 230P	Brewster	10.0	5.00	2.92		14.6		.6	5		"
100	4-5	220P / 230P	"	9.0	4.25	2.31		9.8		.6	5		"
101	4-12	250P / 300P	"	9.0	3.05	1.61		4.9		.6	5		"
102	4-19	220P / 230P	"	8.0	3.40	1.79		6.1		.6	4		"
103	4-26	210P / 220P	"	8.0	3.40	1.94		6.6		.6	4		"
104	5-3	220P / 230P	"	8.0	3.40	1.97		6.7		.6	4		"
105	5-10	245P / 255P	"	8.0	3.64	1.81		6.6		.6	4		"
106	5-17	250P / 258P	"	8.0	3.20	1.75		5.6		.6	4		"
107	5-24	215P / 223P	"	8.0	3.40	1.68		5.7		.6	4		"
108	5-31	1020P / 1030P	"	8.0	3.60	1.72		6.2		.6	4		"
109	6-9	235P / 245P	"	8.0	3.40	2.03		6.9		.6	4		"
110	6-16	145P / 151P	Bonadiman	9.0	3.75	1.92		7.2		.6	5		FC19

PERCOLATION LOSSES ON THE RIO HONDO
BASED ON METER MEASUREMENTS AND RECORDER STATIONS

Date 1943-44	Rio Hondo Diversion below Santa Fe Dam	Flow at Arrow Highway	Loss C.F.S.	Flow 500 feet above Peck Road	Loss C.F.S.	Flow at Rio Hondo Lower Azusa Road	Loss C.F.S.
5-13	210			117	93	56	61
5-15	235	209	26	161	48	124	37
5-18	260	230	30	171	59	135	36
5-29	253					179	74
6-12	105			53	52	45	8
6-29	132			81	51	70	11

PERCOLATION LOSSES ON THE SAN GABRIEL RIVER
BASED ON METER MEASUREMENTS AND RECORDER STATION RATINGS

Date 1943-44	Total Flow ° below Mouth of Canyon	Flow at Foothill Boulevard	Loss C.F.S.	Inflow to Santa Fe Reservoir	Loss C.F.S.	Outflow from Santa Fe Reservoir	Loss C.F.S.	San Gab. River below Rio Hondo Diversion	Flow at Arrow Highway	Loss C.F.S.	Flow at Head of El Monte Isle.	Loss C.F.S.	Flow above Rising Water	Loss C.F.S.
12-29		164		110	54									
3-10	518	483	35			252	131	252					90	162
5-13		490				318	172	108	98	10	42	56	9	47
5-15		573		481	92	436	45	201	187	14			28	159
5-18	683	616	67			514	102	254	239	15			78	161
5-29	690	618	72			484	134	231	178	53			60	118
6-12	435	382	53	275	107	279		174	152	22			64	88
6-29	477	407				272	135	140					40	100

°Flow below Canyon Mouth plus Fish Creek and Rogers Creek less diversion.

SUMMARY OF SEASONAL DISCHARGE

Water Year Ending September 30, 1944

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	454.	+	5.65	4100	2	22	1860.
F152-R	ALISO WASH	at Nordhoff Street	326.	0	1.68	1220	2	22	1600.
U1-R	ARROYO SECO	above Mouth of Canyon	1140.	2.0	18.9	13740	2	22	1800.
F277-R	ARROYO SECO	below Devils Gate Dam	944.	0	11.5	8270	2	20	1540.
F38B-R	BALLONA CREEK	at Sawtelle Boulevard	3010.	3.4	45.4	33000	2	22	8800.
F120-R	BIG DALTON CREEK	below Big Dalton Dam	35.	0	1.60	1160	2	23	56.
U9-R	BIG DALTON CREEK	near Mouth of Canyon	57.	0	1.35	982	2	22	161.
F274-R	DALTON WASH	at Merced Avenue	418.	0	2.23	1620	2	22	2650.
F111B-R	BIG TUJUNGA CREEK	above Edison Road	2240.	2.5	50.2	36470	2	22	3300.
F168-R	BIG TUJUNGA CREEK	below Big Tujunga Dam No. 1	2300.	0.3	57.5	41400	2	22	3310.
F213-R	BIG TUJUNGA CREEK	above Gold Canyon	3320.	2.3	79.9	57990	2	22	4760.
F20B-R	TUJUNGA WASH	at Glen Oaks Boulevard	985.	0	60.3	43750	2	22	1100.
F105-R	TUJUNGA WASH	at Magnolia Boulevard	97.	0.3	1.51	1090	2	20	460.
F106-R	TUJUNGA WASH - CENTRAL BRANCH	at Magnolia Boulevard	630.	0	28.0	20340	2	22	1540.
F270-R	CALABASAS CREEK	at Ventura Boulevard	114.	0	0.55	399	2	22	550.
F37B-R	COMPTON CREEK	near Greenleaf Drive	739.	2.3	15.6	11290	2	20	2370.
F41C-R	COYOTE CREEK	at Del Amo Street	1860.	0	16.6	12060	2	22	3550.
F265-R	DOMINGUEZ CHANNEL	at Carson Boulevard	991.	4.6	26.2	19020	2	23	1020.
F53-R	DUME CREEK	at Roosevelt Highway	163.	0	2.17	1570	2	20	627.
U2-R	EATON CREEK	above Mouth of Canyon	253.	0	4.22	3070	2	22	390.
F271-R	EATON WASH	below Eaton Wash Dam	161.	0	2.71	1970	3	14	268.
F104-R	EATON WASH	at Ellis Lane	224.	0	2.27	1650	2	22	412.
U7-R	FISH CREEK	above Mouth of Canyon	325.	0.5	5.78	4200	2	22	680.
U12-R	HAINES CREEK	above Mouth of Canyon	36.	+	0.41	296	2	22	74.
F149-R	LIMEKILN WASH	at Devonshire Avenue	65.	0	0.53	382	2	22	288.
F65B-R	LITTLE DALTON CREEK	above Mouth of Canyon	97.	0	1.24	900	2	22	198.
L1-R	LITTLE ROCK CREEK	above Little Rock Dam	736.	0.8	49.6	35930	2	22	1230.
U3-R	LITTLE SANTA ANITA CREEK	above Sierra Madre Dam	37.	0.3	1.43	1040	2	22	63.
F67B-R	LITTLE SANTA ANITA CREEK	below Sierra Madre Dam	51.	+	1.04	755	2	22	69.
F267-R	LITTLE SANTA ANITA CREEK	at Woodland Avenue	67.	+	0.55	390	2	22	202.
F19-R	LITTLE TUJUNGA WASH	at Foothill Boulevard	826.	0	8.04	5840	2	22	4220.
F31-R	LIVE OAK CREEK	near Mouth of Canyon	13.	0	0.30	215	2	22	24.
F5B-R	LOS ANGELES RIVER	below Sepulveda Boulevard	4100.	5.5	48.5	35210	2	22	5060.
F266-R	LOS ANGELES RIVER	at Mariposa Street	6050.	14.	113.	82390	2	22	9040.
F57C-R	LOS ANGELES RIVER	above Arroyo Seco	8020.	25.	151.	109800	2	22	14600.
F34B-R	LOS ANGELES RIVER	at Firestone Boulevard	13020.	38.	249.	180900	2	22	24750.
F180-R	LOS ANGELES RIVER	at Pacific Coast Highway	17190	38.	299.	217400	2	22	34000.
F130-R	MALIBU CREEK	at Crater Camp	3400.	0.7	41.6	30170	2	22	7700.
F22-R	MONROVIA CREEK	above Sawpit Creek	35.	+	0.32	236	2	22	97.
F195-R	MONROVIA STORM DRAIN	at Peck Road	88.	0	0.70	508	2	22	828.
F181-R	MONTEBELLO STORM DRAIN	above Rio Hondo	323.	0.1	3.30	2390	2	22	1040.
F118B-R	PACOIMA CREEK	below Pacoima Dam	305.	0	20.9	15150	3	2,3	326.
F16-R	PACOIMA WASH	at Parthenia Street	224.	0	5.62	4080	3	1	355.
F40-R	PUDDINGSTONE CREEK	below Puddingstone Dam	51.	+	1.54	1120	3	2	51.
F280-R	RIO HONDO DIVERSION	below Santa Fe Dam	253.	0	20.9	15180	5	18-23	253.
F192-R	RIO HONDO	at Lower Azusa Road	502.	0.3	15.9	11600	2	22	1080.
F64-R	RIO HONDO	above Mission Bridge	2110.	25.	70.8	51390	2	22	4390.
F45-R	RIO HONDO	at Stewart and Gray Road	2570	0	36.9	26820	2	22	6670.
F83-R	RIO HONDO SLOUGH	at San Gabriel Boulevard	176.	20.	26.0	18850	2	22	336.
U14-R	ROCK CREEK	above Mouth of Canyon	112.	6.5	33.2	24120	12	19	180.
U8-R	ROGERS CREEK	above Mouth of Canyon	260.	0	4.27	3100	2	22	494.
F82C-R	RUBIO WASH	at Glendon Way	393.	0	4.40	3190	2	22	1930.
U15-R	SAN ANTONIO CREEK	below Edison Co. Power Plant	85.	1.2	18.3	13290	4	8	102.
F151-R	SAN ANTONIO CREEK	at Mouth of Canyon	231.	0	14.1	10280	2	22	490.
U10-R	SAN DIMAS CREEK	at Mouth of Canyon	372.	0.3	8.61	6250	2	22	749.
F209-R	SAN GABRIEL RIVER - WEST FORK	below San Gabriel Dam No. 2	805.	2.2	51.9	37700	2	22	1210.
F3-R	SAN GABRIEL RIVER - WEST FORK	above Forks	4000.	19.	144.	104500	2	22	5760.
F4B-R	SAN GABRIEL RIVER - EAST FORK	above Forks	1290.	21.	113.	81900	2	22	2410.
F250-R	SAN GABRIEL - AZUSA CONDUIT	at weir below San Gabriel Dam No. 1	97.	0	59.3	43050	1	4	165.
F220-R	SAN GABRIEL - AZUSA CONDUIT	at Garcia Canyon	93.	+	56.9	41300	7	14-15	94.
U8-R	SAN GABRIEL RIVER	below Morris Dam	2710.	3.6	184.	133700	2	22	5170.
S100A-R	SAN GABRIEL - AZUSA DUARTE TUNNEL DIV.	at Mouth of Canyon	74.	0	13.9	10100	-	-	-
F190-R	SAN GABRIEL RIVER	at Foothill Boulevard	2750.	0	163.	118300	2	22	4840.
E281-R	SAN GABRIEL RIVER	below Santa Fe Dam	2550.	0	133.	96890	2	22	3480.
F261B-R	SAN GABRIEL RIVER	at Valley Boulevard	2720.	0.6	83.0	60290	2	22	5950.
F263-R	SAN GABRIEL RIVER	at Beverly Boulevard	5350.	0	144.	104200	2	22	14060.
F262-R	SAN GABRIEL RIVER	at Florence Avenue	4860.	0	110.	79930	2	22	15960.
FA2-R	SAN GABRIEL RIVER	at Spring Street, Long Beach	5570.	0	99.4	72200	2	22	14320.
F48-R	SAN JOSE CREEK	at Workman Mill Road	2090.	1.4	16.4	11910	2	22	6000.
U4-R	SANTA ANITA CREEK	above Santa Anita Dam	454.	1.3	9.36	6790	2	22	740.
F260B-R	SANTA ANITA WASH	at Foothill Boulevard	395.	0	8.46	6140	2	22	747.
F92B-R	SANTA CLARA RIVER	at Highway 99	9360.	2.0	68.6	49770	2	22	22200.
F278-R	SAWPIT CREEK	below Sawpit Dam	50.	0	0.92	666	2	22	67.
U5-R	SAWPIT CREEK	below Monrovia Canyon	72.	0	1.44	1050	2	22	124.
F185-R	SEPULVEDA CREEK	at Charnock Road	294.	0.1	5.55	4030	2	22	1940.
F43-R	SYCAMORE UPPER STORM DRAIN	above Solway Street	48.	0	0.55	389	2	22	172.
F44-R	SYCAMORE LOWER STORM DRAIN	at Adams Square	152.	0	1.99	1440	2	22	782.
F276-R	THOMPSON CREEK SPREADING GROUNDS INTAKE	at Thompson Creek Dam	2.6	0	0.05	37	2	26	3.8
F32-R	THOMPSON CREEK	below Thompson Creek Dam	0	0	0	0			0
F54-R	TOPANGA CREEK	above Mouth of Canyon	1110.	0.1	9.60	6970	2	22	5070.
F252-R	VERDUGO CHANNEL	at Estelle Avenue	998.	0.2	6.95	5040	2	22	3160.
F47-R	WALNUT CREEK	at Covina Boulevard	1010.	0	4.26	2930	2	22	4220.

Legend

+ = 0.05 c.f.s. or less

DAM OPERATION RECORDS

DAMS, DEBRIS DAMS, AND DEBRIS BASINS

FOREWORD

The District operated and maintained fourteen dams, three debris dams, and seventeen debris basins during the 1943-44 water year. The Corps of Engineers, United States Army, operated and maintained Hansen Dam on Tujunga Wash, Sepulveda Dam on the Los Angeles River, the partially completed Santa Fe Dam on the San Gabriel River and Rio Hondo, together with Haines Debris Basin. 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	Date of Survey for Original Storage	Original Storage at Spwy. A.F.	Date of Latest Survey	Latest Storage at Spwy. A.F.	Drainage Area
1	Pacoima	Feb. 1929	1919	6060	Dec. 1944	4714	27.8
2	Big Tujunga No. 1	July 1931	1928	6240	June 1944	4235	81.4
3	Devils Gate	June 1920	1933	4601	Dec. 1943	2504	31.9
4	Eaton Wash	Feb. 1937	Jan. 1936	956	Oct. 1943	632	9.5
5	Big Santa Anita	Mar. 1927	1923	1376	May 1944	697 (1)	10.8
6	Sawpit	June 1927	1923	476	Dec. 1943	322	3.3
7	San Gabriel No. 2	Apr. 1934	Jan. 1936	12298	Jan. 1945	10536	40.4
8	San Gabriel No. 1	July 1939	1938	53344	July 1944	43858	161.6*
9	Big Dalton	Aug. 1929	1923	1290	Sept. 1943	953	4.5
10	San Dimas	Sept. 1922	1919	1496	Nov. 1944	1042	16.2
11	Puddingstone Div.***	July 1928	1929	148	Sept. 1944	112 (2)	2.6
12	Puddingstone	Jan. 1928	1915	17398	Jan. 1941	17190	11.0**
13	Live Oak	Nov. 1922	1919	250	May 1938	228	2.3
14	Thompson Creek	Mar. 1928	Oct. 1932	812	Jan. 1943	612	3.7
Total				106,745		87,635	407.0

*Exclusive of drainage area above San Gabriel Dam No. 2
**Exclusive of drainage area above Live Oak, San Dimas, and Puddingstone Diversion Dams
***Temporary storage. Functions primarily to divert flow.
(1) Gain - due to sluicing.
(2) Gain - due to excavation.

Table II.
Debris Dams

Debris Dam	Date of Completion	Drainage Area in Sq. Mi.	Maximum Debris Capacity Cu. Yds.	Capacity at Beginning of 1943-44 Season-Cu.Yds.	Approx. debris inflow 1943-44 Season Cu.Yds.
1 Sunset Canyon	Nov. 1929	0.4	17500	13200	200
2 Sierra Madre	Feb. 1928	2.4	81200	71500	3100
3 Verdugo	Mar. 1935	10.6°	185000	129300	20400
4 Rubio	Apr. 1944	1.3	143700	143700	5200
Totals		14.7	427,400	357,700	28,900

°Exclusive of drainage areas above Dunsmuir, Shields, Eagle Goss, Pickens, Snover, and Hall Beckley Debris Basins 15.50 square miles total.

Table III.
Debris Basins

Debris Basin	Completion	Drainage Area-Sq.Mi.	Maximum Debris Capacity Cu.Yds.	Capacity at Beginning of 1943-44 Season-Cu.Yds.	Approx. debris inflow 1943-44 Season-Cu.Yds.
1 Aliso Wilbur	June 5, 1942	8.63	52600	52400	37500
2 Nichols	Nov. 23, 1937	0.94	32200	28100	700
3 Stough	Jan. 23, 1941	1.65	103700	90200	7600
4 Brand	Nov. 12, 1935	1.03	72500	68300	300
5 Dunsmuir	Oct. 14, 1936	0.84	122200	107000	2200
6 Shields	Jan. 11, 1937	0.27	46600	41900	1000
7 Eagle Goss	Oct. 20, 1936	0.61	71900	66400	4500
8 Pickens	Nov. 14, 1935	1.84	116500	101300	8900
9 Snover	Feb. 16, 1937	0.23	34800	22900	Negligible
10 Hall Beckley	Nov. 22, 1935	1.06	89300	86100	8300
11 Hay	Oct. 20, 1936	0.20	39800	36700	200
12 Lincoln	Jan. 17, 1936	0.50	40800	30300	1900
13 West Ravine	Dec. 10, 1935	0.25	49600	48200	3200
14 Fern	Dec. 5, 1935	0.30	32900	32000	3000
15 Fair Oaks	Dec. 29, 1935	0.21	28500	25200	100
16 Las Flores	Apr. 15, 1936	0.45	61600	61600	2700
Totals		19.01	995,500	898,600	82.100

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 demands that a maximum amount of storage capacity be kept in reserve. Conservation of flood waters by percolation in natural channels and off-channel spreading grounds is accomplished by regulated releases of storm waters.

Debris dams and debris basins serve the primary purpose of controlling detritus from their respective drainage areas.

OPERATION

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. The storage of inflows for conservation purposes is usually commenced when the threat of the winter flood season is passed. The stored water is then released in such a manner as to keep waste to the ocean at a minimum.

Reclaiming of valuable storage capacity is effected by sluicing the District reservoirs to the limit of available and safe channel capacity below the dams.

The following table shows the amount of reclaimed storage at Dams, Debris Dams, and Debris Basins, obtained by sluicing and excavation during the 1943-44 season.

Table IV

Dams	Cubic Yards	
Pacoima	72,760	
Big Tujunga	317,665	
Devils Gate	16,567	
Santa Anita	150,037	
San Gabriel #1	919,580	
Puddingstone Diversion	56,350	
		1,532,959
Debris Dams		
Sierra Madre	26,885	
Verdugo	68,907	
		95,792
Debris Basins		
Aliso Wilbur	39,425	
Shields	8,655	
Eagle Goss	14,375	
Lincoln	10,750	
West Ravine	10,270	
Fern	9,724	
		93,199
	Total Cu. Yds.	1,721,950

RECORDS

The daily storage and flow records at fourteen of the Dis-

trict dams are summarized on the Dam Operation Record sheets. The sheets show:

1. Reservoir water surface elevations based on the United States Geological Survey 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 are 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 Dams No. 1 and No. 2 reservoirs, total monthly evaporation losses are shown as determined from measurements made on floating evaporation pans. 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 data are 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; normally the error is small.

YEARLY RESERVOIR OPERATION SUMMARY

A summary table showing total annual inflow, outflow, storages, and extremes for each of the fourteen District dams during the 1943-44 water year is included in this report on page 211.

Since risers have been installed on the outlets at six of the District dams following the 1938 storm and the general practice inaugurated of making no releases until the reservoirs have filled from 10 to 25 per cent, no difficulty was experienced with outlet operations due to debris encroachment.

RESPONSIBILITY

Preparation of the storage rating tables and operation records was under the supervision of R. E. Lindsay and Paul A. Haig and the direction of Walter J. Wood

Determination of storage and releases during both floods and normal or percolation flows for channels and spreading grounds, drawdown for sluicing operations, channel capacities and conditions, measuring inflows and outflows and notification of parties affected by releases was under the direction of Finley B. Laverty, Chief, Hydraulic Division.

The operation and maintenance, such as mechanical operation of valves, maintenance and construction of various structures for dams, debris basins, and spreading grounds and access thereto was under the supervision of R. D. Reeve, Chief, Operation and Maintenance Division.

DAM OPERATION RECORDS

PACOIMA

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam
In/On Pacoima Canyon for the Year Ending September 30, 1944.
Continuous Water Stage Recorder Au
Drainage Area 27.8 Square Miles. Capacity of Reservoir 4714.4 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of December, 1944
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	1816.5	199.5*	[1.0	4.8	1786.8	11.1	2.0	3.0
2	1815.8	192.3	1.0	4.7	1785.9	9.4	2.1	2.9
3	1815.1	185.1	1.0	4.6	1785.1	8.1	2.1	2.8
4	1814.4	178.2	1.0	4.6	1784.3	6.8	2.0	2.6
5	1813.6	170.3	1.0	4.6	1783.5	5.8	2.0	2.5
6	1813.0	164.5	1.0	4.3	1782.7	4.8	1.8	2.3
7	1812.4	158.9	1.0	4.0	1782.1	4.2	1.3	1.6
8	1811.7	152.3	1.0	4.0	1782.0	4.1	[0.7	1.5
9	1810.9	145.0	1.0	4.7	1781.8	3.9	0.7	0.9
10	1810.1	137.8	1.0	4.7	1781.9	4.0	0.7	0
11	1809.2	129.9	[1.0	5.5	1782.1	4.2	0.7	0
12	1808.2	121.5	1.2	5.5	1782.3	4.4	0.7	0
13	1807.3	114.1	1.2	4.8	1782.5	4.6	0.7	0
14	1806.9	110.8	1.2	3.1	1782.9	5.0	0.7	0
15	1806.6	108.4	1.2	1.7	1783.0	5.1	0.7	0.9
16	1805.6	100.6	1.2	5.1	1782.9	5.0	0.7	1.0
17	1804.6	93.0	1.2	4.9	1783.0	5.1	0.7	0
18	1803.7	86.5	1.2	4.6	1782.7	4.8	0.7	1.3
19	1803.0	81.5	1.2	3.7	1782.2	4.3	0.7	2.0
20	1802.3	76.7	1.2	3.5	1781.7	3.8	0.7	1.9
21	1801.8	73.4	1.3	3.0	1781.3	3.5	0.7	1.4
22	1800.9	67.5	0.6	3.5	1781.0	3.2	0.7	0.7
23	1799.3	57.8	1.9**	6.8	1780.9	3.1	0.6	0.7
24	1797.3	46.8	3.0	8.6	1780.5	2.8	0.6	1.0
25	1795.4	37.7	2.8	7.4	1780.1	2.6	0.6	1.0
26	1793.6	30.3	2.9	6.6	1779.9	2.4	0.6	0.4
27	1792.0	24.5	3.1	6.0	1779.9	2.4	0.6	0.2
28	1790.7	20.5	2.7	4.7	1780.3	2.7	0.6	0
29	1789.7	17.7	2.3	3.7	1780.6	2.9	0.6	0
30	1788.7	15.2	2.2	3.5	1780.5	2.8	0.6	1.1
31	1787.7	13.0	2.2	3.3				
TOTAL			46.8	144.5			28.6	33.7
Inf. Ac. Ft.			92.8				56.7	
Outf. Ac. Ft.			286.6				66.9	
Maximum Mean Daily Inflow			3.1				2.1	
Minimum Mean Daily Inflow			0.8				0.6	
Storage Change			-193.8				-10.2	

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	½ Year
1	1780.4	2.8	[0.7	0.8	1801.9	74.0	11.3	0	
2	1780.3	2.7	0.6	0.6	1804.7	93.8	10.0	0	
3	1780.3	2.7	0.6	0.6	1804.9	95.3	9.0	8.2	
4	1780.3	2.7	0.6	0.6	1806.1	104.4	8.6	4.0	
5	1780.3	2.7	0.6	0.6	1803.1	82.2	8.0	19.2	
6	1780.5	2.8	0.6	0.5	1801.7	72.7	10.1	14.9	
7	1780.8	3.1	0.6	0.3	1797.9	49.9	9.2	20.7	
8	1780.8	3.1	0.6	1.0	1800.1	62.5	8.4	2.1	
9	1780.9	3.1	1.0	2.0	1801.4	70.7	6.2	2.0	
10	1781.2	3.4	1.0	1.0	1802.9	80.8	6.9	1.8	
11	1781.3	3.5	1.0	1.0	1795.3	37.3	5.6	27.6	
12	1781.4	3.5	0.9	1.2	1788.6	15.0	4.8	16.0	
13	1781.3	3.5	0.9	2.1	1788.3	14.3	4.1	4.5	
14	1781.2	3.4	0.9	0.6	1787.9	13.4	4.0	4.4	
15	1781.1	3.3	0.9	0.4	1790.9	21.0	3.8	0	
16	1781.1	3.3	0.9	0.8	1792.8	27.3	3.2	0	
17	1776.7	1.1	0.9	1.3	1793.0	28.0	3.2	2.8	
18	1778.3	1.6	0.9	0	1794.6	34.3	3.1	0	
19	1779.5	2.2	0.9	0	1795.1	36.4	2.5	1.4	
20	1786.5	10.6	4.2	0	1796.3	41.8	2.7	0	
21	1798.0	50.4	34.2	14.1	1797.1	45.7	3.2	1.2	
22	1802.1	75.4	12.6	0	1798.1	51.0	2.6	0	
23	1804.8	94.5	9.6	0	1799.6	59.5	4.3	0	
24	1806.7	109.2	7.4	0	1800.6	65.6	5.0	1.9	
25	1808.3	122.3	6.6	0	1802.0	74.7	4.6	0	
26	1809.7	134.3	6.1	0	1795.0	35.9	4.2	23.8	
27	1803.8	87.2	5.8	29.5	1796.0	40.4	3.7	1.4	
28	1804.4	91.6	6.4	4.2	1796.0	40.4	3.6	3.6	
29	1800.5	65.0	9.4	22.8	1795.1	36.4	3.0	5.0	
30	1798.2	51.5	9.5	16.3	1796.8	44.2	3.9	0	
31	1798.2	51.5	14.0	14.0	1797.4	47.3	4.6	3.0	
TOTAL			140.9	116.3			167.4	169.5	
Inf. Ac. Ft.			279.4				332.0		760.9
Outf. Ac. Ft.			230.7				336.2		920.4
Maximum Mean Daily Inflow			34.2				11.3		34.2
Minimum Mean Daily Inflow			0.6				2.5		0.6
Storage Change			+48.7				-4.2		-159.5

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1951.6	feet	on 5/21-22/44	Storage	4817.7	Acre Feet		
Min. W. S. Elev.	1775.6	feet	on 12-17-43	Storage	0.75	Acre Feet		
Max. Peak Inf.	1790	C.F.S. from	9:30 A.M.	on 2-22-44	to 10:00 A.M.	on 2-22-44		
Max. Peak Outf.	326	C.F.S. from	1:00 P.M.	on 3-2-44	to 6:00 P.M.	on 3-3-44		

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
L. L. Moore	Dam Tender	Gage Hts. copied	FHM	
J. W. Luce	Hydrographer	Storage applied	KFS & CEB	
	Hydrographer	Inf. & Outf. comp.	KFS	

REMARKS ** Indicates inflow increased from bank storage. [Indicates total for period or prorated daily amounts. Ckd. JEG 1/11/45
* 169.8 A.F. storage loss due to debris beginning October 1, 1943 based on survey of December 1944.

F. C. Dist. Form 68B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam
In/On Pacoima Canyon for the Year Ending September 30, 1944
Continuous Water Stage Recorder Au
Drainage Area 27.8 Square Miles. Capacity of Reservoir 4714.4 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of December, 1944
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
1	1796.3	41.8	3.9	6.7	1872.0	1215.7	162.9	129.0
2	1798.0	50.4	4.4	0	1879.9	1435.9	351.0	240.0
3	1799.2	57.2	4.6	1.2	1875.5	1309.9	241.5	305.0
4	1801.0	68.1	5.5	0	1877.5	1366.0	216.3	188.0
5	1802.6	78.8	5.4	0	1879.8	1433.0	219.8	186.0
6	1803.5	85.1	5.5	2.3	1878.6	1397.7	191.2	209.0
7	1803.7	86.5	6.7	6.0	1875.5	1309.9	165.7	210.0
8	1803.4	84.3	6.9	8.0	1875.6	1312.6	149.4	148.0
9	1804.1	89.3	10.4	7.9	1878.1	1383.1	146.5	111.0
10	1803.8	87.2	8.3	9.4	1881.0	1469.2	151.4	108.0
11	1803.3	83.6	7.5	9.3	1883.5	1547.6	144.6	105.0
12	1804.0	88.6	6.0	3.5	1885.6	1616.0	140.4	106.0
13	1804.1	89.3	7.0	6.6	1886.9	1659.4	127.9	106.0
14	1803.5	85.1	6.7	8.8	1887.4	1676.3	114.5	106.0
15	1803.7	86.5	6.7	6.0	1887.3	1672.9	104.3	106.0
16	1803.8	87.2	6.3	6.0	1886.7	1652.7	93.9	104.0
17	1803.2	82.9	5.7	7.9	1885.9	1625.9	89.4	103.0
18	1803.5	85.1	6.0	4.8	1886.9	1659.4	81.3	64.4
19	1804.0	88.6	7.2	5.5	1891.0	1801.1	71.8	0.3
20	1812.5	159.8	58.5	22.6	1894.6	1930.1	65.3	0.3
21	1821.2	251.8	119.4	73.0	1897.8	2049.2	60.4	0.3
22	1891.8	1829.4	898.4	103.0	1900.6	2157.6	54.9	0.3
23	1896.1	1985.3	353.6	275.0	1903.2	2261.5	52.7	0.3
24	1893.1	1875.9	178.8	234.0	1905.7	2364.7	52.3	0.3
25	1890.0	1765.9	135.6	191.0	1908.0	2462.2	49.5	0.3
26	1885.7	1619.3	115.1	189.0	1910.0	2548.9	44.0	0.3
27	1880.0	1438.9	96.0	187.0	1911.9	2633.2	42.8	0.3
28	1873.9	1266.2	89.9	177.0	1913.7	2714.8	41.3	0.2
29	1869.4	1148.4	90.6	150.0	1915.4	2793.5	39.8	0.1
30					1917.0	2869.0	38.2	0.1
31					1918.5	2941.2	36.5	0.1
TOTAL			2256.6	1701.5			3541.5	2637.6
Inf. Ac. Ft.			4475.9				7024.4	
Outf. Ac. Ft.			3374.8				5231.6	
Maximum Mean Daily Inflow			898.4				351.0	
Minimum Mean Daily Inflow			3.9				36.5	
Storage Change			+1101.1				+1792.8	

Day	APRIL Gage Height	APRIL Acre Ft. Storage	APRIL C.F.S. Inflow	APRIL C.F.S. Outflow	MAY Gage Height	MAY Acre Ft. Storage	MAY C.F.S. Inflow	MAY C.F.S. Outflow	½ Year
1	1919.9	3009.8	34.7	0.1	1945.0	4401.9	18.7	0.3	
2	1921.2	3074.6	32.9	0.2	1945.5	4432.6	15.8	0.3	
3	1922.5	3140.4	33.3	0.2	1946.0	4463.3	15.8	0.3	
4	1923.7	3201.9	31.2	0.2	1946.5	4494.3	16.0	0.4	
5	1924.9	3264.1	31.6	0.2	1946.9	4519.0	12.8	0.4	
6	1926.0	3321.7	29.2	0.2	1947.3	4543.9	13.0	0.4	
7	1927.1	3379.8	29.5	0.2	1947.7	4568.9	13.0	0.4	
8	1928.1	3433.0	27.0	0.2	1948.1	4593.9	13.0	0.4	
9	1929.1	3486.5	27.2	0.2	1948.5	4619.1	13.1	0.4	
10	1930.0	3535.1	24.7	0.2	1948.9	4644.3	13.1	0.4	
11	1931.0	3589.6	27.7	0.2	1949.3	4669.7	13.2	0.4	
12	1931.9	3639.0	25.1	0.2	1949.7	4695.3	13.3	0.4	
13	1932.7	3683.4	22.6	0.2	1950.0	4714.4	10.1	0.4	
14	1933.5	3728.0	22.7	0.2	1950.3	4733.7	10.1	0.4	
15	1934.3	3772.9	22.8	0.2	1950.7	4759.5	13.4	0.4	
16	1935.1	3818.1	23.0	0.2	1951.0	4778.8	10.1	0.4	
17	1935.8	3858.1	20.4	0.2	1951.3	4798.3	10.4	0.5	
18	1936.4	3892.5	17.5	0.2	1951.3	4798.3	[10.7	10.7	
19	1937.1	3932.8	20.6	0.3	1951.4	4804.8	10.5	7.3	
20	1937.8	3973.4	20.8	0.3	1951.5	4811.3	10.3	7.0	
21	1938.4	4008.4	17.9	0.3	1951.6	4817.7	10.1	6.9	
22	1939.0	4043.4	18.0	0.3	1951.5	4811.3	10.0	13.2	
23	1939.6	4078.6	18.0	0.3	1950.8	4765.9	9.8	32.7	
24	1940.2	4113.8	18.1	0.3	1950.5	4746.6	9.6	19.3	
25	1940.7	4143.4	15.2	0.3	1950.4	4740.2	9.4	12.6	
26	1941.3	4179.0	18.3	0.3	1945.4	4426.5	9.3	167.5	
27	1942.5	4250.6	36.4	0.3	1938.6	4020.0	9.2	214.1	
28	1943.2	4292.6	21.4	0.3	1933.5	3728.0	9.1	156.4	
29	1943.8	4328.9	18.6	0.3	1928.8	3470.4	8.9	138.7	
30	1944.4	4365.4	18.7	0.3	1924.1	3222.5	8.8	133.8	
31					1918.5	2941.2	8.7	150.5	
TOTAL			725.1	7.1			359.3	1077.3	
Inf. Ac. Ft.			1438.3				712.6		14412.1
Outf. Ac. Ft.			14.1				2136.8		11677.7
Maximum Mean Daily Inflow			34.7				18.7		898.4
Minimum Mean Daily Inflow			15.2				8.7		0.6
Storage Change			+1424.2				-1424.2		+2734.4

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1951.6	feet	on 5/21-22/44	Storage	4817.7	Acre Feet		
Min. W. S. Elev.	1775.6	feet	on 12-17-1943	Storage	0.75	Acre Feet		
Max. Peak Inf.	1790	C.F.S. from	9:30 A.M.	on 2-22-44	to 10:00 A.M.	on 2-22-44		
Max. Peak Outf.	326	C.F.S. from	1:00 P.M.	on 3-2-44	to 6:00 P.M.	on 3-3-44		

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
L. L. Moore	Dam Tender	Gage Hts. copied	KFS	
J. W. Luce	Hydrographer	Storage applied	KFS & CEB	
	Hydrographer	Inf. & Outf. comp.	KFS	

REMARKS - Flow over sandbagged spillway from May 18th., to May 26th., does not pass Station F 118-BR. Ckd. JEG 1/11/45
[Indicates total for period or prorated daily amounts.

PACOIMA (CONT.)

F. C. Dist. Form 68C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 27.8 Square Miles. Capacity of Reservoir 4714.4 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of December, 1944

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	1912.2	2646.7	8.6	157.1	1794.2	32.6	3.7	4.8	1796.6	43.3	1.0	1.0	1797.0	45.2	0.8	0.8	1
2	1905.4	2352.2	8.5	157.0	1793.9	31.4	3.4	4.0	1796.6	43.3	1.0	1.0	1797.0	45.2	0.8	0.8	2
3	1898.1	2060.6	8.3	155.3	1793.8	31.0	2.1	2.3	1796.7	43.8	1.1	1.0	1797.0	45.2	0.8	0.8	3
4	1890.3	1776.5	8.2	151.4	1794.5	33.9	3.3	1.8	1796.7	43.8	1.0	1.0	1797.0	45.2	0.8	0.8	4
5	1881.8	1493.9	8.0	150.5	1795.2	36.8	3.2	1.7	1796.7	43.8	1.1	1.0	1797.0	45.2	0.8	0.8	5
6	1872.0	1215.7	7.8	148.0	1795.5	38.2	2.4	1.7	1796.8	44.2	1.0	1.0	1796.9	44.7	0.7	0.8	6
7	1858.6	888.3	7.6	172.7	1795.9	40.0	2.6	1.7	1796.8	44.2	1.1	1.0	1796.8	44.2	0.6	0.8	7
8	1841.6	549.8	7.5	178.2	1796.2	41.4	2.4	1.7	1796.8	44.2	1.0	1.0	1796.7	43.8	0.5	0.8	8
9	1818.2	217.6	7.3	174.7	1796.6	43.3	2.6	1.7	1796.8	44.2	1.1	1.0	1796.6	43.3	0.5	0.8	9
10	1803.0	81.5	7.1	75.8	1796.9	44.7	2.4	1.7	1796.8	44.2	1.0	1.0	1796.5	42.8	0.5	0.8	10
11	1798.4	52.6	6.9	21.4	1797.2	46.2	2.5	1.7	1796.8	44.2	0.9	1.0	1796.4	42.3	0.5	0.8	11
12	1785.8	9.3	6.7	28.6	1797.3	46.8	2.6	2.3	1797.0	45.2	0.8	0.3	1796.3	41.8	0.5	0.8	12
13	1782.0	4.1	6.6	9.2	1797.2	46.2	2.1	2.4	1797.3	46.8	0.8	0.1	1796.2	41.4	0.6	0.8	13
14	1784.0	6.4	6.4	5.2	1797.1	45.7	2.7	3.0	1797.6	48.3	0.8	0	1796.1	40.9	0.5	0.7	14
15	1790.0	18.5	6.3	0.2	1796.9	44.7	2.5	3.0	1797.8	49.4	0.8	0	1796.0	40.4	0.5	0.7	15
16	1793.3	29.1	6.1	0.8	1796.7	43.8	2.5	2.9	1798.1	51.0	0.8	0	1796.1	40.9	0.4	0.2	16
17	1787.0	11.5	5.9	14.8	1796.2	41.4	2.0	3.2	1798.4	52.6	0.8	0	1796.3	41.8	0.5	0	17
18	1789.6	17.5	5.7	2.6	1795.9	40.0	1.7	2.4	1798.5	53.2	0.8	0.5	1796.5	42.8	0.5	0	18
19	1790.3	19.3	5.6	4.7	1795.8	39.5	1.5	1.8	1798.4	52.6	0.8	1.1	1796.7	43.8	0.5	0	19
20	1790.7	20.5	6.4	5.8	1795.8	39.5	1.4	1.4	1798.3	52.1	0.9	1.2	1796.9	44.7	0.4	0	20
21	1791.9	24.2	4.6	2.8	1795.9	40.0	1.3	1.0	1798.2	51.5	0.9	1.2	1797.1	45.7	0.5	0	21
22	1794.9	35.5	5.7	0	1796.1	40.9	1.4	1.0	1798.1	51.0	0.9	1.2	1797.2	46.2	0.5	0.4	22
23	1796.9	44.7	4.7	0	1796.3	41.8	1.5	1.0	1798.0	50.4	0.8	1.2	1797.1	45.7	0.5	0.6	23
24	1798.6	53.8	4.6	0	1796.4	42.3	1.2	1.0	1797.9	49.9	0.9	1.2	1797.1	45.7	0.6	0.7	24
25	1800.3	63.8	5.0	0	1796.4	42.3	1.0	1.0	1797.7	48.8	0.9	1.2	1797.0	45.2	0.6	0.7	25
26	1783.7	6.0	7.1	36.2	1796.4	42.3	1.0	1.0	1797.6	48.3	0.9	1.2	1797.0	45.2	0.6	0.7	26
27	1789.4	16.9	5.5	0	1796.4	42.3	1.0	1.0	1797.5	47.8	0.8	1.2	1796.9	44.7	0.6	0.7	27
28	1792.5	26.3	4.7	0	1796.5	42.8	1.3	1.0	1797.3	46.8	0.8	1.2	1796.9	44.7	0.6	0.7	28
29	1794.5	33.9	3.8	0	1796.5	42.8	1.0	1.0	1797.2	46.2	0.8	1.2	1796.8	44.2	0.6	0.7	29
30	1794.7	34.7	3.6	3.2	1796.5	42.8	1.0	1.0	1797.0	45.2	0.8	1.1	1796.8	44.2	0.6	0.7	30
31					1796.6	43.3	1.2	1.0	1797.0	45.2	0.8	0.8					31
TOTAL			190.8	1656.2			62.5	58.2			27.9	26.9			17.4	17.9	
Inf. Ac. Ft.		378.5				124.0				55.3					34.5	15004.4	
Outf. Ac. Ft.		3285.0				115.4				53.4					35.5	15167.0	
Maximum Mean Daily Inflow		8.6				3.7				1.1					0.8	898.4	
Minimum Mean Daily Inflow		3.6				1.0				0.8					0.4	0.4	
Storage Change		-2906.5				+8.6				+1.9					-1.0	-162.6	
																Yearly Totals	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1951.6	feet on 5/21-22/44	Storage 4817.7	Acre Feet				
Min. W. S. Elev.	1775.6	feet on 12-17-43	Storage 0.75	Acre Feet				
Max. Peak Inf.	1790	C.F.S. from 9:30 A.M. on 2-22-44	to 10:00 A.M. on 2-22-44					
Max. Peak Outf.	326	C.F.S. from 1:00 P.M. on 3-2-44	to 6:00 P.M. on 3-3-44					

RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
L. L. Moore	Dam Tender	Gage Hts. copied	KFS 2/20/44
J. W. Luce	Hydrographer	Storage applied	KFS & OEB
	Hydrographer	Inf. & Outf. comp.	KFS

REMARKS (Indicates total for period or prorated daily amounts. Ckd. JEG 1/11/45

BIG TUJUNGA

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Big Tujunga Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 81.4 Square Miles. Capacity of Reservoir 4236.0 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of April, 1943

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	2145	0	5.0	5.0	2145 ±	0	5.9	5.9	2191.2	258.8	6.4	0.7	2206.8	516.8	22.0	21	1
2	2145	0	5.0	5.0	2145 ±	0	5.7	5.7	2192.0	269.2	5.9	0.7	2207.2	525.3	25.3	21	2
3	2145	0	5.0	5.0	2145 ±	0	5.5	5.5	2192.5	275.8	5.8	2.4	2207.8	538.1	27.4	21	3
4	2145	0	5.0	5.0	2145 ±	0	5.3	5.3	2193.0	282.4	6.6	3.3	2207.9	540.3	22.2	21	4
5	2145	0	5.0	5.0	2145 ±	0	5.1	5.1	2193.5	289.3	6.9	3.4	2207.9	540.3	21.0	21	5
6	2145	0	5.0	5.0	2145 ±	0	5.1	5.1	2194.3	300.5	9.1	3.5	2208.7	557.5	29.6	21	6
7	2145	0	5.0	5.0	2145 ±	0	5.1	5.1	2194.8	307.6	7.2	3.6	2209.1	566.2	25.4	21	7
8	2145	0	5.0	5.0	2152.7	c 3.4	5.3	3.6	2195.3	314.8	7.3	3.7	2209.1	566.2	21.0	21	8
9	2145	0	5.0	5.0	2157.8	c 13.7	5.5	0.3	2195.8	322.1	7.5	3.8	2209.1	566.2	21.0	21	9
10	2145	0	5.0	5.0	2161.4	c 24.2	5.6	0.3	2200.8	401.8	44.7	4.5	2209.0	564.0	19.9	21	10
11	2145	0	5.0	5.0	2164.3	c 34.9	5.7	0.3	2211.2	612.8	110.4	4.0	2209.0	564.0	22.0	22	11
12	2145	0	5.1	5.1	2166.7	c 45.6	5.7	0.3	2212.9	651.9	31.9	12.2	2208.7	557.5	18.7	22	12
13	2145	0	5.1	5.1	2168.8	56.3	5.8	0.4	2212.7	647.2	18.6	21	2208.4	551.0	18.8	22	13
14	2145	0	5.1	5.1	2170.8	67.6	6.2	0.5	2212.2	635.6	15.2	21	2208.1	544.6	18.7	22	14
15	2145	0	5.1	5.1	2172.5	78.0	5.7	0.5	2211.6	621.9	14.1	21	2207.8	538.1	18.7	22	15
16	2145	0	5.1	5.1	2174.0	87.8	5.6	0.6	2211.0	608.2	14.1	21	2207.5	531.7	18.8	22	16
17	2145	0	5.1	5.1	2175.5	98.4	5.9	0.6	2110.3	592.7	13.1	21	2207.1	523.1	17.7	22	17
18	2145	0	7.5	7.5	2177.0	109.8	6.5	0.7	2211.5	619.6	34.6	21	2206.5	510.6	15.7	22	18
19	2145	0	8.0	8.0	2178.3	120.8	6.2	0.7	2217.8	770.8	97.2	21	2205.9	498.2	15.7	22	19
20	2145	0	7.0	7.0	2179.7	133.5	7.1	0.7	2220.0	826.8	94.3	66	2205.6	492.1	16.2	19.2	20
21	2145	0	6.6	6.6	2181.0	146.0	7.0	0.7	2219.4	811.4	156.2	164	2205.5	490.1	17.0	18.1	21
22	2145	0	6.2	6.2	2182.2	158.0	6.8	0.7	2206.6	512.7	53.4	204	2205.3	486.0	16.1	18.1	22
23	2145	0	6.2	6.2	2183.4	170.3	6.9	0.7	2198.9	370.1	32.1	104	2205.2	484.0	17.1	18.1	23
24	2145	0	6.3	6.3	2184.5	181.6	6.4	0.7	2199.7	383.3	28.7	22	2205.6	492.1	22.2	18.1	24
25	2145	0	6.3	6.3	2185.6	193.2	6.5	0.7	2200.9	403.5	23.8	13.6	2205.7	494.1	19.1	18.1	25
26	2145	0	6.4	6.4	2186.6	204.1	6.2	0.7	2201.7	417.5	21.1	14.1	2205.6	492.1	17.1	18.1	26
27	2145	0	6.4	6.4	2187.6	215.3	6.3	0.7	2202.1	424.6	18.1	14.5	2205.7	494.1	16.5	15.5	27
28	2145	0	6.5	6.5	2188.5	225.8	6.0	0.7	2202.8	437.5	21.4	14.9	2206.2	504.4	17.0	11.8	28
29	2145	0	6.5	6.5	2189.4	236.5	6.1	0.7	2204.3	466.1	29.7	15.3	2206.6	512.7	16.1	12.0	29
30	2145	0	6.3	6.3	2190.3	247.5	6.3	0.7	2205.9	498.2	32.1	15.9	2207.1	523.1	17.5	12.2	30
31	2145	0	6.1	6.1					2206.7	514.8	27.7	19.3	2207.8	538.1	20.3	12.8	31
TOTAL			177.9	177.9			179.0	54.2			995.2	860.4			611.8	600.1	
Inf. Ac. Ft.			352.8				355.0				1973.9				1213.5	3895.2	
Outf. Ac. Ft.			352.8				107.5				1706.6				1190.2	3357.1	
Maximum Mean Daily Inflow			8.0				7.1				156.2				27.4	156.2	
Minimum Mean Daily Inflow			5.0				5.1				5.8				15.7	5.0	
Storage Change		0				+247.5				+267.3					+23.3	+538.1	
																½ Year	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2263.3	feet on 2-22-44	Storage 2485.3	Acre Feet				
Min. W. S. Elev.	2145 ±	feet on Various Days	Storage 0	Acre Feet				
Max. Peak Inf.	4770	C.F.S. from 9:00 A.M. on 2-22-44	to 9:30 A.M. on 2-22-44					
Max. Peak Outf.	3310	C.F.S. from 12:00 Noon on 2-22-44	to 4:00 P.M. on 2-22-44					

RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
D. J. Robertson	Dam Tender	Gage Hts. copied	SEB & JEG
S. E. Blakely	Hydrographer	Storage applied	SEB & PAH
	Hydrographer	Inf. & Outf. comp.	SEB & PAH

REMARKS Outflows based on valve operation records and station F 168-R records. c indicates computed volumetrically. Ckd. JEG-PAH 3/5/45
(Indicates total for period or prorated daily amounts. " KDV 8/31/1945

BIG TUJUNGA (CONT.)

F. C. Dist. Form 68B Revised 300 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam No. 1

In Big Tujunga Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 81.4 Square Miles. Capacity of Reservoir 4236.0 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of April 1943 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	2208.6	555.4	21.7	13.0	2238.6	1392.2	284.5	223	2259.4	2280.0	145.1	140	2145*	0	67	67	1
2	2209.1	566.2	18.6	13.1	2237.7	1360.0	684.2	704	2259.5	2285.1	140.6	138			65	65	2
3	2209.7	579.4	19.9	13.3	2235.2	1273.8	380.6	424	2258.9	2254.8	141.7	157			64	64	3
4	2211.1	610.5	31.3	15.6	2236.6	1321.6	329.1	305	2256.4	2131.6	135.9	198			62	62	4
5	2211.7	624.2	26.9	20	2238.1	1374.2	393.5	367	2252.5	1949.3	129.1	221			61	61	5
6	2212.0	631.0	24.4	21	2241.9	1513.4	340.2	270	2246.0	1673.4	115.9	255			59	59	6
7	2212.2	635.6	23.4	21	2245.0	1633.5	305.5	245	2237.4	1349.5	108.7	272			56	56	7
8	2213.0	654.2	30.3	21	2248.2	1763.4	289.5	224	2226.9	1015.7	89.7	258			53	53	8
9	2214.1	680.2	34.1	21	2252.0	1926.8	324.4	242	2216.1	728.7	97.3	242			49	49	9
10	2214.6	692.2	27.1	21	2256.1	2117.0	389.9	294	2206.1	502.3	88.8	203			49	49	10
11	2214.8	697.0	23.4	21	2257.8	2200.0	402.8	361	2199.8	384.9	89.8	149			45	45	11
12	2215.0	701.8	23.4	21	2257.4	2180.3	386.1	396	2194.2	299.0	89.7	133			44	44	12
13	2215.0	701.8	21.0	21	2255.4	2083.5	343.2	392	2189.5	237.7	87.1	118			41	41	13
14	2215.0	701.8	21.0	21	2250.9	1878.5	284.7	388	2186.4	201.9	86.0	104			41	41	14
15	2215.1	704.2	22.2	21	2245.8	1665.4	244.5	352	2186.2	199.7	79.9	81	SLUICING		41	41	15
16	2215.2	706.7	22.3	21	2254.3	2031.6	209.6	25	2173.8	c 86.7	77.0	134			41	41	16
17	2215.2	706.7	21.0	21	2256.9	2155.8	224.7	162	2145±	0	71.3	115			40	40	17
18	2215.2	706.7	21.0	21	2258.6	2239.8	249.3	207			73.0	73			42	42	18
19	2215.4	711.6	23.5	21	2259.4	2280.0	252.3	232			71.0	71			40	40	19
20	2215.5	714.0	81.2	80	2259.6	2290.2	239.1	234			71.0	71			40	40	20
21	2223.2	911.7	209.7	110	2258.4	2229.8	206.6	237			67.0	67			38	38	21
22	2250.5	1861.1	2778.6	2300	2256.7	2146.1	189.8	232			65.0	65			37	37	22
23	2225.6	978.5	615.0	1060	2252.8	1962.8	196.6	289			63.0	63			36	36	23
24	2217.4	760.8	302.3	412	2257.0	2160.6	211.7	112	SLUICING	STORAGE	65.0	65			37	37	24
25	2222.5	892.7	212.5	146	2258.3	2224.8	204.3	172			62.0	62			34	34	25
26	2228.4	1059.6	176.1	92	2258.8	2249.8	186.7	174			62.0	62			33	33	26
27	2229.7	1098.5	145.6	126	2258.7	2244.8	173.4	176		NO	91.0	91			33	33	27
28	2232.7	1191.8	148.1	101	2258.0	2209.8	156.4	174			78.0	78			32	32	28
29	2235.3	1277.2	153.0	110	2257.0	2160.6	147.2	172			71.0	71			32	32	29
30					2259.1	2264.9	145.6	93	2145±	0	68.0	68			32	32	30
31					2259.2	2269.9	146.5	144					2145±	0	32	32	31
TOTAL			5278.6	4906.0			8522.5	8022			2680.6	5825			1376	1376	
Inf. Ac. Ft.		10469.9				16904.1					5316.9				2729.3	39315.4	
Outf. Ac. Ft.			9730.8				15911.4					7586.8			2729.3	39315.4	
Maximum Mean Daily Inflow			2778.6				684.2				145.1				67	2778.6	
Minimum Mean Daily Inflow			18.6				145.6				62				32	5.0	
Storage Change		+739.1				+992.7				-2269.9				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — % Year

Max. W. S. Elev.	2263.3	feet on	2-22-44	Storage	2485.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	2145 ±	feet on	Various Days	Storage	0	Acre Feet	D.J. Robertson	Dam Tender	Gage Hts. copied	SEB & JEG
Max. Peak Inf.	4770	C.F.S. from	9:00 A.M. on 2-22-44	to	9:30 A.M. on	2-22-44	S.E. Blakely	Hydrographer	Storage applied	SEB & PAH
Max. Peak Outf.	3310	C.F.S. from	12:00 Noon on 2-22-44	to	4:00 P.M. on	2-22-44		Hydrographer	Inf. & Outf. comp.	SEB & PAH
REMARKS	C Indicates computed from outflow and estimated inflow.								Ckd.	JEG 1/15/45
									"	PAH 3/5/45
									"	KDV 8/31/45

F. C. Dist. Form 68C Revised 300 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam No. 1

In Big Tujunga Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 81.4 Square Miles. Capacity of Reservoir 4235.3 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of June 1944 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	2145±	0	32	32	2204.0	480.5	15.6	4.5	2222.7	901.9	8.9	10.2	2216.1	736.0	6.2	9.3	1
2			32	32	2205.2	503.1	15.8	4.4	2222.6	899.3	8.9	10.2	2215.9	733.3	6.2	9.4	2
3			31	31	2206.3	524.4	15.0	4.3	2222.5	896.7	8.7	10.2	2215.6	726.2	6.2	9.5	3
4			29	29	2207.3	544.1	14.1	4.1	2222.4	894.0	8.7	10.1	2215.4	721.6	6.2	9.6	4
5			28	28	2208.3	564.4	14.2	4.0	2222.3	891.4	8.6	10.0	2215.0	712.2	6.2	9.7	5
6	Sluicing		28	28	2209.2	583.1	13.2	3.8	2222.1	886.1	8.5	10.0	2214.7	705.3	6.2	9.8	6
7			28	28	2210.1	602.3	13.6	3.9	2222.0	883.5	8.2	9.9	2214.4	698.4	6.2	9.9	7
8		Storage	27	27	2211.0	621.8	13.8	4.0	2221.8	878.3	8.2	9.8	2214.1	691.5	6.2	9.9	8
9			28	28	2211.8	639.5	13.7	4.1	2221.7	875.8	8.0	9.8	2213.8	684.6	6.2	9.9	9
10		No	28	28	2212.7	659.7	13.7	4.2	2221.5	870.6	7.9	9.7	2213.4	675.5	6.2	9.9	10
11			26	26	2213.5	677.8	13.5	4.3	2221.4	868.0	7.9	9.7	2213.1	668.7	6.3	9.9	11
12			24	24	2214.3	696.1	13.5	4.3	2221.2	862.9	7.8	9.7	2212.8	661.9	6.4	9.8	12
13	2145±	0	23	23	2215.0	712.2	12.5	4.4	2221.0	857.7	7.5	9.7	2212.5	655.2	6.4	9.8	13
14	2155.5	10.9	23.4	15.5	2215.7	728.6	12.7	4.4	2220.8	852.6	7.3	9.6	2212.1	646.2	7.0	9.8	14
15	2168.1	56.7	23.4	0.5	2216.4	745.0	12.6	4.4	2220.6	847.6	7.1	9.6	2211.8	639.5	6.8	9.8	15
16	2175.3	104.9	23.4	0.5	2217.0	759.2	11.6	4.4	2220.5	845.1	7.0	9.6	2211.5	632.9	6.7	9.8	16
17	2180.6	152.0	23.4	0.5	2217.6	773.6	11.7	4.4	2220.3	840.0	7.0	9.6	2211.2	626.2	6.7	9.7	17
18	2184.8	196.1	22.8	0.5	2218.1	785.6	10.4	4.4	2220.1	834.9	7.0	9.6	2211.0	621.8	6.7	9.7	18
19	2188.3	237.5	21.3	0.5	2218.6	797.8	10.6	4.4	2219.8	827.4	7.0	9.5	2210.8	617.5	6.6	9.7	19
20	2191.5	279.1	21.5	0.5	2219.0	807.6	9.8	4.4	2219.5	820.0	6.4	9.5	2210.6	613.1	6.5	9.7	20
21	2194.5	321.8	22.0	0.5	2219.4	817.5	9.7	4.4	2219.3	815.0	6.3	9.5	2210.3	606.6	6.4	9.7	21
22	2197.1	361.6	20.6	0.5	2219.8	827.4	9.5	4.5	2219.0	807.6	5.7	9.4	2210.0	600.1	6.3	9.6	22
23	2199.5	400.8	20.3	0.5	2220.1	834.9	9.4	4.6	2218.8	802.7	5.7	9.4	2209.7	593.7	6.3	9.5	23
24	2201.9	442.3	21.4	0.5	2220.5	845.1	9.3	4.6	2218.5	795.4	5.7	9.4	2209.4	587.3	6.2	9.4	24
25	2204.1	482.4	20.7	0.5	2220.9	855.2	9.2	4.7	2218.2	788.1	5.7	9.4	2209.1	580.9	6.1	9.3	25
26	2204.2	484.3	19.6	17.3	2221.2	862.9	9.2	4.7	2217.9	780.8	5.7	9.4	2208.7	572.6	6.0	9.2	26
27	2203.1	463.9	19.0	28	2221.6	873.2	9.2	4.8	2217.6	773.6	5.7	9.3	2208.4	566.4	5.8	9.1	27
28	2201.6	437.1	18.2	33	2221.9	880.9	9.1	4.8	2217.3	766.4	5.7	9.3	2208.0	558.2	5.8	9.0	28
29	2201.4	433.5	17.5	19.9	2222.2	888.8	9.1	4.8	2217.0	759.2	5.6	9.2	2207.7	552.2	5.6	9.0	29
30	2202.8	458.5	16.5	4.6	2222.5	896.7	8.8	4.8	2216.7	752.1	5.6	9.2	2207.5	548.2	5.5	8.9	30
31					2222.7	901.9	8.7	7.5	2216.4	745.0	5.6	9.2					31
TOTAL			719.0	487.8			368.8	139.3			219.6	298.7			188.1	287.3	
Inf. Ac. Ft.		1426.0					719.6				435.6				373.1	42269.7	
Outf. Ac. Ft.			967.5					276.2				592.5			569.9	41721.5	
Maximum Mean Daily Inflow			32				15.8				8.9				7.0	2778.6	
Minimum Mean Daily Inflow			16.5				8.7				5.6				5.5	5.0	
Storage Change		+458.5				+443.4				-156.9				- 196.8		+548.2	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	2263.3	feet on	2-22-44	Storage	2485.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	2145 ±	feet on	Various Days	Storage	0	Acre Feet	D. J. Robertson	Dam Tender	Gage Hts. copied	SEB & JEG
Max. Peak Inf.	4770	C.F.S. from	9:00 A.M. on 2-22-44	to	9:30 A.M.	on 2-22-44	S. E. Blakely	Hydrographer	Storage applied	SEB & PAH
Max. Peak Outf.	3310	C.F.S. from	12:00 Noon on 2-22-44	to	4:00 P.M.	on 2-22-44		Hydrographer	Inf. & Outf. comp.	SEB & PAH
REMARKS	Indicates total for period or prorated daily amounts.								Ckd.	PAH 3/5/45
									"	KDV 8/31/45

DEVILS GATE

F. C. Dist. Form 68A (Revised 300) 11/44

Daily Gage Height in feet and Operation Record of DEVILS GATE Dam

In Arroyo Seco for the Year Ending September 30, 1944

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder All

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2504.1 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December 1943. 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	1017.4	507	0	3.6	1009	0	0	0	1009	0	0	0	1023.7	245.1	5.1	0	1
2	1017.0	429	0	3.6			0	0	1009	0	0	0	1023.7	245.1	1.3	0	2
3	1016.5	356	0	3.5			0	0	1009	0	0	0	1023.6	241.3		0	3
4	1016.0	282	0	3.4			0	0	1009	0	0	0	1023.5	237.6	1.1	0	4
5	1015.3	206	0	3.4			0	0	1009	0	0	0	1023.5	237.6		0	5
6	1014.5	136	0	3.4			0	0	1012.2	3.2	1.9	0	1023.5	237.6		0	6
7	1013.2	6.1	0	3.4			0	0	1011.8	2.4	0	0	1023.4	233.8	0	0	7
8	1011.8	2.4	0	2.0			0	0	1011.2	1.5	0	0	1023.3	230.0	0	0	8
9	1011.6	2.1	0	0			0	0	1010.9	1.2	0	0	1023.3	230.0	0	0	9
10	1011.5	2.0	0	0			0	0	1017.5	52.7	26.3	0	1023.2	226.2	0	0	10
11	1009.4	0.2	0	0.3			0	0	1020.1	119.0	34.7	0	1023.2	226.2	0	0	11
12	1009.	0	0	0.1			0	0	1020.5	131.8	7.8	0	1023.1	222.4	0	0	12
13			0	0			0	0	1020.4	128.6	0	0	1023.1	222.4	0	0	13
14			0	0			0	0	1020.3	125.4	0	0	1023.0	218.6	0	0	14
15			0	0			0	0	1020.2	122.2	0	0	1022.9	215.0	0	0	15
16			0	0			0	0	1020.2	122.2	0	0	1022.9	215.0	0	0	16
17			0	0			0	0	1020.1	119.0	0	0	1022.8	211.3	0	0	17
18	Reservoir Dry		0.7	0.7	Reservoir Dry		0	0	1021.0	147.8	15.6	0	1022.8	211.3	0	0	18
19		No Storage	0	0		No Storage	0	0	1022.9	215.0	35.1	0	1022.7	207.7	0	0	19
20			0	0			0	0	1025.5	315.9	65.4	12.7	1022.7	207.7	0	0	20
21			0	0			0	0	1025.7	323.9	71.0	65.1	1022.6	204.1	0	0	21
22			0	0			0	0	1021.2	154.7	21.6	105.6	1022.5	200.5	0	0	22
23			0	0			0	0	1020.8	141.4	9.5	15.1	1022.6	204.1	1.8	0	23
24			0	0			0	0	1020.8	141.4	1.1	0	1022.5	200.5		0	24
25			0	0			0	0	1020.7	138.2	0	0	1022.4	196.8	0	0	25
26			0	0			0	0	1020.6	135.0	0	0	1022.4	196.8	0	0	26
27			0	0			0	0	1020.6	135.0	0	0	1022.3	193.2	0	0	27
28			0	0			0	0	1020.9	144.6	6.0	0	1022.3	193.2	0	0	28
29			0	0			0	0	1022.0	182.3	20.2	0	1022.2	189.6	0	0	29
30			0	0	1009	0	0	0	1022.8	211.3	15.9	0	1022.2	189.6	0	0	30
31	1009.	0	0	0					1023.5	237.6	14.6	0	1022.1	185.9	0	0	31
TOTAL			0.7	27.4			0	0			346.7	198.5			9.3	0	
Inf. Ac. Ft.			1.4				0				687.7				18.4	707.5	
Outf. Ac. Ft.			54.3+(5.6)				0				393.7+(56.4)				(70.2)+ 0	448.0+(132.2)	
Maximum Mean Daily Inflow			0.7				0				71.0				5.1	71.0	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-58.5				0				+ 237.6				-51.7	+ 127.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown. ½ Year

Max. W. S. Elev.	1048.0	feet on	2-22-44	Storage	1823.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	984.7	feet on	Various Days	Storage	0	Acre Feet	K. M. York	Dam Tender	Gage Hts. copied	FHM & JEG	
Max. Peak Inf.	2310	C. F. S. from	2:15 A.M. on 2-22-44	to	3:00 A.M. on 2-22-44		T. E. Moon	Hydrographer	Storage applied	FHM & JEG	
Max. Peak Outf.	1530	C. F. S. from	4:00 P.M. on 2-22-44	to	6:00 P.M. on 2-22-44			Hydrographer	Inf. & Outf. comp.	PAH 5/17/45	

REMARKS () Indicates total monthly evaporation and percolation loss. Ckd. JEG 1/11/45

[Indicates total for period or prorated daily amounts.

F. C. Dist. Form 68B Revised 300 11/44

Daily Gage Height in feet and Operation Record of DEVILS GATE Dam

In Arroyo Seco for the Year Ending September 30, 1944

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder All

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2504.1 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December 1943. 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	1022.1	185.9	0	0	1028.3	431.9	128.6	16.2	1032.2	608.4	0	1.6	1027.5	398.2	0	1.6	1
2	1022.0	182.3	0	0	1035.8	807.5	356.7	163.1	1032.0	598.4	0	1.6	1027.3	389.8	0	1.6	2
3	1022.1	185.9	3.6	0	1033.3	664.4	167.9	235.7	1031.9	593.7	0	1.6	1027.1	381.4	0	1.6	3
4	1022.1	185.9	1.2	0	1031.8	588.9	108.1	143.0	1031.7	584.2	0	1.6	1027.0	377.2	0	1.6	4
5	1022.0	182.3	0	0	1032.7	633.5	123.4	98.0	1031.5	574.7	0	1.6	1026.8	369.0	0	1.6	5
6	1022.0	182.3	0	0	1034.3	718.7	97.6	51.2	1031.3	565.2	0	1.6	1026.6	360.7	0	1.6	6
7	1021.9	178.9	0	0	1036.3	839.3	67.4	1.6	1031.1	555.7	0	1.6	1026.4	352.5	0	1.6	7
8	1022.3	193.2	8.5	0	1036.9	878.4	52.9	26.4	1030.9	546.4	0	1.6	1026.2	344.2	0	1.6	8
9	1023.0	218.6	14.1	0	1035.9	813.6	47.1	73.3	1030.7	537.3	0	1.6	1026.0	336.0	0	1.6	9
10	1022.9	215.0	0	0	1033.5	675.1	37.6	103.0	1030.5	528.2	0	1.6	1025.9	332.0	0	1.6	10
11	1022.9	215.0	0	0	1030.8	541.8	36.7	101.0	1030.3	519.1	0	1.6	1025.8	327.9	0	1.6	11
12	1022.8	211.3	0	0	1028.2	427.6	44.5	100.0	1030.1	510.0	0	1.6	1025.7	323.9	0	1.6	12
13	1022.7	207.7	0	0	1028.6	444.7	45.0	34.6	1029.9	501.1	0	1.6	1025.5	315.9	0	1.6	13
14	1022.7	207.7	0	0	1029.9	501.1	32.0	1.6	1029.7	492.4	0	1.6	1025.3	307.8	0	1.6	14
15	1022.7	207.7	2.3	0	1031.3	565.2	36.2	1.6	1029.6	488.0	0	1.6	1025.2	303.8	0	1.6	15
16	1022.6	204.1	0	0	1032.4	618.4	31.3	1.6	1029.4	479.3	0	1.7	1025.0	295.7	0	1.6	16
17	1022.6	204.1	0.8	0	1032.9	643.5	17.8	1.6	1029.2	470.5	0	1.7	1024.9	291.8	0	1.6	17
18	1022.5	200.5	0	0	1033.3	664.4	15.9	1.6	1029.0	461.8	0	1.7	1024.7	283.9	0	1.6	18
19	1022.8	211.3	6.2	0	1033.6	680.4	13.9	1.6	1028.8	453.3	0	1.7	1024.6	280.0	0	1.6	19
20	1029.6	488.0	155.4	14.2	1033.8	691.0	11.4	1.6	1028.7	449.0	0	1.7	1024.4	272.2	0	1.6	20
21	1033.0	648.5	189.9	106.1	1033.9	696.3	8.9	1.6	1028.5	440.5	0	1.7	1024.3	268.3	0	1.6	21
22	1045.5	1577.7	1454.1	964.9	1033.9	696.3	6.3	1.6	1028.3	431.9	0	1.7	1024.1	260.4	0	1.6	22
23	1029.2	470.5	291.3	841.6	1033.9	696.3	6.3	1.6	1028.1	423.4	0	1.7	1024.0	256.5	0	1.6	23
24	1028.5	440.5	146.2	159.4	1033.8	691.0	3.5	1.6	1027.9	414.9	0	1.7	1023.8	248.9	0	1.6	24
25	1026.8	369.0	73.6	108.0	1033.7	685.7	1.9	1.6	1027.8	410.7	0	1.7	1023.7	245.1	0	1.6	25
26	1024.6	280.0	62.5	106.0	1033.5	675.1	0	1.6	1027.6	402.3	0	1.6	1023.5	237.6	0	1.6	26
27	1023.4	233.8	49.8	71.9	1033.3	664.4	0	1.6	1028.1	423.4	6.5	1.6	1023.4	233.8	0	1.6	27
28	1023.3	230.0	26.3	27.0	1033.1	653.8	0	1.6	1027.9	414.9	8.3	1.6	1023.2	226.2	0	1.6	28
29	1022.8	211.3	18.8	27.0	1032.8	638.5	0	1.6	1027.8	410.7	0	1.6	1023.1	222.4	0	1.5	29
30					1032.6	628.5	0	1.6	1027.6	402.3	0	1.6	1022.9	215.0	0	1.5	30
31					1032.4	618.4	0	1.6					1022.8	211.3	0	1.5	31
TOTAL			2504.6	2426.1			1498.9	1175.9			14.8	49.0			0	49.3	
Inf. Ac. Ft.			4967.8				2973.0				29.4				0	8677.7	
Outf. Ac. Ft.			4812.1+(130.3)				2332.3+(233.6)				97.2+(148.3)				(93.2)+ 97.8	7874+(737.5)	
Maximum Mean Daily Inflow			1454.1				356.7								0	1454.1	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			+25.4				+ 407.1				- 216.1				- 191.0	+ 152.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown. ¾ Year

Max. W. S. Elev.	1048.0	feet on	2-22-44	Storage	1823.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	984.7	feet on	Various Days	Storage	0	Acre Feet	K. M. York	Dam Tender	Gage Hts. copied	FHM & JEG	
Max. Peak Inf.	2310	C. F. S. from	2:15 A.M. on 2-22-44	to	3:00 A.M. on 2-22-44		T. E. Moon	Hydrographer	Storage applied	FHM & JEG	
Max. Peak Outf.	1530	C. F. S. from	4:00 P.M. on 2-22-44	to	6:00 P.M. on 2-22-44			Hydrographer	Inf. & Outf. comp.	PAH 5/25/45	

REMARKS [Indicates total for period or prorated daily amounts. Ckd. JEG 1/11/45

() Indicates total monthly evaporation and percolation loss.

DEVILS GATE (CONT.)

F. C. Dist. Form 86C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVILS GATE Dam

In Arroyo Seco for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2504.1 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December, 1943 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	1022.6	2041	0	1.4	1019.0	870		0.4					984.7				1
2	1022.5	2005	0	1.4	1018.9	845		0.4									2
3	1022.4	1968	0	1.3	1018.8	821		0.4									3
4	1022.2	1896	0	1.3	1018.7	796		0.4									4
5	1022.1	1859	0	1.2	1018.6	772		0.4									5
6	1021.9	1789	0	1.2	1018.5	747		0.4									6
7	1021.8	1754	0	1.2	1018.3	698		0.4									7
8	1021.7	1720	0.7	1.1	1018.2	673		0.4	984.7								8
9	1021.6	1685	0.6	1.1	1018.1	649		0.4									9
10	1021.4	1616	0	1.1	1018.0	624		0.4									10
11	1021.3	1582	0	1.1	1017.9	605		0.4									11
12	1021.2	1547	0	1.1	1015.8	260		1.5.0									12
13	1021.0	1478	0	1.0	1009	0		1.4.0									13
14	1020.9	1446	0	1.0													14
15	1020.8	1414	0	1.0													15
16	1020.6	1350	0	1.0													16
17	1020.5	1318	0	0.9													17
18	1020.4	1286	0	0.9													18
19	1020.2	1222	0	0.8													19
20	1020.1	1190	0	0.7													20
21	1020.0	1158	0	0.6													21
22	1019.9	1129	0	0.5													22
23	1019.8	1100	0	0.4													23
24	1019.7	1072	0	0.4													24
25	1019.6	1043	0	0.4													25
26	1019.5	1014	0	0.4													26
27	1019.4	985	0	0.4													27
28	1019.3	956	0	0.4													28
29	1019.2	928	0	0.4													29
30	1019.1	899	0	0.4									984.7				30
31									984.7								31
TOTAL			1.3	26.1			0	33.4			0	0			0	0	
Inf. Ac. Ft.			26				0				0				0	8803	
Outf. Ac. Ft.			518+(72.2)				662+(23.7)					0			0	7954+(833.4)	
Maximum Mean Daily Inflow			0.7				0				0				0	1454.1	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-121.4				-89.9				0				0	-585	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	1048.0	feet on	2-22-44	Storage	1823.4	Acre Feet		
Min. W. S. Elev.	984.7	feet on	Various Days	Storage	0	Acre Feet		
Max. Peak Inf.	2310	C. F. S. from	2:15 A.M. on	2-22-44	to	3:00 A.M. on	2-22-44	
Max. Peak Outf.	1530	C. F. S. from	4:00 P.M. on	2-22-44	to	6:00 P.M. on	2-22-44	

RECORDS COLLECTED BY

K. M. York	Dam Tender
T. E. Moon	Hydrographer
	Hydrographer

COMPUTATIONS — ckd. — Date

Gage Hts. copied	KFS	
Storage applied	KFS	
Inf. & Outf. comp.	KFS & PAH	
	Ckd.	JEG 1/11/45

REMARKS
() Indicates total monthly evaporation and percolation loss.
[Indicates total for period or prorated daily amounts.

EATON

F. C. Dist. Form 86A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Eaton Wash
On for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 631.8 Ac. Ft. at Spillway Elev. 887.5 Ft. as of October, 1943 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	843±								843±	0	0	0	851.4	18.3	2.6	0	1
2									843±	0	0	0	851.2	17.3	2.4	0	2
3									843±	0	0	0	850.9	16.3	2.3	0	3
4									843±	0	0	0	850.7	15.4	2.3	0	4
5									843±	0	0	0	850.5	14.3	2.2	0	5
6									845.9	0.3	1.2	0	850.6	14.3	2.7	0	6
7									844.9	0.2	0.6	0	850.4	13.8	2.3	0	7
8									843.9	0.1	0.4	0	850.1	12.5	1.9	0	8
9									843.7	0	0	0	850.0	12.0	2.2	0	9
10									850.5	5.5	5.4	0	849.9	11.4	2.1	0	10
11									850.7	5.9	3.0	0	849.6	11.0	2.2	0	11
12									850.2	4.9	2.1	0	849.4	10.4	2.0	0	12
13									849.9	4.4	2.2	0	849.2	9.8	1.9	0	13
14									849.7	4.0	2.2	0	849.1	9.6	2.1	0	14
15									849.5	3.7	2.2	0	848.9	9.1	1.9	0	15
16	Reservoir Dry				Reservoir Dry				849.3	3.4	2.0	0	848.7	8.7	1.8	0	16
17		No Storage				No Storage			849.1	3.2	2.1	0	848.5	8.2	1.7	0	17
18			No Flow	No Flow			No Flow	No Flow	850.7	5.9	4.2	0	848.2	7.8	1.6	0	18
19									852.0	12.5	6.5	0	848.0	7.4	1.6	0	19
20									852.9	31.6	13.1	0	847.8	7.1	1.6	0	20
21									854.2	38.9	7.5	0	847.6	6.7	1.3	0	21
22									853.3	33.8	1.0	0	847.4	6.5	1.4	0	22
23									852.4	29.1	1.0	0	847.3	6.3	1.4	0	23
24									852.0	25.6	1.4	0	847.2	6.1	1.4	0	24
25									851.6	23.0	1.8	0	847.0	5.8	1.3	0	25
26									851.3	21.4	2.2	0	846.8	5.4	1.1	0	26
27									851.0	19.4	1.9	0	846.7	5.2	1.2	0	27
28									851.3	19.5	3.0	0	846.5	5.0	1.1	0	28
29									851.7	19.8	3.3	0	846.2	4.7	0.9	0	29
30									852.0	20.2	3.4	0	845.9	4.5	0.9	0	30
31									851.6	19.1	2.5	0	845.5	4.2	0.8	0	31
TOTAL			0	0			0	0			76.2	0			54.2	0	
Inf. Ac. Ft.			0				0				151.1				107.5	258.6	
Outf. Ac. Ft.				0				0			(132.0)+0				(122.4)+0	0+(254.4)	
Maximum Mean Daily Inflow			0				0				13.1				2.7	13.1	
Minimum Mean Daily Inflow			0				0				0				0.8	0	
Storage Change			0				0				+19.1					+4.2	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	880.4	feet on	2-22-44	Storage	398.1	Acre Feet		
Min. W. S. Elev.	843±	feet on	Various Days	Storage	0	Acre Feet		
Max. Peak Inf.	371	C. F. S. from	8:30 A.M. on	2-22-44	to	9:00 A.M. on	2-22-44	
Max. Peak Outf.	268	C. F. S. from	9:45 A.M. on	3-14-44	to	10:00 A.M. on	3-14-44	

RECORDS COLLECTED BY

E. F. DeVore	Dam Tender
T. E. Moon	Hydrographer
	Hydrographer

COMPUTATIONS — ckd. — Date

Gage Hts. copied	FHM & JEG	
Storage applied	PAH & JEG	
Inf. & Outf. comp.	PAH 4/20/45	
	Ckd.	JEG 1/12/45
	#	ESB 5/30/45

REMARKS
90 A. F. storage loss at elevation 887.5 due to debris encroachment based on October 1943 survey.
() Indicates loss due to percolation, evaporation and other losses.

EATON (CONT.)

F. C. Dist. Form 86B Revised 500 11/44

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

In/On Eaton Wash for the Year Ending September 30, 19 44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 631.8 Ac. Ft. at Spillway Elev. 887.5 Ft. as of October 1943 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	845.2	4.0	0.7	0	871.1	198.9	48.2	0	872.5	220.2	3.0	0	861.4	91.9	0.4	2.5	1
2	844.9	3.9	0.6	0	877.1	309.7	120.2	55	872.4	218.6	3.8	0	861.1	89.3	0.4	2.5	2
3	846.6	6.3	3.2	0	876.3	291.8	56.5	57	872.2	215.4	2.9	0	860.7	85.9	0.4	2.0	3
4	848.2	5.7	1.6	0	875.5	275.0	43.1	44	872.0	212.2	2.8	0	860.2	81.8	0.4	1.5	4
5	847.9	5.2	1.4	0	875.2	268.8	45.9	42	871.9	210.7	3.5	0	859.9	79.3	0.4	1.3	5
6	847.7	4.9	1.4	0	877.7	323.8	35.8	0	871.7	207.8	2.7	0	859.3	74.5	0.4	1.5	6
7	847.4	4.7	1.6	0	877.2	312.0	31.8	30	871.5	204.8	2.6	0	858.8	70.6	0.4	2.0	7
8	848.7	6.0	2.6	0	874.5	255.2	31.2	54	871.3	201.8	2.5	0	858.4	67.5	0.4	1.2	8
9	848.5	5.8	1.9	0	871.3	201.8	31.1	54	871.0	197.4	1.6	0	856.3	52.3	0.4	8.7	9
10	848.3	5.4	1.7	0	869.2	173.3	32.5	44	870.8	194.6	2.3	0	852.6	30.1	0.4	11.8	10
11	848.1	5.0	1.6	0	867.0	147.1	30.8	42	870.5	190.5	1.5	0	849*	19.8*	0.4	4.6	11
12	847.9	4.7	1.6	0	867.0	147.1	29.0	27	870.2	186.4	1.3	0		19.8	0.4	0.5	12
13	847.8	4.5	1.6	0	870.2	186.4	23.2	0	869.9	182.3	1.2	0		19.6	0.4	0.5	13
14	847.6	4.3	1.5	0	871.3	201.8	24.1	123	869.3	174.6	1.3	2.2		19.3	0.4	0.5	14
15	848.2	4.9	2.1	0	871.2	200.4	23.3	22	868.5	164.6	1.1	2.5		19.2	0.4	0.4	15
16	848.0	4.6	1.6	0	870.2	186.4	18.3	22	867.8	156.3	1.1	3.0		19.1	0.3	0.4	16
17	847.8	4.4	1.6	0	869.8	181.0	16.5	160	867.0	147.1	0.3	3.0		19.1	0.3	0.4	17
18	847.6	4.1	1.5	0	869.8	181.0	16.4	132	866.2	138.3	0.3	3.0		19.1	0.3	0.3	18
19	849.4	8.1	2.6	0	869.6	178.4	15.0	132	865.5	130.9	0.3	2.5		19.2	0.3	0.3	19
20	857.2	58.6	30.7	0	869.8	181.0	13.3	8.8	864.9	124.7	0.4	2.2		19.3	0.3	0.3	20
21	861.6	93.6	22.9	0	870.7	193.3	9.9	0	864.3	118.7	0.4	1.5		19.2	0.3	0.3	21
22	879.8	376.6	264.6	108	871.5	204.8	9.9	0	863.6	111.9	0.3	2.5		19.1	0.3	0.3	22
23	869.8	181.0	70.2	161	872.0	212.2	8.2	0	863.0	106.2	0.3	2.5		19.1	0.3	0.2	23
24	869.6	178.4	32.2	26	872.4	218.6	7.8	0	862.4	100.7	0.3	2.5		19.1	0.3	0.2	24
25	870.5	190.5	18.7	5.0	872.6	221.8	6.3	0	861.8	95.4	0.3	2.5		19.1	0.3	0.2	25
26	870.8	194.6	14.6	5.0	872.8	225.0	6.4	0	861.1	89.3	0.3	2.5		19.0	0.2	0.2	26
27	869.2	173.3	7.0	11.3	872.9	226.6	5.7	0	863.7	112.8	15.4	2.5		19.0	0.2	0.2	27
28	865.7	133.0	4.0	20	872.9	226.6	4.9	0	863.5	111.0	2.1	2.5		18.9	0.2	0.2	28
29	864.0	115.7	7.0	12.1	872.8	225.0	4.0	0	862.8	104.4	0.4	2.5		18.9	0.2	0.2	29
30					872.8	225.0	4.8	0	862.1	98.0	0.4	2.5		18.8	0.2	0.1	30
31					872.7	223.4	4.0	0					843	18.8	0.2	0.1	31
TOTAL			504.3	348.4			758.1	554.5			56.7	43.4			10.2	45.4	
Inf. Ac. Ft.			1000.3				1503.7				112.5				20.3	289.5.4	
Outf. Ac. Ft.			(197.8)+691.0				(296.2)+1099.8				(151.8)+86.1				(9.5)+90.0	1966.9+(909.7)	
Maximum Mean Daily Inflow			264.6				120.2				15.4				0.4	264.6	
Minimum Mean Daily Inflow			0.6				4.0				0.3				0.1	0.1	
Storage Change			+1115				+107.7				-125.4				-79.2	+188	
							NOTE: Gage Heights and Storages as of Midnight on Day Shown									% Year	

Max. W. S. Elev.	880.4	feet on 2-22-44	Storage 398.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	843‡	feet on Various Days	Storage 0	Acre Feet	E. F. DeVore	Dam Tender	Gage Hts. copied	FHN	
Max. Peak Inf.	371	C.F.S. from 8:30 A.M. on 2-22-44	to 9:00 A.M. on 2-22-44		T. E. Moon	Hydrographer	Storage applied	PAH	
Max. Peak Outf.	268	C.F.S. from 9:45 A.M. on 3-14-44	to 10:00 A.M. on 3-14-44			Hydrographer	Inf. & Outf. comp.	PAH & ESB	
REMARKS	* Indicates storage in Pit #1 only for balance of water year.							Ckd.	JEG 1/12/45
	() Indicates total monthly percolation and other losses.							#	ESB 6/11/45
	{ Indicates total for period or prorated daily amounts.								

F. C. Dist. Form 86C Revised 500 11/44

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

In/On Eaton Wash for the Year Ending September 30, 19 44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 631.8 Ac. Ft. at Spillway Elev. 887.5 Ft. as of October 1943 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	843‡	18.7*	0.2	0.1	843‡	17.0	0	0	843‡	3.8	0	0	843‡	1.6	0	0	1
2		18.7	0.2	0.1		16.3	0	0		3.8	0	0		1.5	0	0	2
3		18.6	0.2	0.1		15.6	0	0		3.8	0	0		1.4	0	0	3
4		18.6	0.1	0.1		14.7	0	0		3.8	0	0		1.3	0	0	4
5		18.5	0.1	0.1		14.2	0	0		3.8	0	0		1.2	0	0	5
6		18.5	0.2	0.1		13.2	0	0		3.7	0	0		1.1	0	0	6
7		18.4	0.2	0.1		12.0	0	0		3.7	0	0		1.0	0	0	7
8		18.4	0.2	0.1		10.8	0	0		3.6	0	0		1.0	0	0	8
9		18.2	0.1	0.1		9.6	0	0		3.6	0	0		0.9	0	0	9
10		18.2	0.2	0.1		8.4	0	0		3.6	0	0		0.9	0	0	10
11		18.2	0.2	0.1		7.2	0	0		3.5	0	0		0.8	0	0	11
12		18.2	0.2	0.1		6.1	0	0		3.4	0	0		0.8	0	0	12
13		18.2	0.2	0.1		6.0	0	0		3.3	0	0		0.8	0	0	13
14		18.2	0.2	0.1		5.8	0	0		3.2	0	0		0.8	0	0	14
15		18.2	0.2	0.1		5.6	0	0		3.1	0	0		0.7	0	0	15
16		18.2	0.2	0.1		5.4	0	0		3.0	0	0		0.6	0	0	16
17		18.2	0.1	0		5.2	0	0		3.0	0	0		0.5	0	0	17
18		18.2	0	0		5.0	0	0		2.9	0	0		0.5	0	0	18
19		18.2	0	0		4.8	0	0		2.9	0	0		0.4	0	0	19
20		18.2	0	0		4.7	0	0		2.8	0	0		0.4	0	0	20
21		18.0	0	0		4.6	0	0		2.8	0	0		0.4	0	0	21
22		18.0	0	0		4.4	0	0		2.7	0	0		0.3	0	0	22
23		18.0	0	0		4.3	0	0		2.7	0	0		0.3	0	0	23
24		18.0	0	0		4.2	0	0		2.6	0	0		0.2	0	0	24
25		18.0	0	0		4.1	0	0		2.5	0	0		0.2	0	0	25
26		18.0	0	0		4.2	0	0		2.4	0	0		0.1	0	0	26
27		18.0	0	0		4.2	0	0		2.2	0	0		0.1	0	0	27
28		18.0	0	0		4.1	0	0		2.0	0	0	Storage	0	0	0	28
29		18.0	0	0		4.0	0	0		1.8	0	0	Negligible	0	0	0	29
30	843*	17.7	0	0		3.9	0	0		1.7	0	0	843‡	#	0	0	30
31					843‡	3.9	0	0	843‡	1.7	0	0					31
TOTAL			3.0	1.6			0	0			0	0			0	0	
Inf. Ac. Ft.			6.0				0				0				0	290.1.4	
Outf. Ac. Ft.			(3.9)+3.2				(13.8)+0				(2.2)+0				(1.7)+0	1970.1+(951.3)	
Maximum Mean Daily Inflow			0.2				0				0				0	264.5	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-1.1				-13.8				-2.2				-1.7	0	
							NOTE: Gage Heights and Storages as of Midnight on Day Shown									Yearly Totals	

Max. W. S. Elev.	880.4	feet on 2-22-44	Storage 398.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	843‡	feet on Various Days	Storage 0	Acre Feet	E. F. DeVore	Dam Tender	Gage Hts. copied	PAH 4/19/45	
Max. Peak Inf.	371	C.F.S. from 8:30 A.M. on 2-22-44	to 9:00 A.M. on 2-22-44		T. E. Moon	Hydrographer	Storage applied	PAH 4/19/45	
Max. Peak Outf.	268	C.F.S. from 9:45 A.M. on 3-14-44	to 10:00 A.M. on 3-14-44			Hydrographer	Inf. & Outf. comp.	PAH 4/19/45	
REMARKS	* Storage in Pit #1 only for balance of water year.							ckd. ESB 6/11/45	
	() Indicates total monthly percolation and other losses.								

BIG SANTA ANITA

F. C. Dist. Form 88A Revised 300 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Santa Anita Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 603.5 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of September 1943 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	1177±	0	2.4	2.4	1207.6	113	2.9	2.6	1218.7	221	2.7	2.5	1274.8	2045	8.3	7.4	1
2		0	2.3	2.3	1208.1	117	2.7	2.5	1219.2	227	2.8	2.5	1274.9	2051	7.7	7.4	2
3		0	2.2	2.2	1208.6	121	2.7	2.5	1219.6	232	2.8	2.5	1272.6	1918	7.8	14.5	3
4		0	2.2	2.2	1208.0	116	2.6	2.9	1219.9	236	2.7	2.5	1268.2	1692	8.1	19.5	4
5		0	2.1	2.1	1208.0	116	2.6	2.6	1220.1	238	2.6	2.5	1267.1	1639	7.2	9.9	5
6		0	2.2	2.2	1208.3	118	2.6	2.5	1223.2	282	3.2	1.0	1268.2	1692	7.8	5.1	6
7		0	2.3	2.3	1208.5	120	2.6	2.5	1226.7	347	3.3	0	1268.8	1721	6.6	5.1	7
8		0	2.4	2.4	1208.5	120	2.4	2.4	1229.1	396	2.4	0	1269.4	1751	6.5	5.0	8
9		0	2.6	2.6	1208.5	120	2.3	2.3	1231.2	440	2.2	0	1270.1	1786	6.6	4.9	9
10		0	2.4	2.4	1208.4	119	2.3	2.3	1238.5	624	9.3	0	1270.7	1817	6.4	4.8	10
11		0	2.4	2.4	1208.1	117	2.3	2.4	1247.0	874	12.6	0	1271.2	1843	5.9	4.6	11
12		0	2.4	2.4	1208.0	116	2.2	2.3	1250.7	993	6.0	0	1271.7	1869	5.8	4.5	12
13	1177±	0	2.3	2.3	1207.8	114	2.2	2.3	1253.2	1077	4.3	0	1272.2	1896	5.8	4.4	13
14	1182.5	0.4	2.3	2.1	1207.8	114	2.2	2.2	1254.8	1133	3.6	0.8	1272.6	1918	5.3	4.2	14
15	1194.4	3.4	2.2	2.2	1207.6	113	2.1	2.1	1255.9	1172	3.3	1.4	1272.9	1935	5.1	4.2	15
16	1195.9	4.0	2.2	2.3	1207.5	112	2.1	2.2	1256.9	1208	3.3	1.4	1273.2	1951	5.0	4.2	16
17	1195.9	4.0	2.3	2.4	1208.0	116	2.2	2.0	1257.8	1242	3.1	1.4	1273.4	1963	4.8	4.2	17
18	1195.9	4.0	3.9	2.5	1209.0	124	2.4	2.0	1260.1	1332	5.8	1.3	1273.7	1980	4.4	3.6	18
19	1195.9	4.0	3.3	2.7	1209.9	131	2.4	2.0	1269.2	1741	20.6	0	1273.2	1951	3.5	4.9	19
20	1195.9	4.0	3.0	2.6	1210.9	140	2.6	2.2	1276.3	2137	25.9	5.9	1272.6	1918	3.2	4.3	20
21	1195.9	4.0	3.0	2.6	1211.6	146	2.7	2.4	1279.5	2341	36.9	26.6	1272.2	1896	3.8	4.9	21
22	1195.9	4.0	3.0	2.6	1212.6	156	2.7	2.2	1273.6	1977	17.2	35.7	1271.8	1874	3.7	4.8	22
23	1201.2	6.8	2.8	2.6	1213.5	164	2.6	2.2	1269.1	1736	13.3	25.3	1271.7	1869	4.4	4.7	23
24	1202.7	7.7	2.7	2.2	1214.4	173	2.6	2.1	1267.5	1658	11.1	15.0	1272.0	1885	5.4	4.6	24
25	1204.0	8.6	2.6	2.2	1215.2	182	2.6	2.2	1267.3	1648	6.7	7.3	1272.0	1885	4.5	4.5	25
26	1204.4	8.9	2.6	2.4	1216.0	190	2.4	2.0	1268.0	1682	5.2	3.4	1272.1	1891	4.7	4.4	26
27	1204.9	9.2	2.7	2.6	1216.6	197	2.4	2.0	1268.5	1707	4.6	3.4	1272.3	1902	4.8	4.2	27
28	1205.2	9.4	3.0	2.9	1217.3	205	2.4	2.0	1269.3	1746	5.4	3.4	1271.0	1832	4.6	8.1	28
29	1205.8	9.9	3.1	2.8	1217.7	209	2.4	2.2	1271.4	1853	8.8	3.4	1269.9	1776	4.8	7.7	29
30	1206.3	10.2	3.1	3.0	1218.3	217	2.4	2.0	1273.0	1940	7.8	3.4	1270.8	1822	4.5	2.1	30
31	1207.0	10.8	3.1	2.8					1274.5	2027	9.1	4.7	1271.5	1859	3.9	2.1	31
TOTAL			81.1	75.7			73.6	68.1			248.6	157.3			170.9	179.4	
Inf. Ac. Ft.			160.9				146.0				493.0				339.0	1138.9	
Outf. Ac. Ft.				150.1				135.1				312.0			355.8	953.0	
Maximum Mean Daily Inflow			3.9				2.9				36.9				8.3	36.9	
Minimum Mean Daily Inflow			2.1				2.1				2.2				3.2	2.1	
Storage Change			+ 10.8				+ 10.9				+ 181.0				-16.8	+ 185.9	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	1311.1	feet on	2-22-1944	Storage	539.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1177 ±	feet on	10-1 to 13-43	Storage	0	Acre Feet	E. B. Harrison	Dam Tender	Gage Hts. copied	JEG & PAH	
Max. Peak Inf.	813	C.F.S. from	10:00 A.M. on 2-22-44	to	11:00 A.M. on 2-22-44		T. E. Moon	Hydrographer	Storage applied	PAH-JEG	5-9-45
Max. Peak Outf.	573	C.F.S. from	6:00 P.M. on 2-22-44	to	8:00 P.M. on 2-22-44			Hydrographer	Inf. & Outf. comp.	PAH	5-10-45
REMARKS	(Indicates total for period or prorated daily amounts.									Ckd. ESB	6-19-1945	

F. C. Dist. Form 88B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Santa Anita Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 603.5 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of September 1943 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	1272.2	1896	4.0	2.1	1251.0	1003	46.7	52.0	1185 *	0.7	13.0	13.0	1185 *	1.04	9.4	9.4	1
2	1272.9	1935	4.0	2.1	1265.8	1578	154.1	125.1	1185 *	0.7	12.0	12.0	1185 *	1.04	9.2	9.2	2
3	1273.7	1980	4.4	2.1	1267.5	1658	85.0	81.0	1185 *	0.7	12.0	12.0	1185 *	1.04	9.0	9.0	3
4	1275.9	2112	8.8	2.1	1265.9	1583	69.9	73.7	1210.1	133	11.0	4.6	1185 *	1.03	8.8	8.9	4
5	1276.9	2174	5.2	2.1	1267.0	1634	63.1	60.5	1218.2	215	11.0	6.9	1185 *	1.03	8.6	8.6	5
6	1277.8	2230	4.9	2.1	1266.3	1601	52.2	53.8	1227.0	353	11.0	4.1	1185 *	1.03	8.6	8.6	6
7	1278.5	2276	4.4	2.1	1267.7	1668	44.3	41.0	1229.6	406	11.0	8.3	1185 *	1.03	8.5	8.5	7
8	1279.5	2341	8.7	5.4	1268.4	1702	42.7	41.0	1207.3	110	12.0	26.9	1185 *	1.03	8.4	3.9	8
9	1277.0	2180	9.8	17.9	1275.2	2069	39.1	20.5	1185.0	0.7	11.0	16.2	1212.3	241	8.4	0.9	9
10	1274.4	2021	9.6	17.6	1275.8	2106	39.1	37.3	1185.0	0.7	11.0	11.0	1219.4	391	8.2	0.6	10
11	1271.5	1859	9.1	17.3	1266.9	1629	39.7	63.7	1190.0	1.8	11.0	10.4	1224.4	522	8.0	1.4	11
12	1268.2	1692	8.6	17.0	1263.5	1475	31.4	39.2	1195.4	4.2	11.0	9.8	1227.7	622	7.8	2.7	12
13	1264.8	1533	8.6	16.6	1262.8	1444	32.4	34.0	1197.7	4.8	11.0	10.7	1230.6	716	7.6	2.9	13
14	1263.1	1457	7.7	11.6	1261.5	1389	28.8	31.5	1185 *	1.0.7	10.8	12.9	1233.6	819	7.4	2.2	14
15	1265.1	1547	6.9	2.3	1262.1	1414	32.0	30.8	1185 *	1.0.7	10.8	10.8	1236.4	920	7.2	2.1	15
16	1266.5	1611	5.5	2.3	1261.4	1385	23.3	24.7	1185 *	1.0.7	10.7	10.7	1239.0	1017	7.1	2.2	16
17	1267.7	1668	5.2	2.3	1262.0	1410	23.2	22.0	1185 *	1.0.7	10.6	10.6	1241.5	1114	7.1	2.2	17
18	1268.9	1726	5.2	2.3	1261.7	1397	21.4	22.0	1185 *	1.0.7	10.6	10.6	1244.1	1218	7.0	1.8	18
19	1270.2	1791	5.6	2.3	1258.9	1284	19.3	25.0	1185 *	1.0.6	10.5	10.6	1246.5	1318	6.9	1.9	19
20	1274.7	2039	33.1	20.6	1253.0	1136	19.6	62.4	1185 *	1.0.6	10.4	10.4	1248.8	1417	6.9	1.9	20
21	1276.5	2149	54.4	48.9	1221.1	251	20.0	29.3	1185 *	1.0.6	10.3	10.3	1250.9	1512	6.9	2.1	21
22	1306.0	4773	513.9	381.6	1213.6 *	16.5	19.0	23.3	1185 *	1.0.6	10.2	10.2	1253.0	1610	6.8	1.8	22
23	1275.3	2075	183.1	319.1	1186 *	0.8	18.0	26.0	1185 *	1.0.6	10.0	10.0	1255.0	1706	6.8	2.0	23
24	1293.7	3482	709	0	1185 *	0.7	18.0	18.0	1185 *	1.0.5	9.8	9.8	1256.8	1795	6.8	2.3	24
25	1290.8	3213	622	757	1213 *	16.0	17.0	9.3	1185 *	1.0.5	9.6	9.6	1258.5	1881	6.7	2.4	25
26	1267.3	1648	41.7	120.6	1199 *	5.5	16.0	21.3	1185 *	1.0.5	9.6	9.6	1260.1	1965	6.6	2.3	26
27	1255.7	1165	31.8	56.2	1185 *	0.7	16.0	18.4	1185 *	1.0.5	19.6	19.6	1261.6	2045	6.6	2.6	27
28	1254.9	1136	28.0	29.5	1205 *	9.3	15.0	10.7	1185 *	1.0.5	11.9	11.9	1263.0	2122	6.7	2.8	28
29	1254.1	1108	26.0	27.4	1195 *	3.6	14.0	16.8	1185 *	1.0.4	9.9	10.0	1264.3	2195	6.7	3.0	29
30					1185 *	0.7	14.0	15.5	1185 *	1.0.4	9.6	9.6	1265.7	2276	6.8	2.8	30
31					1185 *	0.7	13.0	13.0					1267.1	2359	6.8	2.6	31
TOTAL			1171.3	1209.2			1087.3	1142.8			332.9	333.1			234.3	115.6	
Inf. Ac. Ft.			2323.3				2156.6				660.3				464.7	6743.8	
Outf. Ac. Ft.			2398.4				2266.7				660.6				229.2	6507.9	
Maximum Mean Daily Inflow			513.9				154.1				19.6				9.4	513.9	
Minimum Mean Daily Inflow			4.0				13.0				9.6				6.6	2.1	
Storage Change			- 75.1				- 110.1				0.3				+ 235.5	+ 235.9	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

¾ Year

Max. W. S. Elev.	1311.1	feet on	2-22-44	Storage	539.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1177±	feet on	10/1-13/43	Storage	0	Acre Feet	E. B. Harrison	Dam Tender	Gage Hts. copied	PAH & JEG	
Max. Peak Inf.	813	C.F.S. from	10:00 A.M. on 2-22-44	to	11:00 A.M. on 2-22-44		T. E. Moon	Hydrographer	Storage applied	PAH & JEG	
Max. Peak Outf.	573	C.F.S. from	6:00 P.M. on 2-22-44	to	8:00 P.M. on 2-22-44			Hydrographer	Inf. & Outf. comp.	PAH	5/16/45
REMARKS	1 Indicates interpolated.									Ckd. ESB	6/27/45	
	(Indicates total for period or prorated daily amounts.											
	* Indicates sluicing.											

BIG SANTA ANITA (CONT.)

F. C. Dist. Form 68C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Santa Anita Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder All

Drainage Area 10.8 Square Miles. Capacity of Reservoir 696.9 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of May 1944. 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	1268.4	243.7	6.9	3.0	1287.0	378.0	3.5	2.2	1277.3	303.1	2.2	4.0	1260.4	198.1	2.3	3.4	1
2	1269.8	252.4	6.9	2.5	1286.8	376.3	3.3	4.2	1276.8	299.5	2.2	4.0	1259.9	195.5	2.1	3.4	2
3	1271.0	260.0	6.9	3.0	1286.3	3.22	3.1	5.2	1276.3	295.9	2.0	3.8	1259.4	192.8	2.0	3.3	3
4	1272.1	267.2	6.8	3.2	1285.8	368.1	2.9	4.9	1275.6	291.0	2.0	4.5	1258.9	190.2	2.0	3.3	4
5	1273.2	274.5	6.7	3.0	1285.5	365.6	2.8	4.1	1275.1	287.5	2.0	3.8	1258.4	187.6	1.9	3.3	5
6	1274.5	283.4	6.6	2.2	1285.3	364.0	2.7	3.5	1274.3	282.0	2.0	4.8	1257.9	185.0	1.9	3.2	6
7	1275.3	288.9	6.5	3.7	1285.2	363.1	2.5	3.0	1273.6	277.2	2.2	4.6	1257.4	182.5	2.0	3.2	7
8	1276.0	293.8	6.4	3.9	1285.2	363.1	2.3	2.3	1273.3	275.2	2.2	3.2	1257.0	180.5	2.2	3.2	8
9	1276.9	300.2	6.4	3.2	1285.1	362.3	2.2	2.6	1272.8	271.9	2.3	3.9	1256.8	179.5	2.6	3.1	9
10	1277.7	305.9	6.3	3.4	1284.9	360.7	2.2	3.0	1272.1	267.2	2.3	4.7	1256.5	178.0	2.2	3.0	10
11	1278.5	311.8	6.1	3.1	1284.8	359.9	2.0	2.4	1271.5	263.3	2.3	4.3	1256.1	176.0	1.9	2.9	11
12	1279.1	316.1	6.0	3.9	1284.7	359.1	2.0	2.4	1270.7	258.1	2.2	4.8	1255.9	175.0	2.4	2.9	12
13	1279.7	320.6	5.9	3.6	1284.6	358.3	1.9	2.3	1269.9	253.1	2.2	4.7	1255.7	174.0	2.3	2.8	13
14	1280.3	325.1	5.7	3.4	1284.5	357.6	1.8	2.1	1269.2	248.7	2.2	4.4	1255.5	173.1	2.3	2.8	14
15	1280.8	328.8	5.5	3.7	1284.4	356.8	1.7	2.1	1268.8	246.2	2.2	3.5	1255.4	172.6	2.6	2.8	15
16	1281.4	333.3	5.3	3.0	1284.0	353.6	1.6	3.2	1268.4	243.7	2.2	3.5	1255.4	172.6	2.7	2.7	16
17	1281.9	337.1	5.5	3.6	1283.7	351.2	1.5	2.8	1268.1	241.9	2.2	3.1	1255.4	172.6	2.7	2.7	17
18	1282.4	341.0	5.1	3.1	1283.5	349.7	1.4	2.1	1267.7	239.5	2.2	3.4	1255.4	172.6	2.6	2.6	18
19	1282.8	344.1	4.9	3.3	1283.1	346.5	1.3	2.9	1267.3	237.1	2.0	3.2	1255.5	173.1	2.8	2.6	19
20	1283.2	347.3	4.9	3.3	1282.5	341.8	1.5	3.7	1266.6	232.9	1.9	4.0	1255.5	173.1	2.5	2.5	20
21	1283.5	349.7	4.9	3.7	1282.0	337.9	1.4	3.4	1266.0	229.5	1.9	3.7	1255.4	172.6	2.3	2.5	21
22	1283.9	352.8	4.9	3.4	1281.7	335.6	1.6	2.7	1265.5	226.4	1.9	3.4	1255.4	172.6	2.5	2.5	22
23	1284.2	355.2	4.7	3.5	1281.3	332.6	1.6	3.1	1264.9	222.9	1.9	3.6	1255.3	172.1	2.2	2.5	23
24	1284.6	358.3	4.7	3.1	1280.8	328.8	1.8	3.7	1264.3	219.5	1.9	3.7	1255.2	171.6	2.3	2.5	24
25	1284.9	360.7	4.7	3.5	1280.4	325.8	1.9	3.6	1263.9	217.2	1.9	3.0	1255.1	171.1	2.1	2.4	25
26	1285.3	364.0	4.7	3.0	1280.2	324.3	2.0	2.7	1263.5	215.0	1.8	2.9	1254.9	170.1	1.9	2.4	26
27	1285.7	367.2	4.6	3.0	1279.7	320.5	2.0	3.9	1262.9	211.7	1.7	3.4	1254.8	169.6	1.9	2.4	27
28	1286.1	370.5	4.4	2.7	1279.2	316.9	2.0	3.8	1262.2	207.8	1.6	3.6	1254.7	169.2	2.2	2.4	28
29	1286.4	373.0	4.2	3.0	1278.8	313.9	2.0	3.6	1261.6	204.5	1.6	3.2	1254.6	168.7	2.1	2.4	29
30	1286.7	375.5	3.9	2.6	1278.2	309.6	2.2	4.3	1261.2	202.4	1.7	2.8	1254.7	169.2	2.7	2.4	30
31					1277.8	306.7	2.2	3.7	1260.8	200.2	1.9	3.0					31
TOTAL			167.0	96.6			64.7	99.4			62.8	116.5			64.0	84.1	
Inf. Ac. Ft.			331.2				128.3				124.6				134.9	746.28	
Outf. Ac. Ft.			191.6				197.1				231.1				166.8	729.45	
Maximum Mean Daily Inflow			6.9				3.5				2.3				2.8	5.139	
Minimum Mean Daily Inflow			3.9				1.3				1.6				1.7	1.3	
Storage Change			+ 139.6				- 68.8				- 106.5				31.0	+16.92	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	1311.1	feet on 2-22-44	Storage	539.5 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1177 ±	feet on 10-1 to 13-43	Storage	0 Acre Feet	E. B. Harrison	Dam Tender	Gage Hts. copied	JEG & PAH	
Max. Peak Inf.	813	C. F. S. from 10:00 A.M. on 2-22-44	to	11:00 A.M. on 2-22-44	T. E. Moon	Hydrographer	Storage applied	JEG & PAH	
Max. Peak Outf.	573	C. F. S. from 6:00 P.M. on 2-22-44	to	8:00 P.M. on 2-22-44		Hydrographer	Inf. & Outf. comp.		
REMARKS							Ckd. ESB 6-19-45		

SAWPIT

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder All

Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of December 1943. 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	1308.1	58.0	0	0	1289.6	19.3	0	1.2	1267.9	1.7	0	0	1304.3	48.9	0.6	0	1
2	1308.1	58.0	0	0	1288.0	17.0	0	1.2	1268.0	1.7	0	0	1304.7	49.8	0.5	0	2
3	1308.1	58.0	0	0	1286.3	14.9	0	1.0	1268.1	1.7	0	0	1305.2	51.0	0.6	0	3
4	1308.1	58.0	0	0	1284.5	12.8	0	1.1	1268.2	1.8	0	0	1305.5	51.7	0.3	0	4
5	1308.1	58.0	0	0	1282.8	10.8	0	1.0	1268.3	1.8	0.1	0	1305.9	52.7	0.5	0	5
6	1308.1	58.0	0	0	1280.5	9.0	0	0.9	1268.4	1.9	0.1	0	1306.4	53.9	0.6	0	6
7	1308.1	58.0	0	0	1278.3	7.2	0	0.9	1268.5	1.9	0	0	1306.7	54.6	0.4	0	7
8	1308.1	58.0	0	0	1275.8	5.5	0	0.9	1268.6	1.9	0	0	1307.0	55.3	0.3	0	8
9	1308.1	58.0	0	0	1273.5	4.2	0	0.6	1268.8	2.0	0	0	1307.3	56.0	0.4	0	9
10	1308.1	58.0	0	0	1270.7	2.8	0	0.7	1269.1	2.1	0.1	0	1307.6	56.7	0.3	0	10
11	1308.1	58.0	0	0	1267.2	1.5	0	0.7	1269.3	2.2	0	0	1307.9	57.5	0.4	0	11
12	1308.1	58.0	0	0	1261.0	0.2	0	0.6	1269.4	2.3	0	0	1308.2	58.2	0.4	0	12
13	1308.1	58.0	0	0	1262.3	0.3	0	0	1269.7	2.4	0.1	0	1308.0	57.7	0.1	0.4	13
14	1308.1	58.0	0	0	1264.3	0.7	0	0	1270.2	2.6	0.1	0	1308.2	58.2	0.3	0	14
15	1308.1	58.0	0	0	1264.9	0.8	0	0	1270.9	2.9	0.2	0	1308.5	59.0	0.4	0	15
16	1308.0	57.7	0	0	1265.1	0.8	0	0	1271.7	3.2	0.1	0	1308.7	59.5	0.2	0	16
17	1308.0	57.7	0	0.2	1265.2	0.9	0.1	0	1272.4	3.6	0.2	0	1308.9	60.0	0.3	0	17
18	1307.3	56.0	0.3	1.4	1265.4	0.9	0.1	0	1273.2	4.0	0.2	0	1309.1	60.5	0.3	0	18
19	1306.1	53.1	0.3	1.5	1265.7	1.0	0.1	0	1279.8	8.3	2.2	0	1309.2	60.7	0.3	0	19
20	1304.9	50.3	0	1.4	1265.8	1.0	0.1	0	1286.6	15.2	3.5	0	1308.6	59.2	0.2	1.2	20
21	1303.8	47.7	0	1.3	1266.0	1.1	0.1	0	1294.5	27.9	6.4	0	1308.8	59.7	0.2	0	21
22	1302.6	45.0	0	1.4	1266.2	1.2	0.05	0	1296.6	32.0	2.0	0	1308.9	60.0	0.2	0	22
23	1301.3	42.1	0	1.4	1266.4	1.2	0.05	0	1297.8	34.5	1.3	0	1309.1	60.5	0.3	0	23
24	1300.1	39.4	0	1.4	1266.6	1.3	0	0	1298.4	35.7	0.6	0	1309.3	61.0	0.2	0	24
25	1298.9	36.8	0	1.3	1266.8	1.3	0	0	1298.9	36.8	0.5	0	1309.5	61.5	0.2	0	25
26	1297.7	34.3	0	1.2	1267.0	1.4	0	0	1299.3	37.7	0.5	0	1309.6	61.7	0.2	0	26
27	1296.4	31.6	0	1.4	1267.2	1.5	0	0	1299.7	38.5	0.4	0	1309.8	62.2	0.2	0	27
28	1295.2	29.2	0	1.2	1267.4	1.5	0	0	1300.1	39.4	0.5	0	1309.9	62.5	0.2	0	28
29	1293.9	26.7	0	1.3	1267.6	1.6	0	0	1301.3	42.1	1.3	0	1310.0	62.7	0.2	0.1	29
30	1292.5	24.1	0	1.3	1267.8	1.6	0	0	1302.7	45.2	1.6	0	1310.0	62.7	0.2	0.2	30
31	1291.1	21.7	0	1.2					1303.8	47.7	1.2	0	1310.1	63.0	0.3	0.2	31
TOTAL			0.6	18.9			0.6	10.8			23.2	0			9.8	2.1	
Inf. Ac. Ft.			1.2				1.2				46.1				195.5	680	
Outf. Ac. Ft.			37.5				21.3				0				4.2	63.0	
Maximum Mean Daily Inflow			0.3				0.1				6.4				0.6	6.4	
Minimum Mean Daily Inflow			0				0				0				0.1	0	
Storage Change			36.3				- 20.1				+ 46.1				+ 15.3	+ 5.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	1330.3	feet on 2-22-44	Storage	133.2 Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1261.0	feet on 11/26-13/43	Storage	0.2 Acre Feet	R. E. Waddigor	Dam Tender	Gage Hts. copied	FHM & JEG	
Max. Peak Inf.	138	C. F. S. from 10:00 A.M. on 2-22-44	to	12:00 Noon on 2-22-44	T. E. Moon	Hydrographer	Storage applied	FHM & JEG	
Max. Peak Outf.	70	C. F. S. from 6:00 P.M. on 2-22-44	to	7:15 A.M. on 2-23-44		Hydrographer	Inf. & Outf. comp.	PAH & JEG	
REMARKS	(Indicates total for period or prorated daily amounts.						Ckd.	JEG 1/15/45	
							*	LWB 6/6/45	

SAWPIT (CONT.)

F. C. Dist. Form 62B Revised 346 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of December, 1943. 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	1310.0	627	0.2	0.4	1311.2	658	9.0	7.8	1310.1	630	0.7	0.5	1310.0	627	0.6	0.6	1
2	1310.0	627	0.4	0.4	1310.8	648	22.3	22.8	1310.0	627	0.3	0.5	1310.0	627	0.4	0.4	2
3	1310.1	630	0.6	0.4	1310.6	643	14.6	14.9	1310.0	627	0.5	0.5	1310.0	627	0.5	0.5	3
4	1310.1	630	0.5	0.5	1310.7	645	11.9	11.8	1310.0	627	0.5	0.5	1310.0	627	0.4	0.4	4
5	1310.1	630	0.4	0.4	1310.7	645	10.9	10.9	1310.0	627	0.4	0.4	1310.0	627	0.2	0.2	5
6	1310.0	627	0.2	0.4	1310.6	643	8.7	8.8	1310.0	627	0.4	0.4	1310.0	627	0.2	0.2	6
7	1310.0	627	0.4	0.4	1310.6	643	7.2	7.2	1310.0	627	0.4	0.4	1310.0	627	0.2	0.2	7
8	1310.2	632	0.7	0.4	1310.4	637	6.4	6.7	1310.0	627	0.4	0.4	1310.0	627	0.2	0.2	8
9	1310.1	630	0.3	0.4	1310.3	635	5.7	5.8	1310.0	627	0.3	0.3	1310.0	627	0.2	0.2	9
10	1310.0	627	0.2	0.4	1310.3	635	5.1	5.1	1310.0	627	0.3	0.3	1310.0	627	0.2	0.2	10
11	1310.0	627	0.3	0.3	1310.3	635	4.9	4.9	1310.0	627	0.4	0.4	1310.0	627	0.2	0.2	11
12	1310.0	627	0.3	0.3	1310.3	635	4.7	4.7	1310.0	627	0.5	0.5	1310.0	627	0.2	0.2	12
13	1310.0	627	0.3	0.3	1310.3	635	4.4	4.4	1310.0	627	0.5	0.5	1310.0	627	0.2	0.2	13
14	1310.0	627	0.3	0.3	1310.3	635	4.1	4.1	1310.0	627	0.6	0.6	1310.0	627	0.2	0.2	14
15	1310.0	627	0.2	0.2	1310.3	635	3.8	3.8	1310.0	627	0.6	0.6	1310.0	627	0.2	0.2	15
16	1310.0	627	0.2	0.2	1310.3	635	3.5	3.5	1310.0	627	0.5	0.5	1310.0	627	0.2	0.2	16
17	1310.1	630	0.2	0.2	1310.2	632	2.8	3.0	1310.0	627	0.5	0.5	1310.0	627	0.2	0.2	17
18	1310.0	627	0.2	0.2	1310.2	632	2.7	2.7	1310.0	627	0.4	0.4	1310.0	627	0.2	0.2	18
19	1310.1	630	0.3	0.3	1310.2	632	2.9	2.9	1310.0	627	0.4	0.4	1310.0	627	0.2	0.2	19
20	1310.7	645	6.5	5.8	1310.2	632	2.5	2.5	1310.0	627	0.3	0.3	1310.0	627	0.2	0.2	20
21	1311.8	674	10.4	8.9	1310.1	630	2.3	2.4	1310.0	627	0.2	0.2	1310.0	627	0.2	0.2	21
22	1329.1	1278	73.2	42.7	1310.1	630	1.0	1.0	1310.0	627	0.2	0.2	1310.0	627	0.2	0.2	22
23	1312.5	693	20.5	50.0	1310.1	630	0.9	0.9	1310.0	627	0.2	0.2	1310.0	627	0.2	0.2	23
24	1311.7	671	16.4	17.5	1310.1	630	0.9	0.9	1310.0	627	0.2	0.2	1310.0	627	0.2	0.2	24
25	1311.5	666	9.3	9.5	1310.1	630	0.7	0.7	1310.0	627	0.2	0.2	1310.0	627	0.2	0.2	25
26	1311.5	666	7.4	7.4	1310.0	627	0.5	0.6	1310.0	627	0.3	0.3	1310.0	627	0.2	0.2	26
27	1311.5	666	5.8	5.8	1310.0	627	0.5	0.5	1310.2	632	2.0	1.7	1310.0	627	0.2	0.2	27
28	1311.5	666	4.9	4.9	1310.0	627	0.4	0.4	1310.1	630	1.5	1.6	1310.0	627	0.2	0.2	28
29	1310.3	635	4.7	6.3	1310.0	627	0.6	0.6	1310.1	627	0.8	1.0	1310.0	627	0.2	0.2	29
30					1310.0	627	1.0	1.0	1310.0	627	0.6	0.6	1310.0	627	0.2	0.2	30
31					1310.0	627	0.9	0.9					1310.0	627	0.2	0.2	31
TOTAL			165.5	165.2			147.8	148.2			15.1	15.1			7.3	7.3	
Inf. Ac. Ft.			328.3				293.2				30.0				14.5	734.0	
Outf. Ac. Ft.			327.8				294.0				30.0				14.5	729.3	
Maximum Mean Daily Inflow			73.2				22.3				2.0				0.6	73.2	
Minimum Mean Daily Inflow			0.2				0.4				0.2				0.2	0	
Storage Change			+ 0.5				- 0.8				0				0	+ 4.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

% Year

Max. W. S. Elev.	1330.3	feet on 2-22-44	Storage 133.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1261.0	feet on 11/12-13/43	Storage 0.2	Acre Feet	R. E. Waddicor	Dam Tender	Gage Hts. copied	FHM & JEG	
Max. Peak Inf.	138	C.F.S. from 10:00 A.M. on 2-22-44	to 12:00 Noon	on 2-22-44	T. E. Moon	Hydrographer	Storage applied	FHM & JEG	
Max. Peak Outf.	70	C.F.S. from 6:00 P.M. on 2-22-44	to 7:15 A.M.	on 2-23-44		Hydrographer	Inf. & Outf. comp.	PAH-JEG 5/45	

REMARKS Indicates total for period or prorated daily amounts. Ckd. JEG 1/15/45

F. C. Dist. Form 62C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 3.3 Square Miles. Capacity of Reservoir 321.8 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of December, 1943. 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	1310.0	627	0.2	0.2	1310.0	627	0.1	0.1	1310.0	627	+	+	1309.9	625	0	0	1
2	1310.0	627	0.2	0.2	1310.0	627	0.1	0.1	1310.0	627	+	+	1309.9	625	0	0	2
3	1310.0	627	0.2	0.2	1310.0	627	0.1	0.1	1310.0	627	+	+	1309.9	625	0	0	3
4	1310.0	627	0.2	0.2	1310.0	627	0.1	0.1	1309.9	625	+	+	1309.9	625	0	0	4
5	1310.0	627	0.1	0.1	1310.0	627	0.1	0.1	1309.9	625	+	+	1309.9	625	0	0	5
6	1310.0	627	0.1	0.1	1309.9	625	0.05	0.1	1309.9	625	+	+	1309.9	625	0	0	6
7	1310.0	627	0.1	0.1	1309.9	625	0.1	0.1	1309.9	625	+	+	1309.9	625	0	0	7
8	1310.0	627	0.1	0.1	1309.9	625	0.1	0.1	1309.9	625	+	+	1309.9	625	0	0	8
9	1310.0	627	0.1	0.1	1309.9	625	0.1	0.1	1309.9	625	+	+	1309.9	625	0	0	9
10	1310.0	627	0.1	0.1	1309.9	625	0.1	0.1	1309.9	625	+	+	1309.9	625	0	0	10
11	1310.0	627	0.1	0.1	1309.9	625	0.1	0.1	1309.9	625	+	+	1309.8	622	0	0	11
12	1310.0	627	0.1	0.1	1309.9	625	0.1	0.1	1309.9	625	+	+	1309.8	622	0	0	12
13	1310.0	627	0.1	0.1	1309.9	625	0.1	0.1	1309.9	625	+	+	1309.8	622	0	0	13
14	1310.0	627	0.1	0.1	1309.9	625	0.1	0.1	1309.9	625	+	+	1309.8	622	0	0	14
15	1310.0	627	0.1	0.1	1309.9	625	0.1	0.1	1309.9	625	+	+	1309.8	622	0	0	15
16	1310.0	627	0.1	0.1	1310.0	627	0.05	0.1	1309.9	625	+	+	1309.8	622	0	0	16
17	1310.0	627	0.1	0.1	1310.0	627	0.05	0.05	1309.9	625	+	+	1309.8	622	0	0	17
18	1310.0	627	0.1	0.1	1310.0	627	0.05	0.05	1309.9	625	+	+	1309.8	622	0	0	18
19	1310.0	627	0.1	0.1	1310.0	627	0.05	0.05	1309.9	625	+	+	1309.8	622	0	0	19
20	1310.0	627	0.1	0.1	1310.0	627	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	20
21	1310.0	627	0.1	0.1	1310.0	627	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	21
22	1310.0	627	0.1	0.1	1310.0	627	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	22
23	1310.0	627	0.1	0.1	1309.9	625	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	23
24	1310.0	627	0.1	0.1	1309.9	625	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	24
25	1310.0	627	0.1	0.1	1309.9	625	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	25
26	1310.0	627	0.1	0.1	1309.9	625	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	26
27	1309.9	625	0.1	0.1	1309.9	625	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	27
28	1310.0	627	0.2	0.2	1309.9	625	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	28
29	1310.0	627	0.1	0.1	1309.9	625	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	29
30	1310.0	627	0.1	0.1	1309.9	625	0.05	0.05	1309.9	625	+	+	1309.7	620	0	0	30
31					1309.9	625	0.05	0.05	1309.9	625	+	+					31
TOTAL			3.5	3.5			2.25	2.35			1.0	1.0*			0	0.3*	
Inf. Ac. Ft.			6.9				4.5				2.0				0	747.4	
Outf. Ac. Ft.			6.9				4.7				2.0				0.5	743.4	
Maximum Mean Daily Inflow			0.2				0.1				+				0	73.2	
Minimum Mean Daily Inflow			0.1				0.05				+				0	0	
Storage Change			0				- 0.2				0				- 0.5	+ 4.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Yearly Totals

Max. W. S. Elev.	1330.3	feet on 2-22-44	Storage 133.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1261.0	feet on 11/12-13/43	Storage 0.2	Acre Feet	R. E. Waddicor	Dam Tender	Gage Hts. copied	JEG & PAH	
Max. Peak Inf.	138	C.F.S. from 10:00 A.M. on 2-22-44	to 12:00 Noon	on 2-22-44	T. E. Moon	Hydrographer	Storage applied	JEG & PAH	
Max. Peak Outf.	70	C.F.S. from 6:00 P.M. on 2-22-44	to 7:15 A.M.	on 2-23-44		Hydrographer	Inf. & Outf. comp.	PAH 5/31/45	

REMARKS * Indicates total monthly loss due to percolation and other losses. + Indicates negligible flow.
Indicates total for period or prorated daily amounts. Ckd. LWB 6/6/45

SAN GABRIEL NO.2

F. C. Dist. Form 98A Revised 506 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1944

Continuous Water Stage Recorder Pressure

Drainage Area 40.4 Square Miles. Capacity of Reservoir 10501. Ac. Ft. at Spillway Elev. 2385.0 Ft. as of October, 1943 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	2203.0	0	29	29	2203.0	0	52	52	2203.0	0	56	56	2257.5	6474	253	320	1
2			29	29			50	50			54	54	2256.9	6313	229	310	2
3			29	29			48	48			53	53	2256.9	6313	241	240	3
4			29	29			46	46			53	53	2257.3	6420	230	176	4
5			30	30			48	48			53	53	2257.7	6528	226	172	5
6			30	30			49	49			53	53	2258.3	6692	255	172	6
7			30	30			51	51			53	53	2258.6	6775	219	176	7
8			31	31			52	52			53	53	2258.8	6830	205	176	8
9			32	32			54	54	2203.0	0	53	53	2259.0	6885	201	172	9
10			33	33			56	56	2228.6	100.0	57.4	7.0	2259.1	6913	179	164	10
11			34	34			57	57	2247.1	399.0	153.4	2.7	2259.2	6942	180	164	11
12			35	35			58	58	2249.0	439.8	38.4	17.8	2259.2	6942	165	164	12
13			36	36			59	59	2248.6	435.5	21.8	24.0	2259.3	6970	175	160	13
14	Reservoir Dry		37	37	Reservoir Dry		60	60	2248.7	433.3	17.0	18.0	2259.2	6942	144	157	14
15		No Storage	38	38			60	60	2248.2	422.4	11.9	17.4	2259.1	6913	140	154	15
16			39	39			61	61	2248.2	422.4	11.4	11.3	2258.9	6857	123	150	16
17			40	40			62	62	2248.1	420.3	14.2	15.3	2258.8	6830	131	144	17
18			43	43			63	63	2249.4	448.7	29.5	15.2	2258.6	6775	117	144	18
19			44	44		No Storage	63	63	2261.9	772.5	178.1	14.9	2258.4	6719	123	150	19
20			45	45			63	63	2268.1	970.9	161.0	61.0	2258.2	6664	123	150	20
21			46	46			63	63	2268.9	998.3	195.8	182.0	2257.9	6582	110	150	21
22			47	47			63	63	2260.5	731.4	54.5	189.0	2257.7	6528	121	147	22
23			48	48			64	64	2253.2	537.0	42.1	140.0	2257.6	6501	133	147	23
24			50	50			64	64	2252.7	513.0	32.9	45.0	2258.4	6719	176	66	24
25			52	52			64	64	2250.9	482.6	27.7	43.0	2259.2	6942	135	22	25
26			54	54			64	64	2249.3	446.5	20.9	39.0	2260.0	7169	136	22	26
27			56	56			64	64	2249.8	457.6	24.4	18.7	2260.8	7401	139	22	27
28			58	58			62	62	2251.7	501.2	24.3	2.2	2261.5	7607	126	22	28
29			58	58			60	60	2254.4	566.6	35.2	2.2	2262.3	7846	144	23	29
30			56	56	2203.0	0	58	58	2257.1	636.6	37.4	21	2263.0	8059	130	23	30
31	2203.0	0	54	54					2258.0	660.9	33.4	21.0	2263.8	8307	148	23	31
TOTAL			1272	1272			1738	1738			1270.8	936.9			515.7	4282	
Inf. Ac. Ft.			2523				3447				25206				10229	41405	
Outf. Ac. Ft.				2523				3447			(1.6) + 1858.3				(3.8) + 8493	3304.6+(5.4)	
Maximum Mean Daily Inflow			58				64				195.8				255	195.8	
Minimum Mean Daily Inflow			29				46				53				110	29	
Storage Change			0				0				+ 660.9				+ 169.8	+8307	

NOTE: Gage Heights and Storages as of Midnight on Day Shown ½ Year

Max. W. S. Elev.	2374.2	feet on	Various Days	Storage	9031.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2203.0	feet on		Storage		Acre Feet	E. Kenyon DeVore	Dam Tender	Gage Hts. copied	KDV & GHM	
Max. Peak Inf.	4650	C.F.S. from	9:00 A.M. on 2-22-44	to	10:00 A.M. on 2-22-44		Ernest W. Godfrey	Hydrographer	Storage applied	KDV & GHM	
Max. Peak Outf.	1160	C.F.S. from	5:00 P.M. on 2-22-44	to	7:00 P.M. on 2-22-44			Hydrographer	Inf. & Outf. comp.	GHM 6-13-45	

REMARKS Outflows as per Station 209 - less estimated side canyon flow. [Indicates total for period or prorated daily amounts. Ckd. KDV 8-30-45
() Indicates total monthly evaporation

F. C. Dist. Form 98B Revised 506 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1944

Continuous Water Stage Recorder Pressure

Drainage Area 40.4 Square Miles. Capacity of Reservoir 10536. Ac. Ft. at Spillway Elev. 2385.0 Ft. as of January, 1945 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	2264.6	8559	153	26	2346.7	5825.7	363.5	190	2371.9	8727.6	112.7	79	2369.5	8416.8	65.8	78	1
2	2265.3	8782	139	26	2349.1	6072.4	712.4	588	2372.3	8780.2	106.6	79	2369.1	8365.5	49.8	75	2
3	2266.1	9042	160	28	2345.8	5733.6	430.3	601	2372.8	8845.9	113.9	80	2368.9	8340.0	60.8	73	3
4	2267.9	9641	331	29	2341.3	5287.3	376.1	601	2373.2	8898.7	110.4	83	2368.5	8289.2	45.6	70	4
5	2269.0	10017	221	30	2340.4	5202.3	350.3	393	2373.5	8938.4	103.6	83	2368.2	8251.0	52.2	70	5
6	2269.9	10330	190	31	2341.1	5268.2	293.5	260	2373.7	8965.0	98.2	84	2367.8	8200.4	52.2	76	6
7	2270.8	10648	192	31	2342.2	5373.7	265.8	212	2373.9	8991.4	98.9	85	2367.4	8150.1	48.5	73	7
8	2272.1	11116	272	35	2344.9	5642.1	242.9	107*	2374.1	9018.1	98.5	85	2367.0	8099.8	51.2	76	8
9	2272.4	11225	315	260	2348.8	6041.5	246.8	45	2374.2	9031.4	92.4	85	2366.5	8037.6	51.5	82	9
10	2271.7	10971	203	330	2352.7	6447.7	259.3	54	2374.2	9031.4	85.8	85	2366.0	7975.3	52.5	83	10
11	2270.6	10577	202	400	2354.6	6651.4	275.1	172	2374.2	9031.4	85.8	85	2365.4	7901.4	46.3	83	11
12	2269.5	10191	216	410	2354.3	6618.8	261.8	278	2374.2	9031.4	84.6	84	2364.8	7827.8	46.9	83	12
13	2268.2	9743	176	400	2353.7	6554.1	241.4	274	2374.1	9018.1	79.1	85	2364.2	7754.7	47.1	83	13
14	2267.0	9339	167	370	2353.3	6511.4	207.8	229	2373.9	8991.4	74.1	87	2363.6	7682.1	46.2	82	14
15	2265.9	8977	179	360	2354.1	6597.1	172.7	129	2373.7	8965.0	75.2	88	2363.0	7609.7	46.3	82	15
16	2264.6	8559	140	350	2355.9	6793.6	149.9	50	2373.5	8938.4	75.3	88	2362.4	7538.1	44.9	80	16
17	2263.3	8152	136	340	2357.6	6982.9	150.0	54	2373.3	8912.0	74.9	87	2361.7	7455.1	37.0	78	17
18	2262.0	7755	151	350	2359.2	7164.4	149.9	58	2373.1	8885.4	72.8	85	2361.1	7384.4	41.1	76	18
19	2261.0	7459	201	350	2360.8	7349.3	157.6	64	2372.8	8845.9	65.0	84	2360.4	7302.8	35.5	76	19
20	2264.8	8622	772	186	2362.3	7526.2	151.8	62	2372.5	8806.4	64.8	84	2359.7	7221.8	35.0	75	20
21	2276.8	12886	2561	410	2363.5	7670.0	133.2	60	2372.1	8753.8	57.6	83	2359.1	7152.9	41.0	75	21
22	2343.1	54617	28648	7610	2364.5	7791.2	123.9	62	2371.7	8701.6	56.7	82	2358.4	7073.2	35.2	75	22
23	2340.1	51741	6290	7740	2365.4	7901.4	119.3	63	2371.4	8662.4	63.1	82	2357.8	7005.3	41.4	75	23
24	2339.6	51277	3149	3380	2366.6	8050.0	137.6	62	2371.0	8610.2	56.4	82	2357.1	6926.7	35.1	74	24
25	2340.2	51835	2312	2030	2367.7	8187.9	133.2	63	2370.7	8571.4	61.2	80	2356.4	6849.0	35.5	74	25
26	2342.3	53835	1889	880	2368.6	8301.9	122.4	64	2370.3	8519.7	54.5	80	2355.7	6771.9	34.7	73	26
27	2343.2	54717	1627	1180	2369.5	8416.8	122.8	64	2370.5	8545.6	93.1	80	2355.0	6694.8	34.3	72	27
28	2343.0	54516	1451	1550	2370.1	8493.8	105.2	65	2370.2	8506.3	60.5	80	2354.3	6618.8	32.5	70	28
29	2343.3	54816	1611	1460	2370.6	8558.5	99.5	66	2370.0	8480.9	67.6	80	2353.6	6543.4	31.8	69	29
30					2371.0	8610.2	96.9	70	2369.7	8442.4	60.2	79	2352.9	6468.8	32.0	69	30
31					2371.4	8662.4	102.0	75					2352.2	6395.0	31.4	68	31
TOTAL			5405.4	3058.2			6754.9	5135.			2403.5	2493.0			1341.6	2348.0	
Inf. Ac. Ft.			10721.5				13398.1				4767.3				2661.0	35688.4	
Outf. Ac. Ft.			(5.0)+6065.8				(32.1)+10185.1				(42.4)+4944.8				(51.0)+4657.2	29157.5(135.9)	
Maximum Mean Daily Inflow			2864.8				712.4				113.9				53.6	2864.8	
Minimum Mean Daily Inflow			13.6				96.9				54.5				31.4	2.9	
Storage Change			+ 4650.9				+ 3180.8				- 220.0				- 2047.4	+6395.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown ¼ Year

Max. W. S. Elev.	2374.2	feet on	Various Days	Storage	9031.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2203.0	feet on		Storage	0	Acre Feet	E. Kenyon DeVore	Dam Tender	Gage Hts. copied	KDV & GHM	
Max. Peak Inf.	4650	C.F.S. from	9:00 A.M. on 2-22-44	to	10:00 A.M. on 2-22-44		Ernest W. Godfrey	Hydrographer	Storage applied	4-9-45 6-6-45	
Max. Peak Outf.	1160	C.F.S. from	5:00 P.M. on 2-22-44	to	7:00 P.M. on 2-22-44			Hydrographer	Inf. & Outf. comp.	GHM 6-13-1945	

REMARKS Note: Outflows as per Station 209 - less estimated side canyon flow. [indicates total for period or prorated daily amounts. KDV 8-30-1945
() indicates total monthly evaporation. * indicates adjustment for 3 A. F. gain in storage.

SAN GABRIEL NO. 2 (CONT.)

F. C. Dist. Form 480 Revised 300 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1944

On

Drainage Area 40.4 Square Miles. Capacity of Reservoir 10536 Ac. Ft. at Spillway Elev. 2385.0 Ft. as of January 1, 1945

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	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	2351.6	6332.1	36.7	68	2330.5	4328.4	15.1	44	2312.1	2975.3	6.4	22	2298.0	2148.2	5.0	15.4	1
2	2350.9	6258.9	30.4	67	2329.7	4261.5	9.1	42	2311.6	2943.7	6.7	22	2297.1	2100.6	4.3	28	2
3	2350.2	6186.3	30.9	67	2329.0	4203.5	12.5	41	2311.1	2912.1	5.7	21	2296.0	2043.3	4.5	33	3
4	2349.5	6113.8	30.2	66	2328.3	4146.4	12.0	40	2310.6	2880.9	6.0	21	2294.9	1987.1	3.0	31	4
5	2348.8	6041.5	29.5	65	2327.7	4098.0	14.4	38	2310.2	2856.0	9.1	21	2293.8	1931.7	0	27	5
6	2348.0	5959.1	22.4	63	2327.0	4042.0	10.6	38	2309.7	2825.0	5.1	20	2292.8	1882.1	0	24	6
7	2347.3	5887.2	27.5	63	2326.3	3987.0	9.9	37	2309.2	2794.2	5.1	20	2291.8	1833.2	3.8	28	7
8	2346.6	5815.4	26.3	62	2325.6	3932.4	9.1	36	2308.7	2763.6	4.8	19.6	2290.5	1770.7	0.9	32	8
9	2345.9	5743.8	24.3	60	2325.0	3886.0	13.2	36	2308.3	2739.1	7.7	19.6	2289.2	1709.3	1.4	32	9
10	2345.3	5682.7	29.6	60	2324.4	3840.2	12.5	35	2307.8	2708.7	4.4	19.2	2287.8	1644.5	0	32	10
11	2344.6	5611.8	24.8	60	2323.8	3794.6	12.7	35	2707.4	2684.5	7.4	19.2	2286.5	1585.5	2.6	32	11
12	2343.9	5541.3	25.0	60	2323.1	3741.8	8.0	34	2306.9	2654.3	4.1	18.8	2285.3	1532.1	5.4	32	12
13	2343.2	5471.7	23.4	58	2322.5	3697.0	12.1	34	2306.5	2630.4	7.3	18.8	2284.1	1479.6	2.8	29	13
14	2342.4	5393.2	19.1	58	2321.9	3652.3	11.1	33	2306.1	2606.5	7.3	18.8	2281.8	1382.0	0.1	49	14
15	2341.7	5325.5	24.6	58	2321.3	3608.1	10.4	32	2305.6	2576.8	3.8	18.4	2278.8	1261.3	0	60	15
16	2341.0	5258.6	24.9	58	2320.7	3564.2	10.6	32	2305.2	2553.1	7.0	18.4	2275.9	1152.1	0	54	16
17	2340.3	5192.9	25.5	58	2320.1	3520.6	10.8	32	2304.7	2523.8	4.1	18.4	2273.1	1052.6	0	49	17
18	2339.6	5127.7	24.1	56	2319.5	3477.4	9.8	31	2304.3	2500.4	7.1	18.4	2272.4	1028.5	5.1	17.1	18
19	2338.9	5063.1	20.1	52	2318.9	3434.5	10.0	31	2303.8	2471.4	4.3	18.4	2272.3	1025.0	6.3	7.8	19
20	2338.1	4990.1	15.9	52	2318.3	3392.1	9.4	30	2303.4	2448.3	7.1	18.0	2272.1	1018.1	4.6	7.8	20
21	2337.4	4927.0	18.8	50	2317.8	3356.9	12.1	29	2302.9	2419.5	3.7	17.6	2271.9	1011.3	4.6	7.8	21
22	2336.7	4864.4	18.1	49	2317.2	3315.1	8.6	29	2302.5	2396.7	6.7	17.6	2271.7	1004.5	4.7	7.8	22
23	2336.0	4802.2	18.1	49	2316.7	3280.5	11.2	28	2302.0	2368.2	3.3	17.2	2270.1	950.8	1.2	28	23
24	2335.3	4740.7	17.6	48	2316.2	3246.1	10.2	27	2301.6	2345.7	6.3	17.2	2267.9	879.1	0.2	36	24
25	2334.7	4688.2	21.2	47	2315.6	3205.3	6.1	26	2301.1	2317.5	3.5	17.2	2265.6	806.7	0	35	25
26	2334.0	4627.3	16.8	47	2315.1	3171.5	9.6	26	2300.7	2295.3	6.7	17.2	2263.1	731.8	0.4	38	26
27	2333.3	4566.9	15.1	46	2314.6	3138.1	8.8	25	2300.2	2267.6	3.4	16.8	2260.2	650.9	1.4	42	27
28	2332.6	4506.8	16.3	46	2314.1	3104.8	6.8	25	2299.7	2240.1	2.7	16.0	2257.2	572.5	0.7	40	28
29	2331.9	4446.9	16.6	46	2313.6	3072.1	8.1	24	2299.3	2218.3	5.1	15.4	2254.1	496.8	0	38	29
30	2331.2	4387.5	16.0	45	2313.1	3039.5	8.1	24	2298.9	2196.5	4.9	15.4	2250.8	423.6	1.2	38	30
31					2312.6	3007.4	7.3	23	2298.4	2169.7	2.4	15.4					31
TOTAL			690.8	1684			327.9	997			169.2	574.0			59.4	930.7	
Inf. Ac. Ft.			1370.2				638.5				335.6				117.8	381.50.5	
Outf. Ac. Ft.			(37.5)+3340.2				(42.1)+1977.5				(34.7)+1138.5				(17.9)+1846.0	(26)+1359.7	
Maximum Mean Daily Inflow			30.0				12.6				6.8				3.4	2864.8	
Minimum Mean Daily Inflow			16.0				7.3				4.2				1.4	1.4	
Storage Change			- 2007.5				-1380.1				-837.7				- 1746.1	+423.6	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	2374.2	feet on Various Days	Storage 9031.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	2203.0	feet on	Storage 0	Acre Feet	E. Kenyon DeVore	Dam Tender	Gage Hts. copied KDV & GHM
Max. Peak Inf.	4650	C.F.S. from 9:00 A.M. on 2-22-44	to 10:00 A.M. on 2-22-44		Ernest W. Godfrey	Hydrographer	Storage applied KDV & GHM
Max. Peak Outf.	1160	C.F.S. from 5:00 P.M. on 2-22-44	to 7:00 P.M. on 2-22-44			Hydrographer	Inf. & Outf. comp. GHM 6/13/45
REMARKS	Outflows as per Station 209 - less estimate side canyon flow.						Ckd. Kpv 8/30/45
()	Indicates total monthly evaporation.						
	Indicates total for period or prorated daily amounts.						

SAN GABRIEL NO 1

F. C. Dist. Form 480A Revised 300 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon for the Year Ending September 30, 1944

On

Drainage Area 202 Square Miles. Capacity of Reservoir 44032 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of September 1, 1943

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	1296.40	933	45.7	60.9	1296.45	936	51.6	55.2	1295.15	852*	48.7	45.1	1340.65	55876	149.4	91.3	1
2	1296.45	936	47.5	45.6	1296.30	928	51.3	54.9	1295.25	858	48.3	45.0	1337.40	55349	140.7	405.7	2
3	1296.45	936	46.1	45.6	1296.10	917	48.9	54.1	1295.35	863	47.3	44.6	1338.05	55452	141.5	90.0	3
4	1296.40	933	44.6	45.6	1295.90	906	48.8	54.1	1295.40	866	46.6	44.9	1338.90	55589	130.4	60.9	4
5	1296.40	933	46.1	45.6	1295.65	893	47.9	54.1	1295.65	879	51.8	45.1	1339.55	55695	122.1	68.4	5
6	1296.45	936	47.5	45.6	1295.40	880	47.8	54.1	1296.10	903	57.3	45.1	1340.10	55786	137.1	90.9	6
7	1296.40	933	44.4	45.6	1295.10	864	46.5	54.1	1296.35	917	52.4	45.1	1340.40	55835	115.9	90.6	7
8	1296.40	933	45.9	45.6	1294.80	849	46.9	54.1	1296.55	928	50.8	45.1	1340.70	55885	116.9	91.0	8
9	1296.40	933	46.0	45.6	1294.65	842	47.3	50.4	1296.70	936	49.2	45.1	1340.90	55918	108.6	91.3	9
10	1296.40	933	46.1	45.6	1294.75	847	47.9	45.1	1298.10	1018	105.1	63.8	1341.10	55951	108.2	91.3	10
11	1296.40	933	45.9	45.6	1294.80	849	46.5	45.1	1305.45	1554	358.8	88.4	1341.25	55976	104.3	91.3	11
12	1296.40	933	46.0	45.6	1294.85	852	46.9	45.1	1307.00	1685	154.8	88.6	1341.40	56002	104.4	91.3	12
13	1296.40	933	46.0	45.6	1294.90	854	46.4	45.1	1307.70	1746	119.7	88.6	1341.55	55992	101.0	104.9	13
14	1296.35	933	46.1	45.6	1294.95	857	46.9	45.1	1308.90	1853	101.8	47.7	1341.20	55968	99.9	111.3	14
15	1296.30	931	45.0	45.6	1295.00	859	46.4	45.1	1309.80	1936	92.3	50.2	1341.00	55934	95.0	111.5	15
16	1296.20	928	44.4	45.6	1295.05	862	46.9	45.1	1309.60	1918	81.3	90.0	1340.85	55909	99.5	111.5	16
17	1296.80	922	42.7	45.6	1295.20	869	48.6	45.1	1309.40	1899	80.4	90.0	1340.65	55876	95.5	111.5	17
18	1297.35	955	62.3	45.6	1295.60	890	55.8	45.1	1310.00	1955	118.2	90.0	1340.40	55835	91.5	111.6	18
19	1297.70	987	61.9	45.6	1295.80	901	50.7	45.1	1316.40	2606	418.8	90.6	1340.15	55794	91.6	111.6	19
20	1298.00	1008	56.4	45.6	1296.00	911	50.3	45.1	1323.20	3379	483.1	93.3	1339.85	55744	87.0	111.6	20
21	1298.05	1026	54.9	45.6	1296.25	925	52.3	45.1	1331.65	4490	710.8	159.5	1339.55	55695	87.2	111.5	21
22	1297.90	1029	53.8	52.0	1296.30	928	50.8	49.1	1334.00	4826	458.2	288.5	1339.30	55654	90.9	111.5	22
23	1297.70	1020	51.0	55.2	1296.15	920	48.2	52.0	1335.00	4976	362.9	286.8	1339.10	55621	94.3	111.0	23
24	1297.45	1008	49.6	55.2	1296.05	914	49.2	52.0	1336.60	5223	216.0	91.3	1339.25	55646	110.6	97.7	24
25	1297.25	993	48.0	55.2	1295.90	906	48.1	52.0	1337.80	5412	187.8	92.0	1339.15	55629	83.3	91.3	25
26	1297.05	981	49.4	55.2	1295.70	895	46.8	52.0	1338.80	5573	174.0	92.0	1339.00	55605	79.5	91.3	26
27	1296.90	969	49.2	55.2	1295.50	885	47.2	52.0	1337.60	5380	144.1	241.0	1338.90	55589	82.3	90.2	27
28	1296.80	961	51.3	55.2	1295.30	875	47.2	52.0	1338.05	5452	126.4	90.0	1338.75	55565	78.7	90.6	28
29	1296.70	955	52.4	55.2	1295.10	864	46.8	52.0	1338.65	5549	139.0	90.0	1338.60	55541	75.7	87.8	29
30	1296.60	950	52.8	55.2	1295.00	859	47.2	49.7	1339.20	5638	134.9	90.0	1338.55	55533	82.1	86.1	30
31		944	52.5	55.2					1339.95	5761	152.3	90.0	1338.55	55533	86.1	86.1	31
TOTAL			1521.5	1521.7			1454.1	1489.1			5373.1	2888.4			3191.2	3294.4	
Inf. Ac. Ft.			3017.5				2884.2				1065.7				6329.6	2288.9.1	
Outf. Ac. Ft.			3018.9+(19.6)				2953.6+(15.7)				5729.1+(12.3)				(23.2)+ 6534.3	(82.5)+(70.8)	
Maximum Mean Daily Inflow			62.3				55.8				710.8				149.4	7108	
Minimum Mean Daily Inflow			42.7				46.4				46.6				75.7	42.7	
Storage Change			- 20				- 85				+ 4916				- 228	+4583	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	1430.3	feet on 5-12-44	Storage 32980	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	1272.2**	feet on Various Days	Storage Sump only	Acre Feet	Ralph Harrison	Dam Tender	Gage Hts. copied JEG & PAH
Max. Peak Inf.	9860	C.F.S. from 10:00 A.M. on 2-22-44	to 11:00 A.M. on 2-22-44		G. H. Middleton	Hydrographer	Storage applied JEG & PAH
Max. Peak Outf.	4970	C.F.S. from 3:10 P.M. on 5-20-44	to 4:30 P.M. on 5-20-44			Hydrographer	Inf. & Outf. comp. PAH 6/5/45
REMARKS	* Indicates corrected for 14 A. F. capacity lost due to debris encroachment. () Indicates total monthly evaporation loss.						
	** Indicates observed water surface in reservoir- minimum water surface in sump 1278.1, 9/30/1944.						

SAN GABRIEL NO. 1 (CONT.)

F. C. Dist. Form 688 Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon for the Year Ending September 30, 1944

On

Continuous Water Stage Recorder: Au

Drainage Area 202 Square Miles. Capacity of Reservoir 44032 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of September, 19 43 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	1338.55	5533	86.4	86.1	1373.05	12889	767.7	535.8	1400.25	21056	589.4	121.34	1415.55	26767	395.6	84.8	1
2	1338.50	5525	84.3	88.0	1376.55	13796	1700.2	1242.1	1392.30	18397	631.1	196.97	1417.15	27405	407.9	84.8	2
3	1338.55	5533	94.4	90.0	1375.00	13355	1349.6	1556.3	1383.55	15737	651.1	199.02	1418.80	28074	428.7	88.0	3
4	1339.15	5629	138.9	90.0	1375.90	13623	1244.9	1124.9	1374.25	13188	664.8	194.85	1420.35	28709	415.0	90.6	4
5	1339.35	5662	106.9	90.0	1375.30	13464	1026.9	1106.5	1363.30	10479	594.6	195.85	1421.85	29329	407.3	90.6	5
6	1339.45	5679	99.1	90.0	1370.95	12340	802.0	1367.6	1355.65	8753	602.7	147.18	1423.30	29937	399.4	90.6	6
7	1339.55	5695	98.3	90.0	1371.70	12531	771.1	673.8	1360.15	9752	595.9	91.3	1424.80	30574	414.4	90.6	7
8	1340.10	5786	136.4	90.0	1372.45	12722	698.2	600.6	1364.45	10750	595.8	92.6	1426.25	31198	407.2	90.6	8
9	1340.95	5926	161.5	90.6	1373.05	12876	632.9	553.5	1368.10	11630	538.5	93.3	1427.70	31828	410.2	90.6	9
10	1341.70	6052	155.2	90.8	1374.55	13267	704.7	506.7	1371.35	12442	502.4	92.0	1429.10	32445	404.2	91.3	10
11	1342.30	6153	156.3	104.6	1377.25	13984	872.5	510.7	1374.45	13241	494.9	90.6	1429.55	32645	406.1	303.7	11
12	1342.70	6222	151.9	116.3	1380.75	14943	998.9	514.7	1377.30	13997	473.8	91.3	1429.00	32400	406.5	524.0	12
13	1343.00	6273	143.0	116.5	1383.95	15852	976.7	517.7	1380.10	14762	477.8	90.8	1427.55	31763	398.8	718.0	13
14	1343.35	6334	147.4	116.4	1384.20	15925	878.2	840.5	1382.75	15508	467.4	90.3	1426.35	31240	401.3	661.3	14
15	1343.70	6395	147.7	116.3	1375.70	13570	748.4	1934.3	1385.30	16247	464.5	90.6	1424.55	30467	406.2	793.6	15
16	1344.00	6447	141.7	115.1	1365.30	10952	585.7	1904.5	1387.80	16993	469.6	91.3	1423.70	30106	373.9	552.5	16
17	1344.30	6500	141.5	114.2	1355.05	8623	577.4	1750.5	1390.10	17701	450.5	91.3	1421.70	29267	380.7	801.1	17
18	1344.55	6545	138.3	115.1	1359.70	9649	609.5	920	1392.35	18413	453.3	92.1	1421.00	28976	360.0	504.5	18
19	1344.80	6589	137.8	115.6	1364.15	10679	611.2	913	1394.50	19110	443.7	91.0	1418.75	28053	364.3	827.0	19
20	1345.70	6933	289.0	115.6	1368.40	11704	610.1	920	1396.60	19807	444.1	90.3	1416.00	26945	329.2	886.4	20
21	1352.10	7999	664.1	126.6	1372.35	12697	594.1	919	1398.50	20452	418.7	90.6	1414.10	26193	358.8	736.2	21
22	1361.30	5097	5707.6	2129.0	1375.85	13609	552.7	913	1400.35	21092	417.1	92.0	1411.90	25337	351.2	781.6	22
23	1378.15	14227	2205.5	2644.0	1379.15	14501	542.4	913	1402.15	21726	413.1	91.0	1408.90	24195	336.4	910.5	23
24	1375.30	13464	1051.2	1435.4	1382.25	15380	585.2	909	1403.90	22351	407.3	90.6	1406.85	23430	326.4	709.4	24
25	1374.80	13333	727.9	793.7	1386.25	16528	620.7	918	1405.55	22951	395.1	90.6	1401.90	21637	328.9	1230.6	25
26	1374.10	13149	548.0	640.8	1389.60	17546	607.9	926	1407.20	23559	398.4	90.6	1400.45	21126	319.5	574.7	26
27	1372.70	12786	502.5	684.5	1392.90	18590	622.3	933	1408.70	24120	500.7	217.6	1397.95	20263	324.1	757.0	27
28	1371.15	12391	514.0	712.7	1395.80	19540	572.8	911	1410.35	24743	411.5	97.4	1394.10	18979	337.5	982.5	28
29	1371.30	12429	510.0	490.6	1398.60	20436	570.2	906	1412.35	25510	388.7	0.7	1391.70	18206	319.0	706.7	29
30					1401.20	21390	549.7	913	1414.00	26154	383.6	56.8	1389.45	17500	325.3	680.1	30
31					1403.75	22297	550.0	907					1390.75	17905	298.8	93.3	31
TOTAL		15186.8	11698.5			235348	18522.8			147401	12749.2			115568		15841.5	
Inf. Ac. Ft.		30128.6				466806				292365				229226		151,851.4	
Outf. Ac. Ft.		23203.6 + (23.0)				367394 + (73.2)				252877 + (91.8)				+(147.2) 310244		134,990.0 + (40.0)	
Maximum		5707.6				1700.2				664.8				428.7		5,707.6	
Minimum		84.3				542.4				383.6				298.8		42.7	
Mean Daily Inflow																	
Storage Change		+ 6896				+ 9868				+ 3857				- 8249		+ 16955.*	

NOTE: Gage Heights and Storages as of Midnight on Day Shown.

* Year

Max. W. S. Elev.	1430.3	feet	on 5-12-44	Storage	32980	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1272.2**	feet	on Various Days	Storage	Sump only	Acre Feet	Ralph H. Harrison	Dam Tender	Gage Hts. copied	JEG & PAH
Max. Peak Inf.	9860.	C.F.S. from	10:00 A.M. on 2-22-44	to	11:00 A.M.	on 2-22-44	George H. Middleton	Hydrographer	Storage applied	JEG & PAH
Max. Peak Outf.	4970.	C.F.S. from	3:10 P.M. on 5-20-44	to	4:30 P.M.	on 5-20-44		Hydrographer	Inf. & Outf. comp.	PAH 6/6/45

REMARKS () Indicates total monthly evaporation loss.
** Indicates observed water surface in reservoir - minimum water surface in sump 1278.1, 9/30/44.

F. C. Dist. Form 688 Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Gabriel Canyon for the Year Ending September 30, 19 44

On

Continuous Water Stage Recorder: Au

Drainage Area 202 Square Miles. Capacity of Reservoir 43858 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of July, 19 44 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	1391.90	18269	278.3	94.0	1339.20	5638	190.4	192.7			103.6	103.4			72.2	72.0	1
2	1393.10	18654	288.9	94.0	1339.15	5629	189.7	192.7			101.9	101.6			79.2	79.0	2
3	1394.15	18995	268.2	94.0	1338.05	5452	187.0	274.6			101.0	100.7			90.2	90.0	3
4	1395.15	19323	263.9	94.7	1335.85	5106	182.4	355.2			98.8	98.6			87.2	87.0	4
5	1396.15	19657	264.7	93.3	1333.60	4768	178.1	347.0			97.8	97.5			82.2	82.0	5
6	1397.05	19958	247.2	93.0	1328.30	a 4106	174.9	507.0			97.8	97.5			78.3	78.0	6
7	1398.00	20280	257.7	93.7	1319.20	a 3114	168.3	667.2			96.9	96.6			80.3	80.0	7
8	1398.95	20606	259.7	94.0	1313.85	a 2515	167.7	469.1			96.8	96.6			88.2	88.0	8
9	1398.85	20571	265.2	281.5	1302.65	a 1613	167.7	621.8			94.7	94.5			88.2	88.0	9
10	1397.30	20043	259.8	524.7	1303.15	a 1629	165.1	156.3			91.4	91.2			86.2	86.0	10
11	1395.15	19323	256.0	617.0	1303.45	a 1636	160.1	156.5			90.5	90.3			85.2	85.0	11
12	1393.60	18816	256.4	510.6	1303.50	a 1632	157.3	158.3			90.5	90.3			85.2	85.0	12
13	1392.05	18317	251.6	501.4	1302.80	a 1578	152.8	179.8			91.4	91.2			84.2	84.0	13
14	1388.90	17329	239.0	734.8	1301.75	a 1500	148.7	187.2			92.6	92.4			98.2	98.0	14
15	1387.95	17038	240.6	384.7	1300.55	a 1417	146.0	187.2			93.6	93.3			118.2	118.0	15
16	1385.85	16409	237.2	551.9	1299.25	a 1332	143.7	186.2			92.3	92.1			112.2	112.0	16
17	1383.60	15752	222.6	551.6	1297.75	a 1240	139.4	185.2			92.3	92.1			110.1	110.0	17
18	1381.20	15069	209.4	551.0	1296.10	a 1143	135.0	183.2			90.2	90.0			84.2	84.0	18
19	1378.70	14377	210.8	557.0	1285.10	1152	130.9	371.6			87.2	87.0			60.2	60.0	19
20	1376.45	13769	208.9	513.1			128.1	127.9			83.5	83.4			59.1	59.0	20
21	1373.70	13045	210.9	574.1			124.5	124.3			81.0	80.7			59.1	59.0	21
22	1370.95	12340	198.0	551.6			122.5	122.3			81.0	80.7			57.2	57.0	22
23	1368.40	11704	191.6	510.5			119.8	119.6			80.3	80.1			67.2	67.0	23
24	1366.35	11204	203.4	453.6			118.4	118.2			79.7	79.5			87.2	87.0	24
25	1362.60	10315	207.0	653.3			115.4	115.2			78.8	78.6			86.1	86.0	25
26	1358.30	9335	185.5	678.2			114.1	113.9			77.4	77.1			86.1	86.0	26
27	1354.50	8505	199.0	616.0			111.5	111.3			75.9	75.6			92.1	92.0	27
28	1350.30	7630	181.9	621.6			110.3	110.1			75.9	75.6			91.1	91.0	28
29	1345.65	6686	181.1	806.3			107.5	107.3			74.7	74.4			91.1	91.0	29
30	1339.25	5646	192.4	563.9			106.2	106.0			71.7	71.5			89.1	89.0	30
31							106.2	106.0			70.3	70.1					31
TOTAL			6926.9	13059.1			44697	69609			2731.6	2724.2			2535.3	2530.0	
Inf. Ac. Ft.			13759.1				8865.5				5418.0				5028.7	184,922.7	
Outf. Ac. Ft.			25902.3 + (115.8)				138067 + (40.1)				5403.4 + (14.7)			+(10.5)	5018.2	184,626 + (58.1)	
Maximum			288.9				190.4				103.6				118.2	5707.6	
Minimum			181.1				106.2				70.3				59.1	42.7	
Mean Daily Inflow																	
Storage Change		- 12259				- 4981.3					0.				0.	- 285	

NOTE: Gage Heights and Storages as of Midnight on Day Shown.

Yearly Totals

Max. W. S. Elev.	1430.3	feet	on 5-12-44	Storage	32980	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1272.2**	feet	on Various Days	Storage	Sump only	Acre Feet	Ralph H. Harrison	Dam Tender	Gage Hts. copied	JEG & PAH
Max. Peak Inf.	9860	C.F.S. from	10:00 A.M. on 2-22-44	to	11:00 A.M.	on 2-22-44	George H. Middleton	Hydrographer	Storage applied	JEG & PAH
Max. Peak Outf.	4970	C.F.S. from	3:10 P.M. on 5-20-44	to	4:30 P.M.	on 5-20-44		Hydrographer	Inf. & Outf. comp.	PAH 6/5/45

REMARKS *** Incicate corrected for 550 A. F. capacity lost due to debris encroachment. **** Indicates corrected for total debris loss.
0 Indicates storages computed volumetrically. () Indicates total monthly evaporation loss.
** Indicates observed water surface in reservoir - minimum water surface in sump 1278.1, 9-30-1944.

BIG DALTON

F. C. Dist. Form 86A Revised 1944 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In On Big Dalton Canyon for the Year Ending September 30, 19 44

Continuous Water Stage Recorder All

Drainage Area 4.5 Square Miles. Capacity of Reservoir 952.9 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of September 1943 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	1620.9	135	0.2	0	1624.6	198	0.05	0	1626.9	248	0.1	0	1636.8	562	0.6	0	1
2	1621.1	138	0.1	0	1624.6	198	0.05	0	1627.0	250	0.1	0	1637.2	578	0.8	0	2
3	1621.3	141	0.1	0	1624.7	200	0.1	0	1627.0	250	0.1	0	1637.6	595	0.9	0	3
4	1621.5	145	0.2	0	1624.8	202	0.1	0	1627.1	252	0.1	0	1637.9	607	0.6	0	4
5	1621.6	146	0.1	0	1624.9	204	0.1	0	1627.2	255	0.1	0	1638.2	620	0.6	0	5
6	1621.8	149	0.2	0	1625.0	206	0.1	0	1627.3	257	0.1	0	1638.7	641	1.1	0	6
7	1621.9	151	0.1	0	1625.1	208	0.1	0	1627.3	257	0.05	0	1639.0	654	0.7	0	7
8	1622.1	154	0.2	0	1625.2	210	0.1	0	1627.4	260	0.1	0	1639.3	668	0.6	0	8
9	1622.2	156	0.1	0	1625.3	212	0.05	0	1627.5	262	0.1	0	1639.6	681	0.6	0	9
10	1622.4	159	0.1	0	1625.3	212	0.05	0	1627.8	269	0.4	0	1639.8	690	0.6	0	10
11	1622.5	161	0.1	0	1625.4	214	0.1	0	1628.2	279	0.8	0	1640.1	704	0.6	0	11
12	1622.6	162	0.1	0	1625.5	217	0.1	0	1628.3	282	0.1	0	1640.4	718	0.6	0	12
13	1622.7	164	0.1	0	1625.6	219	0.1	0	1628.4	284	0.1	0	1640.6	727	0.6	0	13
14	1622.8	166	0.1	0	1625.6	219	0.05	0	1628.5	287	0.2	0	1640.8	737	0.6	0	14
15	1623.0	169	0.1	0	1625.7	221	0.1	0	1628.7	292	0.2	0	1641.1	751	0.6	0	15
16	1623.1	171	0.1	0	1625.8	223	0.1	0	1628.8	295	0.2	0	1641.3	761	0.5	0	16
17	1623.2	173	0.1	0	1625.9	225	0.1	0	1629.0	300	0.2	0	1641.5	770	0.5	0	17
18	1623.4	176	0.2	0	1626.0	227	0.05	0	1629.2	306	0.3	0	1641.7	780	0.5	0	18
19	1623.5	178	0.1	0	1626.0	227	0.05	0	1629.8	322	0.8	0	1641.9	790	0.5	0	19
20	1623.6	180	0.1	0	1626.1	229	0.1	0	1630.8	352	1.5	0	1642.0	795	0.4	0	20
21	1623.7	182	0.1	0	1626.2	232	0.1	0	1632.1	392	2.1	0	1642.2	805	0.4	0	21
22	1623.8	183	0.05	0	1626.2	232	0.05	0	1632.8	415	1.1	0	1642.4	815	0.5	0	22
23	1623.9	185	0.1	0	1626.3	234	0.1	0	1633.3	432	0.9	0	1642.7	831	0.8	0	23
24	1624.0	187	0.05	0	1626.4	236	0.1	0	1633.7	446	0.7	0	1643.0	846	0.7	0	24
25	1624.0	187	0.05	0	1626.5	238	0.1	0	1634.0	457	0.5	0	1643.2	857	0.6	0	25
26	1624.1	189	0.1	0	1626.5	238	0.05	0	1634.4	471	0.7	0	1643.4	867	0.5	0	26
27	1624.2	191	0.1	0	1626.6	241	0.1	0	1634.7	482	0.6	0	1643.6	878	0.5	0	27
28	1624.3	193	0.05	0	1626.7	243	0.05	0	1635.0	493	0.6	0	1643.8	888	0.5	0	28
29	1624.3	193	0.05	0	1626.7	243	0.05	0	1635.5	512	0.9	0	1644.0	899	0.5	0	29
30	1624.4	195	0.1	0	1626.8	245	0.1	0	1636.0	531	1.0	0	1644.2	910	0.6	0	30
31	1624.5	196	0.05	0					1636.5	550	0.9	0	1644.4	921	0.5	0	31
TOTAL			3.30	0			2.45	0			15.35	0			18.7	0	
Inf. Ac. Ft.			6.5				4.9				30.5				37.1	79.0	
Outf. Ac. Ft.				0				0				0			0	0	
Maximum Mean Daily Inflow			0.2				0.1				2.1				1.1	2.1	
Minimum Mean Daily Inflow			0.05				0.05				0.05				0.4	0.05	
Storage Change			+ 6.5				+ 4.9				+ 30.5				+ 37.1	+ 79.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

½ Year

Max. W. S. Elev.	1689.0	feet on 6/13-15/44	Storage 603.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1620.3	feet on 9-22-44	Storage 12.7	Acre Feet	H. Paul Keiser	Dam Tender	Gage Hts. copied	PHM & PAH
Max. Peak Inf.	226	C.F.S. from 11:00 A.M. on 2-22-44	to 1:00 P.M. on 2-22-44		C. L. Brewster	Hydrographer	Storage applied	PHM & PAH
Max. Peak Outf.	55	C.F.S. from at 4:00 P.M. on 2-23-44	to	on		Hydrographer	Inf. & Outf. comp.	KFS & PAH
REMARKS	Indicates amount for period or prorated daily amounts.						Ckd.	JEG 12/11/44
								PAH 4/1945

F. C. Dist. Form 86A Revised 1944 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In On Big Dalton Canyon for the Year Ending September 30, 19 44

Continuous Water Stage Recorder All

Drainage Area 4.5 Square Miles. Capacity of Reservoir 952.9 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of September 1943 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	1644.6	932	0.6	0	1670.5	322.7	10.0	10.0	1680.3	458.4	2.1	0	1685.7	546.1	1.3	0	1
2	1644.8	943	0.5	0	1670.8	326.4	18.0	16.2	1680.5	461.5	2.0	0	1685.8	547.8	1.2	0	2
3	1645.1	960	0.9	0	1669.6	311.8	14.5	21.8	1680.8	466.2	1.9	0	1685.9	549.5	1.1	0	3
4	1645.6	985	1.4	0	1669.4	309.4	13.6	14.8	1681.0	469.3	1.8	0	1686.1	552.9	1.0	0	4
5	1645.9	1005	0.8	0	1669.8	314.2	11.6	9.2	1681.2	472.5	1.7	0	1686.2	554.6	0.9	0	5
6	1646.2	1023	0.9	0	1670.0	316.6	9.7	8.5	1681.4	475.6	1.6	0	1686.2	554.6	0.9	0	6
7	1646.4	1035	0.7	0	1670.0	316.6	8.2	8.2	1681.6	478.8	1.6	0	1686.3	556.4	0.8	0	7
8	1646.8	1059	1.2	0	1669.8	314.2	6.6	7.8	1681.8	481.9	1.6	0	1686.4	558.1	0.8	0	8
9	1647.2	1083	1.2	0	1669.6	311.8	5.2	6.4	1682.0	485.1	1.6	0	1686.5	559.8	0.7	0	9
10	1647.6	1108	1.2	0	1670.0	316.6	5.2	2.8	1682.2	488.3	1.5	0	1686.6	561.5	0.8	0	10
11	1647.9	1127	1.0	0	1670.8	326.4	5.0	0	1682.4	491.5	1.4	0	1686.7	563.2	0.7	0	11
12	1648.1	1140	0.7	0	1671.6	336.4	5.8	0	1682.5	493.2	1.3	0	1686.8	565.0	0.7	0	12
13	1648.3	1153	0.6	0	1672.4	346.5	5.1	0	1682.7	496.4	1.3	0	1686.9	566.7	0.7	0	13
14	1648.6	1173	1.0	0	1673.2	356.8	5.2	0	1682.9	499.6	1.3	0	1686.9	566.7	0.7	0	14
15	1648.9	1192	1.0	0	1673.9	366.1	4.7	0	1683.0	501.2	1.2	0	1687.0	568.4	0.7	0	15
16	1649.2	1213	1.0	0	1674.6	374.2	4.1	0	1683.2	504.5	1.2	0	1687.0	568.4	0.7	0	16
17	1649.4	1226	0.7	0	1675.0	380.9	3.3	0	1683.4	507.8	1.2	0	1687.1	570.1	0.7	0	17
18	1649.6	1240	0.7	0	1675.5	387.8	3.5	0	1683.5	509.4	1.1	0	1687.2	571.9	0.7	0	18
19	1649.8	1253	0.6	0	1676.0	394.7	3.5	0	1683.6	511.0	1.1	0	1687.3	573.6	0.7	0	19
20	1650.7	1317	3.3	0	1676.5	401.8	3.6	0	1683.7	512.7	1.2	0	1687.4	575.4	0.7	0	20
21	1654.7	1627	15.6	0	1676.9	407.5	2.9	0	1683.9	516.0	1.2	0	1687.4	575.4	0.7	0	21
22	1673.3	3582	108.7	10.1	1677.3	413.3	2.9	0	1684.1	519.3	1.2	0	1687.5	577.2	0.7	0	22
23	1674.3	3714	40.1	33.5	1677.7	419.1	2.9	0	1684.2	520.9	1.1	0	1687.6	578.9	0.7	0	23
24	1672.8	3516	19.2	29.2	1678.0	423.5	2.2	0	1684.3	522.6	1.1	0	1687.7	580.6	0.7	0	24
25	1672.5	3491	10.1	11.5	1678.3	428.0	2.3	0	1684.4	524.2	1.1	0	1687.8	582.4	0.7	0	25
26	1672.2	3440	8.0	10.6	1678.7	434.0	3.0	0	1684.5	525.9	1.0	0	1687.9	584.2	0.6	0	26
27	1671.7	3376	7.0	10.2	1679.0	439.5	2.3	0	1684.9	532.5	3.3	0	1688.0	585.9	0.6	0	27
28	1671.2	3313	6.3	9.8	1679.3	443.1	2.3	0	1685.1	535.9	2.0	0	1688.1	587.7	0.6	0	28
29	1670.5	3227	5.2	9.5	1679.5	446.1	1.5	0	1685.3	539.3	1.7	0	1688.1	587.7	0.6	0	29
30					1679.8	450.7	2.3	0	1685.5	542.7	1.5	0	1688.1	587.7	0.6	0	30
31					1680.0	453.7	1.5	0					1688.2	589.5	0.6	0	31
TOTAL			240.2	123.9			171.7	105.7			44.9	0			23.6	0	
Inf. Ac. Ft.			476.5				340.7				89.0				46.8	1032.0	
Outf. Ac. Ft.				245.9				209.7				0			0	455.6	
Maximum Mean Daily Inflow			108.7				18.0				3.3				1.3	108.7	
Minimum Mean Daily Inflow			0.5				1.5				1.0				0.6	0.05	
Storage Change			+ 230.6				+ 131.0				+ 89.0				+ 46.5	+ 576.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

¾ Year

Max. W. S. Elev.	1689.0	feet on 6/13-15/44	Storage 603.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1620.3	feet on 9-22-1944	Storage 12.7	Acre Feet	H. Paul Keiser	Dam Tender	Gage Hts. copied	KFS & PAH
Max. Peak Inf.	226	C.F.S. from 11:00 A.M. on 2-22-44	to 1:00 P.M. on 2-22-44		C. L. Brewster	Hydrographer	Storage applied	KFS & PAH
Max. Peak Outf.	55	C.F.S. from at 4:00 P.M. on 2-23-44	to	on		Hydrographer	Inf. & Outf. comp.	PAH 4/17/45
REMARKS	Indicates amount for period or prorated daily amounts.						Ckd.	JEG 12/11/44

BIG DALTON (CONT.)

F. C. Dist. Form 86C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In Big Dalton Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 4.5 Square Miles. Capacity of Reservoir 952.9 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of September, 1943

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	1688.2	589.5	0.7	0	1684.2	520.9	0.3	3.3
2	1688.3	591.2	1.0	0	1683.8	514.3	0.2	3.3
3	1688.5	594.8	0.5	0	1683.5	509.4	0.2	3.3
4	1688.6	596.6	0.5	0	1683.4	507.8	0.2	1.0
5	1688.7	598.4	0.4	0	1683.1	502.8	0.2	2.2
6	1688.7	598.4	0.4	0	1682.8	498.0	0.2	3.2
7	1688.7	598.4	0.4	0	1682.4	491.5	0.2	3.2
8	1688.6	596.6	0.4	0	1682.0	485.1	0.2	3.1
9	1688.7	598.4	0.5	0	1681.7	480.4	0.2	3.1
10	1688.8	600.1	0.4	0	1681.4	475.6	0.2	3.1
11	1688.9	601.9	0.4	0	1681.0	469.3	0.2	3.1
12	1688.9	601.9	0.4	0	1680.6	463.1	0.2	3.1
13	1689.0	603.7	0.4	0	1680.2	456.8	0.2	3.1
14	1689.0	603.7	0.4	0	1679.9	452.2	0.1	3.1
15	1689.0	603.7	0.4	0	1679.5	447.6	0.1	3.1
16	1688.9	601.9	0.4	2.0	1679.2	441.5	0.1	3.0
17	1688.6	596.6	0.4	2.9	1678.8	435.5	0.1	3.0
18	1688.3	591.2	0.4	3.0	1678.4	429.5	0.1	3.0
19	1688.0	585.9	0.4	3.0	1678.0	423.5	0.1	3.0
20	1687.6	578.9	0.4	3.1	1677.6	417.7	0.1	2.9
21	1687.3	573.6	0.4	3.1	1677.2	411.8	0.1	2.9
22	1687.0	568.4	0.4	3.2	1676.7	404.6	0.1	3.2
23	1686.7	563.2	0.5	3.4	1676.2	397.5	0.1	3.4
24	1686.4	558.1	0.8	3.4	1675.8	391.9	0.1	3.4
25	1686.1	552.9	0.6	3.3	1675.3	385.0	0.1	3.4
26	1685.8	547.8	0.8	3.3	1674.8	378.2	0.1	3.4
27	1685.5	542.7	0.7	3.3	1674.4	372.8	0.1	3.4
28	1685.2	537.6	0.7	3.3	1673.9	366.1	0.1	3.4
29	1684.9	532.5	0.8	3.3	1673.4	359.5	0.1	3.4
30	1684.6	527.6	0.8	3.3	1672.9	352.9	0.1	3.4
31					1672.4	346.5	0.1	3.3
TOTAL			15.7	46.9			4.5	95.8
Inf. Ac. Ft.			31.1				8.9	
Outf. Ac. Ft.				93.0				190.0
Maximum Mean Daily Inflow			1.0				0.3	
Minimum Mean Daily Inflow			0.4				0.1	
Storage Change			-61.9				-181.1	

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	Yearly Totals
1	1671.9	340.1	0.1	3.3	1649.3	121.9	0.3	3.4	
2	1671.4	333.8	0.1	3.3	1648.3	115.3	0.2	3.3	
3	1670.9	327.6	0.1	3.3	1647.4	109.6	0.2	3.3	
4	1670.4	321.5	0.1	3.3	1646.4	103.5	0.1	3.2	
5	1669.9	315.4	0.1	3.3	1645.4	97.7	0.2	3.1	
6	1669.4	309.4	0.1	3.3	1644.4	92.1	0.1	3.0	
7	1668.8	302.3	0.1	3.3	1643.3	86.2	0.1	3.0	
8	1668.2	295.3	0.1	3.3	1642.1	80.0	0.2	3.3	
9	1667.7	289.6	0.1	3.2	1640.8	73.7	0.1	3.3	
10	1667.1	282.7	0.1	3.2	1639.5	67.6	0.1	3.2	
11	1666.6	277.2	0.1	3.1	1638.1	61.5	0.1	3.1	
12	1666.0	270.5	0.1	3.3	1636.7	55.8	0.1	3.1	
13	1665.3	262.9	0.1	3.9	1635.3	50.4	0.1	3.1	
14	1664.6	255.5	0.1	4.1	1633.6	44.3	0.1	3.2	
15	1663.8	247.0	0.1	4.1	1631.8	38.3	0.1	3.0	
16	1663.0	238.8	0.1	4.1	1630.0	32.8	0.1	2.8	
17	1662.3	231.8	0.1	4.1	1628.1	27.7	0.4	2.5	
18	1661.5	223.9	0.1	4.0	1626.2	23.2	0.3	2.2	
19	1660.7	216.2	0.1	4.0	1624.4	19.5	0.3	2.2	
20	1659.9	208.6	0.1	4.1	1622.2	15.6	0.3	2.4	
21	1659.1	201.1	0.05	4.0	1620.4	12.8	0.2	1.8	
22	1658.2	192.9	0.05	4.0	1620.3	12.7	0.2	0.6	
23	1657.4	185.8	0.05	3.9	1620.5	13.0	0.2*	0	
24	1656.5	177.9	0.05	3.9	1620.7	13.2	0.1*	0	
25	1655.6	170.2	0.05	3.8	1620.9	13.5	0.1*	0	
26	1654.8	163.6	0.05	3.7	1621.1	13.8	0.2*	0	
27	1653.9	156.2	0.05	3.7	1621.3	14.1	0.1*	0	
28	1653.0	149.0	0.05	3.6	1621.4	14.3	0.1*	0	
29	1652.0	141.3	0.05	3.5	1621.6	14.6	0.2*	0	
30	1651.1	134.6	0.05	3.5	1621.8	14.9	0.1*	0	
31	1650.2	128.1	0.05	3.5					
TOTAL			2.55	112.7			5.0	62.1	
Inf. Ac. Ft.			5.10				9.9		1087.0
Outf. Ac. Ft.				223.5			123.2		1085.3
Maximum Mean Daily Inflow			0.1				0.4		108.7
Minimum Mean Daily Inflow			0.05				0.1		0.05
Storage Change			-218.4				-113.3		+ 1.8

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1689.0	feet on 6/13-15/1944	Storage 603.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	1620.3	feet on 9-22-1944	Storage 12.7	Acre Feet	H. Paul Keiser	Dam Tender	Gage Hts. copied KFS & PAH
Max. Peak Inf.	226	C.F.S. from 11:00 A.M. on 2-22-44	to 1:00 P.M.	on 2-22-44	C. L. Brewster	Hydrographer	Storage applied KFS & PAH
Max. Peak Outf.	55	C.F.S. ~~from~~ at 4:00 P.M. on 2-23-44	to	on		Hydrographer	Inf. & Outf. comp. PAH 4/17/45

REMARKS * Indicates flows from bank storage. Ckd. JEG-CLB 12-11-44
[Indicates amount for period or prorated daily amounts.

SAN DIMAS

F. C. Dist. Form 86A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Dimas Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1071.1 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of October, 1943

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	1430.1	267.5	1.6	5.6	1408.2	81.5	2.6	2.0
2	1429.3	258.8	1.2	5.6	1408.4	82.7	2.6	2.0
3	1428.5	250.3	1.2	5.5	1408.6	83.9	2.6	2.0
4	1427.7	241.9	1.3	5.5	1408.7	84.5	2.3	2.0
5	1426.9	233.7	1.2	5.4	1408.7	84.5	2.0	2.0
6	1426.0	224.7	0.9	5.4	1408.7	84.5	2.0	2.0
7	1425.2	216.9	1.0	5.4	1408.7	84.5	2.0	2.0
8	1424.4	209.1	1.8	5.3	1408.7	84.5	2.0	2.0
9	1423.7	202.5	2.0	5.3	1408.7	84.5	2.0	2.0
10	1422.9	195.0	1.5	5.3	1408.7	84.5	2.0	2.0
11	1422.2	188.4	1.9	5.2	1408.7	84.5	2.0	2.0
12	1421.4	181.0	1.5	5.2	1408.7	84.5	2.0	2.0
13	1420.5	172.8	0.9	5.1	1408.7	84.5	2.0	2.0
14	1419.5	163.9	0.6	5.1	1408.6	83.9	1.7	2.0
15	1418.6	156.1	1.1	5.0	1408.6	83.9	2.0	2.0
16	1417.6	147.7	0.8	5.0	1408.5	83.3	1.7	2.0
17	1416.6	139.5	0.7	4.9	1408.6	83.9	2.3	2.0
18	1416.4	138.0	4.2	4.9	1408.8	85.1	2.6	2.0
19	1416.0	134.8	3.3	4.9	1409.0	86.3	2.6	2.0
20	1415.2	128.6	1.7	4.9	1409.2	87.5	2.6	2.0
21	1414.5	123.4	2.2	4.8	1409.4	88.8	2.7	2.0
22	1413.7	117.6	1.9	4.8	1409.5	89.4	2.3	2.0
23	1412.9	111.9	1.8	4.7	1409.7	90.6	2.6	2.0
24	1412.1	106.4	1.9	4.7	1409.8	91.3	2.3	2.0
25	1411.2	100.3	1.6	4.6	1409.8	91.3	2.0	2.0
26	1410.2	93.8	1.5	4.6	1409.8	91.3	2.0	2.0
27	1409.3	88.2	1.5	4.5	1409.9	91.9	2.3	2.0
28	1408.5	83.3	2.0	4.5	1409.9	91.9	2.0	2.0
29	1407.6	77.9	1.7	4.4	1409.9	91.9	2.0	2.0
30	1407.6	77.9	3.1	3.1	1409.9	91.9	2.0	2.0
31	1408.0	80.3	3.2	2.0				
TOTAL			52.8	151.2			65.8	60.0
Inf. Ac. Ft.			104.7				130.6	
Outf. Ac. Ft.				299.9				119.0
Maximum Mean Daily Inflow			4.2				2.7	
Minimum Mean Daily Inflow			0.6				1.7	
Storage Change			- 195.2				+ 11.6	

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	½ Year
1	1409.9	91.9	2.0	2.0	1429.30	258.8	5.2	4.1	
2	1409.9	91.9	2.0	2.0	1429.55	261.5	5.5	4.1	
3	1409.9	91.9	2.0	2.0	1429.80	264.2	5.4	4.1	
4	1409.6	90.0	1.7	2.7	1429.95	265.8	4.9	4.1	
5	1409.3	88.2	2.1	3.0	1430.10	267.5	5.0	4.1	
6	1409.1	86.9	2.4	3.0	1430.50	272.1	6.4	4.1	
7	1408.8	85.1	2.1	3.0	1430.40	271.0	5.4	5.9	
8	1408.6	83.9	2.4	3.0	1430.00	266.4	4.6	7.0	
9	1408.4	82.7	2.4	3.0	1429.60	262.0	4.8	7.0	
10	1411.6	103.0	11.4	1.2	1429.10	256.6	4.3	7.0	
11	1419.1	160.4	28.9	0	1428.70	252.4	4.8	6.9	
12	1421.0	177.3	8.6	0	1428.30	248.2	4.8	6.9	
13	1422.1	187.4	5.0	0	1427.80	242.9	4.2	6.9	
14	1423.0	195.9	4.3	0	1427.40	238.8	4.8	6.9	
15	1423.8	203.4	3.8	0	1427.10	235.7	4.4	5.9	
16	1424.5	210.1	3.4	0	1427.00	234.7	4.5	5.0	
17	1424.9	213.9	4.1	2.2	1426.80	232.7	4.0	5.0	
18	1425.3	217.8	5.5	3.5	1426.70	231.7	4.4	5.0	
19	1426.7	231.7	10.5	3.5	1426.50	229.7	4.0	5.0	
20	1427.8	242.9	13.3	7.7	1426.30	227.7	3.9	4.9	
21	1429.0	255.5	21.2	14.8	1426.10	225.7	3.9	4.9	
22	1428.0	245.0	9.5	14.8	1425.90	223.7	3.9	4.9	
23	1427.2	236.8	7.2	11.3	1426.00	224.7	5.1	4.6	
24	1427.1	235.7	5.4	6.0	1426.30	227.7	5.5	4.0	
25	1427.3	237.8	5.1	4.0	1426.30	227.7	4.0	4.0	
26	1427.5	239.9	5.0	4.0	1426.20	226.7	3.5	4.0	
27	1427.6	240.9	4.5	4.0	1426.20	226.7	4.0	4.0	
28	1427.7	241.9	4.5	4.0	1426.10	225.7	3.5	4.0	
29	1428.1	246.1	6.1	4.0	1426.00	224.7	3.5	4.0	
30	1428.6	251.3	6.7	4.0	1425.90	223.7	3.5	4.0	
31	1429.1	256.6	6.7	4.1	1425.80	222.7	3.5	4.0	
TOTAL			199.8	116.8			139.2	156.3	
Inf. Ac. Ft.			396.3				276.1		907.7
Outf. Ac. Ft.				231.6			310.0		960.5
Maximum Mean Daily Inflow			28.9				6.4		28.9
Minimum Mean Daily Inflow			1.7				3.5		0.6
Storage Change			+ 164.7				- 33.9		- 52.8

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1462.0	feet on Various Days	Storage 1042.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	1407.6	feet on 10-29-30-43	Storage 77.9	Acre Feet	G. W. Rodgers	Dam Tender	Gage Hts. copied PAH 3/1945
Max. Peak Inf.	785	C.F.S. from 1:00 PM on 2-22-44	to 1:15 P.M.	on 2-22-44	C. L. Brewster	Hydrographer	Storage applied PAH & CEB
Max. Peak Outf.	555	C.F.S. from 6:00 P.M. on 2-22-44	to 8:00 P.M.	on 2-22-44	H. A. van der Goot	Hydrographer	Inf. & Outf. comp. PAH & CEB

REMARKS [Indicates total for period or prorated daily amounts. May 15, 1945
Overflows based on valve operation records - outflow measurements and U. S. G. S. recorder station records below San Dimas Dam.

SAN DIMAS (CONT.)

F. C. Dist. Form 44B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Dimas Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1071.1 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of October, 1943. * 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	1425.8	222.7	4.0	4.0	1430.7	252.9	30.2	29.5	1443.4	473.7	9.5	0	1457.7	891.9	8.5	0	1
2	1425.7	221.8	3.5	4.0	1432.6	277.7	56.5	44.0	1444.2	493.0	9.7	0	1458.1	905.4	6.8	0	2
3	1425.8	222.7	4.5	4.0	1429.8	241.7	40.2	58.4	1445.0	512.9	10.0	0	1458.5	919.1	6.9	0	3
4	1426.9	233.7	9.5	4.0	1429.4	236.9	36.2	38.6	1445.7	530.9	9.1	0	1458.9	932.8	6.9	0	4
5	1427.1	235.7	5.1	4.0	1429.8	241.7	31.6	29.2	1446.4	549.2	9.2	0	1459.2	943.2	5.3	0	5
6	1427.2	236.8	4.5	4.0	1431.3	260.5	29.6	20.1	1447.1	567.9	9.5	0	1459.6	957.1	7.0	0	6
7	1427.3	237.8	4.5	4.0	1435.3	316.8	28.4	0	1447.7	584.3	8.2	0	1459.9	967.5	5.2	0	7
8	1428.0	245.0	7.7	4.1	1438.2	364.9	24.2	0	1448.4	603.7	9.8	0	1460.2	978.1	5.4	0	8
9	1428.4	249.2	7.5	5.3	1439.3	385.3	21.0	10.7	1449.0	620.6	8.5	0	1460.5	988.8	6.0	0.6	9
10	1428.5	250.3	6.5	6.0	1439.1	381.4	20.4	22.4	1449.6	637.9	8.8	0	1460.8	994.0	4.2	1.6	10
11	1428.5	250.3	6.0	6.0	1432.9	281.8	20.1	70.3	1450.2	655.3	8.7	0	1460.9	1003.0	7.7	3.2	11
12	1428.4	249.2	5.5	6.0	1421.4	151.8	17.3	E 82.8	1450.8	673.0	9.0	0	1461.0	1006.5	6.5	4.7	12
13	1428.2	247.1	4.9	6.0	1411.7	82.2	26.3	61.4	1451.3	687.9	8.8	1.3	1461.2	1013.7	6.4	2.8	13
14	1428.0	245.0	4.9	6.0	1413.0	89.6	21.8	18.1	1451.8	703.0	9.6	2.0	1461.3	1017.3	4.9	3.1	14
15	1428.1	246.1	6.6	6.0	1412.7	87.9	19.8	20.6	1452.2	715.1	8.8	2.7	1461.5	1024.5	7.4	3.7	15
16	1428.0	245.0	5.4	6.0	1411.7	82.2	17.5	20.4	1452.6	727.4	9.2	3.0	1461.6	1028.1	5.7	3.9	16
17	1427.9	244.0	5.5	6.0	1415.0	101.9	17.1	7.2	1452.9	736.6	8.2	3.6	1461.7	1031.7	6.4	4.6	17
18	1427.7	241.9	5.0	6.0	1419.3	133.4	15.9	0	1453.1	742.8	7.2	4.0	1461.7	1031.7	5.0	5.0	18
19	1427.5	239.9	5.0	6.0	1422.7	164.1	15.5	0	1453.3	749.1	7.1	4.0	1461.8	1035.3	6.8	5.0	19
20	1429.4	259.9	19.8	9.7	1425.6	193.9	15.0	0	1453.6	758.4	8.7	4.0	1461.8	1035.3	5.0	5.0	20
21	1436.0	347.9	65.9	21.6	1428.1	221.6	14.0	0	1453.8	764.7	7.2	4.0	1461.9	1038.9	6.8	5.0	21
22	1445.7	530.9*	398.3	292.2	1430.4	249.1	13.8	0	1453.9	767.8	5.6	4.0	1461.9	1038.9	5.0	5.0	22
23	1435.3	316.8	100.5	208.4	1432.4	275.0	13.1	0	1454.1	774.1	7.1	4.0	1462.0	1042.5	6.8	5.0	23
24	1435.9	326.1	46.7	42.1	1434.3	301.7	13.5	0	1454.3	780.5	7.3	4.0	1462.0	1042.5	5.2	5.2	24
25	1436.0	327.6	31.8	31.0	1435.9	326.1	12.3	0	1454.5	786.9	7.2	4.0	1462.0	1042.5	5.5	5.5	25
26	1435.6	321.4	27.9	31.0	1437.4	350.9	12.5	0	1454.7	793.2	6.4	3.2	1462.0	1042.5	5.5	5.5	26
27	1434.3	301.7	20.8	30.8	1438.7	374.0	11.6	0	1455.6	822.3	15.4	0.8	1462.0	1042.5	5.5	5.5	27
28	1432.6	277.7	18.1	30.2	1439.8	395.0	10.6	0	1456.3	845.2	11.6	0	1461.9	1038.9	3.7	5.5	28
29	1430.6	251.6	16.7	29.8	1440.8	415.3	10.2	0	1456.8	861.7	8.3	0	1461.9	1038.9	5.5	5.5	29
30					1441.7	434.7	9.8	0	1457.2	875.0	6.7	0	1461.9	1038.9	5.5	5.5	30
31					1442.6	454.9	10.2	0					1461.9	1038.9	5.5	5.5	31
TOTAL			852.6	824.2			636.2	533.7			260.4	48.6			184.5	101.9	
Inf. Ac. Ft.			1691.1				1261.9				516.5				366.0	4743.2	
Outf. Ac. Ft.			1634.7				1058.6				96.4				202.1	3952.3	
Maximum Mean Daily Inflow			398.3				56.5				15.4				8.5	398.3	
Minimum Mean Daily Inflow			3.5				9.8				5.6				3.7	0.6	
Storage Change			+ 56.4*				+ 203.3				+ 420.1				+ 163.9	+ 763.4*	
																½ Year	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1462.0	feet on Various Days	Storage 1042.5	Acre Feet		
Min. W. S. Elev.	1407.6	feet on 10-29,30-43	Storage 77.9	Acre Feet		
Max. Peak Inf.	785	C.F.S. from 1:00 P.M. on 2-22-44	to 1:15 P.M. on 2-22-44			
Max. Peak Outf.	555	C.F.S. from 6:00 P.M. on 2-22-44	to 8:00 P.M. on 2-22-44			

RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
G. W. Rodgers	Dam Tender	Gage Hts. copied	KFS & PAH
C. L. Brewster	Hydrographer	Storage applied	KFS & PAH
H. A. van der Goot	Hydrographer	Inf. & Outf. comp.	KFS & PAH
			March 1945

REMARKS * Storage corrected for 27.5 A. F. debris loss beginning February 22, 1944.
E Indicates estimated.

F. C. Dist. Form 44C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In San Dimas Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1042.5 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of November, 1944. 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	1461.9	1038.9	5.5	5.5	1459.9	967.5	4.1	5.9	1453.7	761.5	2.5	5.7	1442.2	445.8	1.6	6.6	1
2	1462.0	1042.5	7.3	5.5	1459.7	960.6	2.5	5.9	1453.4	752.2	1.0	5.7	1441.7	434.7	1.6	6.6	2
3	1462.0	1042.5	5.5	5.5	1459.6	957.1	4.1	5.9	1453.2	745.9	2.6	5.7	1441.3	425.9	1.6	6.6	3
4	1462.0	1042.5	5.5	5.5	1459.4	950.1	2.4	5.9	1452.9	736.6	1.0	5.7	1440.9	417.4	1.6	6.6	4
5	1461.9	1038.9	3.7	5.5	1459.2	943.2	2.4	5.9	1452.6	727.4	1.0	5.7	1440.4	407.1	1.6	6.5	5
6	1461.9	1038.9	5.5	5.5	1459.0	936.2	2.4	5.9	1452.4	721.3	2.6	5.6	1439.9	397.0	1.5	6.5	6
7	1461.8	1035.3	3.7	5.5	1458.8	929.4	2.4	5.9	1452.1	712.1	0.9	5.6	1439.4	387.3	1.4	6.5	7
8	1461.8	1035.3	5.5	5.5	1458.7	925.9	4.2	5.9	1451.8	703.0	1.0	5.6	1438.8	375.9	1.4	6.5	8
9	1461.8	1035.3	5.5	5.5	1458.5	919.1	2.4	5.9	1451.5	694.0	1.1	5.6	1438.3	366.8	1.4	6.4	9
10	1461.8	1035.3	5.5	5.5	1458.3	912.3	2.5	5.9	1451.1	681.9	0.7	5.6	1437.7	356.1	1.4	6.4	10
11	1461.8	1035.3	5.5	5.5	1458.2	908.8	4.1	5.9	1450.8	673.0	0.7	6.5	1437.1	345.7	1.5	6.4	11
12	1461.8	1035.3	5.8	5.8	1458.0	902.0	2.5	5.9	1450.4	661.2	1.1	7.0	1436.5	335.8	1.5	6.4	12
13	1461.7	1031.7	4.2	6.0	1457.8	895.3	2.5	5.9	1450.0	649.4	1.0	7.0	1435.9	326.1	1.5	6.3	13
14	1461.7	1031.7	6.0	6.0	1457.6	888.5	2.5	5.9	1449.6	637.9	1.1	6.9	1435.3	316.8	1.5	6.3	14
15	1461.6	1028.1	4.2	6.0	1457.5	885.2	4.2	5.9	1449.2	626.4	1.1	6.9	1434.7	307.6	1.5	6.3	15
16	1461.5	1024.5	4.1	6.0	1457.3	878.4	2.5	5.9	1448.9	617.8	2.6	6.9	1434.0	297.2	1.5	6.2	16
17	1461.4	1020.9	4.2	6.0	1457.1	871.7	2.5	5.9	1448.5	606.6	1.2	6.9	1433.4	288.7	1.5	6.2	17
18	1461.3	1017.3	4.2	6.0	1456.9	865.0	2.5	5.8	1448.1	595.3	1.2	6.9	1432.8	280.4	1.5	6.2	18
19	1461.2	1013.7	4.2	6.0	1456.6	855.1	0.8	5.8	1447.8	587.0	2.7	6.9	1432.2	272.3	1.5	6.1	19
20	1461.1	1010.1	4.2	6.0	1456.4	848.5	2.4	5.8	1447.4	576.1	1.4	6.8	1431.5	263.1	1.5	6.1	20
21	1461.0	1006.5	4.2	6.0	1456.2	841.9	2.5	5.8	1447.0	565.2	1.3	6.8	1430.8	254.1	1.5	6.1	21
22	1460.9	1003.0	4.2	6.0	1455.9	832.1	0.9	5.8	1446.5	551.9	0.1	6.8	1430.0	244.1	1.4	6.0	22
23	1460.8	999.4	4.2	6.0	1455.7	825.6	2.5	5.8	1446.1	541.3	1.4	6.8	1429.2	234.5	1.4	6.0	23
24	1460.7	995.9	4.2	6.0	1455.5	819.1	2.5	5.8	1445.7	530.9	1.6	6.8	1428.4	225.1	1.4	6.0	24
25	1460.6	992.3	4.2	6.0	1455.3	812.6	2.5	5.8	1445.3	520.6	1.6	6.8	1427.6	215.9	1.4	5.9	25
26	1460.5	988.8	4.2	6.0	1455.1	806.1	2.6	5.8	1444.9	510.4	1.5	6.7	1426.8	206.9	1.4	5.9	26
27	1460.4	985.2	4.2	6.0	1454.8	796.4	0.9	5.8	1444.4	498.0	0.5	6.7	1426.0	198.2	1.4	5.8	27
28	1460.3	981.7	4.3	6.0	1454.6	790.0	2.5	5.8	1444.0	488.0	1.6	6.7	1425.2	189.6	1.5	5.8	28
29	1460.2	978.1	4.1	6.0	1454.4	783.7	2.7	5.8	1443.5	476.1	0.7	6.7	1424.4	181.3	1.5	5.7	29
30	1460.0	971.0	2.5	6.0	1454.1	774.1	0.8	5.7	1443.0	464.1	0.7	6.7	1423.6	173.1	1.5	5.7	30
31					1453.9	767.8	2.6	5.7	1442.6	454.9	2.0	6.7					31
TOTAL			140.1	174.3			78.9	181.3			41.5	199.4			44.5	186.6	
Inf. Ac. Ft.			277.9				156.4				82.3				88.3	5348.1	
Outf. Ac. Ft.			345.8				359.6				395.5				370.1	5423.3	
Maximum Mean Daily Inflow			7.3				4.2				2.7					398.3	
Minimum Mean Daily Inflow			2.5				0.8				0.1					0.1	
Storage Change			- 67.9				- 203.2				- 312.9				- 281.8	-[illegible]49*	
																Yearly Totals	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1462.0	feet on Various Days	Storage 1042.5	Acre Feet		
Min. W. S. Elev.	1407.6	feet on 10-29,30-43	Storage 77.9	Acre Feet		
Max. Peak Inf.	785	C.F.S. from 1:00 P.M. on 2-22-44	to 1:15 P.M. on 2-22-44			
Max. Peak Outf.	555	C.F.S. from 6:00 P.M. on 2-22-44	to 8:00 P.M. on 2-22-44			

RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
G. W. Rodgers	Dam Tender	Gage Hts. copied	KFS & PAH
C. L. Brewster	Hydrographer	Storage applied	KFS & PAH
H. A. Vander Goot	Hydrographer	Inf. & Outf. comp.	KFS & PAH
			March 1945

REMARKS * Storage corrected for 27.5 A. F. debris loss beginning February 1944.
[Indicates total for period or prorated daily amounts.

PUDDINGSTONE DIVERSION

F. C. Dist. Form 68A Revised 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

On San Dimas Creek for the Year Ending September 30, 19 44

Continuous Water Stage Recorder Au

Drainage Area 2.6 Square Miles. Capacity of Reservoir 101.1 Ac. Ft. at Spillway Elev. 1152.5 Ft. as of October, 1942. Gage Heights Read Various Times

Day	OCTOBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	NOVEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	DECEMBER Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	JANUARY Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1													1137.9	7.0	1.0	0	1
2													1138.2	8.1	1.3	0	2
3													1138.4	8.8	1.2	0	3
4													1138.4	8.8	0.8	0	4
5													1138.5	9.2	1.0	0	5
6													1139.0	11.1	1.8	0	6
7													1139.8	14.6	2.9	0	7
8													1141.2	21.3	4.9	0	8
9													1142.2	26.3	4.2	0	9
10	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	Reservoir Dry	No Storage	No Flow	No Flow	1142.3	26.8	3.0	1.1	10
11													1142.2	26.3	3.2	1.7	11
12													1142.1	25.8	3.0	1.6	12
13													1142.1	25.8	3.3	1.6	13
14													1142.2	26.3	3.5	1.5	14
15													1141.9	24.8	2.2	1.4	15
16													1141.4	22.3	1.7	1.4	16
17													1141.0	20.3	1.7	1.3	17
18													1140.7	18.9	1.8	1.2	18
19													1140.4	17.4	1.6	1.2	19
20									1133±	0			1140.2	16.5	1.8	1.1	20
21									1141.3	21.8	14.5	1.2	1140.1	16.0	2.0	1.1	21
22									1142.1	25.8	11.2	6.2	1140.0	15.5	1.9	1.1	22
23									1141.7	23.8	8.3	6.3	1140.0	15.5	2.2	1.1	23
24									1139.1	11.5	2.4	5.7	1140.3	16.9	3.0	1.1	24
25									1139.0	11.1	2.4	0	1140.4	17.4	2.6	1.1	25
26									1138.9	10.7	2.1	0	1140.6	18.4	2.9	1.1	26
27									1138.8	10.3	2.1	0	1140.8	19.3	2.9	1.1	27
28									1138.6	9.6	1.8	0	1140.8	19.3	2.4	1.1	28
29									1137.8	6.8	0.6	0	1140.8	19.3	2.4	1.1	29
30									1137.3	5.3	0.6	0	1140.9	19.8	2.7	1.1	30
31									1137.7	6.5	1.3	0	1140.9	19.8	2.5	1.1	31
TOTAL			0	0			0	0			47.3	19.4			73.4	27.2	
Inf. Ac. Ft.			0				0				93.8				145.6	239.4	
Outf. Ac. Ft.				0				0			38.5+(48.8)				(78.3)+ 54.0	92.5+(127.1)	
Maximum Mean Daily Inflow			0				0				14.5				4.9	14.5	
Minimum Mean Daily Inflow			0				0				0.6				0.8	0.6	
Storage Change		0				0					+ 6.5				+ 13.3	+ 19.8	
																½ Year	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1147.85	feet	on	2-22-44	Storage	60.0	Acre Feet	
Min. W. S. Elev.	1126 ±	feet	on	Aug.-Sept. 44	Storage	0	Acre Feet	
Max. Peak Inf.	724	C.F.S. from	5:00 P. M.	on 2-22-44	to	5:30 P.M.	on	2-22-44
Max. Peak Outf.	724	C.F.S. from	5:00 P. M.	on 2-22-44	to	5:30 P.M.	on	2-22-44

RECORDS COLLECTED BY		COMPUTATIONS	ckd.
H. A. van der Goot	Dam Tender	Gage Hts. copied	KFS-PAH
C. L. Brewster	Hydrographer	Storage applied	KFS-PAH
	Hydrographer	Inf. & Outf. comp.	KFS-PAH

REMARKS () Indicates monthly total percolation and other losses.

Ckd. JEG 12/10/45
" PAH 3/1945

F. C. Dist. Form 68B Revised 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

On San Dimas Creek for the Year Ending September 30, 19 44

Continuous Water Stage Recorder Au

Drainage Area 2.6 Square Miles. Capacity of Reservoir 101.1 Ac. Ft. at Spillway Elev. 1152.5 Ft. as of October, 1942. Gage Heights Read 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	1141.0	20.3	2.8	1.1	1145.7	45.1	35.9	32.6	1139.1	11.5	0.5	0					1
2	1141.1	20.8	2.7	1.1	1145.9	46.3	53.3	49.7	1138.8	10.3	0.4	0					2
3	1141.4	22.3	3.4	1.1	1145.9	46.3	69.8	66.8	1138.6	9.6	0.3	0					3
4	1141.5	22.8	2.8	1.1	1145.6	44.5	47.3	45.3	1138.3	8.5	0.2	0					4
5	1141.2	21.3	1.9	1.1	1145.6	44.5	36.6	33.7	1138.0	7.3	0.1	0					5
6	1141.1	20.8	2.2	1.1	1144.3	37.2	24.7	26.0	1137.8	6.8	0.1	0					6
7	1141.0	20.3	2.3	1.1	1144.4	37.7	2.8	0	1137.5	5.9	0.1	0					7
8	1141.4	22.3	3.6	1.1	1144.2	36.6	1.8	0	1137.2	5.0	0	0					8
9	1141.8	24.3	3.7	1.1	1145.6	44.5	13.5	6.6	1136.9	4.3	0	0					9
10	1142.4	27.3	4.4	1.1	1145.6	44.5	23.6	20.7	1136.6	3.7	0	0					10
11	1142.9	29.8	4.2	1.1	1146.1	47.6	69.4	64.8	1136.4	3.3	0	0					11
12	1143.3	31.9	4.3	1.1	1146.1	47.6	86.8	83.8	1136.2	3.0	0	0					12
13	1143.6	33.4	4.1	1.1	1145.6	44.5	69.5	68.2	1135.9	2.5	0	0					13
14	1143.8	34.5	4.0	1.1	1145.6	44.5	21.5	18.6	1135.7	2.3	0	0	Small Pool	Storage Negligible	No Flow	No Flow	14
15	1144.2	36.6	4.0	1.1	1145.6	44.5	21.5	18.6	1135.5	2.1	0	0					15
16	1144.0	35.5	3.3	1.1	1145.6	44.5	21.4	18.5	1135.2	1.8	0	0					16
17	1143.9	35.0	3.2	1.1	1141.1	20.8	4.3	14.8	1135.0	1.6	0	0					17
18	1143.6	33.4	2.5	1.1	1139.9	15.1	2.1	3.6		1.3	0	0					18
19	1143.3	31.9	2.4	1.1	1140.3	16.9	1.9	0		1.1	0	0					19
20	1144.9	40.5	11.6	4.6	1140.5	17.9	1.7	0		0.9	0	0					20
21	1145.8	45.7	32.9	27.2	1140.6	18.4	1.5	0		0.8	0	0					21
22	1147.8	59.6	356.8	346.8	1140.6	18.4	1.3	0		0.6	0	0					22
23	1145.9	46.3	279.3	283.0	1140.5	17.9	1.2	0		0.5	0	0					23
24	1145.7	45.1	55.6	53.3	1140.5	17.9	1.1	0		0.4	0	0					24
25	1145.6	44.5	37.3	34.7	1140.4	17.4	1.0	0	Small Pool	0.3	0	0					25
26	1145.6	44.5	36.6	33.7	1140.2	16.5	0.9	0		0.3	0	0					26
27	1145.6	44.5	35.5	32.6	1140.0	15.5	0.8	0		0.2	0	0					27
28	1145.6	44.5	34.5	31.6	1139.9	15.1	0.7	0		0.2	0	0					28
29	1145.6	44.5	33.4	30.5	1139.7	14.2	0.6	0		0.1	0	0					29
30					1139.5	13.3	0.6	0		0.1	0	0					30
31					1139.3	12.4	0.5	0					1133±	0			31
TOTAL			975.3	898.9			619.6	572.3			1.7	0			0	0	
Inf. Ac. Ft.			1934.4				1229.0				3.4				0	3406.2	
Outf. Ac. Ft.			1782.9+(126.8)				1135.1+(126.0)				0 + (15.7)				0	(35.6)+3010.5	
Maximum Mean Daily Inflow			356.8				86.8				0.5				0	356.8	
Minimum Mean Daily Inflow			1.9				0.5				0				0	0	
Storage Change			+ 24.7			-32.1				-12.3				+ 0.1		0	
																½ Year	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1147.85	feet	on	2-22-44	Storage	60.0	Acre Feet	
Min. W. S. Elev.	1126 ±	feet	on	Various Days	Storage	0	Acre Feet	
Max. Peak Inf.	724	C.F.S. from	5:00 P.M.	on 2-22-44	to	5:30 P. M.	on	2-22-44
Max. Peak Outf.	724	C.F.S. from	5:00 P.M.	on 2-22-44	to	5:30 P. M.	on	2-22-44

RECORDS COLLECTED BY		COMPUTATIONS	ckd.
H. A. van der Goot	Dam Tender	Gage Hts. copied	KFS & PAH
C. L. Brewster	Hydrographer	Storage applied	KFS & PAH
	Hydrographer	Inf. & Outf. comp.	KFS & PAH

REMARKS () Indicates monthly total percolation and other losses.
[Indicates total for period or prorated daily amounts.

Ckd. PAH 3/1945
" JEG 1/10/45

PUDDINGSTONE DIVERSION (CONT.)

F. C. Dist. Form 86C Revised 866 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam
In / On San Dimas Creek for the Year Ending September 30, 19 44
Continuous Water Stage Recorder: Au
Drainage Area 2.6 Square Miles. Capacity of Reservoir 111.7 Ac. Ft. at Spillway Elev. 1152.5 Ft. as of September 19 44 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	1133±												1126±				1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13	Reservoir Dry				Reservoir Dry				Reservoir Dry				Reservoir Dry				13
14		No Storage				No Storage				No Storage				No Storage			14
15			No Flow	No Flow			No Flow	No Flow			No Flow	No Flow			No Flow	No Flow	15
16																	16
17																	17
18																	18
19																	19
20																	20
21																	21
22																	22
23																	23
24																	24
25																	25
26																	26
27																	27
28																	28
29																	29
30													1126±				30
31									1126 ±								31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	3406.2	
Outf. Ac. Ft.				0				0				0				3050 + (395.0)	
Maximum Mean Daily Inflow			0				0				0				0	356.8	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	1147.85	feet	on 2-22-44	Storage 60.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1126 ±	feet	on Aug.-Sept.-44	Storage 0	Acre Feet	H. A. van der Goot	Dam Tender	Gage Hts. copied	KFS	
Max. Peak Inf.	724	C.F.S. from 5:00 P.M.	on 2-22-44	to 5:30 P.M.	on 2-22-44	O. L. Brewster	Hydrographer	Storage applied	KFS	
Max. Peak Outf.	724	C.F.S. from 5:00 P.M.	on 2-22-44	to 5:30 P.M.	on 2-22-44		Hydrographer	Inf. & Outf. comp.	KFS	
REMARKS	Reservoir excavated during June, July & August 1944.							Ckd.	FAH 3/1945.	

PUDDINGSTONE

F. C. Dist. Form 86A Revised 866 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam
In / On Puddingstone Creek for the Year Ending September 30, 1944
Continuous Water Stage Recorder: Au
Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January 19 41 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	946.50	8306.0	0	7.4	944.55	7755.6	0	7.3	942.40	7177.7	0	8.9	942.50	7203.9	0	0	1
2	946.40	8277.1	0	7.4	944.50	7741.8	0	7.3	942.30	7151.4	0	8.9	942.50	7203.9	2.2	0	2
3	946.35	8262.7	0	7.4	944.45	7728.0	0	7.3	942.25	7138.3	0	8.9	942.55	7217.0	2.2	0	3
4	946.30	8248.3	0	7.4	944.35	7700.4	0	8.4	942.15	7112.0	0	8.8	942.50	7203.9	2.1	0	4
5	946.25	8233.8	0	7.4	944.30	7686.7	0	9.0	942.10	7098.9	0.7	8.8	942.50	7203.9	0	0	5
6	946.15	8205.0	0	7.4	944.20	7659.1	0	9.0	942.05	7085.8	2.4	8.8	942.60	7230.1	10.0	0	6
7	946.10	8190.6	0	7.4	944.15	7645.4	0	9.0	941.95	7059.9	0	8.8	942.55	7217.0	3.5	0	7
8	946.05	8176.2	0	7.4	944.05	7617.8	0	9.0	941.90	7047.1	0	8.8	942.55	7217.0	0	0	8
9	946.00	8161.7	0	7.4	944.00	7604.0	0	9.0	941.80	7021.5	0	8.8	942.55	7217.0	0	0	9
10	945.90	8133.5	0	7.4	943.90	7577.1	0	9.0	941.95	7059.9	31.8	8.8	942.55	7217.0	0	0	10
11	945.85	8119.4	0	7.4	943.85	7563.6	0	9.0	942.15	7112.0	32.7	5.1	942.55	7217.0	0	0	11
12	945.80	8105.3	0	7.4	943.75	7536.8	0	9.0	942.15	7112.0	3.2	0	942.50	7203.9	0	0	12
13	945.75	8091.2	0	7.4	943.70	7523.3	0	9.0	942.15	7112.0	0.6	0	942.50	7203.9	0	0	13
14	945.65	8062.9	0	7.4	943.60	7496.4	0	8.9	942.15	7112.0	0	0	942.50	7203.9	0	0	14
15	945.60	8048.8	0	7.4	943.55	7483.0	0	8.9	942.15	7112.0	0	0	942.50	7203.9	0	0	15
16	945.55	8034.7	0	7.3	943.45	7456.1	0	8.9	942.10	7098.9	0	0	942.45	7190.8	0	0	16
17	945.50	8020.6	0	7.3	943.40	7442.7	0.7	8.9	942.10	7098.9	1.5	0	942.45	7190.8	0	0	17
18	945.45	8006.5	4.4	7.3	943.35	7429.2	0.5	8.9	942.15	7112.0	6.7	0	942.45	7190.8	0	0	18
19	945.40	7992.4	0	7.3	943.25	7402.4	0.3	8.9	942.30	7151.4	17.3	0	942.45	7190.8	0	0	19
20	945.30	7964.2	0	7.3	943.20	7388.9	0	8.9	942.40	7177.7	16.0	0	942.45	7190.8	0	0	20
21	945.25	7950.0	0	7.3	943.15	7375.4	0.1	8.9	942.45	7190.8	6.7	0	942.40	7177.7	0	0	21
22	945.20	7935.9	0	7.3	943.05	7348.6	0	8.9	942.40	7177.7	0	0	942.40	7177.7	0	0	22
23	945.15	7921.8	0	7.3	943.00	7335.1	0	8.9	942.40	7177.7	0	0	942.40	7177.7	1.1	0	23
24	945.05	7893.6	0	7.3	942.90	7308.9	0	8.9	942.40	7177.7	0	0	942.40	7177.7	1.2	0	24
25	945.00	7879.5	0	7.3	942.80	7282.6	0	8.9	942.40	7177.7	0	0	942.40	7177.7	0	0	25
26	944.95	7865.8	0	7.3	942.75	7269.5	0	8.9	942.40	7177.7	0	0	942.40	7177.7	0.3	0	26
27	944.85	7838.2	0.1	7.3	942.65	7243.2	0	8.9	942.35	7164.6	0	0	942.40	7177.7	0.4	0	27
28	944.80	7824.4	0	7.3	942.60	7230.1	0	8.9	942.40	7177.7	1.9	0	942.40	7177.7	0	0	28
29	944.75	7810.6	0.5	7.3	942.55	7217.0	0	8.9	942.45	7190.8	7.3	0	942.35	7164.6	0	0	29
30	944.70	7796.9	0	7.3	942.45	7190.8	0	8.9	942.50	7203.9	9.8	0	942.35	7164.6	0.4	0	30
31	944.65	7783.1	0	7.3					942.50	7203.9	3.2	0	942.35	7164.6	0.6	0	31
TOTAL			5.0	227.8			1.6	262.6			141.8	93.4			24.0	0	
Inf. Ac. Ft.			9.9				3.1				281.3				47.6	341.9	
Outf. Ac. Ft.			451.8+(95.4)				520.8+(74.6)				185.3+(82.9)				(86.9)+0(33.8)+	1157.9	
Maximum Mean Daily Inflow			4.4				0.7				32.7				10.0	32.7	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		- 537.3				- 592.3			+ 131.1					- 59.3		- 1155.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	951.10	feet	on 3/14-19/44	Storage 9700.2	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	941.80	feet	on 12-9-44	Storage 7021.5	Acre Feet	F. A. Pollard	Dam Tender	Gage Hts. copied	KFS & FAH	
Max. Peak Inf.	1030	C.F.S. from 4:00 P.M.	on 2-22-44	to 6:00 P.M.	on 2-22-44	O. L. Brewster	Hydrographer	Storage applied	KFS & FAH	
Max. Peak Outf.	49	C.F.S. from 12:30 P.M.	on 3-2-44	to 12:00 P.M.	on 3-5-44		Hydrographer	Inf. & Outf. comp.	KFS & FAH	
REMARKS	[Indicates total for period or prorated daily amounts.							Ckd.	JKG 12/27/44	
	() Indicates total loss due to evaporation, percolation and undetermined losses.									

PUDDINGSTONE (CONT.)

F. C. Dist. Form 58B Revised 5-44 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 1941. 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	942.35	7164.6	1.0	0	949.95	9338.2	32.6	0	950.90	9636.6	0	0	950.30	9447.9	0	5.0	1
2	942.35	7164.6	0	0	950.15	9400.7	57.8	25.1	950.85	9620.8	0	0	950.30	9447.9	0	5.0	2
3	942.45	7190.8	16.1	0	950.20	9416.4	57.8	49.0	950.85	9620.8	0	0	950.25	9432.2	0.2	5.0	3
4	942.45	7190.8	2.6	0	950.10	9385.0	34.1	49.0	950.85	9620.8	0	0	950.20	9416.4	0	5.0	4
5	942.45	7190.8	0	0	949.95	9338.2	26.3	49.0	950.85	9620.8	0	0	950.15	9400.7	0	5.0	5
6	942.40	7177.7	0	0	949.95	9338.2	8.5	0	950.80	9605.1	0	0	950.10	9385.0	0	5.0	6
7	942.40	7177.7	0	0	949.95	9338.2	1.4	0	950.80	9605.1	0	0	950.05	9369.2	0	5.0	7
8	942.45	7190.8	7.0	0	949.95	9338.2	0.7	0	950.80	9605.1	0	0	950.05	9369.2	0	5.0	8
9	942.45	7190.8	0	0	949.95	9338.2	1.1	0	950.75	9589.4	0	0	950.00	9353.5	0	5.0	9
10	942.45	7190.8	0	0	950.00	9353.5	6.0	0	950.75	9589.4	0	0	949.95	9338.2	0.2	5.0	10
11	942.45	7190.8	0	0	950.30	9447.9	51.0	0	950.70	9573.7	0	0	949.95	9338.2	0	5.0	11
12	942.40	7177.7	0	0	950.70	9573.7	69.6	0	950.70	9573.7	0	0	949.90	9322.8	0	5.0	12
13	942.40	7177.7	0	0	951.05	9684.1	56.2	0	950.70	9573.7	0	0	949.85	9307.4	0	5.0	13
14	942.40	7177.7	5.0	0	951.10	9700.2	5.1	0	950.65	9558.0	0	0	949.80	9292.0	0	5.0	14
15	942.40	7177.7	0	0	951.10	9700.2	3.9	0	950.65	9558.0	0	0	949.75	9276.6	0	5.0	15
16	942.40	7177.7	0	0	951.10	9700.2	3.8	0	950.65	9558.0	0	0	949.70	9261.3	0	5.0	16
17	942.40	7177.7	0.1	0	951.10	9700.2	1.2	0	950.60	9542.2	0	0	949.65	9245.9	0	5.0	17
18	942.40	7177.7	0	0	951.10	9700.2	0	0	950.60	9542.2	0	0	949.60	9230.5	0	5.0	18
19	942.40	7177.7	1.4	0	951.10	9700.2	0	0	950.60	9542.2	0	0	949.55	9215.2	0	5.0	19
20	942.75	7269.5	47.7	0	951.05	9684.1	0	0	950.55	9526.5	0	0	949.50	9199.8	0	5.0	20
21	943.50	7469.6	102.0	0	951.05	9684.1	0	0	950.55	9526.5	0	0	949.45	9184.4	0	5.0	21
22	947.20	8509.2	525.2	0	951.05	9684.1	0	0	950.50	9510.8	0	0	949.40	9169.0	0	5.0	22
23	949.00	9046.0	271.7	0	951.00	9668.0	0	0	950.50	9510.8	0	1.9	949.35	9153.6	0	5.0	23
24	949.30	9138.3	47.7	0	951.00	9668.0	0	0	950.45	9495.0	0	4.2	949.30	9138.3	0	5.0	24
25	949.40	9169.0	16.6	0	951.00	9668.0	0	0	950.40	9479.3	0	5.0	949.25	9122.9	0	5.0	25
26	949.55	9215.2	24.4	0	951.00	9668.0	0	0	950.35	9463.6	0	5.0	949.25	9122.9	0	5.0	26
27	949.65	9245.9	16.7	0	950.95	9652.3	0	0	950.45	9495.0	21.3	5.0	949.20	9107.5	0	5.0	27
28	949.70	9261.3	9.0	0	950.95	9652.3	0	0	950.45	9495.0	3.6	5.0	949.15	9092.2	0	5.0	28
29	949.75	9276.6	9.0	0	950.90	9636.6	0	0	950.40	9479.3	0	5.0	949.10	9076.8	0	5.0	29
30				0	950.90	9636.6	0	0	950.35	9463.6	0	5.0	949.05	9061.4	0	4.9	30
31					950.90	9636.6	0	0					949.00	9046.0	0	4.9	31
TOTAL			1103.2	0			417.1	172.1			24.9	36.1			0.4	154.8	
Inf. Ac. Ft.			2188.2				827.3				49.4				0.8	3407.6	
Outf. Ac. Ft.			0+(76.2)				341.6+(125.7)				71.6+(150.8)				(111.4)+307.0	1878.1+(803.9)	
Maximum Mean Daily Inflow			525.2				69.6				21.3				0.2	525.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			+2112.0				+360.0				-173.0				-417.6	+725.6	
																¾ Year	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	951.10	feet	on	3/14-19/44	Storage	9700.2	Acre Feet		
Min. W. S. Elev.	941.80	feet	on	12-9-44	Storage	7021.5	Acre Feet		
Max. Peak Inf.	1030	C. F. S. from	4:00 P.M.	on 2-22-44	to	6:00 P. M.	on	2-22-44	
Max. Peak Outf.	49	C. F. S. from	12:30 P.M.	on 3-2-44	to	12:00 P. M.	on	3-5-44	

RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
F. A. Pollard	Dam Tender	Gage Hts. copied	KFS & PAH
C. L. Brewster	Hydrographer	Storage applied	KFS & PAH
	Hydrographer	Inf. & Outf. comp.	KFS & PAH

REMARKS [Indicates total for period or prorated daily amounts.
() Indicates total loss due to evaporation, percolation and undetermined losses.

Ckd. JEG 12/27/44

F. C. Dist. Form 58C Revised 5-44 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 19 44

Continuous Water Stage Recorder Au

Drainage Area 32.2 Square Miles. Capacity of Reservoir 17190.0 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 1941. 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	948.95	9031.0	0	4.9	947.50	8597.6	0	4.9	945.85	8119.4	0	4.8	944.00	7604.0	0	6.0	1
2	948.90	9015.9	0	4.9	947.45	8582.8	0	4.9	945.80	8105.3	0	4.8	943.90	7577.1	0	6.0	2
3	948.85	9000.8	0	4.9	947.40	8568.1	0	4.8	945.75	8091.2	0	4.8	943.85	7563.6	0	6.0	3
4	948.80	8985.8	0	4.9	947.35	8553.4	0	4.8	945.70	8077.0	0	4.8	943.80	7550.2	0	6.0	4
5	948.75	8970.8	0	4.9	947.30	8538.6	0	4.8	945.65	8062.9	0	4.8	943.75	7536.8	0	6.0	5
6	948.70	8955.7	0	4.9	947.25	8523.9	0	4.8	945.60	8048.8	0	5.6	943.70	7523.3	0	6.0	6
7	948.70	8955.7	0	4.9	947.15	8494.4	0	4.8	945.50	8020.6	0	6.0	943.60	7496.4	0	6.0	7
8	948.65	8940.6	0	4.9	947.10	8479.7	0	4.8	945.45	8006.5	0	6.0	943.55	7483.0	0	6.0	8
9	948.60	8925.6	0	4.9	947.05	8465.0	0	4.8	945.40	7992.4	0	6.0	943.50	7469.6	0	6.0	9
10	948.55	8910.6	0	4.9	947.00	8450.2	0	4.8	945.35	7978.3	0	6.0	943.45	7456.2	0	6.0	10
11	948.50	8895.5	0	4.9	946.95	8435.8	0	4.8	945.30	7964.2	0	6.0	943.40	7442.7	0	6.0	11
12	948.45	8880.4	0	4.9	946.90	8421.4	0	4.8	945.20	7935.9	0	6.0	943.35	7429.2	0	6.0	12
13	948.40	8865.4	0	4.9	946.85	8407.0	0	4.8	945.15	7921.8	0	6.0	943.25	7402.4	0	6.0	13
14	948.35	8850.4	0	4.9	946.80	8392.5	0	4.8	945.10	7907.7	0	6.0	943.20	7388.9	0	6.0	14
15	948.30	8835.3	0	4.9	946.75	8378.1	0	4.8	945.00	7879.5	0	6.0	943.15	7375.4	0	6.0	15
16	948.25	8820.2	0	4.9	946.70	8363.7	0	4.8	944.95	7865.8	0	6.0	943.10	7362.0	0	6.0	16
17	948.20	8805.2	0	4.9	946.65	8349.2	0	4.8	944.90	7852.0	0	6.0	943.05	7348.6	0	6.0	17
18	948.15	8790.2	0	4.9	946.60	8334.8	0	4.8	944.85	7838.2	0	6.0	943.00	7335.1	0	6.0	18
19	948.10	8775.1	0	4.9	946.55	8320.4	0	4.8	944.80	7824.4	0	6.0	942.95	7322.0	0	6.0	19
20	948.05	8760.0	0	4.9	946.50	8306.0	0	4.8	944.70	7796.9	0	6.0	942.85	7295.8	0	6.0	20
21	948.00	8745.0	0	4.9	946.45	8291.6	0	4.8	944.65	7783.1	0	6.0	942.80	7282.6	0	6.0	21
22	947.95	8730.2	0	4.9	946.40	8277.1	0	4.8	944.60	7769.3	0	6.0	942.75	7269.5	0	6.0	22
23	947.90	8715.5	0	4.9	946.35	8262.7	0	4.8	944.55	7755.6	0	6.0	942.70	7256.4	0	6.0	23
24	947.85	8700.8	0	4.9	946.30	8248.3	0	4.8	944.45	7728.0	0	6.0	942.60	7230.1	0	6.0	24
25	947.80	8686.0	0	4.9	946.20	8219.4	0	4.8	944.40	7714.2	0	6.0	942.55	7217.0	0	6.0	25
26	947.75	8671.3	0	4.9	946.15	8205.0	0	4.8	944.35	7700.4	0	6.0	942.50	7203.9	0	6.0	26
27	947.70	8656.6	0	4.9	946.10	8190.6	0	4.8	944.25	7672.9	0	6.0	942.45	7190.8	0	6.0	27
28	947.65	8641.8	0	4.9	946.05	8176.2	0	4.8	944.20	7659.1	0	6.0	942.40	7177.7	0	6.0	28
29	947.60	8627.1	0	4.9	946.00	8161.7	0	4.8	944.15	7645.4	0	6.0	942.35	7164.6	0	6.0	29
30	947.55	8612.4	0	4.9	945.95	8147.6	0	4.8	944.10	7631.6	0	6.0	942.25	7138.3	0	6.0	30
31					945.90	8133.5	0	4.8	944.05	7617.8	0	6.0					31
TOTAL			0	147.0			0	149.0			0	179.6			0	180.0	
Inf. Ac. Ft.			0				0				0				0	3407.6	
Outf. Ac. Ft.			291.6+(142.0)				295.6+(183.3)				356.2+(159.5)				(122.5) + 357.0	3178.5+(1411.2)	
Maximum Mean Daily Inflow			0				0				0				0	525.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-433.6				-478.9				-515.7				479.5	-1182.1	
																Yearly Totals	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	951.10	feet	on	3/14-19/44	Storage	9700.2	Acre Feet		
Min. W. S. Elev.	941.80	feet	on	12-9-44	Storage	7021.5	Acre Feet		
Max. Peak Inf.	1030	C. F. S. from	4:00 P.M.	on 2-22-44	to	6:00 P.M.	on	2-22-44	
Max. Peak Outf.	49	C. F. S. from	12:30 P.M.	on 3-2- 44	to	12:00 P.M.	on	3 -5-44	

RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
F. A. Pollard	Dam Tender	Gage Hts. copied	KFS & PAH
C. L. Brewster	Hydrographer	Storage applied	KFS & PAH
	Hydrographer	Inf. & Outf. comp.	KFS & PAH

REMARKS () Indicates total loss due to evaporation, percolation and other losses.

Ckd. JEG 12/27/44
" PAH 3 /1945

LIVE OAK

F. C. Dist. Form 68A Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In / On Live Oak Canyon for the Year Ending September 30, 19 44

Continuous Water Stage Recorder Au

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft. as of May, 19 38. 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													1445±				1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13	Reservoir Dry				Reservoir Dry				Reservoir Dry					Small Pool			13
14		No Storage				No Storage				No Storage							14
15			No Flow				No Flow				No Flow						15
16				No Flow				No Flow				No Flow					16
17																	17
18															Negligible		18
19																Negligible	19
20																	20
21																	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	
Outf. Ac. Ft.																0	
Minimum Mean Daily Inflow																0	
Minimum Mean Daily Inflow																0	
Storage Change																0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	1478.1	feet	on 2-23-44	Storage 71.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1445 ±	feet	on Various Days	Storage 0	Acre Feet	H. R. Whisler	Dam Tender	Gage Hts. copied		
Max. Peak Inf.	74.0	C. F. S. from	2:00 P.M. on 2-22-44	to 2:30 P.M.	on 2-22-44	C. L. Brewster	Hydrographer	Storage applied		
Max. Peak Outf.	20.0	C. F. S. from	10:00 P.M. on 2-22-44	to 3:30 A.M.	on 2-23-44	H. A. van der Goot	Hydrographer	Inf. & Outf. comp.	PAH	4/25/45

REMARKS

F. C. Dist. Form 68B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In / On Live Oak Canyon for the Year Ending September 30, 1944

Continuous Water Stage Recorder Au

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft. as of May, 19 38. 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	1445±		0.1	0.1	1476.4	62.5	2.3	1.8	1471.8	42.1	0.2	0.1	1472.3	44.1	0.1	0.1	1
2	1445±		0.1	0.1	1475.5	58.2	3.7	5.9	1471.8	42.1	0.2	0.1	1472.3	44.1	0.1	0.1	2
3	1445±		0.1	0.1	1474.5	53.6	3.5	5.8	1471.9	42.5	0.2	0.1	1472.3	44.1	0.1	0.1	3
4	1445±		0.1	0.1	1473.1	47.4	2.6	5.7	1471.9	42.5	0.2	0.1	1472.3	44.1	0.1	0.1	4
5	1445±		0.1	0.1	1471.4	40.5	.20	5.5	1472.0	42.9	0.2	0.1	1471.8	c 42.5	0.1	0.9	5
6	1445±		0.1	0.1	1469.7	34.1	1.7	4.9	1472.0	42.9	0.2	0.1	1471.1	c 40.1	0.1	1.3	6
7	1445±		0.1	0.1	1469.2	32.3	1.3	2.2	1472.0	42.9	0.2	0.1	1470.3	c 37.8	0.1	1.3	7
8	1445.3		0.1	0.1	1468.6	30.3	1.2	2.2	1472.1	43.3	0.2	0.1	1469.6	c 35.4	0.1	1.3	8
9	1446.3	0.1	0.1	0.1	1468.4	29.6	1.1	1.5	1472.1	43.3	0.1	0.1	1469.0	c 33.0	0.1	1.3	9
10	1447.3	0.1	0.1	0.1	1468.4	29.6	1.0	1.0	1472.1	43.3	0.1	0.1	1468.3	c 30.6	0.1	1.3	10
11	1448.2	0.2	0.2	0.1	1468.4	29.6	1.0	1.0	1472.1	43.3	0.1	0.1	1467.6	c 28.4	0.1	1.2	11
12	1448.9	0.4	0.2	0.1	1468.4	29.6	1.0	1.0	1472.1	43.3	0.1	0.1	1467.0	c 26.2	0.1	1.2	12
13	1449.5	0.5	0.2	0.1	1468.5	30.0	1.2	1.0	1472.1	43.3	0.1	0.1	1466.3	c 24.1	0.1	1.2	13
14	1450.1	0.6	0.1	0.1	1468.5	30.0	1.0	1.0	1472.2	43.7	0.1	0.1	1465.5	c 21.9	0.1	1.2	14
15	1450.8	0.8	0.2	0.1	1468.4	29.6	0.8	1.0	1472.2	43.7	0.1	0.1	1464.8	c 19.7	0.1	1.2	15
16	1451.4	1.0	0.2	0.1	1468.5	30.0	0.8	0.6	1472.2	43.7	0.1	0.1	1464.0	c 17.7	0.1	1.1	16
17	1451.9	1.2	0.2	0.1	1469.0	31.6	0.9	0.1	1472.2	43.7	0.1	0.1	1463.2	c 15.7	0.1	1.1	17
18	1452.4	1.5	0.2	0.1	1469.4	33.0	0.8	0.1	1472.2	43.7	0.1	0.1	1462.3	c 13.8	0.1	1.1	18
19	1452.9	1.7	0.2	0.1	1469.8	34.5	0.9	0.1	1472.1	43.3	0.1	0.1	1461.3	c 11.8	0.1	1.1	19
20	1456.2	4.1	1.3	0.1	1470.2	35.9	0.8	0.1	1472.1	43.3	0.1	0.1	1460.1	c 9.8	0.1	1.1	20
21	1466.6	23.9	10.4	0.4	1470.5	37.1	0.7	0.1	1472.1	43.3	0.1	0.1	1458.8	c 8.0	0.1	1.0	21
22	1478.1	71.4	33.0	9.1	1470.8	38.2	0.7	0.1	1472.1	43.3	0.1	0.1	1457.4	c 6.2	0.1	1.0	22
23	1477.2	66.6	8.7	11.1	1471.0	38.9	0.4	0.1	1472.1	43.3	0.1	0.1	1455.6	c 4.4	0.1	1.0	23
24	1475.9	60.0	3.6	6.9	1471.2	39.7	0.5	0.1	1472.1	43.3	0.1	0.1	1453.6	c 2.6	0.1	1.0	24
25	1475.8	59.6	1.8	2.0	1471.3	40.1	0.3	0.1	1472.0	42.9	0.1	0.1	1450.7	c 0.9	0.1	1.0	25
26	1475.8	59.6	2.0	2.0	1471.4	40.5	0.3	0.1	1472.0	42.9	0.1	0.1	1445±	c 0.3	0.1	0.4	26
27	1475.5	58.2	1.3	2.0	1471.4	40.5	0.1	0.1	1472.3	44.1	0.5	0.1			0.1	0.1	27
28	1475.7	59.1	1.4	0.9	1471.5	40.9	0.3	0.1	1472.3	44.1	0.1	0.1		Small Pool	0.1	0.1	28
29	1476.2	61.5	1.4	E 0.2	1471.6	41.3	0.3	0.1	1472.3	44.1	0.1	0.1			0.1	0.1	29
30					1471.7	41.7	0.3	0.1	1472.3	44.1	0.1	0.1			0.1	0.1	30
31					1471.7	41.7	0.1	0.1					1445±		0.1	0.1	31
TOTAL			67.6	36.6			33.6	43.6			4.2	3.0			3.1	25.2	
Inf. Ac. Ft.			134.1				66.7				8.3				6.2	215.3	
Outf. Ac. Ft.				72.6				86.5				5.9			5.0.0	215.0	
Maximum Mean Daily Inflow			33.1				3.7				0.5				0.1	33.1	
Minimum Mean Daily Inflow			0.1				0.1				0.1				0.1	0	
Storage Change			+ 61.5				- 19.8				+ 2.4				- 4.3.8	+ 0.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ¼ Year

Max. W. S. Elev.	1478.1	feet	on 2-23-44	Storage 71.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1445 ±	feet	on Various Days	Storage 0	Acre Feet	H. R. Whisler	Dam Tender	Gage Hts. copied	PAH	4/27/45
Max. Peak Inf.	74.0	C. F. S. from	2:00 P.M. on 2-22-44	to 2:30 P.M.	on 2-22-44	C. L. Brewster	Hydrographer	Storage applied	PAH	4/27/45
Max. Peak Outf.	20.0	C. F. S. from	10:00 P.M. on 2-22-44	to 3:30 A.M.	on 2-23-44	H. A. van der Goot	Hydrographer	Inf. & Outf. comp.	PAH	4/27/45

REMARKS: E indicates estimated. C indicates storages computed. | indicates total for period or prorated daily amounts. Ckd. JEG 6/11/45

LIVE OAK (CONT)

F. C. Dist. Form 86C Revised 509 12/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In ~~On~~ Live Oak Canyon for the Year Ending September 30, 19 44

Continuous Water Stage Recorder: Au

Drainage Area 2.3 Square Miles. Capacity of Reservoir 227.5 Ac. Ft. at Spillway Elev. 1497.0 Ft. as of May 1938. 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	1445 ±		0.1	0.1													1
2			0.1	0.1													2
3			0.1	0.1													3
4			0.1	0.1													4
5			0.1	0.1													5
6			0.1	0.1													6
7			0.1	0.1													7
8			0.1	0.1													8
9			0.1	0.1													9
10			0.1	0.1													10
11			0.1	0.1													11
12			0.1	0.1													12
13		Small Pool	0.05	0.1	Reservoir Dry				Reservoir Dry				Reservoir Dry				13
14			0.05	0.1		No Storage	No Flow	No Flow		No Storage	No Flow	No Flow		No Storage	No Flow	No Flow	14
15			0.05	0.1													15
16																	16
17																	17
18																	18
19																	19
20																	20
21			Flow Negligible	Flow Negligible													21
22																	22
23																	23
24																	24
25																	25
26																	26
27																	27
28																	28
29																	29
30																	30
31																	31
TOTAL			1.35	1.5		0	0			0	0			0	0		
Inf. Ac. Ft.			2.7			0				0				0	21.8.0		
Outf. Ac. Ft.				3.0			0				0			0	21.8.0		
Maximum Mean Daily Inflow			0.1			0				0				0	33.1		
Minimum Mean Daily Inflow			0			0				0				0	0		
Storage Change			- 0.3			0				0				0	0		

NOTE: Gage Heights and Storages as of Midnight on Day Shown — Yearly Totals

Max. W. S. Elev.	1478.1	feet	on 2-23-44	Storage	71.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1445 ±	feet	on Various Days	Storage	0	Acre Feet	H. R. Whisler	Dam Tender	Gage Hts. copied		
Max. Peak Inf.	74.0	C.F.S. from	2:00 P.M. on 2-22-44	to	2:30 P.M.	on 2-22-44	O. L. Brewster	Hydrographer	Storage applied		
Max. Peak Outf.	20.0	C.F.S. from	10:00 P.M. on 2-22-44	to	3:30 A.M.	on 2-23-44	H. A. van der Goot	Hydrographer	Inf. & Outf. comp.	PAH	4/25/45
REMARKS									Ckd. JEG		

THOMPSON CREEK

F. C. Dist. Form 86A Revised 509 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

~~In~~ On Thompson Creek for the Year Ending September 30, 19 44

Continuous Water Stage Recorder: None

Drainage Area 3.70 Square Miles. Capacity of Reservoir 612.3 Ac. Ft. at Spillway Elev. 1634.8 Ft. as of January 19 43. 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	1577.8	1.4	0	0	1574.6	0.1	0	0	1573.0	0	0	0	1576.5	0.7	0	0	1
2	1577.7	1.3	0	0	1574.5	0.1	0	0	1573.0	0	0	0	1576.4	0.7	0	0	2
3	1577.6	1.3	0	0	1574.4	0.1	0	0	1573.0	0	0	0	1576.4	0.7	0	0	3
4	1577.5	1.2	0	0	1574.3	0.1	0	0	1573.0	0	0	0	1576.5	0.7	0	0	4
5	1577.3	1.1	0	0	1574.3	0.1	0	0	1573.0	0	0	0	1576.5	0.7	0	0	5
6	1577.2	1.0	0	0	1574.2	0.1	0	0	1573.0	0	0	0	1576.8	0.8	0.05	0	6
7	1577.1	1.0	0	0	1574.1	0.1	0	0	1573.0	0	0	0	1576.9	0.9	0	0	7
8	1577.0	0.9	0	0	1574.1	0.1	0	0	1573.0	0	0	0	1576.8	0.8	0	0	8
9	1576.9	0.9	0	0	1574.0	0.1	0	0	1573.0	0	0	0	1577.2	1.0	0.05	0	9
10	1576.8	0.8	0	0	1573.9		0	0	1573.6	0	0	0	1577.4	1.1	0.05	0	10
11	1576.6	0.7	0	0	1573.8		0	0	1574.6	0.1	0.1	0	1577.7	1.3	0.05	0	11
12	1576.5	0.7	0	0	1573.8		0	0	1575.2	0.3	0	0	1577.9	1.4	0.05	0	12
13	1576.4	0.7	0	0	1573.7		0	0	1575.3	0.3	0	0	1578.0	1.5	0.05	0	13
14	1576.3	0.6	0	0	1573.7		0	0	1575.4	0.3	0	0	1578.2	1.7	0.05	0	14
15	1576.2	0.6	0	0	1573.6		0	0	1575.3	0.3	0	0	1578.4	1.8	0.05	0	15
16	1576.0	0.5	0	0	1573.6		0	0	1574.9	0.2	0	0	1578.5	1.9	0.05	0	16
17	1575.9	0.5	0	0	1573.5		0	0	1574.8	0.2	0	0	1578.6	2.0	0.05	0	17
18	1575.8	0.4	0	0	1573.4		0	0	1574.8	0.2	0	0	1578.7	2.1	0.05	0	18
19	1575.7	0.4	0	0	1573.4		0	0	1574.8	0.2	0	0	1578.8	2.1	0.05	0	19
20	1575.5	0.4	0	0	1573.3		0	0	1575.0	0.2	0	0	1578.9	2.2	0.05	0	20
21	1575.4	0.3	0	0	1573.2		0	0	1577.1	1.0	0.5	0	1578.9	2.2	0.05	0	21
22	1575.3	0.3	0	0	1573.2		0	0	1577.0	0.9	0.1	0	1579.0	2.3	0.05	0	22
23	1575.2	0.3	0	0	1573.1		0	0	1576.9	0.9	0	0	1579.0	2.3	0.05	0	23
24	1575.1	0.2	0	0	1573.1		0	0	1576.8	0.8	0	0	1579.1	2.4	0.1	0	24
25	1575.0	0.2	0	0	1573.0	0	0	0	1576.7	0.8	0	0	1579.1	2.4	0.05	0	25
26	1575.0	0.2	0	0	1573.0	0	0	0	1576.6	0.7	0	0	1579.2	2.5	0.05	0	26
27	1574.9	0.2	0	0	1573.0	0	0	0	1576.4	0.7	0	0	1579.3	2.7	0.1	0	27
28	1574.8	0.2	0	0	1573.0	0	0	0	1576.4	0.7	0	0	1579.3	2.7	0.05	0	28
29	1574.8	0.2	0	0	1573.0	0	0	0	1576.4	0.7	0	0	1579.4	2.8	0.05	0	29
30	1574.7	0.1	0	0	1573.0	0	0	0	1576.5	0.7	0	0	1579.5	2.9	0.05	0	30
31	1574.6	0.1	0	0					1576.5		0	0	1579.5	2.9	0.05	0	31
TOTAL			0	0			0	0			0.7	0			1.3	0	
Inf. Ac. Ft.			0				0				1.4				2.6	4.0	
Outf. Ac. Ft.			(1.4)+ 0				(0.1)+0				(0.8)+ 0				(0.4)+0	(2.6)+0	
Maximum Mean Daily Inflow			0				0				0.5				0.4	0.5	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			- 1.4				- 0.1				+ 0.7				+2.2	+1.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown — ½ Year

Max. W. S. Elev.	1609.6	feet	on 2-24-44	Storage	158.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1573.0	feet	on Various Days	Storage	0	Acre Feet	H. R. Whisler	Dam Tender	Gage Hts. copied	PAH	4/25/45
Max. Peak Inf.	111.	C.F.S. from	1:00 P.M. on 2-22-44	to	3:00 P. M.	on 2-22-44	O. L. Brewster	Hydrographer	Storage applied	PAH	4/25/45
Max. Peak Outf.	0	C.F.S. from	for the ~~or~~ water year	to		on		Hydrographer	Inf. & Outf. comp.	PAH	4/25/45
REMARKS	() Indicates total monthly evaporation, percolation and other losses.								Ckd.	JEG	5/1/45
	[Indicates total for period or prorated daily amounts.											

THOMPSON CREEK (CONT.)

F. C. Dist. Form 68B Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In / On Thompson Creek for the Year Ending September 30, 19 44

Continuous Water Stage Recorder None

Drainage Area 3.70 Square Miles. Capacity of Reservoir 612.3 Ac. Ft. at Spillway Elev. 1634.8 Ft. as of January, 1943. 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	1579.6	30	01	0	1608.4	1481	26	0	1602.1	998	03	0	1593.5	47.7	0	0	1
2	1579.7	31	01	0	1608.6	1498	35	0	1601.7	971	03	0	1593.3	46.7	0	0	2
3	1579.7	31	01	0	1608.6	1498	26	0	1601.4	950	03	0	1593.0	45.1	0	0	3
4	1579.8	33	02	0	1608.5	1489	21	0	1601.1	930	02	0	1592.8	44.1	0	0	4
5	1579.9	34	01	0	1608.4	1481	22	0	1600.8	910	02	0	1592.6	43.1	0	0	5
6	1580.0	35	01	0	1608.2	1463	16	0	1600.4	883	02	0	1592.3	41.7	0	0	6
7	1580.0	35	01	0	1608.0	1446	16	0	1600.1	864	01	0	1592.1	40.7	0	0	7
8	1580.1	36	02	0	1607.8	1429	17	0	1599.8	844	01	0	1591.9	39.7	0	0	8
9	1580.3	39	02	0	1607.7	1421	20	0	1599.9	825	01	0	1591.7	38.8	0	0	9
10	1580.3	39	01	0	1607.5	1404	15	0	1599.2	806	01	0	1591.4	37.4	0	0	10
11	1580.4	41	01	0	1607.3	1388	15	0	1598.8	781	01	0	1591.2	36.4	0	0	11
12	1580.6	43	02	0	1607.1	1371	14	0	1598.5	762	01	0	1591.0	35.5	0	0	12
13	1580.7	45	02	0	1607.1	1371	23	0	1598.2	743	01	0	1590.8	34.6	0	0	13
14	1580.9	48	02	0	1607.1	1371	23	0	1597.9	725	01	0	1590.6	33.7	0	0	14
15	1580.9	48	02	0	1606.9	1355	14	0	1597.6	707	01	0	1590.4	32.9	0	0	15
16	1581.0	49	01	0	1606.7	1339	14	0	1597.3	689	01	0	1590.2	32.0	0	0	16
17	1581.0	49	01	0	1606.4	1315	09	0	1597.0	671	01	0	1590.0	31.1	0	0	17
18	1581.0	49	01	0	1606.1	1291	09	0	1596.7	654	0	0	1589.8	30.3	0	0	18
19	1581.1	51	02	0	1605.8	1268	09	0	1596.4	636	0	0	1589.6	29.4	0	0	19
20	1581.8	63	08	0	1605.6	1253	12	0	1596.1	619	0	0	1589.4	28.6	0	0	20
21	1587.5	214	80	0	1605.3	1230	07	0	1595.8	602	0	0	1589.2	27.7	0	0	21
22	1605.8	1268	555	0	1605.0	1207	08	0	1595.6	591	0	0	1589.0	26.9	0	0	22
23	1609.1	1542	166	0	1604.7	1185	07	0	1595.3	574	0	0	1588.9	26.5	0	0	23
24	1609.6	1589	51	0	1604.4	1163	07	0	1595.1	563	0	0	1588.7	25.8	0	0	24
25	1609.3	1561	14	0	1604.2	1148	07	0	1594.9	552	0	0	1588.5	25.0	0	0	25
26	1609.1	1542	19	0	1603.9	1126	08	0	1594.6	535	0	0	1588.3	24.2	0	0	26
27	1608.9	1524	19	0	1603.6	1104	06	0	1594.4	525	0	0	1588.1	23.5	0	0	27
28	1608.6	1498	13	0	1603.3	1083	05	0	1594.2	514	0	0	1588.0	23.1	0	0	28
29	1608.4	1481	17	0	1603.0	1061	05	0	1594.0	503	0	0	1587.8	22.4	0	0	29
30					1602.7	1040	06	0	1593.7	487	0	0	1587.6	21.7	0	0	30
31					1602.4	1019	04	0					1587.5	21.4	0	0	31
TOTAL			969	0			426	0			26	0			0	0	
Inf. Ac. Ft.			1922				845				52				0	2857	
Outf. Ac. Ft.			0 +(47.0)				0+(130.5)				0+(58.3)				(27.4)+0	0+(265.8)	
Maximum Mean Daily Inflow			555				34				03				0	555	
Minimum Mean Daily Inflow			01				04				0				0	0	
Storage Change			+ 1452				- 462				- 532				- 273	+ 199	

NOTE: Gage Heights and Storages as of Midnight on Day Shown. % Year

Max. W. S. Elev.	1609.6	feet on 2-24-44	Storage 158.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	1573.0	feet on Various Days	Storage 0	Acre Feet	H. R. Whisler	Dam Tender	Gage Hts. copied PAH 4/25/45
Max. Peak Inf.	111.	C.F.S. from 1:00 P.M. on 2-22-44	to 3:00 P.M. on 2-22-44		C. L. Brewster	Hydrographer	Storage applied PAH 4/25/45
Max. Peak Outf.	0	C.F.S. from ~~Various~~ for the ~~as~~ water year	to	on		Hydrographer	Inf. & Outf. comp. PAH 4/25/45

REMARKS Indicates total for period or prorated daily amounts.
() Indicates total monthly evaporation, percolation and other losses.
Ckd. JEG 5/1/1945

F. C. Dist. Form 68C Revised 500 11/44

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

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

In / On Thompson Creek for the Year Ending September 30, 1944

Continuous Water Stage Recorder None

Drainage Area 3.70 Square Miles. Capacity of Reservoir 612.3 Ac. Ft. at Spillway Elev. 1634.8 Ft. as of January, 1943. 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	1587.3	207	0	0	1582.6	79	0	0	1578.1	16	0	0	1573.9		0	0	1
2	1587.1	200	0	0	1582.5	77	0	0	1578.0	15	0	0	1573.8		0	0	2
3	1586.9	194	0	0	1582.3	73	0	0	1577.8	14	0	0	1573.8	Negligible	0	0	3
4	1586.8	191	0	0	1582.2	71	0	0	1577.7	13	0	0	1573.7		0	0	4
5	1586.6	184	0	0	1582.0	67	0	0	1577.5	12	0	0	1573.7		0	0	5
6	1586.4	178	0	0	1581.9	65	0	0	1577.4	11	0	0	1573.6		0	0	6
7	1586.3	175	0	0	1581.7	62	0	0	1577.3	11	0	0	1573.6		0	0	7
8	1586.1	168	0	0	1581.6	60	0	0	1577.2	10	0	0	1573.6		0	0	8
9	1585.9	162	0	0	1581.4	56	0	0	1577.1	10	0	0	1573.5		0	0	9
10	1585.8	159	0	0	1581.3	54	0	0	1576.9	09	0	0	1573.5	Storage	0	0	10
11	1585.6	154	0	0	1581.1	51	0	0	1576.8	08	0	0	1573.4		0	0	11
12	1585.4	148	0	0	1581.0	49	0	0	1576.7	08	0	0	1573.4		0	0	12
13	1585.3	145	0	0	1580.8	46	0	0	1576.6	07	0	0	1573.3		0	0	13
14	1585.1	140	0	0	1580.7	45	0	0	1576.5	07	0	0	1573.2		0	0	14
15	1585.0	137	0	0	1580.6	43	0	0	1576.4	07	0	0	1573.1		0	0	15
16	1584.8	132	0	0	1580.4	41	0	0	1576.2	06	0	0	1573.0	0	0	0	16
17	1584.7	129	0	0	1580.3	39	0	0	1575.9	05	0	0	1573.0	0	0	0	17
18	1584.5	124	0	0	1580.1	36	0	0	1575.7	04	0	0	1573.0	0	0	0	18
19	1584.4	121	0	0	1580.0	35	0	0	1575.6	04	0	0	1573.0	0	0	0	19
20	1584.2	116	0	0	1579.8	33	0	0	1575.5	04	0	0	1573.0	0	0	0	20
21	1584.1	114	0	0	1579.7	31	0	0	1575.4	03	0	0	1573.0	0	0	0	21
22	1583.9	109	0	0	1579.5	29	0	0	1575.3	03	0	0	1573.0	0	0	0	22
23	1583.8	106	0	0	1579.4	28	0	0	1575.2	03	0	0	1573.0	0	0	0	23
24	1583.6	101	0	0	1579.3	27	0	0	1574.9	02	0	0	1573.0	0	0	0	24
25	1583.5	99	0	0	1579.1	24	0	0	1574.7	02	0	0	1573.0	0	0	0	25
26	1583.3	94	0	0	1579.0	23	0	0	1574.7	02	0	0	1573.0	0	0	0	26
27	1583.2	92	0	0	1578.8	21	0	0	1574.6	01	0	0	1573.0	0	0	0	27
28	1583.1	89	0	0	1578.7	21	0	0	1574.6	01	0	0	1573.0	0	0	0	28
29	1582.9	85	0	0	1578.5	19	0	0	1574.5	01	0	0	1573.0	0	0	0	29
30	1582.8	83	0	0	1578.4	18	0	0	1574.4	01	0	0	1573.0	0	0	0	30
31					1578.2	17	0	0	1574.1	01	0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	285.7	
Outf. Ac. Ft.			0	+(13.1)			0	+ (6.6)			0	+ (1.6)		(0.1)	+ 0	0 +(287.3)	
Maximum Mean Daily Inflow			0				0				0				0	55.5	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			- 13.1				- 6.6				- 1.6				- 0.1	- 1.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown. Yearly Totals

Max. W. S. Elev.	1609.6	feet on 2-24-44	Storage 158.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	1573.0	feet on Various Days	Storage 0	Acre Feet	H. R. Whisler	Dam Tender	Gage Hts. copied PAH 4/25/45
Max. Peak Inf.	111.	C.F.S. from 1:00 P.M. on 2-22-44	to 3:00 P.M. on 2-22-44		C. L. Brewster	Hydrographer	Storage applied PAH 4/25/45
Max. Peak Outf.	0	C.F.S. from ~~Various~~ for the ~~as~~ water year	to	on		Hydrographer	Inf. & Outf. comp. PAH 4/25/45

REMARKS () Indicates total monthly evaporation, percolation and other losses. Ckd. JEG 5/1/45

YEARLY RESERVOIR OPERATION SUMMARY

(1943-44)

Dam	Inflow			Outflow	Peak Inflow				Peak Outflow				Storage A.F.		
	Annual A.F.	Max. Day C.F.S.	Min. Day C.F.S.	Annual A.F.	Mo.	Day	Period	C.F.S.	Mo.	Day	Period	C.F.S.	Maximum	Minimum	Sept. 30, 1944
Pacoima	15,004	898	0.4	15,167	2	22	930A-1000A	1,790	2 3	22 2	630P-1200P 100P-600P	270 326	4,818	0.8	44
Big Tujunga #1	42,270	2,779	5.0	41,722	2	22	900A-930A	4,770	2	22	1200N-400P	3,310	2,485	0	548
Devils Gate	8,680	1,454	0	7,905	2	22	215A-300A	2,310	2	22	400P-600P	1,530	1,823	0	0
Eaton Wash	2,901	265	0	1,970	2	22	830A-900A	371	2 3	22 14	500P-1200P 945A-1000A	203 268	398	0	0
Santa Anita	7,463	514	1.3	7,294	2	22	1000A-1100A	813	2	22	600P-800P	573	540	0	169
Sawpit	747	73	0	743	2	22	1000A-1200N	138	2 2	22 23	600P-1200P 1200P-715A	70 70	133	0.2	62
San Gabriel #2	38,150	2,865	1.4	37,460	2	22	900A-1000A	4,650	2	22	500P-700P	1,160	9,031	0	424
San Gabriel #1	184,923	5,708	43	184,622	2	22	1000A-1100A	9,860	2 5	22 20	800P-1200P 310P-430P	3,210 4,970	32,980	Sump only	Sump only
Big Dalton	1,087	109	0.05	1,085	2	22	1100A-100P	226	2 2	22 23	530P-700P 200P-400P	28 55	603	13	15
San Dimas	5,348	398	0.1	5,423	2	22	100P-115P	785	2	22	600P-800P	555	1,042	78	173
Puddingstone	3,408	525	0	3,178	2	22	400P-600P	1,030	2 3 3	22 2 5	1230P- 1200P	0 49	9,700	7,022	7,138
Puddingstone Div.	3,406	357	0	3,010	2	22	500P-530P	724	2	22	500P-530P	724	60	0	0
Live Oak	218	33	0	218	2	22	200P-230P	74	2 2	22 23	1000P-1200P 1200P-330A	20 20	71	0	0
Thompson Creek	286	56	0	00	2	22	100P-300P	111				0	159	0	0

Note: Outflows show valve releases and/or spillway discharges; percolation losses are not shown.

GROUND WATER
&
CONSERVATION

GROUND WATER AND WATER CONSERVATION

FOREWORD

During the 1943-44 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.

SEASONAL DATA AND MAPS

In order to determine to what extent the ground water basins were replenished or depleted during the 1943-44 season numerous measurements of water table and pressure surface elevations were made or obtained from cooperating agencies. More than 1200 wells were measured in the Fall of 1943, and again in the Spring of 1944. Eighty-one of these (designated as Key Wells, see Map III, page 216) 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. The District also cooperated with the United States Geological Survey in measuring approximately 250 wells in Antelope Valley, 25 of which were tentatively designated as Key Wells.

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 IV to IX, pages 223 to 228 inclusive.

The more important key well measurements were reduced to hydrographs, ten of which are included herein to show the fluctuations in the more important basins. See pages 217 to 222 inclusive.

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.

During the 1943-44 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 420 such analyses were made in the District's testing 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.

COOPERATIVE INVESTIGATIONS

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 second progress report during the year.

The somewhat similar cooperative investigation of the intrusion of sea water into the West Coastal Basin continued.

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, Culver City, and the Palos Verdes Estates.

NEW FACILITIES

During the year the east side of Pacoima Spreading Grounds was converted from the ditch method of spreading to the basin method; and two new basins were constructed on the west side. A new spreading ground was also developed on Tujunga Wash below Hansen Dam.

RESPONSIBILITY

All the work relative to ground water and water conservation was done under the immediate supervision of L. W. Jordan, except the analysis of water samples, which was done under the direction of S. R. Mitchell, Chief of the Testing Division.

TABLE I

CHANNEL ABSORPTION - 1943-44

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 c.f.
Pacoima	Dam to Parthenia Avenue	40-120	15170	8730	6440
Tujunga	Mouth of Canyon to Hansen Dam	(1)	63830	16710 (2)	47120
Tujunga	Hansen Dam to Magnolia Boulevard	250-700	43750	35200	8550
Eaton	Dam to Rio Hondo	13-40	1970	1320	650
Santa Anita	Dam to Arrow Highway	40-100	7290	5790	1500
Sawpit	U.S.G.S. Gaging Station to Rio Hondo	12-20	1050	770	280
San Gabriel	Mouth of San Gabriel Canyon to Foothill Boulevard (Canyon Basin)	Various	126870	8570	118300
San Gabriel	Foothill Boulevard to Santa Fe Dam (Main Basin)	"	118300	21410	96890
San Gabriel	Santa Fe Dam to Valley Boulevard (Main Basin)	"	81710	21420	60290
San Gabriel	Below Standefer Ditch to Florence Avenue (Coastal Basin)	"	109000 (3)	29070	79930
San Gabriel	Florence Avenue to Spring Street (Coastal Basin)	"	79930	7730	72200
Rio Hondo	Santa Fe Dam to Lower Azusa Road (Main Basin)	"	17470	5870	11600
Rio Hondo	Mission Bridge to Stewart and Gray Road (Coastal Basin)	"	63410 (3)	36590	26820
San Dimas	(Dam to Puddingstone Diversion Dam and (Puddingstone Diversion Dam to Glendora Avenue	7-20	5420	3400	2020 (4)
Live Oak	Dam to Foothill Boulevard	4	218	172	46
Thompson Creek	Dam to Foothill Boulevard (5)		0	287	
			Total	203039	

Notes

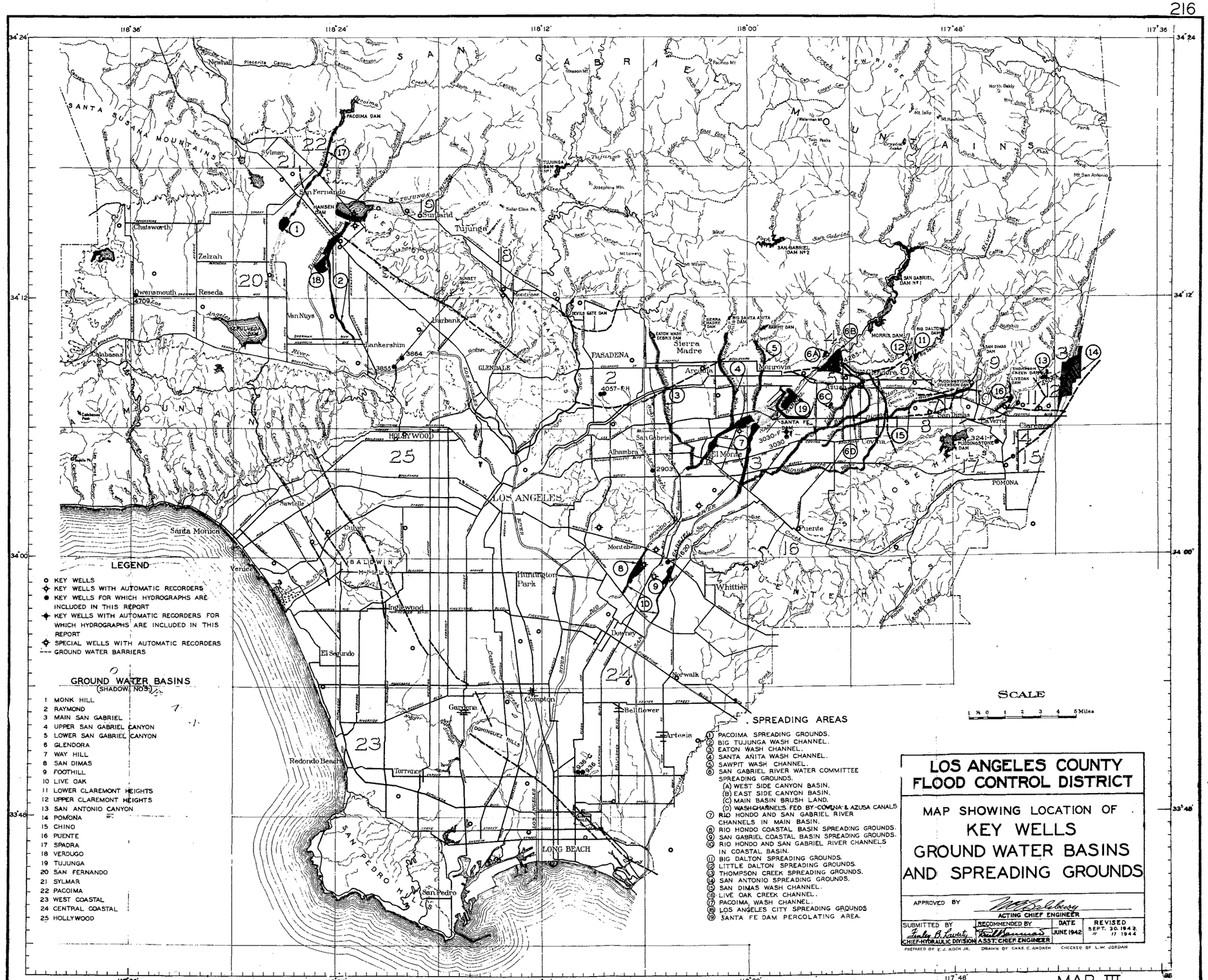
(1) Not determined. Absorptive capacity determined from difference in mean daily flows.
(2) Includes evaporation loss in reservoir.
(3) Includes rising water in vicinity of Whittier Narrows.
(4) To Surface Storage in Puddingstone Reservoir.
(5) No release during season. Total absorption and evaporation in reservoir shown.

Table II
Spreading Ground Absorption

	Name	Quantity of Water Absorbed - a.f. 1943-44
(I)	Pacoima	7250
(II)	San Gabriel River	
	(a) Canyon Basin	
	(1) East side	24030
	(2) West side	7100
	(b) Main Basin	
	(1) Covina canal	4547
	(2) Azusa canal	4007
	(3) Brush land	1266
	(c) Coastal Basin	0
(III)	Rio Hondo	
	(a) Coastal Basin	0
(IV)	Little Dalton	525
(V)	Big Dalton	555
(VI)	Thompson Creek	37
(VII)	San Antonio	10270
	Total	59587

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 Pacific Coast Hwy. °°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
1928-39		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
1943-44	12060.	72200.	217400.	33000.	334660.	132



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 NOS.)

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
1 ½ 0 1 2 3 4 5 Miles

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

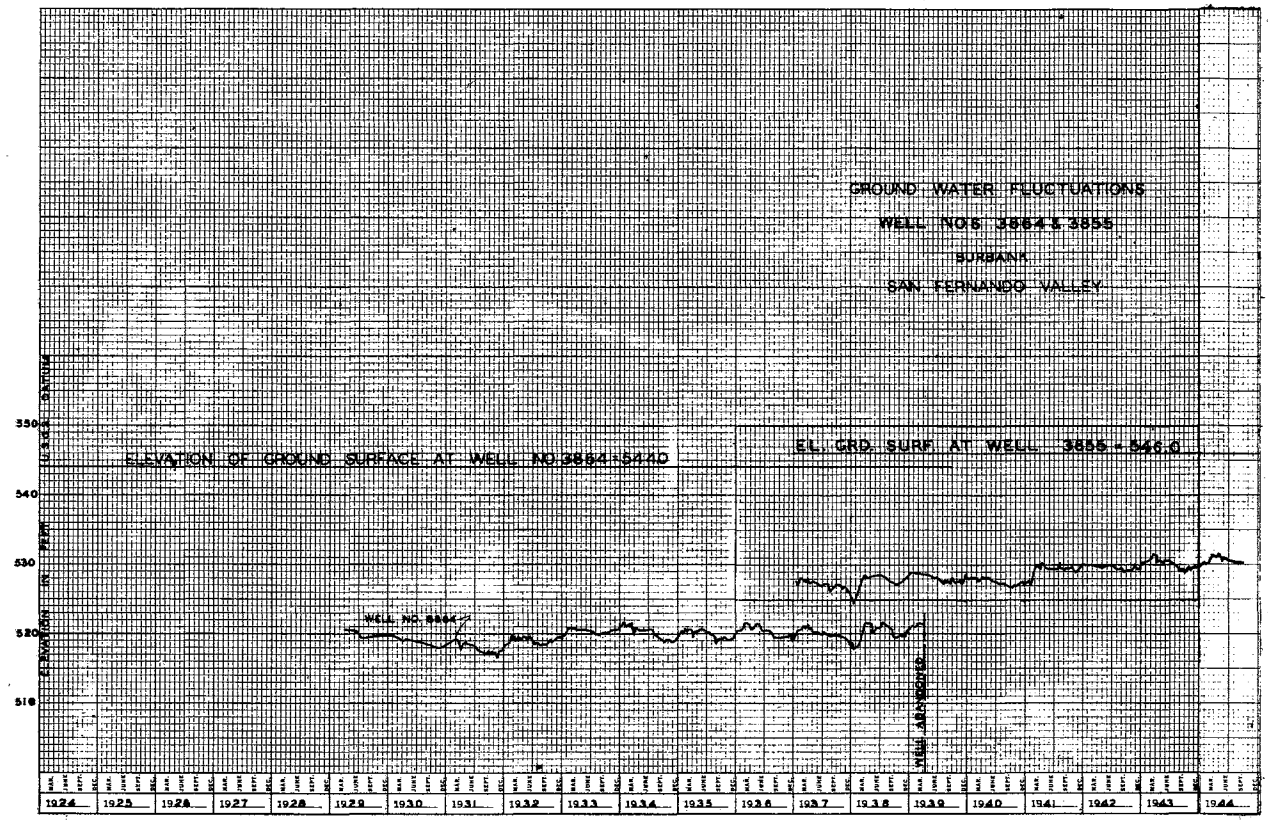
MAP SHOWING LOCATION OF
KEY WELLS
GROUND WATER BASINS
AND SPREADING GROUNDS

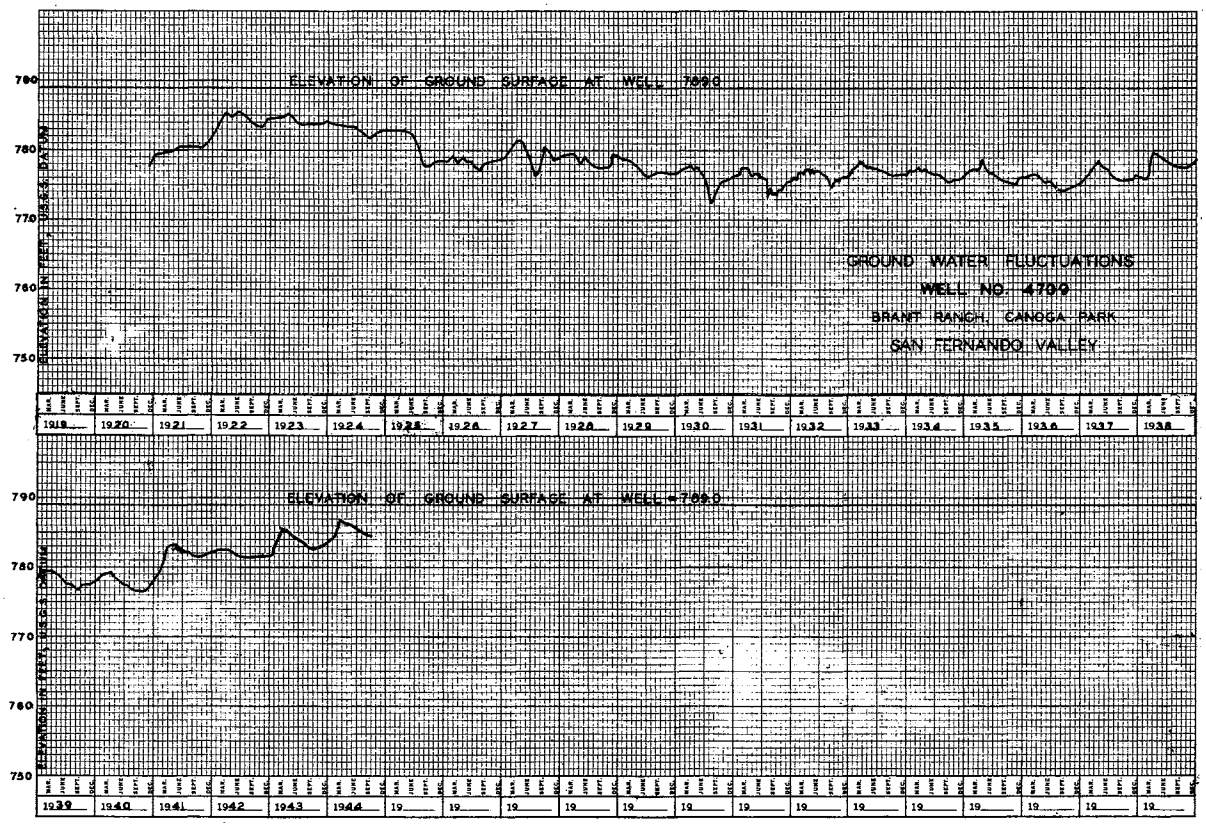
APPROVED BY
ACTING CHIEF ENGINEER

SUBMITTED BY	RECOMMENDED BY	DATE	REVISED
Finley B. Laverty CHIEF-HYDRAULIC DIVISION	Paul Baumann ASST. CHIEF ENGINEER	JUNE 1942	SEPT. 30, 1942 " " 1944

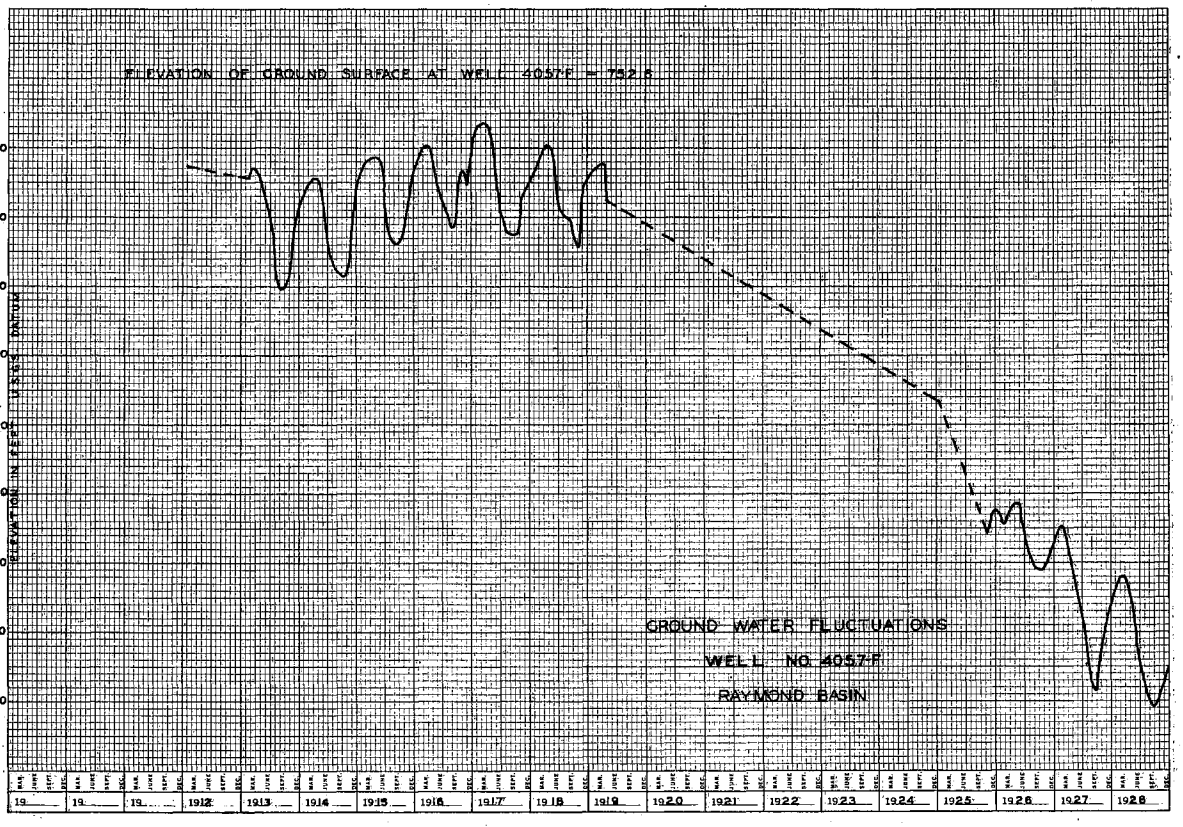
PREPARED BY E. J. KOCH JR.   DRAWN BY CHAS. C. ANDREH   CHECKED BY L. W. JORDAN

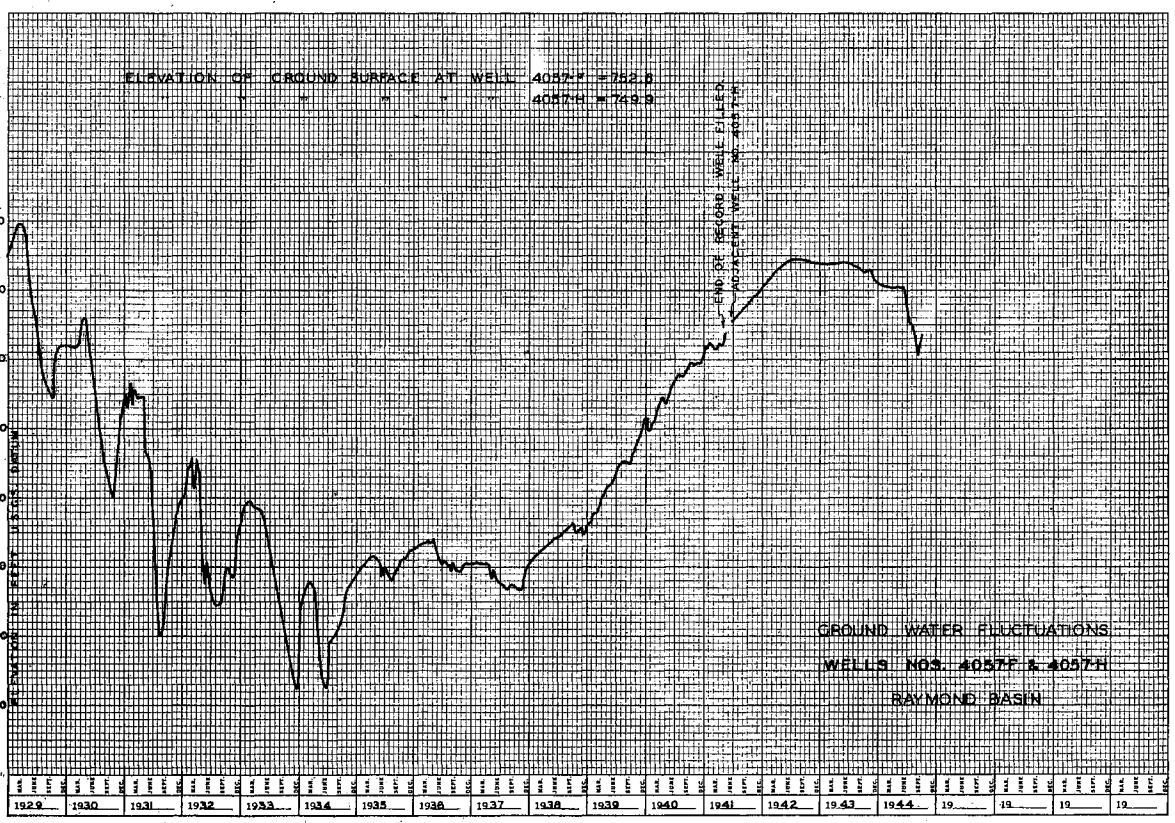
MAP III

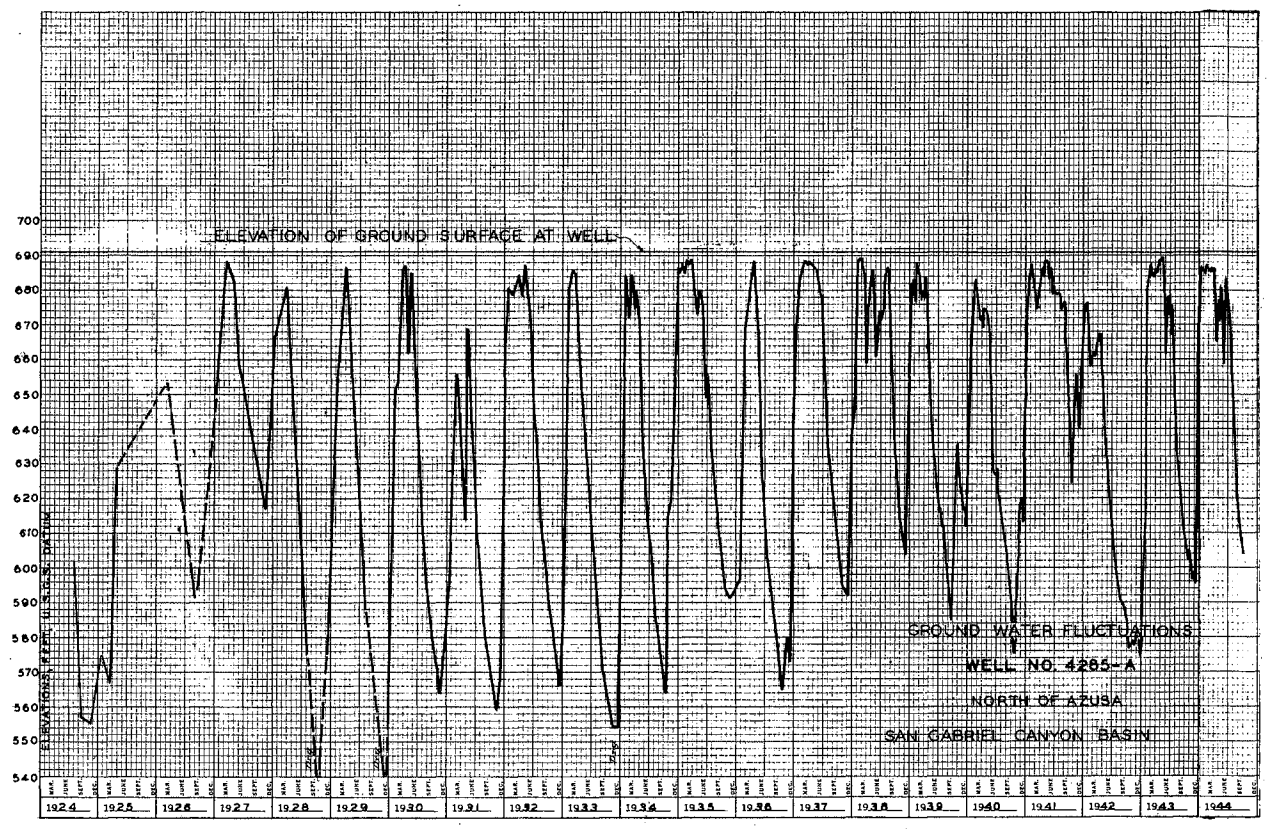

GROUND WATER FLUCTUATIONS
WELL NOS. 3864 & 3855
BURBANK
SAN FERNANDO VALLEY
ELEVATION OF GROUND SURFACE AT WELL NO 3864 = 544.0
EL. GRD. SURF. AT WELL 3855 = 546.0
WELL NO. 3864
WELL ABANDONED
ELEVATION IN FEET, U.S.G.S. DATUM
550
540
530
520
510
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944

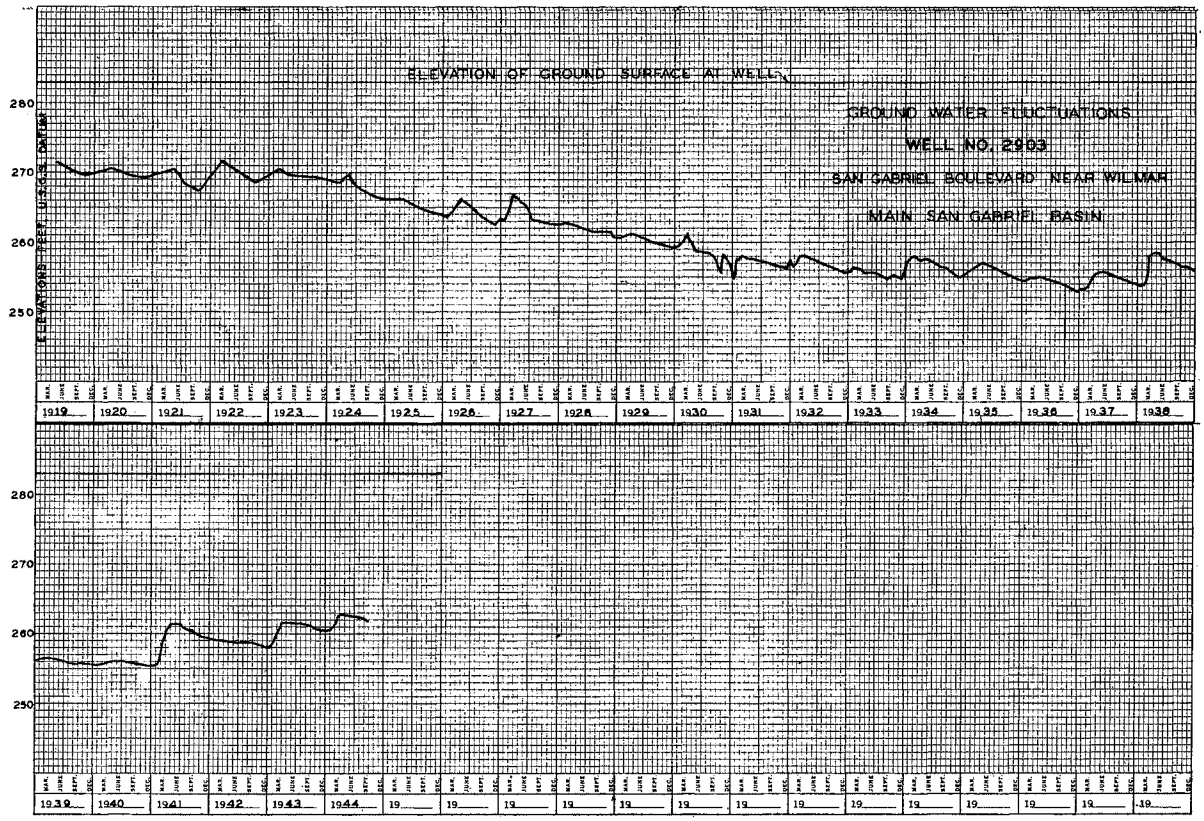

ELEVATION OF GROUND SURFACE AT WELL 709.0
GROUND WATER FLUCTUATIONS
WELL NO. 4709
BRANT RANCH, CANOGA PARK
SAN FERNANDO VALLEY
ELEVATION IN FEET, U.S.G.S. DATUM
790
780
770
760
750
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938

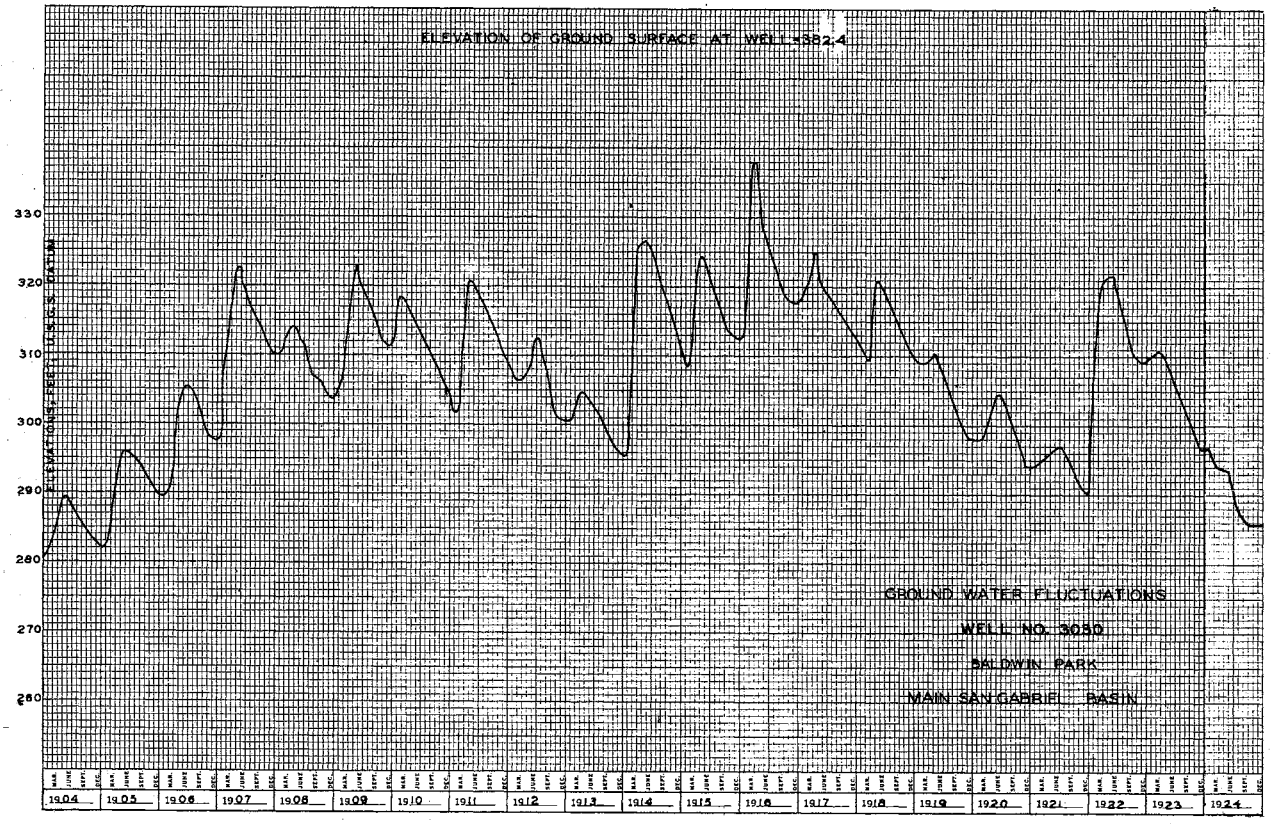
ELEVATION OF GROUND SURFACE AT WELL 709.0
ELEVATION IN FEET, U.S.G.S. DATUM
790
780
770
760
750
1939
1940
1941
1942
1943
1944

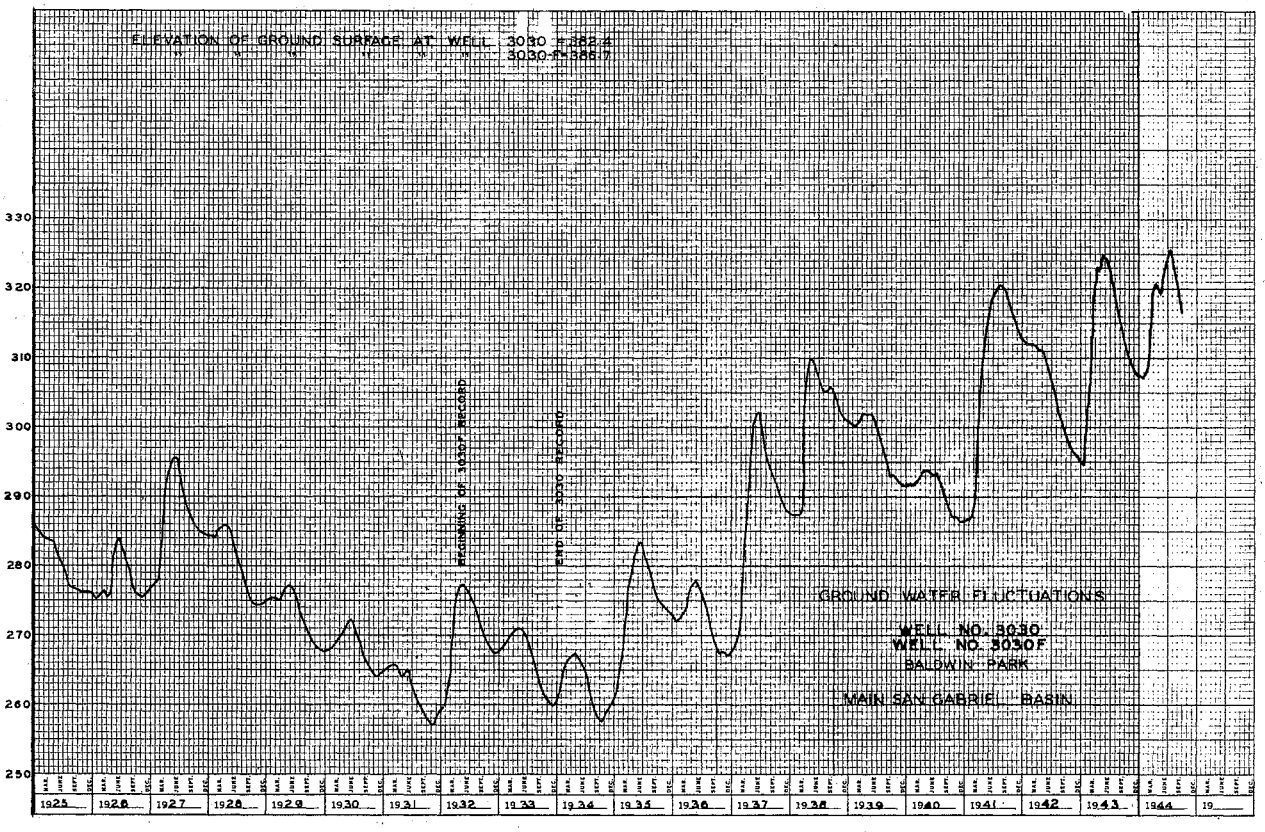

ELEVATION OF GROUND SURFACE AT WELL 4057-F = 752.6
ELEVATION IN FEET USGS DATUM
720
710
700
690
680
670
660
650
640
GROUND WATER FLUCTUATIONS
WELL NO. 4057-F
RAYMOND BASIN
19 19 19 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928

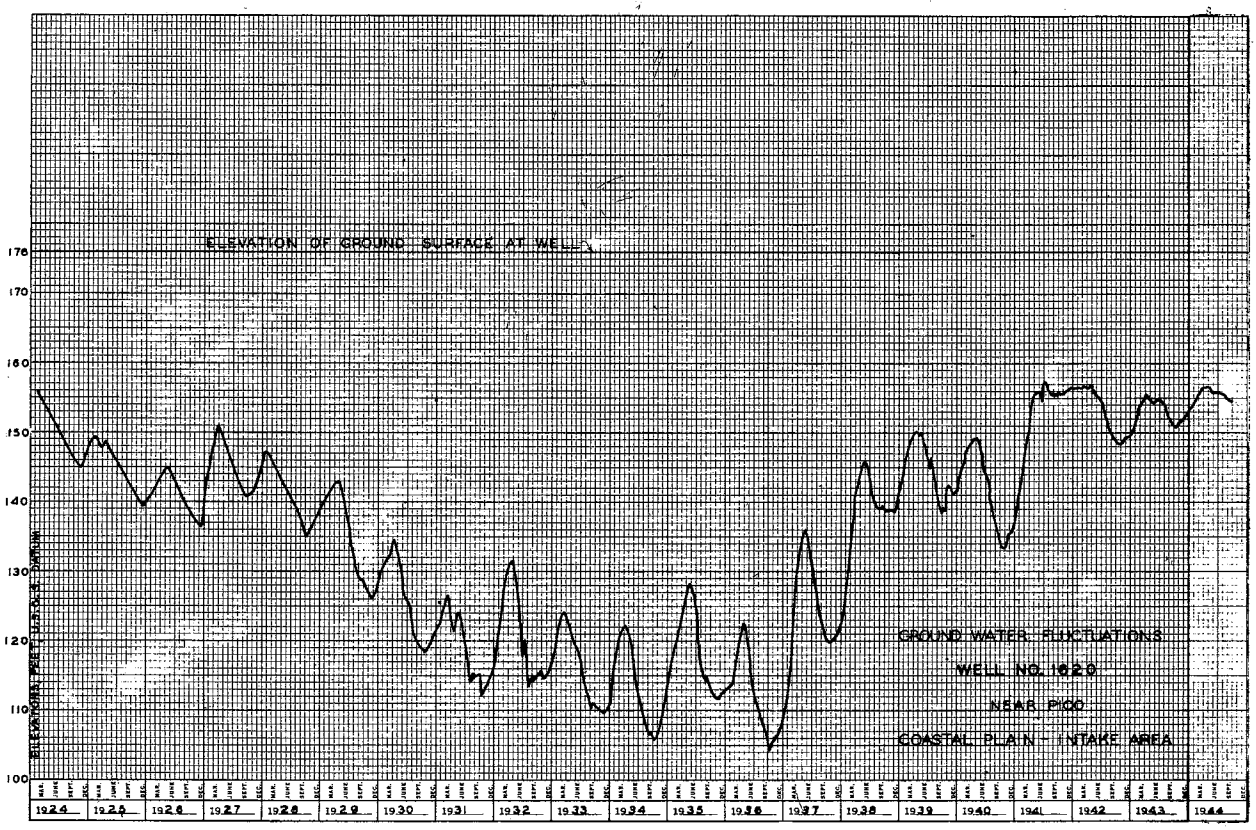

ELEVATION OF GROUND SURFACE AT WELL 4057-F = 752.6
4057-H = 749.9
ELEVATION IN FEET USGS DATUM
650
640
630
620
610
600
590
580
END OF RECORD WELL F FILLED
ADJACENT WELL NO. 4057-H
GROUND WATER FLUCTUATIONS
WELLS NOS. 4057-F & 4057-H
RAYMOND BASIN
1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 19 19 19 19

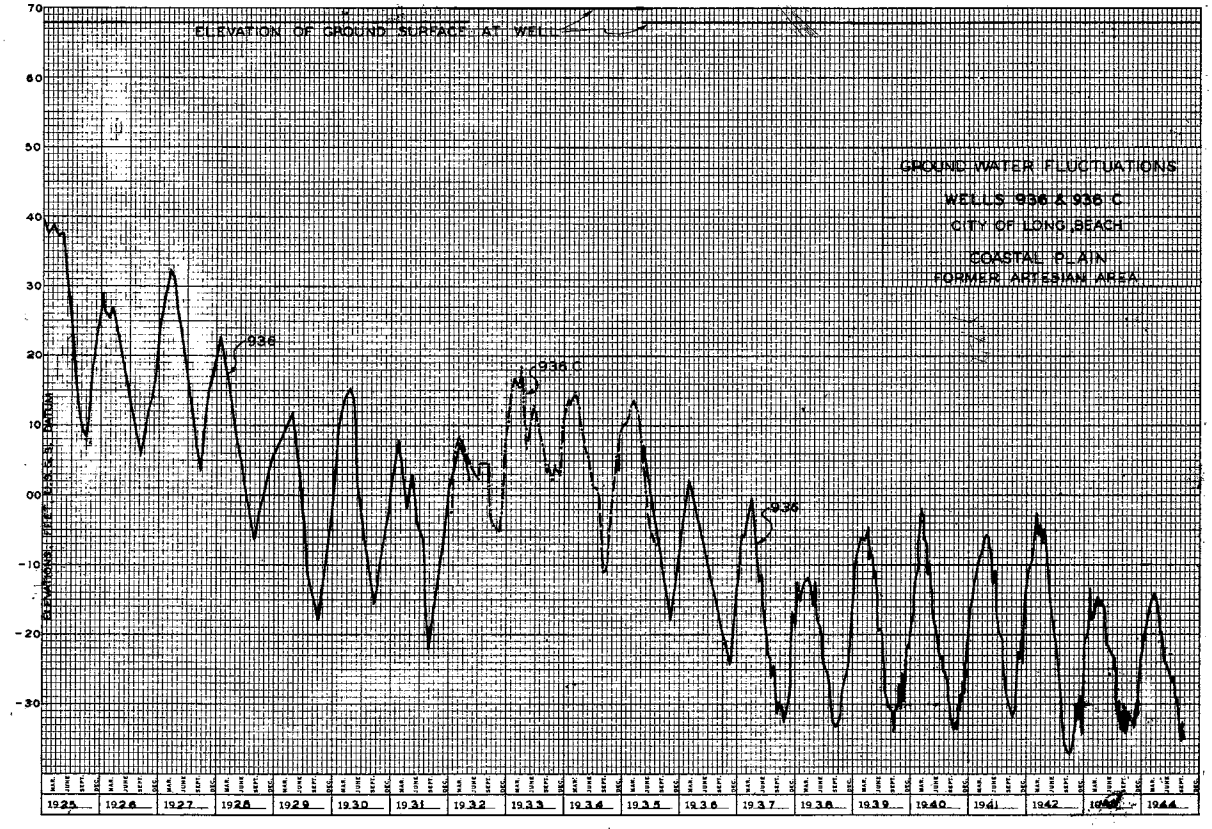

ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS IN FEET U.S.C.S. DATUM
700
690
680
670
660
650
640
630
620
610
600
590
580
570
560
550
540
GROUND WATER FLUCTUATIONS
WELL NO. 4285-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944

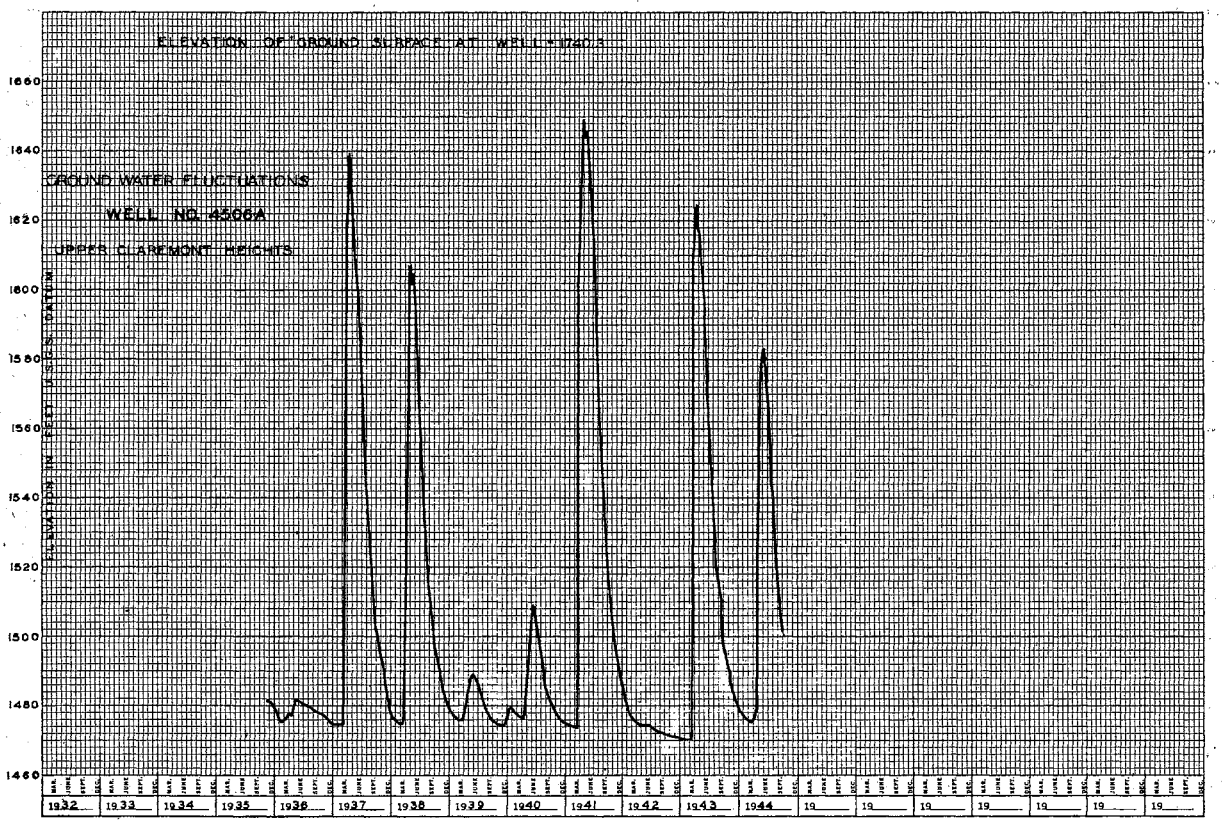

ELEVATION OF GROUND SURFACE AT WELL
ELEVATIONS IN FEET U.S.C.S. DATUM
280
270
260
250
GROUND WATER FLUCTUATIONS
WELL NO. 2903
SAN GABRIEL BOULEVARD NEAR WILMAR
MAIN SAN GABRIEL BASIN
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944

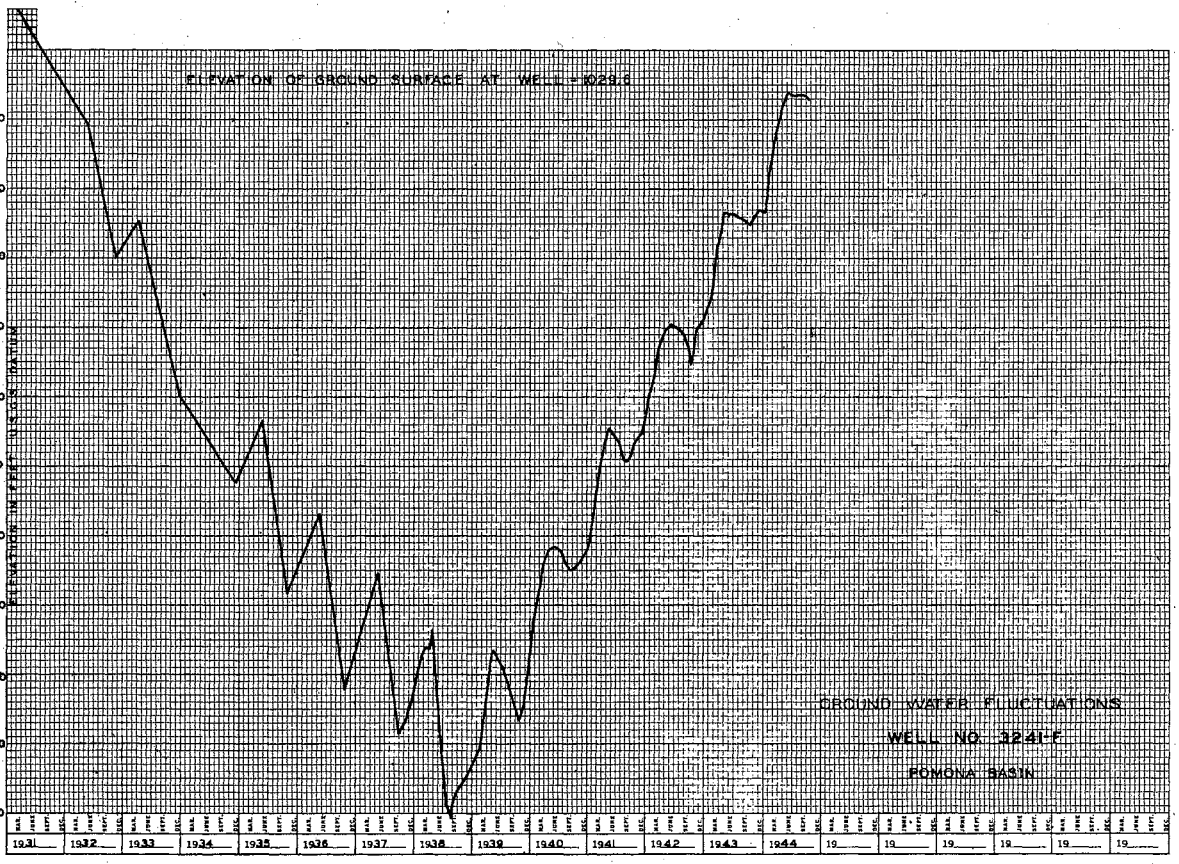

ELEVATION OF GROUND SURFACE AT WELL +382.4
ELEVATIONS-FEET, U.S.G.S. DATUM
330
320
310
300
290
280
270
260
GROUND WATER FLUCTUATIONS
WELL NO. 3030
BALDWIN PARK
MAIN SAN GABRIEL BASIN
1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924

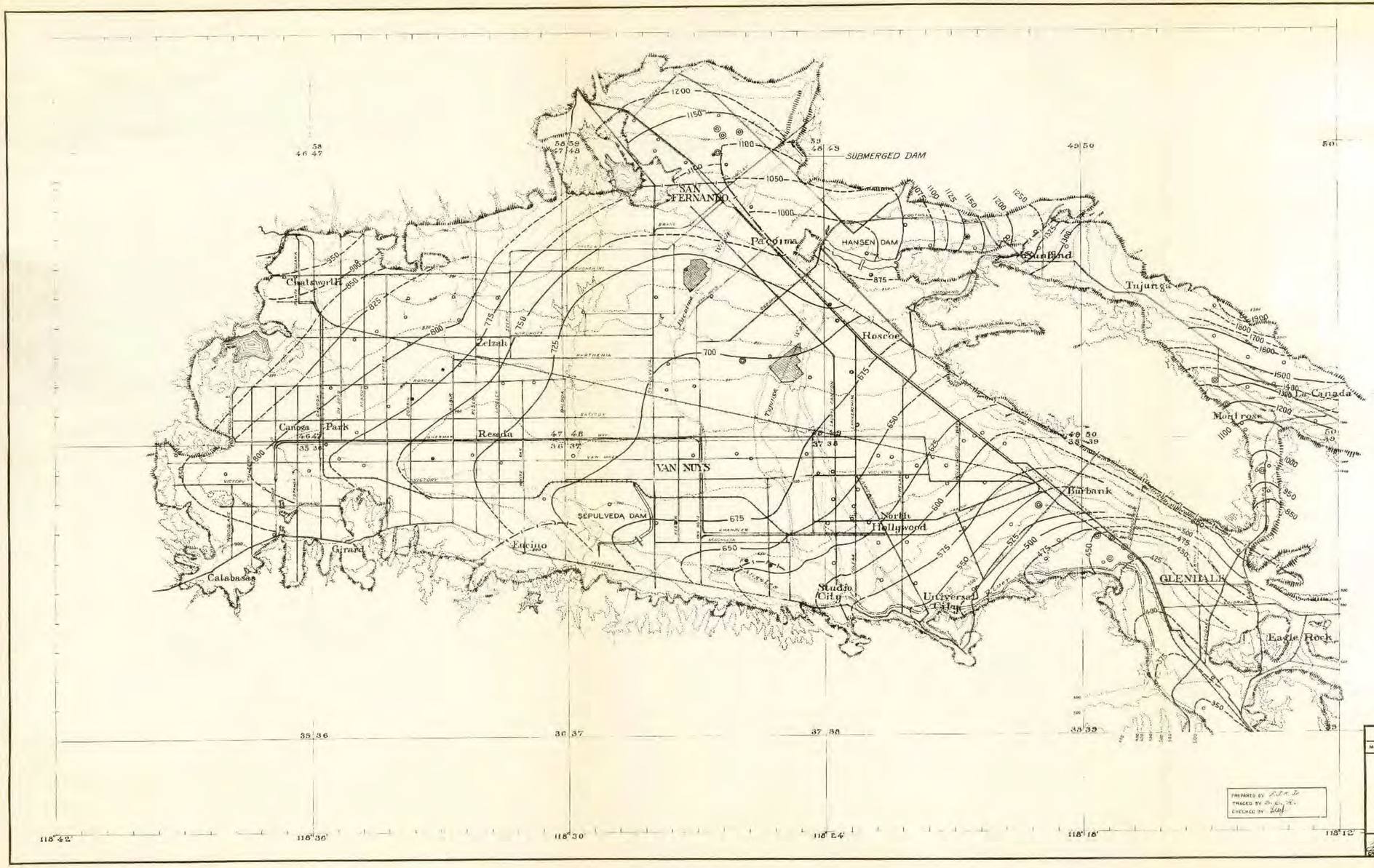

ELEVATION OF GROUND SURFACE AT WELL 3030 F +382.4
3030-F +386.7
BEGINNING OF 3030-F RECORD
END OF 3030 RECORD
330
320
310
300
290
280
270
260
250
GROUND WATER FLUCTUATIONS
WELL NO. 3030
WELL NO. 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 19


ELEVATION OF GROUND SURFACE AT WELL
ELEVATION, 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 1944


ELEVATION OF GROUND SURFACE AT WELL
ELEVATION, 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
1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944


ELEVATION OF GROUND SURFACE AT WELL = 1726.2
GROUND WATER FLUCTUATIONS
WELL NO. 4506A
UPPER CLAREMONT HEIGHTS
ELEVATION IN FEET U.S.G.S. DATUM
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944


ELEVATION OF GROUND SURFACE AT WELL = 1029.6
ELEVATION IN FEET U.S.G.S. DATUM
760
750
740
730
720
710
700
690
680
670
660
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
GROUND WATER FLUCTUATIONS
WELL NO. 3241-F
POMONA BASIN



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

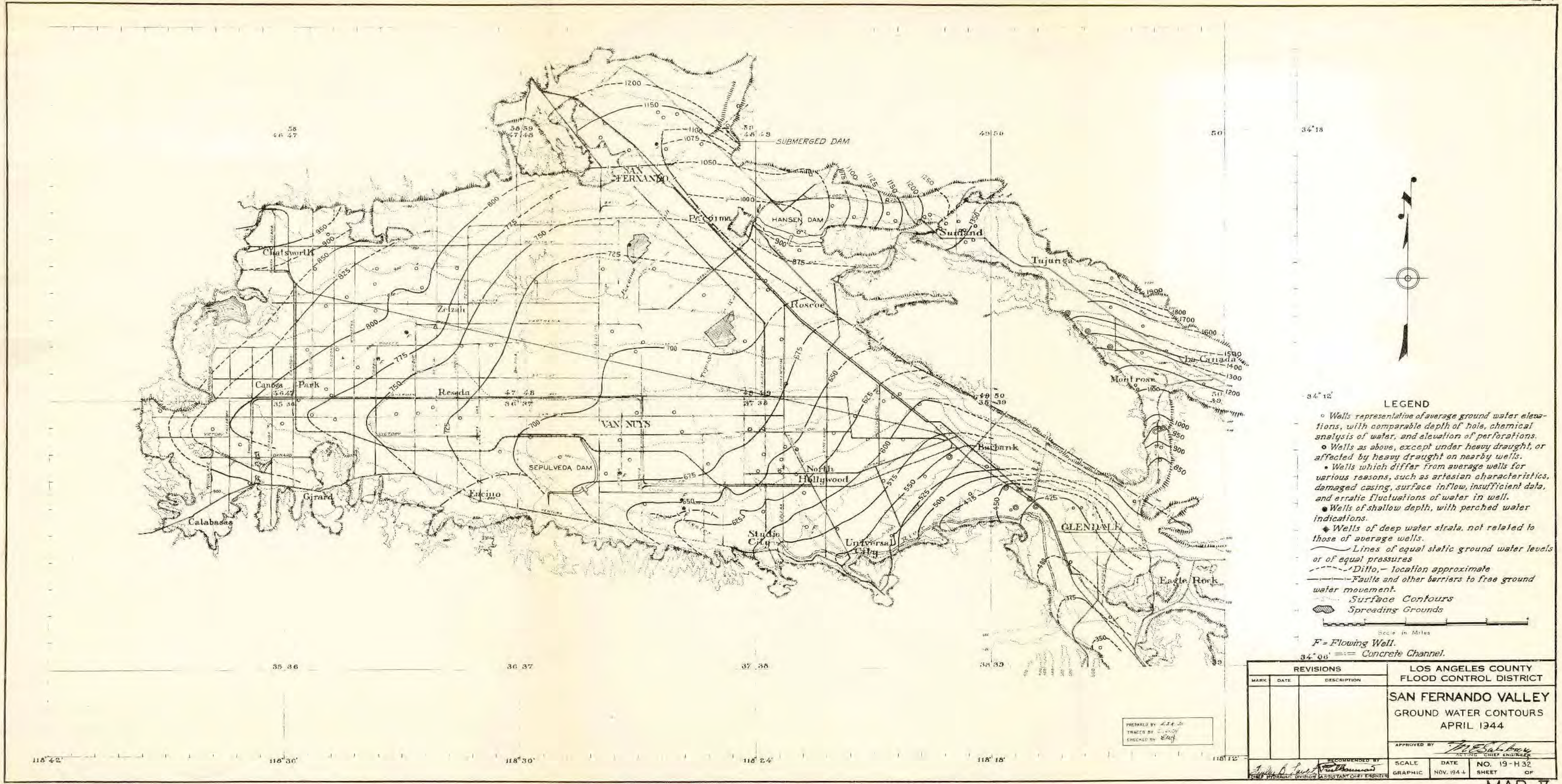
F = Flowing Well.

=== Concrete Channel.

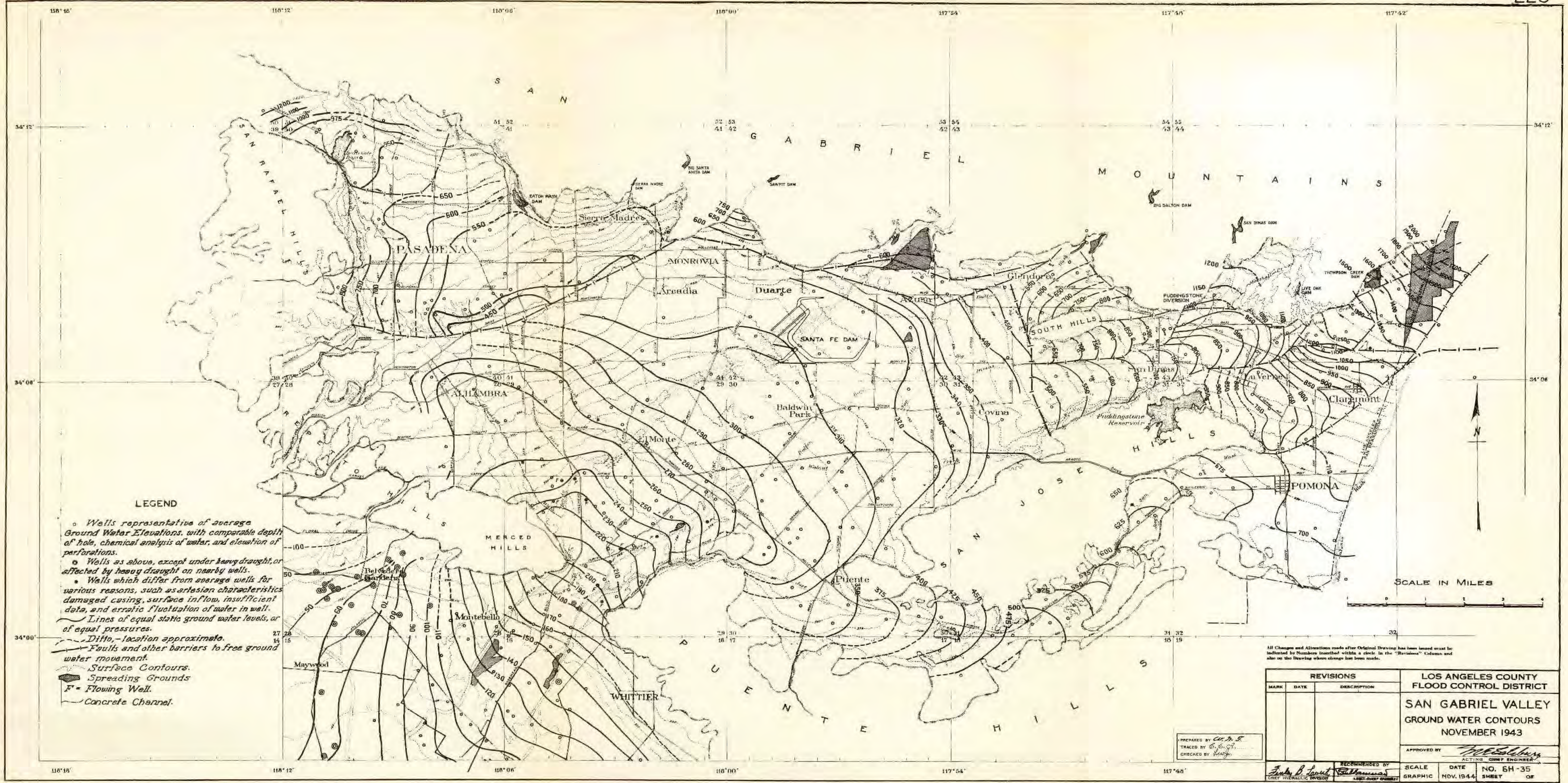
PREPARED BY
TRACED BY
CHECKED BY

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	SAN FERNANDO VALLEY GROUND WATER CONTOURS NOVEMBER 1943
			APPROVED BY ACTING CHIEF ENGINEER
			RECOMMENDED BY CHIEF HYDRAULIC DIVISION / ASSISTANT CHIEF ENGINEER
			SCALE GRAPHIC · DATE NOV. 1944 · NO. 19-H31 SHEET OF

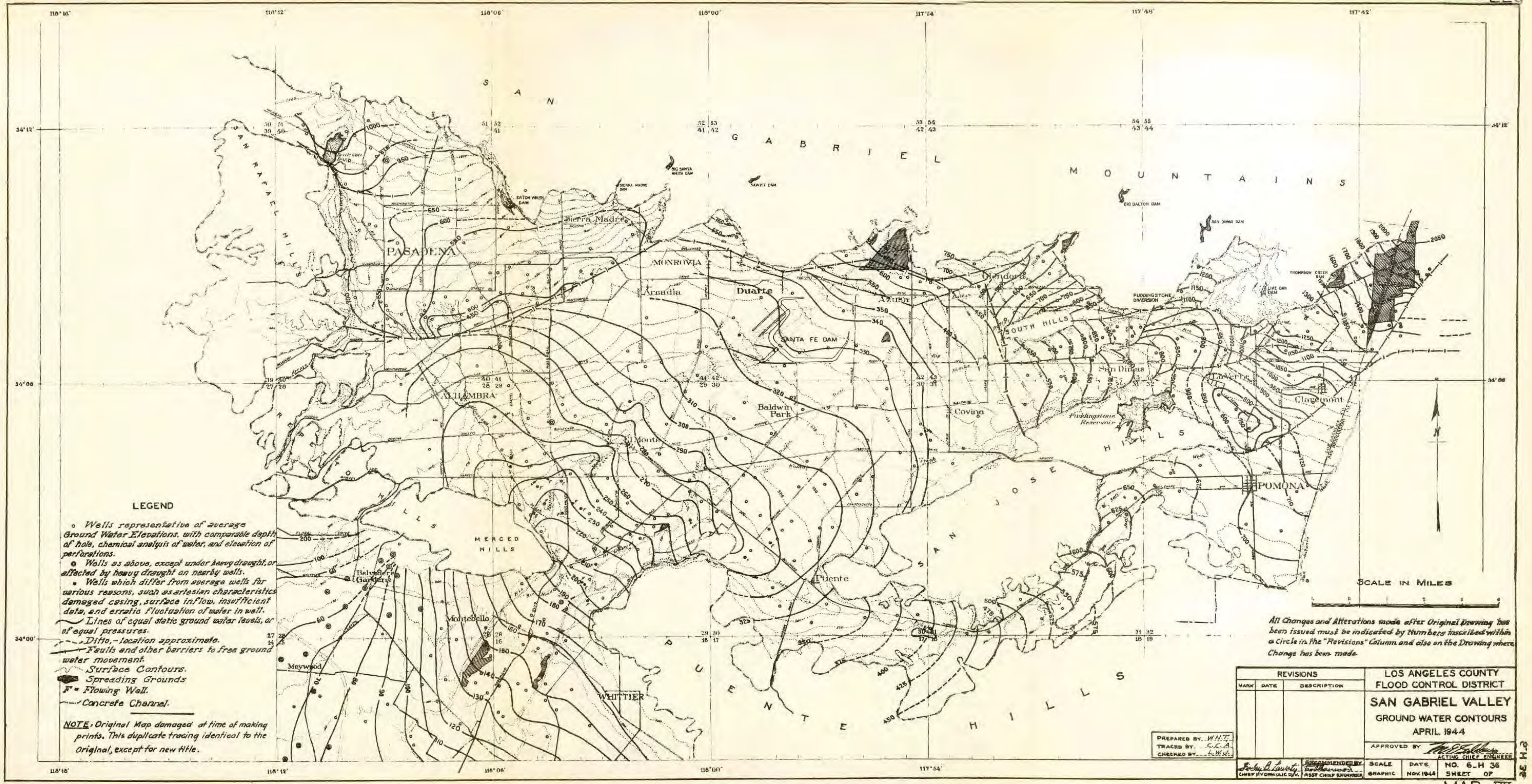
MAP IV


SUBMERGED DAM
SAN FERNANDO
Pacoima
HANSEN DAM
Sunland
Tujunga
Chatsworth
Zelzah
Roscoe
La Canada
Montrose
Canoga Park
Reseda
VAN NUYS
SEPULVEDA DAM
Burbank
North Hollywood
Girard
Calabasas
Encino
Studio City
Universal City
GLENDALE
Eagle Rock
34° 18'
34° 12'
34° 06'
118° 42'
118° 36'
118° 30'
118° 24'
118° 18'
118° 12'
LEGEND
o Wells representative of average ground water elevations, with comparable depth of hole, chemical analysis of water, and elevation of perforations.
o 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
F = Flowing Well.
Concrete Channel.
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY
GROUND WATER CONTOURS
APRIL 1944
APPROVED BY
ACTING CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC DIVISION
ASSISTANT CHIEF ENGINEER
PREPARED BY
TRACED BY
CHECKED BY
SCALE
GRAPHIC
DATE
NOV. 1944
NO. 19-H32
SHEET
OF

MAP V


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
MERCED HILLS
SAN JOSE HILLS
PUENTE HILLS
SOUTH HILLS
PASADENA
Sierra Madre
MONROVIA
Arcadia
Duarte
Azusa
Glendora
San Dimas
La Verne
Claremont
POMONA
Covina
Baldwin Park
El Monte
ALHAMBRA
Puente
Montebello
Maywood
WHITTIER
SANTA FE DAM
EATON WASH DAM
SAWPIT DAM
BIG DALTON DAM
SAN DIMAS DAM
THOMPSON CREEK DAM
PUDDINGSTONE DIVERSION
Puddingstone Reservoir
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.
SCALE IN MILES
All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Column and also on the Drawing where change has been made.
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
NOVEMBER 1943
APPROVED BY
ACTING CHIEF ENGINEER
RECOMMENDED BY
CHIEF HYDRAULIC DIVISION
SCALE GRAPHIC
DATE NOV. 1944
NO. 6H-35
SHEET OF

MAP VI


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
PASADENA
Sierra Madre
MONROVIA
Arcadia
Duarte
Azusa
Glendora
SANTA FE DAM
SOUTH HILLS
San Dimas
La Verne
Claremont
Puddingstone Reservoir
PUDDINGSTONE DIVERSION
ALHAMBRA
El Monte
Baldwin Park
Covina
SAN JOSE HILLS
POMONA
MERCED HILLS
Belvedere Gardens
Montebello
Maywood
WHITTIER
Puente
PUENTE HILLS
BIG SANTA ANITA DAM
SAWPIT DAM
SIERRA MADRE DAM
EATON WASH DAM
BIG DALTON DAM
SAN DIMAS DAM
THOMPSON CREEK DAM
LIVE OAK DAM
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.
NOTE: Original Map damaged at time of making prints. This duplicate tracing identical to the Original, except for new title.
SCALE IN MILES
All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a Circle in the "Revisions" Column and also on the Drawing where Change has been made.
REVISIONS
MARK
DATE
DESCRIPTION
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
APRIL 1944
PREPARED BY. W.N.T.
TRACED BY. C.C.A.
CHECKED BY. L.W.J.
APPROVED BY
ACTING CHIEF ENGINEER
CHIEF HYDRAULIC D/V.
RECOMMENDED BY
ASST CHIEF ENGINEER
SCALE GRAPHIC
DATE Nov. 1944
NO. 6-H 36
SHEET OF

MAP VII

LEGEND

- ○ Wells representative of average Ground Water Elevations with comparable depth of hole, chemical analysis of water, and elevation of perforations.
- ◎ Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
- • Wells which differ from average wells for various reasons, such as artesian characteristics, damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well.
- ● Wells of shallow depth with perched water indications.
- ✦ Wells of deep water strata, not related to those of average wells.
- ——— Lines of equal static ground water levels, or of equal pressures. *
- - - - - - Ditto, - location approximate. *
- —|—|— Faults and other barriers to free ground water movement.
- * In area N.E. of barriers, -
  - north of line thus ——— contours show equal static ground water levels
  - south of line thus ——·—— contours show equal ground water pressures.
  - In area S.W. of barriers, all contours show static ground water levels.
- Surface Contours
- F=Flowing Well.

All Changes and Alterations made after Original Drawing has been issued must be indicated by Numbers inscribed within a circle in the "Revisions" Columns and also on the Drawing where change has been made.

REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	COASTAL PLAIN GROUND WATER CONTOURS NOVEMBER 1943
			APPROVED BY: ACTING CHIEF ENGINEER
			RECOMMENDED BY: CHIEF HYDRAULIC DIVISION; ASSISTANT CHIEF ENGINEER
			SCALE: GRAPHIC; DATE: SEPT. 1944; NO. 2H-66; SHEET OF

PREPARED BY
TRACED BY
CHECKED BY

MAP VIII

SANTA MONICA MOUNTAINS

LOS ANGELES

ORANGE COUNTY

PUENTE HILLS

DOMINGUEZ HILLS

BALDWIN HILLS

SAN PEDRO HILLS

SAN PEDRO BAY

LONG BEACH

SIGNAL HILL

Beverly Hills
Culver City
Palms
SANTA MONICA
Venice
INGLEWOOD
El Segundo
Hawthorne
Manhattan Beach
Hermosa Beach
Redondo Beach
Torrance
Harbor City
Wilmington
SAN PEDRO
Vernon
Maywood
HUNTINGTON PARK
South Gate
WATTS
Lynwood
Athens
COMPTON
Gardena
Belvedere Gardens
Montebello
Pico Rivera
WHITTIER
Downey
Santa Fe Springs
Norwalk
Clearwater
Hynes
Bellflower
Artesia
Virginia City
ALHAMBRA
El Monte

Line of storage change area as shown in Bul. 45 State Dept. of Water Resources

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.

LEGEND

- ○ Wells representative of average Ground Water Elevations with comparable depth of hole, chemical analysis of water, and elevation of perforations.
- ◎ Wells as above, except under heavy draught, or affected by heavy draught on nearby wells.
- • Wells which differ from average wells for various reasons, such as artesian characteristics damaged casing, surface inflow, insufficient data, and erratic fluctuations of water in well.
- ● Wells of shallow depth with perched water indications.
- ✦ Wells of deep water strata, not related to those of average wells.
- ——— Lines of equal static ground water levels, or of equal pressures. *
- – – – Ditto, – location approximate. *
- —|—|— Faults and other barriers to free ground water movement.
- * In area N.E. of barriers, —
  - north of line thus ——·—— contours show equal static ground water levels
  - south of line thus ——··—— contours show equal ground water pressures.
- In area S.W. of barriers, all contours show static ground water levels.
- Surface Contours
- F = Flowing Well.

PREPARED BY [illegible]
TRACED BY [illegible]
CHECKED BY [illegible]

REVISIONS		
MARK	DATE	DESCRIPTION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

COASTAL PLAIN
GROUND WATER CONTOURS
APRIL 1944

APPROVED BY [signature] ACTING CHIEF ENGINEER

RECOMMENDED BY [signature] ASSISTANT CHIEF ENGINEER

[signature] CHIEF HYDRAULIC DIVISION

SCALE GRAPHIC | DATE SEPT. 1944 | NO. 2H-67 SHEET OF

MAP IX